



Grant agreement for: CIP-Best Practice Network

Annex I - "Description of Work"
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Project acronym: AthenaPlus

Project full title: " Access to cultural heritage networks for Europeana "

Grant agreement no: 325098

Version date: 2013-03-06

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A1: Project summary

Project Number ¹	325098	Project Acronym ²	AthenaPlus
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One form per project

General information

Project title ³	Access to cultural heritage networks for Europeana		
Starting date ⁴	01/03/2013		
Duration in months ⁵	30		
Call (part) identifier ⁶	CIP-ICT-PSP-2012-6		
Objective most relevant to your topic ⁷	:		
Free keywords ⁸	Digital Cultural Heritage, Museums, Libraries, Archives, LIDO, Europeana, Mint, Terminology, Aggregation		

Abstract ⁹

AthenaPlus will build on the successful experience developed by the previous ATHENA project – where LIDO and the ATHENA Ingestion Server and Mapping Tool (MINT), widely used across the Europeana's ecosystem of projects including the ongoing Linked Heritage project were developed, in order to further advance and complete the effective infrastructure and tools developed to support museums and other cultural institutions in their work to making available digital content through Europeana.

The best practice network created by AthenaPlus (40 partners from 21 Member States countries + 2 Associate countries and 1 International Observer) is in a strategic position to address this challenge, due to: its high institutional value (hundreds of European institutions are involved or associated with the project); the large amount of content made available to Europeana; the powerful services for institutions to be created by the project; the new services for specific communities of users and generic citizens.

The principal objectives of the AthenaPlus project are to:

- Contribute more than 3.6 millions metadata records to Europeana, from both the public and private sectors, focusing mainly on museums content, with key cultural stakeholders (ministries and responsible government agencies, libraries, archives, leading research centres, SMEs);
- Improve search, retrieval and re-use of Europeana's content; bettering multilingual terminology management, SKOS export and publication tool/API for Content Providers;
- Experiment with enriched metadata their re-use adapted for users with different needs (tourists, schools, scholars) by means of tools that support the development of virtual exhibitions, tourist and didactic applications, to be integrated into Europeana repositories and the repositories of national aggregators or individual Content Providers. The AthenaPlus content comes from more than 500 cultural institutions (more than 80% museums).

A2: List of Beneficiaries

Project Number ¹	325098	Project Acronym ²	AthenaPlus
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List of Beneficiaries

No	Name	Short name	Country	Project entry month ¹⁰	Project exit month
1	Istituto Centrale per il Catalogo Unico delle biblioteche italiane e per le informazioni bibliografiche	ICCU	Italy	1	30
2	UMA Information Technology GmbH	UMA	Austria	1	30
3	KONINKLIJKE MUSEA VOOR KUNST EN GESCHIEDENIS	KMKG	Belgium	1	30
4	PACKED EXPERTISECENTRUM DIGITAAL ERFGOED VZW	PACKED	Belgium	1	30
5	OPENBAAR KUNSTBEZIT IN VLAANDEREN VZW	OKV	Belgium	1	30
6	MICHAEL CULTURE AISBL	Michael	Belgium	1	30
7	THE CYPRUS INSTITUTE LIMITED	Cyl	Cyprus	1	30
8	NARODNI MUZEUM-NATIONAL MUSEUM NM	NM	Czech Republic	1	30
9	Eesti Vabariigi Kultuuriministeerium	EVKM	Estonia	1	30
10	MINISTERE DE LA CULTURE ET DE LA COMMUNICATION	MCC	France	1	30
11	STIFTUNG PREUSSISCHER KULTURBESITZ	SPK	Germany	1	30
12	PHILIPPS UNIVERSITAET MARBURG	UNIMAR	Germany	1	30
13	NATIONAL TECHNICAL UNIVERSITY OF ATHENS	NTUA	Greece	1	30
14	HELLENIC MINISTRY OF CULTURE AND TOURISM	HMCT	Greece	1	30
15	PETOFI IRODALMI MUZEUM	PIM	Hungary	1	30
16	Biblioteca nazionale centrale di Roma 'Vittorio Emanuele II'	BNCRM	Italy	1	30
17	M.E.T.A SRL	META	Italy	1	30
18	BOARD OF THE NATIONAL MUSEUM OF IRELAND	NMI	Ireland	1	30
19	LIETUVOS DAILES MUZIEJUS	LAM	Lithuania	1	30
20	STOWARZYSZENIE MIEDZYNARODOWE CENTRUM ZARZADZANIA INFORMACJA	Icimss	Poland	1	30
21	JAVNI ZAVOD REPUBLIKE SLOVENIJE ZA VARSTVO KULTURNE DEDISCINE	IPCHS	Slovenia	1	30

A2: List of Beneficiaries

No	Name	Short name	Country	Project entry month ¹⁰	Project exit month
22	Departament de Cultura - Generalitat de Catalunya	GenCat	Spain	1	30
23	FUNDACIO PRIVADA I2CAT, INTERNET I INNOVACIO DIGITAL A CATALUNYA	i2CAT	Spain	1	30
24	COLLECTIONS TRUST LBG	CT	United Kingdom	1	30
25	RIKSARKIVET	RA	Sweden	1	30
26	SIAULIU AUSROS MUZIEJUS VALSTYBES BIUDZETINE ISTAIGASAM	SAM	Lithuania	1	30
27	Muzej za umjetnost i obrt	MUO	Croatia	1	30
28	AYUNTAMIENTO DE GIRONA	SGDAP	Spain	1	30
29	UNIVERSITY OF PATRAS	UP	Greece	1	30
30	KULTURAS INFORMACIJAS SISTEMU CENTRS	KIS	Latvia	1	30
31	ASSOCIATION EUROPEENNE POUR LA CULTURE JUIVE	EAJC	France	1	30
32	UNIVERSITE DE SAVOIE	UniSav	France	1	30
33	Biblioteca Academiei Române	BAR	Romania	1	30
34	ASSOCIATION DEDALE	Dedale	France	1	30
35	UNIVERSITE PIERRE MENDES FRANCE	UPMF	France	1	30
36	CENTRAL LIBRARY OF THE BULGARIAN ACADEMY OF SCIENCES	CL-BAS	Bulgaria	1	30
37	INSTITUTUL NATIONAL AL PATRIMONIULUI	INP	Romania	1	30
38	Koninklijk Instituut voor het Kunstpatrimonium	KIK-irpa	Belgium	1	30
39	ISTITUTO LUIGI STURZO-ILS	ILS	Italy	1	30
40	LOCAL GOVERNMENT MANAGEMENT AGENCY-AN GHNIOMHAIREACHT BAINISTIOCHTA RIALTAIS AITIUIL LGMA	LGMA	Ireland	1	30

A3: Budget breakdown

Project Number ¹	325098	Project Acronym ²	AthenaPlus
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One Form per Project

Participant number in this project	Participant short name	Personnel costs	Sub contracting	Other direct costs	Total costs	Max EU Contribution	Requested EU contribution
1	ICCU	788,895.00	80,000.00	201,000.00	1,069,895.00	855,916.00	855,916.00
2	UMA	53,600.00	0.00	13,000.00	66,600.00	53,280.00	53,280.00
3	KMKG	92,500.00	0.00	14,500.00	107,000.00	85,600.00	85,600.00
4	PACKED	109,695.00	0.00	18,500.00	128,195.00	102,556.00	102,556.00
5	OKV	44,198.00	0.00	10,500.00	54,698.00	43,758.00	43,758.00
6	Michael	59,325.00	0.00	13,000.00	72,325.00	57,860.00	57,860.00
7	Cyl	71,595.00	0.00	15,000.00	86,595.00	69,276.00	69,276.00
8	NM	46,178.00	5,000.00	13,000.00	64,178.00	51,342.00	51,342.00
9	EVKM	45,775.00	0.00	15,000.00	60,775.00	48,620.00	48,620.00
10	MCC	38,620.00	0.00	10,000.00	48,620.00	38,896.00	38,896.00
11	SPK	123,013.00	25,000.00	15,000.00	163,013.00	130,410.00	130,410.00
12	UNIMAR	168,695.00	0.00	10,000.00	178,695.00	142,956.00	142,956.00
13	NTUA	205,570.00	0.00	40,000.00	245,570.00	196,456.00	196,456.00
14	HMCT	82,333.00	0.00	13,000.00	95,333.00	76,266.00	76,266.00
15	PIM	49,800.00	15,000.00	13,000.00	77,800.00	62,240.00	62,240.00
16	BNCRM	126,523.00	25,000.00	10,500.00	162,023.00	129,618.00	129,618.00
17	META	116,410.00	0.00	10,000.00	126,410.00	101,128.00	101,128.00
18	NMI	42,618.00	12,000.00	10,500.00	65,118.00	52,094.00	52,094.00
19	LAM	56,618.00	0.00	10,500.00	67,118.00	53,694.00	53,694.00
20	Icimss	80,974.00	0.00	15,000.00	95,974.00	76,779.00	76,779.00
21	IPCHS	78,753.00	15,000.00	15,000.00	108,753.00	87,002.00	87,002.00
22	GenCat	72,948.00	0.00	10,500.00	83,448.00	66,758.00	66,758.00

A3: Budget breakdown

Participant number in this project	Participant short name	Personnel costs	Sub contracting	Other direct costs	Total costs	Max EU Contribution	Requested EU contribution
23	i2CAT	111,475.00	0.00	12,500.00	123,975.00	99,180.00	99,180.00
24	CT	179,619.00	0.00	15,000.00	194,619.00	155,695.00	155,695.00
25	RA	165,738.00	0.00	13,000.00	178,738.00	142,990.00	142,990.00
26	SAM	34,848.00	0.00	10,500.00	45,348.00	36,278.00	36,278.00
27	MUO	48,133.00	0.00	13,000.00	61,133.00	48,906.00	48,906.00
28	SGDAP	203,782.00	18,000.00	8,000.00	229,782.00	183,825.00	183,825.00
29	UP	132,127.00	0.00	8,000.00	140,127.00	112,101.00	112,101.00
30	KIS	31,880.00	0.00	13,000.00	44,880.00	35,904.00	35,904.00
31	EAJC	62,500.00	0.00	15,000.00	77,500.00	62,000.00	62,000.00
32	UniSav	65,290.00	0.00	8,000.00	73,290.00	58,632.00	58,632.00
33	BAR	34,700.00	0.00	10,500.00	45,200.00	36,160.00	36,160.00
34	Dedale	110,740.00	35,000.00	15,000.00	160,740.00	128,592.00	128,592.00
35	UPMF	40,620.00	0.00	8,000.00	48,620.00	38,896.00	38,896.00
36	CL-BAS	30,000.00	0.00	13,000.00	43,000.00	34,400.00	34,400.00
37	INP	38,143.00	10,000.00	10,500.00	58,643.00	46,914.00	46,914.00
38	KIK-irpa	87,760.00	0.00	8,000.00	95,760.00	76,608.00	76,608.00
39	ILS	173,848.00	40,000.00	10,500.00	224,348.00	179,478.00	179,478.00
40	LGMA	62,175.00	0.00	10,500.00	72,675.00	58,140.00	58,140.00
TOTAL		4,168,014.00	280,000.00	698,500.00	5,146,514.00	4,117,204.00	4,117,204.00

1. Project number

The project number has been assigned by the Commission as the unique identifier for your project, and it cannot be changed. The project number **should appear on each page of the grant agreement preparation documents** to prevent errors during its handling.

2. Project acronym

Use the project acronym as indicated in the submitted proposal. It cannot be changed, unless agreed during the negotiations. The same acronym **should appear on each page of the grant agreement preparation documents** to prevent errors during its handling.

3. Project title

Use the title (preferably no longer than 200 characters) as indicated in the submitted proposal. Minor corrections are possible if agreed during the preparation of the grant agreement.

4. Starting date

Unless a specific (fixed) starting date is duly justified and agreed upon during the preparation of the Grant Agreement, the project will start on the first day of the month following the entry into force of the Grant Agreement (NB : entry into force = signature by the Commission). Please note that if a fixed starting date is used, you will be required to provide a detailed justification on a separate note.

5. Duration

Insert the duration of the project in full months.

6. Call (part) identifier

The Call (part) identifier is the reference number given in the call or part of the call you were addressing, as indicated in the publication of the call in the Official Journal of the European Union. You have to use the identifier given by the Commission in the letter inviting to prepare the grant agreement.

7. Activity code

Select the activity code from the drop-down menu.

8. Free keywords

Use the free keywords from your original proposal; changes and additions are possible.

9. Abstract

10. The month at which the participant joined the consortium, month 1 marking the start date of the project, and all other start dates being relative to this start date.

11. The number allocated by the Consortium to the participant for this project.

Workplan Tables

Project number

325098

Project title

AthenaPlus—Access to cultural heritage networks for Europeana

Call (part) identifier

CIP-ICT-PSP-2012-6

Funding scheme

CIP-Best Practice Network

WT1

List of work packages

Project Number ¹	325098	Project Acronym ²	AthenaPlus
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LIST OF WORK PACKAGES (WP)

WP Number ⁵³	WP Title	Lead beneficiary number ⁵⁵	Person-months ⁵⁶	Start month ⁵⁷	End month ⁵⁸
WP 1	Project management and coordination	1	90.00	1	30
WP 2	Coordination of content and standards	1	394.00	1	30
WP 3	Platform for Metadata Aggregation and Delivery to Europeana	13	105.00	2	30
WP 4	Terminologies and semantic enrichment	3	108.00	3	30
WP 5	Creative applications for the re-use of cultural resources	17	119.00	1	30
WP 6	Pilots for testing the creative use of cultural contents	23	131.00	13	30
WP 7	Awareness and dissemination	11	162.00	1	30
Total			1,109.00		

WT2: List of Deliverables

Project Number ¹	325098	Project Acronym ²	AthenaPlus
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List of Deliverables - to be submitted for review to EC

Deliverable Number ⁶¹	Deliverable Title	WP number ⁵³	Lead beneficiary number	Estimated indicative person-months	Nature ⁶²	Dissemination level ⁶³	Delivery date ⁶⁴
D1.1	Project quality plan and Risk Management Plan	1	1	6.00	R	RE	2
D1.2	Terms of reference for the best practice network and the enlargement of the network	1	1	6.00	R	PU	3
D1.3	Periodic progress report 1	1	1	18.00	R	RE	11
D1.4	Periodic progress report 2	1	1	18.00	R	RE	23
D1.5	Final project report	1	1	18.00	R	RE	30
D1.6	Exploitation plan	1	1	24.00	R	PU	30
D2.1	Workflow to Europeana	2	7	88.00	R	RE	11
D2.2	Survey and description of existing mapping models to LIDO	2	24	40.00	R	PU	18
D2.3	Workflow to Europeana	2	1	133.00	R	PU	23
D2.4	Workflow to Europeana	2	1	133.00	R	PU	30
D3.1	The MINT ingestion platform	3	13	40.00	P	PU	6
D3.2	Description of the LIDO to EDM mapping	3	13	20.00	R	PU	9
D3.3	Final report on the platform for metadata aggregation and delivery to Europeana	3	13	45.00	R	PU	30

WT2: List of Deliverables

Deliverable Number ⁶¹	Deliverable Title	WP number ⁵³	Lead beneficiary number	Estimated indicative person-months	Nature ⁶²	Dissemination level ⁶³	Delivery date ⁶⁴
D4.1	First release GLAM sector reference terminologies	4	3	8.00	R	PU	6
D4.2	Review on Linked Open Data Sources	4	12	10.00	R	PU	6
D4.3	First release terminology management platform (TMP)	4	32	10.00	R	PU	9
D4.4	Specialist training material: TMP user manuals and semantic mapping procedures	4	10	10.00	R	PU	10
D4.5	Second release of terminology management platform (TMP)	4	32	15.00	R	PU	23
D4.6	Linking of metadata to external data sources	4	12	15.00	R	PU	27
D4.7	Semantic metadata enrichment process: publication and linkage of metadata, terminology resources, a	4	32	15.00	R	PU	28
D4.8	Evaluation of the pilot sessions and second release of GLAM sector reference terminologies	4	10	25.00	R	PU	30
D5.1	Report on the user needs and requirements	5	1	4.00	R	PU	4
D5.2	Report on existing tools and devices	5	4	4.00	R	PU	6

WT2: List of Deliverables

Deliverable Number ⁶¹	Deliverable Title	WP number ⁵³	Lead beneficiary number	Estimated indicative person-months	Nature ⁶²	Dissemination level ⁶³	Delivery date ⁶⁴
	related to narrative approaches and requirement functionalities						
D5.3	First release of the AthenaPlus tools	5	17	48.00	D	PU	12
D5.4	Training materials for supporting the use of the AthenaPlus tools	5	4	23.00	R	PU	14
D5.5	Revision of the AthenaPlus tools	5	17	40.00	D	PU	30
D6.1	Evaluation framework for the pilots	6	20	33.00	R	PU	15
D6.2	Report describing the pilot on storytelling	6	34	20.00	R	PU	27
D6.3	Report with the assessment of the pilot actions	6	23	20.00	R	PU	27
D6.4	Manual of good practices, how to implement the pilots	6	20	30.00	R	PU	30
D6.5	Report describing the communities of users	6	23	28.00	R	PU	30
D7.1	Logo, corporate message, project website, shared dissemination plan, guidelines for Partners	7	11	3.00	R	PU	3
D7.2	Analysis, scenarios use cases, opportunities of innovative services for	7	6	8.00	R	PU	11

WT2: List of Deliverables

Deliverable Number ⁶¹	Deliverable Title	WP number ⁵³	Lead beneficiary number	Estimated indicative person-months	Nature ⁶²	Dissemination level ⁶³	Delivery date ⁶⁴
	DCH, and future development						
D7.3	First report on dissemination activities and networking in the European framework	7	1	25.00	R	PU	11
D7.4	First Issue of the Uncommon Culture Journal	7	20	15.00	R	PU	20
D7.5	Second report on dissemination activities and networking in the European framework	7	11	35.00	R	PU	24
D7.6	AthenaPlus publications	7	11	30.00	R	PU	27
D7.7	Final report on dissemination and networking activities	7	1	31.00	R	PU	30
D7.8	Second Issue of the Uncommon Culture Journal	7	20	15.00	R	PU	30
Total				1,109.00			

WT3: Work package description

Project Number ¹	325098	Project Acronym ²	AthenaPlus
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One form per Work Package

Work package number ⁵³	WP1
Work package title	Project management and coordination
Start month	1
End month	30
Lead beneficiary number ⁵⁵	1

Objectives

This WP, led by ICCU, is responsible for the following objectives to:

- Produce a workplan, monitor it and maintain it throughout the life-cycle of the project;
- Coordinate all of the work packages' activities of and to orchestrate all these activities throughout all of the phases of the project making sure that the work package teams reach their specific goals and responsibilities across the overall project;
- Produce the terms of reference for the best practice network and for the expansion of the Network;
- Manage and facilitate the communication and discussion among the Project Management Board;
- Organise the kick-off meeting and a plenary meeting every six months, with the contribution of all partners;
- Promote activities and exchange of information and data among the members of the Network;
- Monitor and evaluate the progress of the project with respect to the defined objectives;
- Elaborate a Risk Management plan that foresees risks, estimates the impacts, and creates response plans to mitigate them;
- Maintain contact with the European Commission and manage the administrative and financial aspects of the project;
- Coordinate the project activities with Europeana, with other projects supported by the European Commission within the same Programme, as well as with other national and transnational initiatives;
- Make provision for the future success of the AthenaPlus outputs, demonstrating the real value of the service to stakeholders and decision-makers, and so underpin future funding.
- Put in place a task force for analysing and solving IPR issues;
- Edit an Exploitation Plan with the contribution of all partners.

Description of work and role of partners

The Work Package will consist of six tasks:

Task 1.1 – Project management and financial coordination
Task Leader: ICCU

The WP leader, supported by all Partners and Work Package Leaders, will receive project funding from the European Commission and will manage finances and the reimbursement of costs to the consortium Partners in a timely manner and maintain the necessary records.

ICCU will also be responsible for the internal consortium management and coordination. The project coordinator will provide a draft consortium agreement, facilitate progress through day-to-day e-mail contact with all consortium Partners and work package leaders, by means of e-mail distribution lists for various target groups, as well as email, video and telephone conferences, define the terms of reference for the Best Practice Network, the expansion of the Network and the creation of the working groups.

The WP leader will also:

- Organise a kick off meeting (M1) and a plenary meeting every six months;
- Establish procedures to facilitate activity reporting by Partners and coordinate the project activities with Europeana, with the other projects supported by the European Commission within the same Programme, as well as with other national and transnational initiatives;
- Put in place a dedicated IPR task force in order to act as help-desk for Partners and solve any IPR issues. This IPR task force will be coordinated by ICCU in cooperation with partner University of Patras (UP);

WT3: Work package description

- Monitor partner's DEA signature with Europeana.

Task 1.2 – Web-based working area reserved to Partners

Task Leader: ICCU

The Web-based working area reserved for Partners, set up in the framework of WP7, will be used in order to ensure that all key project documents and internal support tools, drafts, interim reports and monitoring data are available to all members of the consortium.

Task 1.3 – Evaluation and Quality Control

Task Leader: ICCU

The Project Quality Plan will be established and maintained and Partners' inputs will be compiled and integrated into the plan so that project progress can be monitored on a quarterly basis. The project manager will submit Project Quality reports during the plenary meetings of the Project Management Board (PMB). ICCU will ensure that all milestones are reached by coordinating the work packages and monitoring the progress in the delivery of the project's objectives.

In addition, ICCU will ensure that all deliverables will be compiled, reviewed and submitted on time.

Appropriate arrangements will be put in place for the review of all deliverables. Each deliverable will be reviewed by Partners not directly involved in its creation, both for content and presentation. They will be submitted for review at least two weeks before their formal submission date. The list of internal peer reviews will be agreed at the kick-off meeting. ICCU will undertake regular progress monitoring so that all deliverables are completed according to the project's plan. However any necessary changes to the timing of deliverables will be agreed by the PMB and subsequently reported to the Commission.

Task 1.4 – Risk Management

Task Leader: ICCU

ICCU, supported by Work Package Leaders and other Partners, will be responsible for the establishment, maintenance and updating of the Project Risk Register and will coordinate risk management.

The Project Risks Analysis & Mitigation (PRAM) technique will be used. Risks will be identified and logged onto a risk register, providing a consistent basis for calculating the project risks, the analysis performed as well as the mitigation strategies to be developed to keep risks at an acceptable level. It also serves as a tool for communication amongst consortium members.

Task 1.5 – Project documentation

Task Leader: ICCU

The WP leader will be responsible for maintaining online availability and long-term storage of all documents issued (both internal and public).

Task 1.6 – Liaison with the European Commission

Task Leader: ICCU

ICCU will be directly responsible for the activities of AthenaPlus to the European Commission and will align the workflows of the project across the work packages. ICCU will therefore constitute the single point of contact and will handle the administrative and financial tasks connected with the activities of the project, such as cost claims, progress or final project reports as required by the Commission. ICCU will obtain formal documentation to be provided as necessary by each participant, organise appropriate attendance on behalf of the project at review, organisational and information day meetings. ICCU will coordinate the project's contribution and response to the Commission's peer reviews.

Person-Months per Participant

Participant number ¹⁰	Participant short name ¹¹	Person-months per participant
1	ICCU	35.00
2	UMA	1.00
3	KMKG	2.00
4	PACKED	2.00
5	OKV	1.00

WT3: Work package description

Person-Months per Participant

Participant number ¹⁰	Participant short name ¹¹	Person-months per participant
6	Michael	2.00
7	Cyl	1.00
8	NM	1.00
9	EVKM	1.00
10	MCC	1.00
11	SPK	2.00
12	UNIMAR	2.00
13	NTUA	2.00
14	HMCT	1.00
15	PIM	1.00
16	BNCRM	1.00
17	META	2.00
18	NMI	1.00
19	LAM	1.00
20	Icimss	2.00
21	IPCHS	1.00
22	GenCat	1.00
23	i2CAT	2.00
24	CT	2.00
25	RA	1.00
26	SAM	1.00
27	MUO	1.00
28	SGDAP	1.00
29	UP	7.00
30	KIS	1.00
31	EAJC	1.00
32	UniSav	1.00
33	BAR	1.00
34	Dedale	1.00
35	UPMF	1.00
36	CL-BAS	1.00
37	INP	1.00
38	KIK-irpa	1.00
39	ILS	1.00

WT3: Work package description

Person-Months per Participant

Participant number ¹⁰	Participant short name ¹¹	Person-months per participant
40	LGMA	1.00
	Total	90.00

List of deliverables

Deliverable Number ⁶¹	Deliverable Title	Lead beneficiary number	Estimated indicative person-months	Nature ⁶²	Dissemination level ⁶³	Delivery date ⁶⁴
D1.1	Project quality plan and Risk Management Plan	1	6.00	R	RE	2
D1.2	Terms of reference for the best practice network and the enlargement of the network	1	6.00	R	PU	3
D1.3	Periodic progress report 1	1	18.00	R	RE	11
D1.4	Periodic progress report 2	1	18.00	R	RE	23
D1.5	Final project report	1	18.00	R	RE	30
D1.6	Exploitation plan	1	24.00	R	PU	30
	Total		90.00			

Description of deliverables

D1.1) Project quality plan and Risk Management Plan: Set of activities planned at the beginning of the project that helps achieve Quality in the Project being executed. Guidelines to foresee risks, to estimate the impacts, and to create response plans to mitigate them [month 2]

D1.2) Terms of reference for the best practice network and the enlargement of the network: Model and procedures for establishing and managing Partners and working groups (WGs). Procedures for the enlargement of the network and cooperation rules. Definition of a model of cooperation agreement. [month 3]

D1.3) Periodic progress report 1: Consortium management tasks and achievements. Detailed description of the costs incurred by the project (months 1-11). [month 11]

D1.4) Periodic progress report 2: Consortium management tasks and achievements. Detailed description of the costs incurred by the project (months 12-23). [month 23]

D1.5) Final project report: Consortium management tasks and achievements. Detailed description of the costs incurred by the project (months 24-30). It includes also a summary report for publication, targeted to the general public. [month 30]

D1.6) Exploitation plan: Tasks agreed and started by the AthenaPlus consortium to guarantee the sustainability of the service after the end of the Community support. It will outline the future of the project and the use of the valuable knowledge gained from it. [month 30]

WT3: Work package description

Schedule of relevant Milestones

Milestone number ⁵⁹	Milestone name	Lead beneficiary number	Delivery date from Annex I ⁶⁰	Comments
MS1	First project review	1	12	First review called by EC
MS2	Second project review	1	24	Second review called by EC
MS3	Final project review	1	30	Final review called by EC

WT3: Work package description

Project Number ¹	325098	Project Acronym ²	AthenaPlus
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One form per Work Package

Work package number ⁵³	WP2
Work package title	Coordination of content and standards
Start month	1
End month	30
Lead beneficiary number ⁵⁵	1

Objectives

This WP, led by ICCU supported by CT, is responsible for the following objectives to:

- Manage the content provision to Europeana.
- Gather feedbacks from the Content Providers in order to resolve aggregation problems and to improve and refine the aggregation flow.
- Provide support to the Content Providers for the mapping of their metadata formats to LIDO and the use of the AthenaPlus ingestion platform.

Description of work and role of partners

Task 2.1: Organisation of the ingestion plan

Task leader: Cyl

The organisation of the content provision to Europeana is the first task to be implemented because it insures the effective workflow according to the overall plan.

To achieve this goal, the task leader will undertake a survey in order to gather and update detailed information about the digital collections described in B.2.1b of the DoW by the Content Providers; this data will be collected in the AthenaPlus ingestion plan which will collate the quantity of the digital collections, contact people, metadata standards applied, and the foreseen schedule of the ingestion.

The ingestion plan will be an evolving document and will be constantly updated. It is designed to support the task leader manage and assess the aggregation process into Europeana.

The aggregation of content for Europeana marks 3 milestones:

- month 12: 15- 20% of the whole content is uploaded in MINT and ready to be harvested by Europeana;
- month 24: 60-70% of the whole content is uploaded in MINT and ready to be harvested by Europeana;
- month 30: 100% of the whole content is uploaded in MINT and ready to be harvested by Europeana.

The survey will be also helpful for the identification of best practice for content re-use and IPR management for WP5 and WP6 tasks.

Task 2.2: Survey and description of mapping suitable to LIDO

Task leader: CT

Under the successful direction of ATHENA Project the harvesting standard for museum heritage, LIDO, became an international standard. Its definition in an XML schema, together with the specification document, can be found at www.lido-schema.org.

LIDO is the result of a collaborative effort of international stakeholders in the museum sector, starting in 2008, to create a common solution for contributing cultural heritage content to portals and other repositories of aggregated resources. Being an application of the CIDOC Conceptual Reference Model (CRM) it provides an explicit format to deliver museum's object information in a standardized way.

We are proud to report that LIDO is also successfully being used in cross-domain contexts; with a surprisingly rapid and extensive uptake :

Europeana group of projects

- Partage Plus – Digitising and enabling Art Nouveau for Europeana
- Linked Heritage - Coordination of Standards and Technologies for the Enrichment of Europeana
- DCA - Digitising Contemporary Art

WT3: Work package description

- Europeana Judaica - Jewish Contribution to Europe's Cultural Heritage
- MIMO - Musical Instrument Museums Online
- ATHENA - Access to Cultural Heritage Network across Europe

National digital libraries

- Finnish National Digital Library
- German Digital Library

Regional or thematic applications

- BAM-Portal
- Bildindex der Kunst und Architektur
- digiCULT
- eMuseum network
- Yale Centre for British Art

Research projects

- MINT - Metadata Interoperability Services
 - WissKI - Scientific Communication Infrastructure
- and many other European projects and museums.

In reference of this extensive uptake, we plan to collect and publish all the existing mapping models to LIDO realised in different frameworks and domains online (including the EDM, Europeana model) in order to support other cultural institutions in the application of this harvesting format. Other relevant mappings to LIDO not yet realised may be done in this phase to produce a complete work. This work will benefit from the survey upon the metadata models used by the AthenaPlus consortium carried out within task 2.1.

Task 2.3: Training for mapping and the use of the AthenaPlus aggregation platform

Task leader: Cyl

The task leader will organise training sessions to support Content Providers map to LIDO and will guide them how to use the aggregation platform (MINT). The first training session will be organised at the very beginning of the project and repeated across Europe according to the need.

Training materials for Content Providers will be produced on how to aggregate and to use LIDO and MINT.

Task 2.4: Helpdesk service

Task leader: ICCU

At the start of the ingestion phase a help-desk service will be created to support the Content Providers overcome their problems and to keep content coordinators informed as their activities advance. This task will be performed jointly by ICCU, Cyl, CT, NTUA, and UNIMAR in order to assure feedback to each kind of potential problem (mapping, use of MINT, software bugs, deadlines, etc.). See also Task 3.2.

Person-Months per Participant

Participant number ¹⁰	Participant short name ¹¹	Person-months per participant
1	ICCU	50.00
2	UMA	3.00
5	OKV	4.00
7	Cyl	13.00
8	NM	8.00
9	EVKM	8.00
11	SPK	3.00
12	UNIMAR	4.00
13	NTUA	2.00

WT3: Work package description

Person-Months per Participant

Participant number ¹⁰	Participant short name ¹¹	Person-months per participant
14	HMCT	10.00
15	PIM	8.00
16	BNCRM	17.00
18	NMI	5.00
19	LAM	6.00
20	Icimss	3.00
21	IPCHS	4.00
22	GenCat	12.00
24	CT	25.00
25	RA	13.00
26	SAM	7.00
27	MUO	9.00
28	SGDAP	47.00
29	UP	17.00
30	KIS	6.00
31	EAJC	7.00
33	BAR	13.00
35	UPMF	4.00
36	CL-BAS	13.00
37	INP	25.00
38	KIK-irpa	12.00
39	ILS	27.00
40	LGMA	9.00
Total		394.00

List of deliverables

Deliverable Number ⁶¹	Deliverable Title	Lead beneficiary number	Estimated indicative person-months	Nature ⁶²	Dissemination level ⁶³	Delivery date ⁶⁴
D2.1	Workflow to Europeana	7	88.00	R	RE	11
D2.2	Survey and description of existing mapping models to LIDO	24	40.00	R	PU	18
D2.3	Workflow to Europeana	1	133.00	R	PU	23
D2.4	Workflow to Europeana	1	133.00	R	PU	30
Total			394.00			

WT3: Work package description

Description of deliverables

D2.1) Workflow to Europeana: This deliverable will describe the entire content provision procedure to Europeana (ingestion plan, helpdesk, training sessions and material) and present the results of the first ingestion of content due at month 12 including the description of the problems faced by Content Providers and the adopted solutions. This deliverable will be also updated every 4 months till the end of the project; a total of 6 deliverables are foreseen. The deliverable will also describe the state of the art of the metadata used by the Content Providers, as a preliminary investigation, in order to facilitate the further work of the Task 2.2. [month 11]

D2.2) Survey and description of existing mapping models to LIDO: This deliverable will describe the methodology, the targets and the results of the survey. It will include recommendations to help AthenaPlus and future Content Providers find their way. It will include an online section collecting all the existing mapping models to LIDO realised in different frameworks and domains (including that one to EDM). [month 18]

D2.3) Workflow to Europeana: This deliverable will update the procedure adopted to organize the content provision to Europeana (ingestion plan, helpdesk, training sessions and material) and present the results of the ingestion of content due at month 24 including the description of the problems faced by Content Providers and the adopted solutions. [month 23]

D2.4) Workflow to Europeana: This deliverable will present the results of the ingestion of content due at month 30 including the description of the problems faced by Content Providers and the adopted solutions. [month 30]

Schedule of relevant Milestones

Milestone number ⁵⁹	Milestone name	Lead beneficiary number	Delivery date from Annex I ⁶⁰	Comments
MS4	10-20% content uploaded in MINT	1	11	10-20% of the whole content is uploaded in MINT and ready to be harvested by Europeana
MS5	60-70% content uploaded in MINT	1	23	60-70% of the whole content is uploaded in MINT and ready to be harvested by Europeana
MS6	100% content uploaded in MINT	1	30	100% of the whole content is uploaded in MINT and ready to be harvested by Europeana

WT3: Work package description

Project Number ¹	325098	Project Acronym ²	AthenaPlus
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One form per Work Package

Work package number ⁵³	WP3
Work package title	Platform for Metadata Aggregation and Delivery to Europeana
Start month	2
End month	30
Lead beneficiary number ⁵⁵	13

Objectives

This WP, led by NTUA supported by UNIMAR, is responsible for the following objectives to:

- Integrate the technical components necessary for the ingestion of content into Europeana (ESE/EDM compliant).
- Publish interfaces for the integration of the technical results within the same user environment.
- Make the platform available online for validation and for the large-scale contribution of content to Europeana and for dissemination and training.
- Involve user representatives from within the consortium in the design and delivery of the system, to ensure that it meets their needs and is user-friendly, reliable and scalable.
- Verify that the technology platform can be integrated with minimum effort into the Europeana core codebase and/or used by Europeana as a suite of external web services.

Description of work and role of partners

Task 3.1: Compliance with CH metadata modelling requirements

Task leader: NTUA

Europeana Data Model (EDM) is the standard developed by Europeana for aggregating rich metadata from a wide range of data providers including libraries, museums, archives and audio-visual sectors. EDM is intended to act as a replacement of the Europeana Semantic Elements (ESE) -a much simpler and less expressive standard than EDM- that is currently used for delivering content to Europeana. However EDM is both complex and still evolving (the latest version is 5.2) and therefore this task will ensure the compliant of MINT tool -that will be used for the ingestion of the metadata and its delivery to Europeana- with any updates of EDM. This will include a mapping of LIDO to EDM exploiting the full expressiveness of both models and the implementation of a LIDO to EDM transformation mechanism. In addition updates to the latest EDM will be performed without affecting the mappings of the Content Providers, since they will be applied to LIDO that will act as an intermediate schema, simplifying in that way their work. Furthermore within this task work will be done for supporting existing mappings to LIDO from various known schemas that will be the outcome of task 2.2

Task 3.2: Help desk support system

Task leader: UNIMAR

The main objective of this task will be the creation of a help desk support system that will assist the Content Providers during all the phases of the AthenaPlus project. More specifically the Content Providers will be able to get instructions on how to map their in-house metadata to LIDO for exploiting its full expressiveness, as well as technical information about MINT functionalities that will permit them to fit their metadata perfectly according to the AthenaPlus requirements. In addition, a set of explanatory documents concerning the various aspects of importing metadata to MINT, mapping to LIDO and publishing metadata to Europeana will be carried out within this task. The documents that will provide guidelines to Content Providers together with the on-going support during the project will ensure seamless transformation and delivery processes. This task will be a crucial element of the helpdesk service targeted to content providers and coordinated by ICCU (see also Task 2.4).

Task 3.3: Metadata Ingestion

Task leader: NTUA

The main objective of this task will be the transformation of the aggregated metadata to EDM. To achieve this target an ingestion server using MINT tool will be set up by the task leader who will also provide technical advice

WT3: Work package description

and guidelines to the Content Providers for exporting their in-house metadata according to the requirements set for the AthenaPlus project. The Content Providers will then be able to use MINT for importing their metadata and performing mappings to LIDO through a user-friendly interface. LIDO is a metadata standard established in the Athena project and it will act as an intermediate schema between providers' metadata and EDM, firstly because it is very expressive and it can accommodate various kinds of metadata and secondly because the way EDM updates can remain transparent to the Content Providers. In addition, the Content Providers will be able to enrich their metadata incorporating vocabularies and terminologies that will be the outcome of WP4, by using MINT.

Task 3.4: Delivery to Europeana

Task leader: NTUA

The main objective of this task will be the delivery of quality metadata to Europeana. MINT offers a centralized management for metadata and it will perform various quality control checks. Firstly, LIDO contains mandatory fields and in that way a minimum set of metadata fields for an item is required before the delivery of content to Europeana. MINT platform will be configured so as to provide feedback to the user during the mapping process indicating the mandatory fields missing. Additionally, functionality for validating the transformed metadata and previewing them, as they will appear in Europeana before the actual publication will be provided by the MINT platform ensuring the creation of correct and high quality metadata. Finally the transformation to EDM and the validated metadata will be published to Europeana using OAI-PMH through the MINT publication interface that will permit the easy management of providers' collections.

Person-Months per Participant

Participant number ¹⁰	Participant short name ¹¹	Person-months per participant
1	ICCU	21.00
2	UMA	1.00
5	OKV	1.00
7	Cyl	2.00
8	NM	1.00
9	EVKM	1.00
11	SPK	1.00
12	UNIMAR	12.00
13	NTUA	38.00
14	HMCT	1.00
15	PIM	1.00
16	BNCRM	1.00
17	META	2.00
18	NMI	1.00
19	LAM	1.00
20	Icimss	1.00
21	IPCHS	1.00
22	GenCat	1.00
24	CT	2.00
25	RA	1.00
27	MUO	1.00

WT3: Work package description

Person-Months per Participant

Participant number ¹⁰	Participant short name ¹¹	Person-months per participant
28	SGDAP	2.00
29	UP	1.00
31	EAJC	1.00
33	BAR	2.00
35	UPMF	1.00
36	CL-BAS	1.00
37	INP	1.00
38	KIK-irpa	1.00
39	ILS	2.00
40	LGMA	1.00
Total		105.00

List of deliverables

Deliverable Number ⁶¹	Deliverable Title	Lead beneficiary number	Estimated indicative person-months	Nature ⁶²	Dissemination level ⁶³	Delivery date ⁶⁴
D3.1	The MINT ingestion platform	13	40.00	P	PU	6
D3.2	Description of the LIDO to EDM mapping	13	20.00	R	PU	9
D3.3	Final report on the platform for metadata aggregation and delivery to Europeana	13	45.00	R	PU	30
Total			105.00			

Description of deliverables

D3.1) The MINT ingestion platform: This deliverable will describe the MINT ingestion platform presenting its architecture and the technologies used for its implementation. In addition the MINT workflow will be explained and detailed user instructions for every MINT procedure will be provided. [month 6]

D3.2) Description of the LIDO to EDM mapping: This deliverable will describe in detail the mapping from LIDO to EDM and will also presenting the various design decisions that will have been made for their implementation. [month 9]

D3.3) Final report on the platform for metadata aggregation and delivery to Europeana: This deliverable will present the final state of the platform for metadata aggregation and delivery to Europeana. More precisely it will include the description of the LIDO mapping to the latest EDM schema that will be used for the final delivery of the metadata. In addition, any special customizations that will be made to MINT platform for fitting the requirements of AthenaPlus project as well as the ways of overcoming possible technical issues that may arise during the project will be described (including the inputs given by WP5). In conclusion, this deliverable will present reports on the total amount of metadata delivered to Europeana. [month 30]

WT3: Work package description

Schedule of relevant Milestones

Milestone number ⁵⁹	Milestone name	Lead beneficiary number	Delivery date from Annex I ⁶⁰	Comments
MS7	MINT/AthenaPlus ready for delivering content to Europeana	13	6	Starting point of the aggregation of content

WT3: Work package description

Project Number ¹	325098	Project Acronym ²	AthenaPlus
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One form per Work Package

Work package number ⁵³	WP4
Work package title	Terminologies and semantic enrichment
Start month	3
End month	30
Lead beneficiary number ⁵⁵	3

Objectives

This WP, led by KMKG with the support of MCC, is responsible for the following objectives to:

- Set up a registry to serve as an archive of reference terminologies stored in an Europeana interoperable format (SKOS RDF) for the cultural heritage sector to consult, use and link to
- Provide a web service for online sharing of terminologies and semantic mappings between concepts of different terminologies in order to publish the terminologies as part of the Linked Data Web
- Provide education and training to Content Providers on best practice multilingual terminology management, SKOSification, semantic mapping of concepts and Linked Data publication of terminologies using the dedicated AthenaPlus project Terminology Management Platform
- Create a semantic repository for the AthenaPlus project that will include all the AthenaPlus metadata in a semantic rich representation giving special effort to the linking process, transforming metadata to a semantically richer representation that permits machine readable semantics (RDF)
- Explore the potential use of the provider's terminologies for the metadata transformation to RDF and linking processes
- Semantically enrich and link the metadata to external data sources
- Organise pilot sessions with Content Providers to refine the functionalities of the semantic mapping tool and test the possibilities to achieve semantic linkage between the terminologies and the metadata.

The complexity of these WP needs the elaboration of a huge number of deliverables (not less than 8).

Description of work and role of partners

Task 4.1: Analysis and collection of suitable terminologies (terminologies competence centre)

Task leader: KMKG

This task's main objective is to gather good quality terminologies from the different cultural heritage domains, focussing on different topics, to serve as input for the registry of reference terminologies. Previous work in the Athena project already showed that many Content Providers use extensive monolingual or even multilingual terminologies to describe parts of their metadata in a controlled way. Often these terminologies are developed in-house, based on reference terminologies like the Getty or Library of Congress terminologies, and created with the help of expert curators. These vast resources of high quality expert terminologies are however mostly inaccessible for the cultural heritage community, not because of rights, but because of technical limitations the Partners face in sharing these terminologies in an interoperable format in order to be able to make them part of the Linked Data web. This task will therefore make an optimised use of the contacts with the large network of content providers and aggregators of the GLAM sector build out in previous projects like MINERVA and ATHENA. From these GLAM content providers, the best reference terminologies will be selected and aggregated for input into the AthenaPlus terminology.

Task 4.2: Terminology management platform

Task leader: UniSav

The registry will serve as an archive of terminologies for the cultural heritage sector to consult, use and link to in a semantic environment. These shared terminologies can serve as a source of inspiration for the development of new or semantic enrichment of their existing terminologies. In their turn Content Providers can upload, edit and share their own terminologies with the community, align their terminology concepts with the reference terminologies stored in the registry, publish them in SKOS RDF as Linked Data. For this alignment a semantic mapping tool will be provided. In this project it isn't the intention to develop a new tool from scratch, but to use

WT3: Work package description

the TMP (Terminology Management Platform), a tool developed in a previous project and which already reached a stage of maturity and proofed stability. This tool will be analysed and improved with the help of a dedicated WP group. It should be both simple and straightforward in use, not only giving Content Providers the possibility to map concepts together, but also to engage with the community in a network forum to allow them to discuss on the work and share their experiences. TMP already provides the necessary functionalities and selecting a tool that is already being used by a large community and has proved its stability, will allow us to focus on the collection of resources, training of Content Providers and creation of a network of multilingual terminologies instead.

Though the basis of the suggested terminology tool that will already be available at the start of the project thanks to the re-use and planned re-development of the TMP as it was conceived in a prototype version within the BPN projects ATHENA and Linked Heritage, improvements will be made to this terminology management environment thanks to the set-up of a dedicated pilot group of Content Providers (Tasks 4.3). This pilot group of 10 Content Providers will need to be trained and at the same time asked to provide input on user requirements and improvements of TMP functionalities. Because a tool is needed before actual training can take place, but input on the TMP functionalities is needed from the user group for the improvements of the environment, Tasks 4.2 and 4.3 will mainly run in parallel (with Task 4.2 starting 3 months before task 4.3 to allow initial set-up of the environment in preparation of the first documentation & training sessions).

Task 4.3: Semantic enrichment of cultural metadata with Linked Open Data

Task leader: UniSav, supported by NTUA

Linked Data are generated by establishing relations between web data from a variety of sources. Technically, Linked Data refers to data published on the Web in such a way that it is machine-readable, its meaning is explicitly defined, it is linked to other external data sets, and can in turn be linked by external data sets. Europeana has launched a substantial Pilot with Linked Open Data. It currently contains open metadata on 2.4 million texts, images, videos and sounds gathered by Europeana. However, the main limitation of this approach is that little effort was given to the linking of metadata, resulting to restricted exploitation of other data sources. The main objective of this task will be the creation of a semantic repository for the AthenaPlus project that will include all the AthenaPlus metadata in a semantic rich representation giving special effort to the linking process. More specifically within this task the following subtasks will be performed:

- The transformation of the metadata to a semantically richer representation that permits machine readable semantics (RDF)
- Exploring the potential use of the provider's terminologies as addressed in Task 1-3 for the metadata transformation to RDF and linking processes / analysis of interdependencies
- The semantic enrichment and linking of the metadata to external data sources.

Task 4.4: Organisation of pilot sessions for testing the system with 10 content providers

Task leader: MCC

Training is an essential part of this WP. In this project we want to go beyond prototype stadium and achieve a full practical use of the TMP and improvement of the Linked Heritage TMP (Terminology Management Platform) which will be available from the general domain name www.culture-terminology.org. To achieve this we will focus on user friendliness of the tool, provide good quality documentation and user manuals, and hand on sessions teaching Content Providers how to do semantic mappings. Pilot sessions with five to ten terminology providers will help refine the functionalities of the semantic mapping tool to serve as input for the technical partner (see Task 4.2). In a final stadium mapped terminologies from the 5-10 Content Providers will be linked back to the metadata they are providing in the project using the MINT tool. This combined training session for the TMP and the MINT tool, i.e. the link between the terminologies and the metadata, will allow the end users to consult and browse through a certain terminology and view the results of the records with metadata attached to a certain terminology concept: e.g.: modification of terminologies=> update of the already ingested metadata; new mapped terminologies => impact on new metadata and existing one.

Person-Months per Participant

Participant number ¹⁰	Participant short name ¹¹	Person-months per participant
1	ICCU	12.00
2	UMA	1.00
3	KMKG	13.00

WT3: Work package description

Person-Months per Participant

Participant number ¹⁰	Participant short name ¹¹	Person-months per participant
4	PACKED	1.00
5	OKV	1.00
6	Michael	1.00
7	Cyl	2.00
8	NM	1.00
9	EVKM	1.00
10	MCC	7.00
11	SPK	3.00
12	UNIMAR	3.00
13	NTUA	5.00
14	HMCT	2.00
15	PIM	2.00
16	BNCRM	2.00
17	META	1.00
18	NMI	2.00
19	LAM	2.00
20	Icimss	2.00
21	IPCHS	1.00
22	GenCat	2.00
23	i2CAT	1.00
24	CT	2.00
25	RA	4.00
26	SAM	1.00
27	MUO	2.00
28	SGDAP	2.00
29	UP	1.00
30	KIS	1.00
31	EAJC	1.00
32	UniSav	12.00
33	BAR	2.00
34	Dedale	2.00
36	CL-BAS	1.00
37	INP	4.00
38	KIK-irpa	1.00

WT3: Work package description

Person-Months per Participant

Participant number ¹⁰	Participant short name ¹¹	Person-months per participant
39	ILS	2.00
40	LGMA	2.00
Total		108.00

List of deliverables

Deliverable Number ⁶¹	Deliverable Title	Lead beneficiary number	Estimated indicative person-months	Nature ⁶²	Dissemination level ⁶³	Delivery date ⁶⁴
D4.1	First release GLAM sector reference terminologies	3	8.00	R	PU	6
D4.2	Review on Linked Open Data Sources	12	10.00	R	PU	6
D4.3	First release terminology management platform (TMP)	32	10.00	R	PU	9
D4.4	Specialist training material: TMP user manuals and semantic mapping procedures	10	10.00	R	PU	10
D4.5	Second release of terminology management platform (TMP)	32	15.00	R	PU	23
D4.6	Linking of metadata to external data sources	12	15.00	R	PU	27
D4.7	Semantic metadata enrichment process: publication and linkage of metadata, terminology resources, a	32	15.00	R	PU	28
D4.8	Evaluation of the pilot sessions and second release of GLAM sector reference terminologies	10	25.00	R	PU	30
Total			108.00			

Description of deliverables

D4.1) First release GLAM sector reference terminologies: Terminology resource report (1st release): This deliverable, coordinated by KMKKG, describes the results of the analysis of GLAM terminologies, the selection criteria used for the collection of suitable reference terminologies, as well as a detailed overview of the terminologies gathered in the registry of terminologies. [month 6]

D4.2) Review on Linked Open Data Sources: This deliverable, coordinated by UNIMAR, will provide an overview of the Linked Open Data sources that could be used for linking the AthenaPlus content. General and technical details will be given for each of the data sources examined including, the type of content described, the amount of resources served and the protocols supported for consuming data. [month 6]

D4.3) First release terminology management platform (TMP): First release of functional and technical specifications and of the Terminology Management Platform web service: This deliverable, coordinated by UniSav, consists in the functional and technical specifications of the system for the management of multilingual terminologies and includes a first version release of the Terminology Management Platform to be made available to the consortium as a web service. [month 9]

WT3: Work package description

D4.4) Specialist training material: TMP user manuals and semantic mapping procedures: This deliverable, coordinated by MCC, will present documentation and extensive training material for terminology providers, including documentation on how to manage one's terminology and prepare it for the semantic web, manuals to use the TMP for the semantic mappings between multilingual terminologies and a detailed planning for the organisation of the pilot session and training workshops. [month 10]

D4.5) Second release of terminology management platform (TMP): Second release of functional and technical specifications and of the Terminology Management Platform web service: This deliverable, coordinated by UniSav, provides an update of the functional and technical specifications of the system for the management of multilingual terminologies and the second and final version release of the Terminology Management Platform. [month 23]

D4.6) Linking of metadata to external data sources: This deliverable, coordinated by UNIMAR and NTUA, will present the external data sources to which the cultural content of the AthenaPlus will be linked. It will also report on the analysis and highlight examples for using underlying terminologies to improve linking processes. In addition, the method used for linking, as well as an overall evaluation of the linking process, will be presented. [month 27]

D4.7) Semantic metadata enrichment process: publication and linkage of metadata, terminology resources, a: Report on the number of published and semantically connected terminologies: This deliverable, coordinated by UniSav and NTUA, will present a detailed overview of qualitative and quantitative data on the number of terminologies published as part of the Linked (Open) Data web, the number and quality of the connections made between terminologies and Content Providers metadata, as well as a set of recommendation on how to improve the semantic enrichment of metadata in the future. [month 28]

D4.8) Evaluation of the pilot sessions and second release of GLAM sector reference terminologies: This deliverable, coordinated by MCC and KMKG will: a) report on the pilot sessions for testing the TMP. It will present the organised pilot sessions meant to refine the functionalities and user friendliness of the semantic mapping tool for terminologies. A detailed overview of the questions asked to the system reviewers, their remarks and recommendations, and the eventual changes made to the TMP will be included in this report. b) include the second release of the PublicTerminology resource report (2nd release), presenting and updating the overview of the analysis of GLAM terminologies and a detailed overview of the terminologies gathered in the registry of terminologies. b) include the second release of the PublicTerminology resource report (2nd release), presenting and updating the overview of the analysis of GLAM terminologies and a detailed overview of the terminologies gathered in the registry of terminologies. [month 30]

Schedule of relevant Milestones

Milestone number ⁵⁹	Milestone name	Lead beneficiary number	Delivery date from Annex I ⁶⁰	Comments
MS8	First release terminology management platform (TMP)	3	9	First version of the Terminology Management Platform to be made available to the consortium as a web service
MS9	Second release of terminology management platform (TMP)	3	23	Final version of the Terminology Management Platform to be made available to the consortium as a web service
MS10	Semantic metadata enrichment process	3	28	Publication and linkage of metadata, terminology

WT3: Work package description

Schedule of relevant Milestones

Milestone number ⁵⁹	Milestone name	Lead beneficiary number	Delivery date from Annex I ⁶⁰	Comments
				resources, and the semantic connections

WT3: Work package description

Project Number ¹	325098	Project Acronym ²	AthenaPlus
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One form per Work Package

Work package number ⁵³	WP5
Work package title	Creative applications for the re-use of cultural resources
Start month	1
End month	30
Lead beneficiary number ⁵⁵	17

Objectives

The main goals of this WP, led by META with support of PACKED are to analyse, define, configure and develop the software components necessary to enrich metadata for a creative use of the content collected by the AthenaPlus project. In particular the specific objectives are the development of software systems for facilitating the generation of web and mobile applications developed to employ the AthenaPlus and Europeana content. It will be enriched for its use in different environments, to be selected by the project Partners and tested in WP6, e.g. virtual exhibition, tourism routes, educational packages, etc.

Description of work and role of partners

Task 5.1: Identification of creative applications of the AthenaPlus metadata
Task leader: ICCU and PACKED

This task will define the role and functions of the project stakeholders (end users, cultural tour operators, associations, etc.) in the overall system. Specifications, profiles, and methods for the semantic enrichment of the data will be defined with the help of these stakeholders.

User studies; including personas role-playing will be performed. Evoking personas draws on classical search behaviour and information architecture research where each persona represents a unique individual who seeks a certain outcome from the task at hand.

The scenarios that will be run may include:

- 1) John, a schoolteacher based in central Europe would like to create an historical route to demonstrate a specific lesson in the classroom. The class is learning about Rome in their history lesson based on the school curriculum and John has decided that by showing the trade routes and commodity exchanges across the Roman Empire (2-3rd centuries) he will be able to illustrate this more effectively. He will typically be able to connect examples of objects and works of art from Europeana from this period to illustrate the Roman Empire shipping routes, the commodities exchanged and will be able to exemplify and clarify their connections.
- 2) Caroline, a retired lady who recently visited a real exhibition, and who would like to improve her knowledge in a specific field by accessing a related virtual exhibition online. She typically would like to be able to share her museum visit with her friends and families and send 'her version' over social networks as a personalized expression of what she learned and enjoyed during the museum visit.
- 3) Sarah: a tourist guide prepares a location-based trail for an upcoming trip. Tour groups typically start their trip from the moment the tourist makes their booking and a professional tourist guide will be able to take advantage of this first connection to provide the information that will serve to enhance their upcoming journey. The tourist route can be easily assembled drawing on quality cultural heritage resources from Europeana.
- 4) Giuseppe: a musician with a particular interest in his favorite composer would like to share his interest online with his social circle. He will be able to discover and assemble his material from Europeana resources such as audio files, musical manuscripts, paintings and books about his chosen composer and be able to share his assemble with his friends.
- 5) Miguel: an amateur archaeologist who wants to demonstrate to himself and others his devotion to a specific moment in history illustrated by rich content discovered on Europeana. Through a federated Europeana search he will be able to discover, for example resources on a famous battle, but rather than relying only on the national narrative from his own country he will be able to discover similar resources from other perspectives and alternative histories concerning the specific moment in time from other countries.

WT3: Work package description

The ability to visualize a range of potential users as distinctive personas with specific goals, while running simulations at various stages of the applications as they evolve, means that applications can be tested to ascertain whether personas will be able meet their specific goals. Simulations will be run at different stages of the development process and the results reported.

The results of this studies will inform task 5.2.

Task 5.2: Design of technical specification for the development of creative applications

Task leader: PACKED and Dédale

This task will define requirements for the functionalities needed to support the re-use of Cultural Heritage Objects (CHO) and related information in storytelling for applications by a range of potential users, as: curators, tourism developers, and educators in addition to the conventional Europeana end-users. Great attention will be given to requirements aiming at maximizing results in the education field.

The task will move from semantic-anchored storytelling and narrative approaches, devices and tools developed in previous works[*]. It will identify the best approaches and tools to be assimilated into a Linked Data environment. The Linked Open Data environment enables distributed contributions by users that access CHO to be integrated and enrich the contextual information available for these objects. In addition the Storytelling/Narrative requirements will be developed, with the objective to provide easy and intuitive means to discover relevant information able to drive the user to create his or her own exhibition, or author their own micro-story or narration. The tools of the technology stack of the LOD2 [**] project will be analysed in to evaluate their suitability for integration in the required services to be developed by task T5.3 following these requirements. Within this task a survey on storytelling and locative media will be taken. Through several case studies (creative applications, mobile services...) we will observe how the project stakeholders (DCH operators, tourism actors, institutions, students, traditional users...) consider storytelling devices based on the reuse of cultural contents and the opportunities of mobile technologies.

The term education is used here to express both formal and informal learning. While formal learning opportunities are relatively easy to develop and evaluate, informal scenarios, by their very nature are less easy to define. In the museum tradition, visitors use collections and exhibitions for their own self-paced development which may take place during the actual visit, may be or called upon at a later date when the experience is digested and assimilated. These kinds of learning scenarios are difficult to acknowledge and therefore to report, but nevertheless, thousands of such visits take place every day of the week at museums around the world; opening up many different kinds of learning scenarios developed by museum educators and curators for the public. AthenaPlus aims to produce both formal, and informal learning scenarios through the applications and platforms developed through the project's lifespan where storytelling reflects the proof of the users own interpretation and consequential reuse of the content made available to them from Europeana.

* Review of Ontology Based Storytelling Devices:

http://www.judaica-europeana.eu/docs/Winer_Ontology_Storytelling_svt.pdf;

Weaving Science Webs, (Hazan, S.) in E-Learning and Virtual Science Centers, by LTW Hin - 2005

<http://www.igi-global.com/chapter/weaving-science-webs/9080>

** LOD2 Creating Knowledge out of Linked Data – Technology Stack

<http://lod2.eu/WikiArticle/TechnologyStack.html>;

Libraries and Museums in an Era of Participatory Culture, The Institute of Museum and Library Services, Washington, DC

www.imls.gov/assets/1/AssetManager/SGS_Report_2012.pdf

Task 5.3: Prototyping creative applications for cultural content

Task leader: META and PACKED

The aim of this task is to realise a system that incorporates AthenaPlus generated and Europeana data to create virtual exhibitions and cultural tourist routes. Cultural curators and researchers, cultural mediators and tour operators will be involved to reach this goal.

Existing EDM formatted data will be filtered and transformed, possibly using the tools developed by WP3 and WP4, in a format compatible with Linked Open Data specifications, for an easier use of the information and their interoperability with different applications. Browsing content will be more effective using the semantic links available in the data. These links will allow for a more straightforward and intuitive connections among topics, in way to make the manual labour for the editors less challenging.

In this task some Semantic Multimedia Content Management Systems (SMCM) will be realized allowing the integration and delivery of contents in three selected application contexts: exhibitions, tourist routes and

educational context. In this way we will be confident that we have identified the best use of existing information and relationships and to enrich them with additional textual and multimedia contents, possibly geo-located. The generated information will be provided on mobile devices in an optimized way using state of the art technological formats and fruition metaphors. Some open source tools could be used, integrated or extended for the development of the applications. In that case, the application licenses will be the same of the original tools.

The activities are divided into three sub-tasks:

5.3a Acquisition and management of information by Europeana and AthenaPlus and their semantic enrichment

This sub-task aims to create a tool for importing data and inserting them in the system for the generation of the contents. Moreover, information will be, if needed, transformed in RDF format and inserted into a triple store allowing their fruition via a SPARQL end point. The available data will be remapped using the existing ontologies, such as CIDOC-CRM, or integrated with external resources such as Freebase or DBpedia.

5.3b Development of the SMCM for realizing virtual exhibitions

The SMCM will allow the use of the available RDF formatted information for preparing virtual exhibitions or creating virtual versions of real exhibitions. The main features of this module are: the use of native data in RDF format through the integration of a SPARQL endpoint; the possibility to add cards and to enrich them with additional metadata compliant with the Linked Open Data models; enrichment of the existing cards with textual and multimedia contents. But the peculiarity of the system will be that of a vertical Semantic Content Management system specialized in the management of exhibitions. In this way it will contain metaphors, tools, templates, repositories, etc., all designed and developed for a better support to specific needs. The system will give the opportunity to prepare semantic queries using special relations, will integrate tools for the management of routes tailored to the user needs, will allow the creation of custom paths, will support the creation of ad hoc description cards, will support reservation systems and, in the case of real exhibitions, will provide support functions for the preparation, the enjoyment and the sharing of the virtual exhibition.

During the development of the tool, guidelines included in the case study on virtual exhibitions [***], elaborated by the INDICATE project, will be taken into consideration.

The possibility of reusing some technology realised in the opensource project MOVIO will be analysed.

*** INDICATE. D5.2, Case Study, Virtual Exhibitions, <http://www.indicate-project.org/getFile.php?id=359>

5.3c Development of the SMCM for realizing cultural tourist routes

The third sub-task has some points in common with the second one: the basic infrastructure will be the same, but the tools to be developed, the formats to be defined and the browsing metaphors will be completely different. The geo-referencing and geo-localization sub-systems will be prioritised, as well as the mobile solution of the application. The browsing metaphors, the graphic templates, the specific tools for the management of visits, the maps management subsystem will be defined in this sub-task. Moreover, the SMCM will provide the integration of an editorial workflow that will involve different roles: 1) cultural operators involved in preparing information cards; 2) tour operators involved in using paths and routes to enrich their portals; 3) cultural mediators (associations, local authorities, schools) involved in integrating data provided by the system with information related to the area.

Task 5.4: Training Partners and content providers

Task leader: PACKED

This task focuses on training Partners, Content Providers and other users to take up the AthenaPlus infrastructure and tools for developing the pilot actions (in WP6). Training will take place through blended e-learning systems such as webinar, screen cast, etc. as well as through traditional training courses. Specific training actions will be targeted to project Partners, intermediaries and general users, in order to increase their involvement.

Manuals for the use of the different AthenaPlus applications will be developed. The manuals will be produced in written form but will also be available as online training materials (e.g. screen cast). All training materials will be made available through a dedicated section on the general project website.

In order to familiarise the Partners with the AthenaPlus environment, the project Partners will be trained on its use and possibilities through a train-the-trainer concept. This training will be organised in the framework of plenary project meetings.

To reach as many users as possible, the AthenaPlus national contact points will be invited host a national training workshop in each partner country, to be run by PACKED. During these national workshops, also targeted stakeholders from outside the network will be invited to reach a maximum of interested users for the cloud environment.

WT3: Work package description

Person-Months per Participant

Participant number ¹⁰	Participant short name ¹¹	Person-months per participant
1	ICCU	23.00
2	UMA	1.00
3	KMKG	1.00
4	PACKED	16.00
5	OKV	1.00
7	Cyl	2.00
8	NM	1.00
9	EVKM	1.00
10	MCC	1.00
11	SPK	1.00
12	UNIMAR	1.00
13	NTUA	2.00
14	HMCT	2.00
15	PIM	1.00
16	BNCRM	1.00
17	META	25.00
18	NMI	1.00
19	LAM	1.00
20	Icimss	1.00
21	IPCHS	2.00
22	GenCat	1.00
23	i2CAT	5.00
24	CT	1.00
25	RA	1.00
26	SAM	1.00
27	MUO	2.00
28	SGDAP	1.00
29	UP	1.00
30	KIS	1.00
31	EAJC	1.00
32	UniSav	1.00
33	BAR	2.00
34	Dedale	9.00
35	UPMF	1.00

WT3: Work package description

Person-Months per Participant

Participant number ¹⁰	Participant short name ¹¹	Person-months per participant
36	CL-BAS	1.00
37	INP	2.00
38	KIK-irpa	1.00
39	ILS	1.00
40	LGMA	1.00
Total		119.00

List of deliverables

Deliverable Number ⁶¹	Deliverable Title	Lead beneficiary number	Estimated indicative person-months	Nature ⁶²	Dissemination level ⁶³	Delivery date ⁶⁴
D5.1	Report on the user needs and requirements	1	4.00	R	PU	4
D5.2	Report on existing tools and devices related to narrative approaches and requirement functionalities	4	4.00	R	PU	6
D5.3	First release of the AthenaPlus tools	17	48.00	D	PU	12
D5.4	Training materials for supporting the use of the AthenaPlus tools	4	23.00	R	PU	14
D5.5	Revision of the AthenaPlus tools	17	40.00	D	PU	30
Total			119.00			

Description of deliverables

D5.1) Report on the user needs and requirements: This deliverable, coordinated by ICCU and PACKED, is expected to define the role and functions of the project stakeholders (end users, cultural tour operators, associations, etc.) in the overall system. Specifications, profiles and methods for the semantic enrichment of the data will be defined with these stakeholders in mind. [month 4]

D5.2) Report on existing tools and devices related to narrative approaches and requirement functionalities: This deliverable, coordinated by PACKED and Dédale, is composed of two parts: 1) the first will illustrate the survey of existing tools and devices related to anchored storytelling and narrative approaches; identify the best approaches and tools that may be assimilated into a Linked Data environment; estimate their suitability for integration in the required services to be developed by task T5.3 and T6.2.; 2) the second will illustrate and motivate all requirements for the functionalities needed to support the use of Cultural Heritage Objects (CHO) and related information in storytelling for applications by several users. It will be the base for the development of task T5.3. [month 6]

D5.3) First release of the AthenaPlus tools: This deliverable, coordinated by META and PACKED, will realize a first version of the AthenaPlus tools. Virtual exhibitions, cultural tourist routes applications and an educational toolbox will be fully developed in way to submit them to test users. The user feedback and the complete availability of semantic resources will lead to the final release. [month 12]

D5.4) Training materials for supporting the use of the AthenaPlus tools: This deliverable, coordinated by PACKED, will contain the development of actual training materials as well as the execution of the real-life training sessions on the use of the tools developed in D5.3. Manuals and other instructional material will be made in written and online form (e.g. screencast). Trainings will be organised on the basis of a train-the-trainer

WT3: Work package description

concept, with additional sessions to be organised in particular partner countries (depending on needs for carrying out the pilot actions in WP6). [month 14]

D5.5) Revision of the AthenaPlus tools: This deliverable, coordinated by META and PACKED, will realize the final version of the AthenaPlus tools. The user suggestions, coming from the previous tests, and the availability of more semantic resources, coming from the Partners' works in other WPs, will permit a revision of the previously implemented tools. Virtual exhibitions, cultural tourist routes applications and an educational toolbox will be complemented and integrated in a way to obtain the most effective results for use by the AthenaPlus consortium and outside stakeholders. [month 30]

Schedule of relevant Milestones

Milestone number ⁵⁹	Milestone name	Lead beneficiary number	Delivery date from Annex I ⁶⁰	Comments
MS11	First release of the AthenaPlus tools	17	12	First version of the AthenaPlus tools for virtual exhibitions, cultural tourist routes applications and the educational toolbox
MS12	Preparation of training materials for supporting the use of the ATHENA plus tools	4	14	Training materials which will be used by cultural institutions starting pilot actions
MS13	Revision of the AthenaPlus tools	17	30	Final version of the AthenaPlus tools

WT3: Work package description

Project Number ¹	325098	Project Acronym ²	AthenaPlus
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One form per Work Package

Work package number ⁵³	WP6
Work package title	Pilots for testing the creative use of cultural contents
Start month	13
End month	30
Lead beneficiary number ⁵⁵	23

Objectives

WP6 is led by i2Cat supported by ICIMSS, Its aim is to evaluate and test the tools and solutions designed and developed by WP5, as well as evaluate and test existing shareware and freeware tools, already present on the web or previously developed by the project Partners in a different environment, for checking their integration with the Europeana service.

The definition of a shared methodology to evaluate and test the pilots will be the first step, with the objective to develop a common method to evaluate the performance of each pilot action.

The goals of the WP are to:

- define an evaluation methodology for the pilot services;
- run parallel pilots to demonstrate the benefit of proposed solutions;
- collect input from the Partners testing the pilots and prepare a manual of good practices / handbook to support other users interested in implementing the pilots;
- create a model of virtual laboratory, able to manage and support a community of users for testing the pilots;
- animate a community of users in the partner countries, to stimulate further cooperation at local/regional/national level, as well as to facilitate transnational collaboration on cultural themes of common interest;
- perform some assessment stages and technical tests to provide the relevant feedback for the technical team working in WP5.

Description of work and role of partners

Task 6.1: Evaluation methodology for the pilot services

Task leader: ICIMSS

This task prepares the evaluation framework for the evaluation of the pilots, to prepare the common instruments able to collect the necessary information.

Task 6.2: Running the pilots: Digital storytelling

Task leader: Dédale

This pilot will propose an original device for the valorisation of cultural contents based on new cartography forms (sensitive and collaborative) and mobile technologies (augmented reality, cultural routes with geo-located contents, principle of serendipity, QR codes). The pilot will take into account all the requirements of Europeana environment. The application will be based on the reuse of Europeana contents in order to create new uses of cultural resources (mash up, user involvement, etc). The pilot will be designed according to a realistic and operational scenario, with users group (feedback and remarks) and data corpus in relation with specific geographic areas (specific area around a cultural institution). Territorial anchorage is a key element for ensuring the best results, adapted to users' needs.

A multidisciplinary team involving online and offline users will be gathered to design the pilot in relation to a specific local context. Designers will work on a range of geographical-embedded case studies. This site-specific approach will be set up by a Partnership with a cultural and educative European institution (e.g. the Cité internationale universitaire de Paris).

Task 6.3: Running other pilots

Task leader: ICIMSS

A number of mobile or on-line services pilots projects have been already defined:

- virtual exhibitions (BNCRM, ICIMSS, ILS, LAM, PIM, RA)

WT3: Work package description

- application for tourist routes (HMTC, ICCU)
- GIS applications (IPCHS)
- education (ICIMSS)

Ten Partners will participate in the realisation of pilots. Thus number could increase thanks to Task 5.4. In fact, following dedicated training workshop, other Partners or cultural institutions could decide to make their own pilots.

The content of the pilots will be selected by the single institution, in order to give the greater visibility, to the institution itself, to the AthenaPlus network and to Europeana. Where possible, key them that interests Europeana will be privileged, like history and culture on the XXth century.

Some Partners have already selected the topic:

- ILS: Luigi Sturzo Institute holds archives and library sources about the second half of XX century, in particular documents from christian democrat-inspired political groups and personalities. The Institute heritage is therefore a precious base for the research about Italian, European and international politics, from post-world war II until today. The Institute aims at realizing a specific virtual exhibition about the documentation held in its archives and referring to the Cold War period, following these thematics: politic posters, archives of party and personalities, photographic and video archives.
- BNCRM: "A Powder Magazine of Fantasy": Bibliographic and iconographic route dedicated to the first Futurist Manifesto, highlighting the most famous books, posters and magazines from his collection and, in particular the extraordinary collection kept in the twentieth century Falqui Fund.

Task 6.4: Manual of good practices / implementing the pilots

Task leader: ICIMSS

The pilot production, and results developed in the previous Task will be documented to produce a manual that sets out best practice in order to support new users and further future implementation.

Task 6.5: Creation and animation of communities of users

Task leader: I2Cat

Partners and other external users will work together to test the tools produced through AthenaPlus. The target groups which will be involved include for example:

- school children and teachers;
- scholars (cultural studies, journalism studies and fine arts, including museology students);
- groups of retired people from the so called Third Age Universities;
- cultural professionals: librarians, museum staff, archivists;
- university teachers;
- tourism operators
- etc.

This task will be organised in cooperation with WP7 in order to coordinate and increase the impact of the activities with the project target groups. The local and national activities organised by the partners (task 7.3) will be a great opportunity to involve users and test the tools developed by WP5. These events are the main framework for the interaction between the users and the tools made available through AthenaPlus.

Task 6.6: Overall assessment of the pilot actions

Task leader: I2Cat

The final task of WP6 will focus on collecting and documenting feedback, which will inform the technical developments and revisions of the solutions developed by WP6. The interim assessment of the pilot actions will act as an indication for adjusting the tools in response to the real working and operational progressions of the target groups.

Person-Months per Participant

Participant number ¹⁰	Participant short name ¹¹	Person-months per participant
1	ICCU	19.00
4	PACKED	3.00
5	OKV	1.00
6	Michael	1.00

WT3: Work package description

Person-Months per Participant

Participant number ¹⁰	Participant short name ¹¹	Person-months per participant
10	MCC	1.00
11	SPK	1.00
12	UNIMAR	1.00
13	NTUA	1.00
14	HMCT	6.00
15	PIM	8.00
16	BNCRM	10.00
17	META	2.00
19	LAM	10.00
20	Icimss	11.00
21	IPCHS	7.00
23	i2CAT	22.00
25	RA	5.00
34	Dedale	8.00
39	ILS	14.00
Total		131.00

List of deliverables

Deliverable Number ⁶¹	Deliverable Title	Lead beneficiary number	Estimated indicative person-months	Nature ⁶²	Dissemination level ⁶³	Delivery date ⁶⁴
D6.1	Evaluation framework for the pilots	20	33.00	R	PU	15
D6.2	Report describing the pilot on storytelling	34	20.00	R	PU	27
D6.3	Report with the assessment of the pilot actions	23	20.00	R	PU	27
D6.4	Manual of good practices, how to implement the pilots	20	30.00	R	PU	30
D6.5	Report describing the communities of users	23	28.00	R	PU	30
Total			131.00			

Description of deliverables

D6.1) Evaluation framework for the pilots: This deliverable, coordinated by ICIMSS will provide a set of criteria upon which pilots will be evaluated in three phases: pilot monitoring, process evaluation, and impact evaluation. [month 15]

WT3: Work package description

D6.2) Report describing the pilot on storytelling: This deliverable, coordinated by Dédale, will document the structure of the platform, describe its practical applications, the involvement of the user groups, possible further exploitations. [month 27]

D6.3) Report with the assessment of the pilot actions: The deliverable, coordinated by i2cat, offers a global evaluation of the pilot actions and results in order to validate the solutions designed and developed by WP5 and to provide technical feedback for tool developers. [month 27]

D6.4) Manual of good practices, how to implement the pilots: This deliverable, coordinated by ICIMSS, will outline benefits of running the pilots and present the methodology and a summative report on the pilots. The manual will be published in order to support the memory institutions interested in offering new innovative services to their own users, and in attracting new end-users. [month 30]

D6.5) Report describing the communities of users: The deliverable, coordinated by i2cat, describes the communities of users involved on the pilots. The deliverable includes the most important requirements identified by the target groups and gathers the analysis extracted from the interaction between the users and tools made available through AthenaPlus. [month 30]

Schedule of relevant Milestones

Milestone number ⁵⁹	Milestone name	Lead beneficiary number	Delivery date from Annex I ⁶⁰	Comments
MS14	Assessment of the pilot actions	23	27	Global evaluation of the pilot actions and results for the validation of the solutions designed and developed by WP5

WT3: Work package description

Project Number ¹	325098	Project Acronym ²	AthenaPlus
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One form per Work Package

Work package number ⁵³	WP7
Work package title	Awareness and dissemination
Start month	1
End month	30
Lead beneficiary number ⁵⁵	11

Objectives

WP7 is led by SPK and MICHAEL. Its objectives are to make European museums and other cultural institutions aware of the benefits of making available their digital contents through Europeana, identify new best practices, and disseminate the results achieved to a broad audience.

Through its dissemination activities, AthenaPlus will:

- Raise awareness: letting others know about and learn from the AthenaPlus experience
- Inform: educating the community
- Engage: receiving input/feedback back from the community
- Promote: 'selling' the project's outcomes and expected results

In particular, WP7 objectives are to:

- stimulate the contribution of content to Europeana by raising awareness of the tools, facilities and best practice provided by AthenaPlus, encouraging the use of richer metadata sets;
- increase the size of the best practice network by attracting new cultural institutions;
- raise awareness across the Europeana ecosystem of the AthenaPlus work, and to encourage Europeana itself, content provider and aggregators to take full advantage of the project's results;
- build technical capacity in the cultural heritage sector, especially in terms of Europeana and AthenaPlus technologies

The target audiences for AthenaPlus are quite specific. The main targets are Europeana, the content-contributing community, the aggregators, policy groups, agencies for culture and governments, sister projects, the digital cultural heritage research community, the national research and competence centres in the areas of cultural heritage and e-infrastructures, the tourism sector, the Europeana Foundation, Europeana Network and Europeana Labs. The general public is an additional but secondary target audience.

The dissemination target audiences, communications channels, events and strategies are described in more detail in Section 2.2 of the present Description of Work.

Description of work and role of partners

Task 7.1: Central dissemination

Task Leader: SPK

This task foresees:

- the creation of the identity logo and corporate message with guidelines for use by all Partners;
- the development of the project website, in order to collate all information on the project. The website will be continuously maintained and updated during the lifetime of the project with input from all Partners of the project. Features will include wikis, shared work spaces, and a reserved area for the consortium Partners. The website will be hosted and maintained by ICCU which guarantees its sustainability after the end of the project. The website will include multilingual content and pages.
- a less formal 'social' presence assures interaction with social networking sites (YouTube, Vimeo, LinkedIn etc.). This will create a more dynamic and 'living' web presence
- the production of promotional material to be distributed online and at conferences and events: factsheets, leaflets, posters, gadgets etc.

Task 7.2: Dissemination planning and coordination

Task Leader: SPK

WT3: Work package description

This task foresees the elaboration of a shared plan for a decentralised, but coordinated, dissemination of all activities and outputs of the project.

It will include guidelines for dissemination to be used by Partners.

Task 7.3: Local / national activities

Task Leader: SPK

In all the Partners countries at least two AthenaPlus thematic events will be held during the project. Their main goal will be to present the project results, expand the networks and stakeholders and recruit new Content Providers.

Among them, three international conferences will be organised, taking the opportunity to present the project during the events organised by the Presidency of the European Union, as well as a closing conference in Rome that will serve as an opportunity to present and discuss the project's results, the opportunities for further development and the path of further integration into Europeana.

Significant effort will be required to ensure that there will be a consistent level of dissemination in the Partners' own languages, not just in English. Partners will be asked to report on progress to ensure this information is disseminated via the central website.

The coordinator and work package leaders have taken on additional commitments in this work package, including taking part in Europeana and Commission efforts and networking events.

In particular:

- The Michael Culture Partner will organise a Workshop on DCH Storytelling and Geo-tagging. This workshop will explore the opportunities of digital storytelling and geo-tagging for the valorisation of DCH contents (such as Europeana) in the European cultural venues or in urban spaces. It will focus on concrete applications for education and tourism: mobile services for museum, enriched exhibitions, innovative tour of cultural heritage (castles, urban strolls, architecture, gardens, parks, city as a museum, city as a new learning environment...) and serious games. Designers, developers, creative people, researchers, teachers, tourism experts, cultural institutions, DCH experts, industrials and users will be gathered to lead an innovative reflection on creative use of digital contents. A transversal thinking will be conducted on IPR, new legal forms, and the stakes related to right management in the context of data reuse and innovative digital projects (technology mash-up, composite services, collaborative work).

Partner Michael will use the Michael Culture Association platform as an additional channel to disseminate the AthenaPlus outputs and capitalise the project results and services also after the end of the project.

- The ICIMSS Partner will produce two issues of the professional journal Uncommon Culture <http://www.uncommonculture.org>, directed by ICIMSS and born in the framework of the first ATHENA project. These issues will be dedicated to the best practices and the tools of AthenaPlus.

- The SPK Partner will take care of the production of 2 publications in cooperation with WP1, in order to disseminate the outcomes achieved by the different WPs to a wider public. This publication will continue the series of booklets produced during the ATHENA and Linked Heritage projects on LIDO, standards, GIS, PIDS and terminology (<http://www.athenaeurope.org/>, <http://linkedheritage.org>) which were downloaded about 14.000 times.

Task 7.4: Networking in the Europeana Framework

Task Leader: SPK

This task will guarantee that the entire AthenaPlus project, and especially the work package leaders, will take an active role in the concerted activities that takes place between the Europeana Group of projects, and with the projects that maintain and develop Europeana. They will, in conjunction with WP1, coordinate the attendance to appropriate events and workshops organised by the Europeana Office, including those associated with the Council of Content Providers and Aggregators, recently called Europeana Network.

All networking activities will be reported through the project website.

Tasks 7.5: Monitoring and Evaluating the dissemination activities

Task Leader: ICCU

All Partners will deliver internal reports every 4 months to the coordinator on their progress in dissemination, on any changes to their plans, and any difficulties that have arisen. Any major difficulties will be flagged and solutions will be found either directly or via the Project Management Board. These internal reports are not formal project deliverables instead their contents are used to inform and enrich the contractual deliverables.

WT3: Work package description

Person-Months per Participant

Participant number ¹⁰	Participant short name ¹¹	Person-months per participant
1	ICCU	28.00
2	UMA	1.00
3	KMKG	3.00
4	PACKED	2.00
5	OKV	1.00
6	Michael	9.00
7	Cyl	4.00
8	NM	5.00
9	EVKM	4.00
10	MCC	1.00
11	SPK	9.00
12	UNIMAR	1.00
13	NTUA	1.00
14	HMCT	4.00
15	PIM	4.00
16	BNCRM	4.00
17	META	1.00
18	NMI	2.00
19	LAM	4.00
20	Icimss	5.00
21	IPCHS	3.00
22	GenCat	4.00
23	i2CAT	2.00
24	CT	4.00
25	RA	3.00
26	SAM	5.00
27	MUO	4.00
28	SGDAP	5.00
29	UP	3.00
30	KIS	5.00
31	EAJC	3.00
32	UniSav	1.00
33	BAR	4.00
34	Dedale	2.00

WT3: Work package description

Person-Months per Participant

Participant number ¹⁰	Participant short name ¹¹	Person-months per participant
35	UPMF	2.00
36	CL-BAS	3.00
37	INP	5.00
38	KIK-irpa	4.00
39	ILS	3.00
40	LGMA	4.00
Total		162.00

List of deliverables

Deliverable Number ⁶¹	Deliverable Title	Lead beneficiary number	Estimated indicative person-months	Nature ⁶²	Dissemination level ⁶³	Delivery date ⁶⁴
D7.1	Logo, corporate message, project website, shared dissemination plan, guidelines for Partners	11	3.00	R	PU	3
D7.2	Analysis, scenarios use cases, opportunities of innovative services for DCH, and future development	6	8.00	R	PU	11
D7.3	First report on dissemination activities and networking in the European framework	1	25.00	R	PU	11
D7.4	First Issue of the Uncommon Culture Journal	20	15.00	R	PU	20
D7.5	Second report on dissemination activities and networking in the European framework	11	35.00	R	PU	24
D7.6	AthenaPlus publications	11	30.00	R	PU	27
D7.7	Final report on dissemination and networking activities	1	31.00	R	PU	30
D7.8	Second Issue of the Uncommon Culture Journal	20	15.00	R	PU	30
Total			162.00			

Description of deliverables

D7.1) Logo, corporate message, project website, shared dissemination plan, guidelines for Partners: This deliverable will include: 1) an easy-to-use internal guide and handbook for the best practice network. It will describe the choice of the logo and the corporate message, the first materials available, as well as guidelines on how, where and when to distribute them, and last but not least on how to report on the dissemination activities carried out by Partners (edited by SPK). 2) Creation of the project website. Overview of the dissemination strategy, activities, and materials the project intends to use over the lifetime of the project with the goal of distributing the project's results as widely as possible. Identification of the different messages to be addressed

WT3: Work package description

to each target groups; the methods employed, and the expected outcome of those activities (edited by SPK in cooperation with ICCU). [month 3]

D7.2) Analysis, scenarios use cases, opportunities of innovative services for DCH, and future development: Deliverable edited on the base of the results and feedback collected during and after the Workshop on DCH Storytelling and Geotagging. Issued by Michael Culture. [month 11]

D7.3) First report on dissemination activities and networking in the European framework: The report will include: 1) all the activities that takes place during the 1st year of the project: presentations, workshops, cooperation, publications, articles, etc.(edited by ICCU). 2) It will describe networking activities with new institutions, stakeholders, decision makers, sister projects, Europeana Foundation, during the first half of the project (edited by SPK). [month 11]

D7.4) First Issue of the Uncommon Culture Journal: This deliverable coordinated by ICIMSS will present a publication: a set of main articles, interviews, and reports contributed by the project Partners and invited authors. The issue of the journal initiated under the Athena project will be based on content available in Europeana or planned to be delivered to Europeana [month 20]

D7.5) Second report on dissemination activities and networking in the European framework: The report will include: 1) all the activities that takes place during the 1st year of the project: presentations, workshops, cooperation, publications, articles, etc. (edited by ICCU) 2) It will describe networking activities with new institutions, stakeholders, decision makers, sister projects, Europeana Foundation, during the first half of the project (edited by SPK). [month 24]

D7.6) AthenaPlus publications: The deliverable, coordinated by SPK, will be composed of the two booklets produced by WP7 in cooperation with WP1, in order to disseminate the outcomes achieved by the different WPs to a wider public. These publications will extend the series of publications produced during the ATHENA and Linked Heritage projects. [month 27]

D7.7) Final report on dissemination and networking activities: The report will include all the activity that takes place during the last seven month of the project: presentations, workshops, cooperation, publications, articles, etc. It will also include general overview on all the dissemination and networking activities of the project. Issued by ICCU. [month 30]

D7.8) Second Issue of the Uncommon Culture Journal: This deliverable coordinated by ICIMSS will present a publication: a set of main articles, interviews, and reports contributed by the project Partners and invited authors. This issue will present best practices of AthenaPlus under the title "Access to Cultural Resources with ICT". [month 30]

Schedule of relevant Milestones

Milestone number ⁵⁹	Milestone name	Lead beneficiary number	Delivery date from Annex I ⁶⁰	Comments
MS15	Creation of identity logo, corporate message and guidelines for partners	11	2	Starting of the dissemination activities: website, promotional material, etc.
MS16	First issue of the Uncommon Culture Journal	11	20	First issue of the Uncommon Culture journal – initiated under the Athena project – within AthenaPlus
MS17	AthenaPlus publications	11	27	Publications of two AthenaPlus dissemination booklets

WT3: Work package description

Schedule of relevant Milestones

Milestone number ⁵⁹	Milestone name	Lead beneficiary number	Delivery date from Annex I ⁶⁰	Comments
MS18	Second issue of the Uncommon Culture Journal	11	30	Second issue of the Uncommon Culture journal – initiated under the Athena project – within AthenaPlus

WT4: List of Milestones

Project Number ¹	325098	Project Acronym ²	AthenaPlus
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List and Schedule of Milestones

Milestone number ⁵⁹	Milestone name	WP number ⁵³	Lead beneficiary number	Delivery date from Annex I ⁶⁰	Comments
MS1	First project review	WP1	1	12	First review called by EC
MS2	Second project review	WP1	1	24	Second review called by EC
MS3	Final project review	WP1	1	30	Final review called by EC
MS4	10-20% content uploaded in MINT	WP2	1	11	10-20% of the whole content is uploaded in MINT and ready to be harvested by Europeana
MS5	60-70% content uploaded in MINT	WP2	1	23	60-70% of the whole content is uploaded in MINT and ready to be harvested by Europeana
MS6	100% content uploaded in MINT	WP2	1	30	100% of the whole content is uploaded in MINT and ready to be harvested by Europeana
MS7	MINT/AthenaPlus ready for delivering content to Europeana	WP3	13	6	Starting point of the aggregation of content
MS8	First release terminology management platform (TMP)	WP4	3	9	First version of the Terminology Management Platform to be made available to the consortium as a web service
MS9	Second release of terminology management platform (TMP)	WP4	3	23	Final version of the Terminology Management Platform to be made available to the consortium as a web service
MS10	Semantic metadata enrichment process	WP4	3	28	Publication and linkage of metadata, terminology resources, and the semantic connections
MS11	First release of the AthenaPlus tools	WP5	17	12	First version of the AthenaPlus tools for virtual exhibitions, cultural tourist routes applications and the educational toolbox
MS12	Preparation of training materials for supporting the use of the ATHENA plus tools	WP5	4	14	Training materials which will be used by cultural institutions starting pilot actions

WT4: List of Milestones

Milestone number ⁵⁹	Milestone name	WP number ⁵³	Lead beneficiary number	Delivery date from Annex I ⁶⁰	Comments
MS13	Revision of the AthenaPlus tools	WP5	17	30	Final version of the AthenaPlus tools
MS14	Assessment of the pilot actions	WP6	23	27	Global evaluation of the pilot actions and results for the validation of the solutions designed and developed by WP5
MS15	Creation of identity logo, corporate message and guidelines for partners	WP7	11	2	Starting of the dissemination activities: website, promotional material, etc.
MS16	First issue of the Uncommon Culture Journal	WP7	11	20	First issue of the Uncommon Culture journal – initiated under the Athena project – within AthenaPlus
MS17	AthenaPlus publications	WP7	11	27	Publications of two AthenaPlus dissemination booklets
MS18	Second issue of the Uncommon Culture Journal	WP7	11	30	Second issue of the Uncommon Culture journal – initiated under the Athena project – within AthenaPlus

WT5:

Tentative schedule of Project Reviews

Project Number ¹	325098	Project Acronym ²	AthenaPlus
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Tentative schedule of Project Reviews

Review number ⁶⁵	Tentative timing	Planned venue of review	Comments, if any
RV 1	12	Rome	After 11 months, three major steps should have been achieved: the ingestion tool is ready for validation; the dissemination campaign has started; the first lot of new content should have been delivered to Europeana.
RV 2	24	Rome	After 23 months, several major steps should have been achieved: the dissemination campaign has increased; the second lot of new content should have been delivered to Europeana; the TMP should be operative and the first version of the AthenaPlus tools should be ready; training materials for supporting the use of AthenaPlus tools should be ready.
RV 3	30	Rome	This is the final review of the project

Project Effort by Beneficiary and Work Package

Project Number ¹	325098	Project Acronym ²	AthenaPlus
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Indicative efforts (man-months) per Beneficiary per Work Package

Beneficiary number and short-name	WP 1	WP 2	WP 3	WP 4	WP 5	WP 6	WP 7	Total per Beneficiary
1 - ICCU	35.00	50.00	21.00	12.00	23.00	19.00	28.00	188.00
2 - UMA	1.00	3.00	1.00	1.00	1.00	0.00	1.00	8.00
3 - KMKG	2.00	0.00	0.00	13.00	1.00	0.00	3.00	19.00
4 - PACKED	2.00	0.00	0.00	1.00	16.00	3.00	2.00	24.00
5 - OKV	1.00	4.00	1.00	1.00	1.00	1.00	1.00	10.00
6 - Michael	2.00	0.00	0.00	1.00	0.00	1.00	9.00	13.00
7 - Cyl	1.00	13.00	2.00	2.00	2.00	0.00	4.00	24.00
8 - NM	1.00	8.00	1.00	1.00	1.00	0.00	5.00	17.00
9 - EVKM	1.00	8.00	1.00	1.00	1.00	0.00	4.00	16.00
10 - MCC	1.00	0.00	0.00	7.00	1.00	1.00	1.00	11.00
11 - SPK	2.00	3.00	1.00	3.00	1.00	1.00	9.00	20.00
12 - UNIMAR	2.00	4.00	12.00	3.00	1.00	1.00	1.00	24.00
13 - NTUA	2.00	2.00	38.00	5.00	2.00	1.00	1.00	51.00
14 - HMCT	1.00	10.00	1.00	2.00	2.00	6.00	4.00	26.00
15 - PIM	1.00	8.00	1.00	2.00	1.00	8.00	4.00	25.00
16 - BNCRM	1.00	17.00	1.00	2.00	1.00	10.00	4.00	36.00
17 - META	2.00	0.00	2.00	1.00	25.00	2.00	1.00	33.00
18 - NMI	1.00	5.00	1.00	2.00	1.00	0.00	2.00	12.00
19 - LAM	1.00	6.00	1.00	2.00	1.00	10.00	4.00	25.00
20 - Icimss	2.00	3.00	1.00	2.00	1.00	11.00	5.00	25.00
21 - IPCHS	1.00	4.00	1.00	1.00	2.00	7.00	3.00	19.00
22 - GenCat	1.00	12.00	1.00	2.00	1.00	0.00	4.00	21.00

WT6:

Project Effort by Beneficiary and Work Package

Beneficiary number and short-name	WP 1	WP 2	WP 3	WP 4	WP 5	WP 6	WP 7	Total per Beneficiary
23 - i2CAT	2.00	0.00	0.00	1.00	5.00	22.00	2.00	32.00
24 - CT	2.00	25.00	2.00	2.00	1.00	0.00	4.00	36.00
25 - RA	1.00	13.00	1.00	4.00	1.00	5.00	3.00	28.00
26 - SAM	1.00	7.00	0.00	1.00	1.00	0.00	5.00	15.00
27 - MUO	1.00	9.00	1.00	2.00	2.00	0.00	4.00	19.00
28 - SGDAP	1.00	47.00	2.00	2.00	1.00	0.00	5.00	58.00
29 - UP	7.00	17.00	1.00	1.00	1.00	0.00	3.00	30.00
30 - KIS	1.00	6.00	0.00	1.00	1.00	0.00	5.00	14.00
31 - EAJC	1.00	7.00	1.00	1.00	1.00	0.00	3.00	14.00
32 - UniSav	1.00	0.00	0.00	12.00	1.00	0.00	1.00	15.00
33 - BAR	1.00	13.00	2.00	2.00	2.00	0.00	4.00	24.00
34 - Dedale	1.00	0.00	0.00	2.00	9.00	8.00	2.00	22.00
35 - UPMF	1.00	4.00	1.00	0.00	1.00	0.00	2.00	9.00
36 - CL-BAS	1.00	13.00	1.00	1.00	1.00	0.00	3.00	20.00
37 - INP	1.00	25.00	1.00	4.00	2.00	0.00	5.00	38.00
38 - KIK-irpa	1.00	12.00	1.00	1.00	1.00	0.00	4.00	20.00
39 - ILS	1.00	27.00	2.00	2.00	1.00	14.00	3.00	50.00
40 - LGMA	1.00	9.00	1.00	2.00	1.00	0.00	4.00	18.00
Total	90.00	394.00	105.00	108.00	119.00	131.00	162.00	1,109.00

1. Project number

The project number has been assigned by the Commission as the unique identifier for your project. It cannot be changed. The project number **should appear on each page of the grant agreement preparation documents (part A and part B)** to prevent errors during its handling.

2. Project acronym

Use the project acronym as given in the submitted proposal. It cannot be changed unless agreed so during the negotiations. The same acronym **should appear on each page of the grant agreement preparation documents (part A and part B)** to prevent errors during its handling.

53. Work Package number

Work package number: WP1, WP2, WP3, ..., WPn

55. Lead beneficiary number

Number of the beneficiary leading the work in this work package.

56. Person-months per work package

The total number of person-months allocated to each work package.

57. Start month

Relative start date for the work in the specific work packages, month 1 marking the start date of the project, and all other start dates being relative to this start date.

58. End month

Relative end date, month 1 marking the start date of the project, and all end dates being relative to this start date.

59. Milestone number

Milestone number: MS1, MS2, ..., MSn

60. Delivery date for Milestone

Month in which the milestone will be achieved. Month 1 marking the start date of the project, and all delivery dates being relative to this start date.

61. Deliverable number

Deliverable numbers in order of delivery dates: D1 – Dn

62. Nature

Please indicate the nature of the deliverable using one of the following codes

R = Report, **P** = Prototype, **D** = Demonstrator, **O** = Other

63. Dissemination level

Please indicate the dissemination level using one of the following codes:

- **PU** = Public
- **PP** = Restricted to other programme participants (including the Commission Services)
- **RE** = Restricted to a group specified by the consortium (including the Commission Services)
- **CO** = Confidential, only for members of the consortium (including the Commission Services)
- **Restreint UE** = Classified with the classification level "Restreint UE" according to Commission Decision 2001/844 and amendments
- **Confidentiel UE** = Classified with the mention of the classification level "Confidentiel UE" according to Commission Decision 2001/844 and amendments
- **Secret UE** = Classified with the mention of the classification level "Secret UE" according to Commission Decision 2001/844 and amendments

64. Delivery date for Deliverable

Month in which the deliverables will be available. Month 1 marking the start date of the project, and all delivery dates being relative to this start date

65. Review number

Review number: RV1, RV2, ..., RVn

66. Tentative timing of reviews

Month after which the review will take place. Month 1 marking the start date of the project, and all delivery dates being relative to this start date.

67. Person-months per Deliverable

The total number of person-month allocated to each deliverable.

PROPOSAL PART B**ICT PSP sixth call for proposals 2012
Best Practice Network****ICT PSP Objective identifier:** *(select as applicable)*

- **2.1 Europeana and creativity a) Content for Europeana**
- 2.1 Europeana and creativity b) Experimenting with the use of cultural material for creativity**

Proposal acronym: AthenaPlusProposal full title: Access to cultural heritage networks for EuropeanaProposal draft number and date of preparation: 218336 15 May 2012Name of coordinating person: Rosa Caffo**List of participants:**

Participant no.	Participant organisation name	Participant short name	Country
1 (Co-ordinator)	Istituto Centrale per il Catalogo Unico delle biblioteche italiane e per le informazioni bibliografiche	ICCU	Italy
2 (Participant)	uma information technology GmbH	UMA	Austria
3 (Participant)	KMKG - Koninklijke Musea voor Kunst en Geschiedenis	KMKG	Belgium
4 (Participant)	PACKED - Centre of Expertise in Digital Heritage	PACKED	Belgium
5 (Participant)	Openbaar Kunstbezit in Vlaanderen vzw	OKV	Belgium
6 (Participant)	Michael Culture AISBL	Michael	Belgium
7 (Participant)	Cyprus Research and Educational Foundation	CyI	Cyprus
8 (Participant)	Národní muzeum	NM	Czech Republic
9 (Participant)	Eesti Vabariigi Kultuuriministeerium	EVKM	Estonia
10 (Participant)	Ministère de la Culture et de la Communication	MCC	France
11 (Participant)	Stiftung Preußischer Kulturbesitz	SPK	Germany
12 (Participant)	Philipps-Universität Marburg	UNIMAR	Germany
13 (Participant)	National Technical University of Athens	NTUA	Greece
14 (Participant)	Hellenic Ministry of Culture & Tourism	HMCT	Greece
15 (Participant)	Petőfi Irodalmi Múzeum	PIM	Hungary
16 (Participant)	Biblioteca nazionale centrale di Roma "Vittorio Emanuele II"	BNCRM	Italy
17 (Participant)	M.E.T.A. SRL	META	Italy
18 (Participant)	National Museum of Ireland	NMI	Ireland
19 (Participant)	Lietuvos dailes muziejus	LAM	Lithuania
20 (Participant)	Stowarzyszenie Międzynarodowe Centrum Zarządzania Informacją	ICIMSS	Poland

21 (Participant)	Javni Zavod Republike Slovenije za Varstvo Kulturne Dediscine	IPCHS	Slovenia
22 (Participant)	Departament de Cultura – Generalitat de Catalunya	GenCat	Spain
23 (Participant)	Fundacio Privada i2CAT, Internet i Innovacio Digital a Catalunya	i2Cat	Spain
24 (Participant)	Collections Trust	CT	United Kingdom
25 (Participant)	Riksarkivet	RA	Sweden
26 (Participant)	Šiauliai "Aušros" Museum	SAM	Lithuania
27 (Participant)	Muzej za umjetnost i obrt	MUO	Croatia
28 (Participant)	Servei de Gestió Documental. Arxius i Publicacions – Ajuntament de Girona	SGDAP	Spain
29 (Participant)	University of Patras – Department of Computer Engineering and Informatics	UP	Greece
30 (Participant)	Valsts Aentra “Kultras Informācijas Sistmas”	KIS	Latvia
31 (Participant)	Association Européenne pour la Culture Juive	EAJC	France
32 (Participant)	Université de Savoie	UniSav	France
33 (Participant)	Biblioteca Academiei Romane	BAR	Romania
34 (Participant)	Association Dédale	Dedale	France
35 (Participant)	Université Pierre-Mendès France	UPMF	France
36 (Participant)	Central Library of the Bulgarian Academy of Sciences	CL-BAS	Bulgaria
37 (Participant)	Institutul National al Patrimoniului	INP	Romania
38 (Participant)	Koninklijk Instituut voor het Kunstpatrimonium	KIK-Irpa	Belgium
39 (Participant)	Istituto Luigi Sturzo	ILS	Italy
40 (Participant)	Libraries Development, Local Government Management Agency	LGMA	Ireland
Observer	Council of Europe	CoE	International

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PROJECT PROFILE

(Short, precise, verifiable) – **maximum 2 pages**

Proposal acronym: AthenaPlus

Proposal full title: Access to cultural heritage networks across Europe PLUS

Information on the Best Practice Network

Objectives

Description of the objectives of the Best Practice Network and alignment with the specific objectives of the Work Programme

AthenaPlus builds on the successful experience of the previous ATHENA project (2008-2011) – where the LIDO and the Athena Ingestion Server and Mapping Tool (MINT) were developed and has since been widely adapted across the Europeana's ecosystem of projects including the ongoing Linked Heritage Project.

ATHENA was not only a project but also a reference model (technical and procedural) for aggregating a critical mass of content for Europeana. Moreover, AthenaPlus builds upon a consolidated Network of Partners that has successfully worked together over many years; now enlarged with New Partners from additional countries that up until now have only been able to make limited contributions to Europeana.

AthenaPlus will continue to strengthen and extend the infrastructure and tools developed to support museums and other cultural institutions in their work of making their digital content available to Europeana.

The principal objectives of the AthenaPlus project are to:

- **Contribute** large quantities of content to Europeana, from both the public and private sectors, focusing mainly on museums content, with key cultural stakeholders (ministries and responsible government agencies, libraries, archives, leading research centres, SMEs) from several European countries included in the consortium;
- **Improve** search, retrieval and re-use of Europeana's content; improving multilingual terminology management, SKOS export and publication tool/API for Content Providers;
- **Experiment** with enriched metadata and their re-use adapted for users with different needs (tourists, schools, scholars) by means of tools that support the development of tourist and didactic applications, to be integrated into Europeana repositories and the repositories of national aggregators or individual Content Providers.

Activities and Outcomes

Short description of the activities and outcomes foreseen in the Best Practice Network

AthenaPlus sets 3 main targets outcomes:

- **To aggregate and contribute 3,6 million metadata records** and to make them available to Europeana, by enhancing and reinforcing the existing aggregation mechanisms established by the previous ATHENA project, mainly focusing to the museum sector. Section B2.1b lists the quantity, and type of contents proposed by the partner organisations. The global character of the proposal is underlined by the rich variety of content (from museums, libraries and traditional archives, sound and film archives, photograph and poster archives, etc.).
- To develop, test and implement **new tools to support the aggregation of contents in Europeana**. All Partners are essentially actively associated with the local cultural institutions in their countries, making it easier to identify and visualise relevant cultural content, through the interconnection of the various cultural institutions. In this scenario, all Providers and Aggregators act together to support Europeana's central role as a single, direct and multilingual gateway to Europe's cultural heritage.
- The third target outcome of the project directly relates to the partner structure and the ownership of the proposed content. The project will develop a sustainable approach to integrating the efforts of national and local aggregators in tandem with the objectives of Europeana, to introduce **new tools**

to ensure online accessibility to European digital heritage.

AthenaPlus will continue with ATHENA activities to apply common digitisation standards as defined by Europeana to achieve interoperability of content at a European level, as well as the systematic use of persistent identifiers as the first action to be undertaken in order to assure the long-term sustainability of content in Europeana.

The AthenaPlus project will also focus on the re-use of Europeana's content through services and innovative applications in accordance with both Europeana's and the Commission's recommendations. Both through these actions as well as the dissemination of these action lines, AthenaPlus will contribute to raising awareness of Europeana with a specific goal of reaching not only the general public but also the tourism and educational sectors as well.

Consortium

Short description of the consortium and role of the participants in the Best Practice Network

The composition of Partners and involved institutions is very wide:

- **By geography:** 21 Member States countries (Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Estonia, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Poland, Romania, Slovenia, Spain, Sweden, United Kingdom) and 1 International Observer (Council of Europe);
- **By type:** 3 Competence Centres, 11 Ministries/Cultural agencies, 3 libraries, 1 Municipality, 1 Archive, 8 museums, 8 non-profit organisations, 6 research centres/universities, 2 SMEs, and 1 international organisation;
- **By language:** Bulgarian, Catalan, Croatian, Czech, Dutch, English, French, Estonian, German, Greek, Hebrew, Hungarian, Irish Gaelic, Italian, Latin, Latvian, Lithuanian, Polish, Romanian, Russian, Scots, Slovene, Spanish, Swedish, and Yiddish.
- **By main role:** 33 Content Providers, 3 Partners providing scientific expertise, 6 Partners delivering technical knowledge, 1 responsible for dissemination.

Content Provider institutions are involved directly as Partners or through national aggregators; content comes from more than **500 cultural institutions** (more than 80% museums).

Impact

Expected impact of the Best Practice Network

As well underlined by recommendations and studies, the key success for the optimal deployment of Europeana is determined by the ability to deliver a critical mass of content to the end-user. The AthenaPlus Partnership is finely tuned to all these requirements and is poised to reach this goal. It is exactly this added value that AthenaPlus brings to the Europeana community as it coordinates the concerted effort of individual institutions across the Member States, rather than expecting each and every institution to act on their own.

AthenaPlus will re-affirm the ATHENA model with **National Contact Points (NCPs)** for each participating country set up in order to act as their local focal point. The national cultural institutions can then feel confident in their own NCP where they will receive guidance and support to reach Europeana. AthenaPlus will be a "Europeana agency" at a local level.

A successful European framework often starts by duplicating and embedding local policies and activities into pan-European constituencies. Acting from the micro to the macro the AthenaPlus project thereby guarantees the direct involvement of relevant research and the on-going activities of the cultural institutions participating in the project. The critical added value of the AthenaPlus project is predicated on the effectiveness of local efforts, based on common objectives. These activities may then percolate among the Member States creating a shared evolutionary strategy that may be shared across the entire Network.

It is clear that in addition to the contribution requested through the application to the European Commission for co-funding the project activities, substantial efforts will be mobilised by partner organisations, and by other bodies who will be associated in the discussion. This will result in an exemplary effort that will produce real European added value, where the common activities supported by the European Commission are integrally developed across the ecosystem of cultural heritage so as to support the full participation of cultural Content Providers at all levels within Europeana.

SECTION B1. RELEVANCE

B1.1. Project objectives

This section should explain the concept of the project, i.e. its objectives and the proposed action. This section should also explain in detail how the proposed action aligns with the general objectives of the Work Programme and its addressed specific objective relevant for the project.

The AthenaPlus project is presented within the ICT PSP objective 2.1.a: Europeana and creativity-Content for Europeana. The general and specific objectives of the programme will be achieved by the project through the joint effort of its Partners, which are leading ministries, agencies for culture, universities, research centres and cultural organisations at the centre of the cultural and educational policies in their countries and regions.

AthenaPlus builds on the successful experience of the previous Athena project – where LIDO and the Athena Ingestion Server and Mapping Tool (MINT) were developed and became widely taken up by Europeana’s ecosystem of projects; including the ongoing Linked Heritage project. AthenaPlus will extend and enhance the effective infrastructure and tools developed to support museums and other cultural institutions in their work in their goal of making digital content available through Europeana.

The principal objectives of the AthenaPlus project are to:

- Contribute large quantities of content to Europeana, from both the public and private sectors, focusing mainly on museums contents, and including in the consortium key cultural stakeholders (ministries and responsible government agencies, libraries, archives, leading research centres, SMEs) from several European countries;
- Improve search, retrieve and re-use the Europeana content; improving multilingual terminology management, SKOS export and publication tool/API on content providers’ level;
- Experiment with enriched metadata and how they may be re-used and adapted to users with different needs (tourists, schools, scholars) by means of tools supporting development of tourist and didactic applications, to be integrated into Europeana repositories and the repositories of national aggregators or individual content providers.

The composition of Partners and involved institutions is very wide:

- **By geography:** 21 Member States countries (Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Estonia, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Poland, Romania, Slovenia, Spain, Sweden, United Kingdom) and 1 International Observer (Council of Europe);
- **By type:** 3 Competence Centres, 11 Ministries/Cultural agencies, 3 libraries, 1 Municipality, 1 Archive, 8 museums, 8 non-profit organisations, 6 research centres/universities, 2 SMEs, and 1 international organisation;
- **By language:** Bulgarian, Catalan, Croatian, Czech, Dutch, English, French, Estonian, German, Greek, Hebrew, Hungarian, Irish Gaelic, Italian, Latin, Latvian, Lithuanian, Polish, Romanian, Russian, Scots, Slovene, Spanish, Swedish, and Yiddish.
- **By main role:** 33 content providers, 3 Partners providing scientific expertise, 6 Partners delivering technical knowledge, 1 responsible for dissemination;

Content Provider institutions are involved directly as Partners or through national aggregators; content comes from more than 500 cultural institutions (more than 80% museums).

B1.2 Contribution to the European Digital Library initiative

This section should explain in detail the contribution of the proposed project to the achievement of the European Digital Library initiative (Europeana).

The AthenaPlus project supports the *Digital Agenda for Europe*¹ to promote ICT interoperability as a key factor for the access to knowledge, as well as the creation of content and their re-use in the creation of new services.

In addition AthenaPlus aims to make a significant contribution towards the growth of Europeana in accordance to the goals set by the *Commission Recommendation on Digitisation and Digital Preservation of 27 October 2011*².

Content contribution to Europeana

AthenaPlus plans to enrich Europeana with more than 3,6 million metadata records from **21 EU countries + associate countries**.

Towards this goal, AthenaPlus will build upon the successful experience of the ATHENA project that managed contributions from over 300 European cultural institutions where, during the lifetime of the project the network provided 4,012,655 objects to seamlessly deliver them into Europeana³.

Drawing from our prior knowledge and successful workflow, AthenaPlus intends to deliver a critical mass of content; working both with the hundreds European cultural institutions that flourished as a viable consortium as the Athena Network, while extending the network to new Partners. In addition, AthenaPlus will reuse the Athena tools for the ingestion and aggregation of content (LIDO harvesting format and the MINT platform) that were developed under the ATHENA leadership, and has since become standard, and enthusiastically adopted by several, sister European projects, and national aggregators.

The proved consortium and its expansion as the AthenaPlus Network is based on the viability of content providers that bring together a fraternity of small, medium, and large institutions (museums, libraries, and archives) at local, regional, and national levels, both public and private. The thematic ranges of the collections that Partners have already provided and will continue to provide include many aspects of European culture: archaeological and art-historical artefacts, books and manuscripts, technical objects, ethnological and ethnographical documents, music and sounds etc.

In addition to re-affirming connections to its historical Partners, AthenaPlus will increase the Network with content located in Member States that are currently underrepresented. According to the press release, Digital Agenda: encouraging digitisation of EU culture to help boost growth⁴ specific countries such as; Cyprus, Lithuania, Romania, Czech Republic, and Bulgaria that still have rich content to deliver to Europeana are noted. Potential Content Providers have been identified by AthenaPlus in each of these countries and have been invited to join the Network. Once the contributions of these Member States are harvested by AthenaPlus into Europeana they will be able to improve their national profile.

In respect to the Commission Recommendations, AthenaPlus Partners will introduce many masterpieces into Europeana. Treasures from the Gaudi's architectures and the Bourbon Royal Palace in Caserta are already included in workflow. In addition, the Network has identified thematic collections for inclusion that are particularly interesting for Europeana such as European cities, the First World War as well as the Cold War.

The AthenaPlus consortium also is directly associated with national aggregators: CulturaItalia (Italy), Moteur Collections (France), Kulturpool (Austria) as well as domain aggregators such as museum-digital (Germany), and eSbirky (Czech Republic) are part of the network. This will present new opportunities for visibility for the small cultural institutions that otherwise could find it difficult to reach Europeana by themselves but can easily

¹ COM(2010) 245.

² C(2011) 7579.

³ See the full list at <http://www.europeana.eu/portal/europeana-providers.html>.

⁴ The Commission's press release (IP/11/1292), in 22 languages:

<http://europa.eu/rapid/pressReleasesAction.do?reference=IP/11/1292&format=HTML&aged=0&language=EN&guiLanguage=en>

work together under the auspices of an aggregator. At the same time Europeana will greatly benefit from content contribution that is located in many European cultural institutions from the Member States. The involvement of aggregators has numerous advantages: for the project itself, that can supply Europeana with millions of metadata, for the hundreds of small cultural institutions across Europe that have preferential channels to reach the European portal, and for Europeana itself that can count on the aggregators, for instance, for pragmatic solutions, for example the intellectual rights clearance and the maintenance of persistent links.

Athena project was the first provider to introduce into Europeana both Russian and Israel content reflecting their historical associations and culture with Europe. AthenaPlus will reaffirm this approach by providing Europeana with new content from both countries. Athena and AthenaPlus are so far the only projects able to supply Europeana with content from Russian cultural institutions.

AthenaPlus will provide Europeana with core collections of Jewish culture interest. The contributing institutions such as the Hungarian Jewish Archives and the Alliance Israelite Universelle were already Partners (together with ICCU and NTUA) in the Judaica Europeana project (<http://www.judaica-europeana.eu>) that introduced over 3,7 million digital objects of Jewish collections online via Europeana. The Judaica Europeana project was very successful and contributed high quality content to Europeana. At the same time many other Jewish digital cultural collections were ready to be brought into Europeana. For this reason ICCU as coordinator of AthenaPlus considered that introducing a number of Judaica Partners into the AthenaPlus consortium was advantageous for all. For Europeana, to include additional Jewish cultural content; and for the original Judaica Europeana Partners, to assure the sustainability of their content already provided to Europeana as well as the provision of new content to be harvested by AthenaPlus.

Facilities for Europeana

AthenaPlus will support improved search, retrieval and re-use of Europeana content, improved multilingual terminology management, SKOS export and publication tool/API for Content Providers. AthenaPlus will continue to improve on the prior work on multilingualism, taken on by the same Partners from the Athena and Linked Heritage Projects so the cultural institutions will benefit by registry that will archive reference terminologies stored in a Europeana interoperable format (SKOS RDF).

In addition, AthenaPlus will develop pilot experiences with enriched metadata and experiment with how they may be re-used and adapted to users with different needs by means of tools supporting development of tourist and didactic applications, to be integrated into Europeana repositories and the repositories of national aggregators or single Content Providers.

Europeana awareness

Through its prior connections and associations, AthenaPlus is ideally positioned to support the growth of the awareness of Europeana by cultural institutions. In addition to publicising Europeana throughout the Network across the Member States, AthenaPlus is experienced in promoting standards and guidelines to users, policy makers and cultural institutions. The AthenaPlus project will play a fundamental role in supporting Europeana in disseminating and explaining the Data Exchange Agreement (DEA) to content providers. The AthenaPlus consortium is not only made up of Partners that participate in other projects of the Europeana group and have already subscribed the DEA, but also will include new cultural institutions that will be contributing to Europeana for the first time. These institutions will need to be fully informed about the DEA subscription's administrative procedures; the meaning of the agreement, and the public domain conditions that they will be committing to once they upload their metadata into Europeana. These actions will also include explanations on and the promotion of Linked Open Data (LOD).

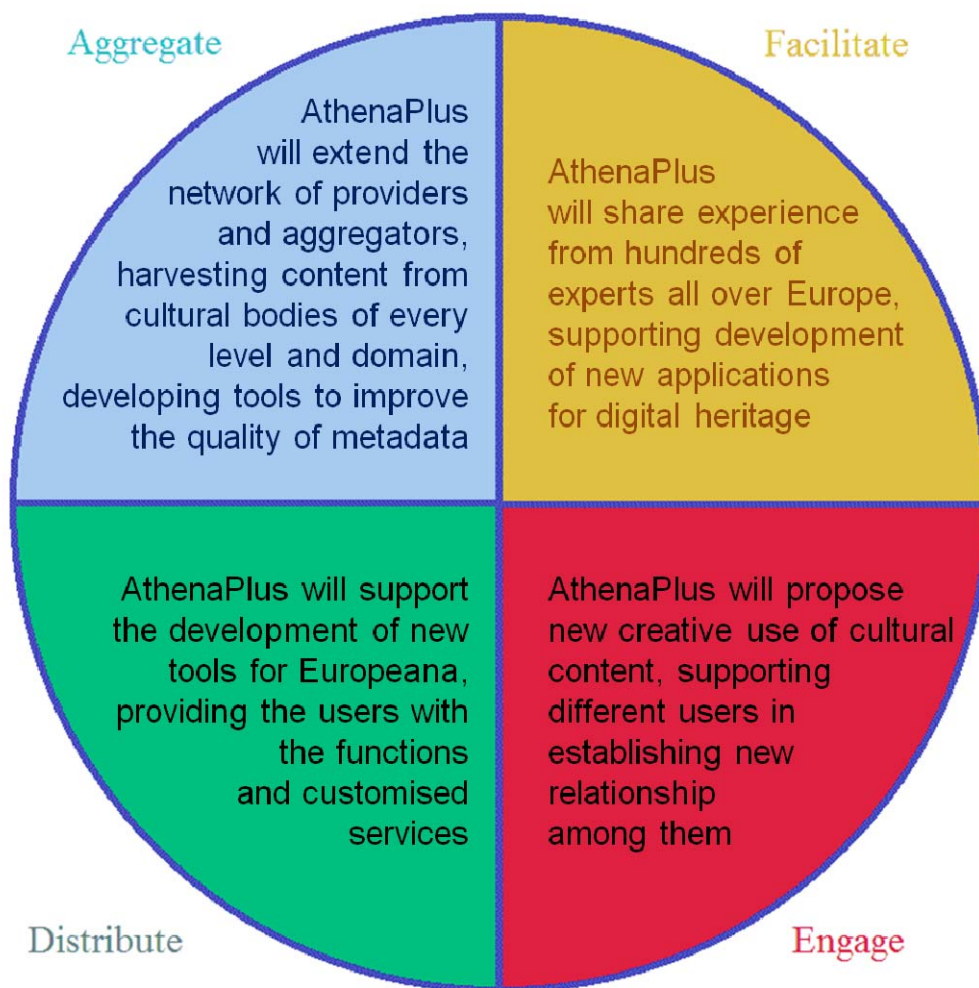
AthenaPlus will continue with ATHENA activities to apply common digitisation standards, as defined by Europeana to achieve interoperability of content at a European level, as well as the systematic use of persistent identifiers as the first action to be undertaken in order to assure the long-term sustainability of content in Europeana.

The AthenaPlus project will also focus on the re-use of Europeana's content through services and innovative applications in accordance with both the Europeana and Commission recommendations. Both through these

actions and the dissemination of these action lines, AthenaPlus will contribute to raising awareness of Europeana with a specific goal or reaching not only the general public but also to tourism and educational sectors as well.

Europeana strategic plan

The concept of AthenaPlus takes into consideration the four tracks that Europeana will follow in the next five years as expressed in the Europeana Strategic Plan 2011-2015¹: aggregate, facilitate, distribute, and engage. AthenaPlus will **aggregate** hundreds of cultural institutions across Europe and 3,6 million data for Europeana, **facilitate** the knowledge transfer sharing of good practices in digital cultural heritage, **distribute** the content thanks to the deployment of tools that will help Europeana in improved search and retrieval capabilities, and **engage** users for testing the creative service it will create.



¹ http://pro.europeana.eu/c/document_library/get_file?uuid=c4f19464-7504-44db-ac1e-3ddb78c922d7&groupId=10602.

SECTION B2. IMPACT

B2.1a. Target outcomes and expected impact

Describe how your project will contribute towards the expected target outcome and characteristics listed in the addressed specific objective in the ICT PSP Work Programme.

Describe how your project will contribute towards the expected impacts listed in the Work Programme in relation to the chosen objective. Mention the steps that will be needed to bring about these impacts. Explain why this contribution requires a European (rather than a national or local) approach. Mention any assumptions and external factors that may determine whether the impacts will be achieved, including the main barriers and foreseeable risk factors.

AthenaPlus is geared to three main targets outcomes:

- To aggregate and contribute a critical mass of cultural heritage content and to make them available to Europeana, by enhancing and reinforcing the existing aggregation mechanisms established by the previous ATHENA project, mainly focusing to the museum sector. Section B2.1b lists the quantity, and type of contents proposed by the partner organisations. The global character of the proposal is underlined by the wide variety of content (from libraries and traditional archives, sound and film archives, photograph and poster archives, etc.). As detailed in the Section B.2.1b, the project will contribute to Europeana more than **3.6 million metadata records**. Due to the characteristics of the content aggregated by AthenaPlus the number of images and pages expected to be made accessible amounts to more than 12 million items.
- To develop, test and implement new tools to support the aggregation of contents in Europeana. All Partners are essentially actively associated with the local cultural institutions in their countries, making it easier to identify and visualise relevant cultural content, through the interconnection of the various cultural institutions. In this scenario, all Providers and Aggregators act together to support Europeana's central role as a single, direct and multilingual gateway to Europe's cultural heritage.
- The third target outcome of the project relates directly to the partner structure and the ownership of the proposed content. The project will develop a sustainable approach to integrating the efforts of national and local aggregators in tandem with the objectives of Europeana, to introduce new tools to ensure online accessibility to European digital heritage.

As well underlined by several EC recommendations and studies, the key success for the full development of Europeana is the ability of delivering a critical mass of content to the end-user. The AthenaPlus Partnership is finely tuned to all these requirements that serve to achieve this goal and will create the added value that will be able bring into line the separate efforts currently the responsibility of individual institutions across the Member States. A successful European framework often starts from its embedding local policies and activities into pan-European constituencies and this can be guaranteed by the direct involvement of relevant research and the on-going activities of the cultural institutions participating in the project. The critical added value of the AthenaPlus project is predicated on its effectiveness in developing agreed evolutionary strategies, based on common objectives upon which local efforts are focused.

It is clear that in addition to the contribution requested through the application to the European Commission for co-funding the project activities, substantial efforts will be mobilised by partner organisations, and by other bodies who will be associated in the discussion. This will result in an exemplary effort that will produce real European added value, where the common activities supported by the European Commission are integrally developed across the ecosystem of cultural heritage so as to support the full participation of cultural content providers within Europeana at all levels.

Many of the Partners have already enjoyed fruitful collaboration in previous projects, where the co-funding of the project has been already assured by their institutional strategy. In principle, no severe external risk factors seem to reduce the potential success of the project. The direct risks linked to the implementation of the project have been identified and are listed in Section B3.2. The corrective actions accordingly have been identified and documented.

AthenaPlus will provide an additional, but major contribution that is related to the capacity of its members to contact, capture the attention, and mobilise the different stakeholders involved in the process of content enrichment:

- Public and private museums that create and collect their own digital content;
- Private citizens, interested in receiving quality contents, reliable and directly responding to their interests;
- Universities and schools, who may wish to re-use cultural contents for educational purposes with confidence in a authorised, and safe environment;
- SMEs and large enterprises interested in re-using digital content for adding value in commercial activities and exploiting digital content resources to create services, e.g. in the tourism sector.

The activities and outcomes of the project involve a wide range of different audiences. The main targets are Europeana, the content-contributing community, government and policy bodies, the tourist sector, schools, and the research community, while there are little requirements to address the general public. In particular:

Aggregators	<p>“An aggregator in the context of Europeana is an organisation that collects metadata from a group of content providers and transmits it to Europeana. Aggregators gather material from individual organisations, standardise the file formats and metadata, and channel the latter into Europeana according to the Europeana guidelines and procedures. Aggregators also support the content providers with administration, operations and training”.¹</p> <p>AthenaPlus involves in its Partnership some of the major national and regional aggregators, and includes:</p> <p>http://www.kulturpool.at/display/kupo/Home (Austrian national aggregator)</p> <p>http://carmentis.kmkg-mrah.be/eMuseumPlus (Federal museum aggregator service, Belgium)</p> <p>http://collections.culture.fr/ (French national aggregator)</p> <p>http://www.askaboutireland.ie/ (Irish national aggregator)</p> <p>http://www.culturaitalia.it (Italian national aggregator)</p> <p>http://www.muzejai.lt/emuziejai/index_en.asp (Lithuanian museum aggregator)</p> <p>http://www.culturalia.ro (Romanian national aggregator)</p> <p>http://www.museum-digital.de/ (German aggregator)</p> <p>the Greek national aggregator (under construction)</p> <p>and other.</p> <p>Aggregators involved in AthenaPlus will be kept informed for the duration of the project about the AthenaPlus ongoing activities and input in order to exploit recommendations and make use of the tools developed.</p> <p>Content providers who are AthenaPlus Partners and deliver their content through national aggregators will act as a bridge between the project and the aggregator.</p>
Content providers	<p>Content providers are cultural institutions that provide metadata to the AthenaPlus project, in order to be harvested by Europeana.</p> <p>They will be involved throughout the duration of the project with AthenaPlus ongoing activities and input so that they make good use of both its recommendations and the tools developed by the project.</p> <p>Effective dissemination activities could encourage new cultural institutions to join the network and become additional AthenaPlus content providers.</p> <p>This audience will also benefit from the tools for the creative reuse of cultural heritage contents.</p>
Policy groups, Agencies and Governments	<p>These stakeholders include policy makers at national and European level.</p> <p>Currently, the AthenaPlus consortium includes several key ministries and cultural agencies, while at European Level the target is mainly represented by:</p>

¹ http://pro.europeana.eu/documents/858566/85866_5/Aggregators+Handbook, p. 8.

	<ul style="list-style-type: none"> • The <i>Member State Expert Group</i>, set up by the European Commission in 2006, made up of representatives from the national ministries and/or national cultural institutions of all EU countries, in order to monitor progress on the implementation of the Commission Recommendation of 24 August 2006, on digitisation and digital preservation and of the related Council Conclusions of 13 November 2006; to exchange information and good practices of Member States' policies and strategies on the digitisation and online accessibility of cultural material and digital preservation; • The <i>Comité des Sages</i>, set up in April 2010 by Vice President responsible for the Digital Agenda and Commissioner in charge for Education and Culture, whose task is to make recommendations to the European Commission, European cultural institutions and any stakeholders, on ways and means to make Europe's cultural heritage and creativity available on the Internet and to preserve it for future generations, looking in particular at funding sources, at how cultural organisations and the private sector can interact in the digital age, and at responsibilities and solutions for digitising material that is in the public domain or still in copyright. <p>Disseminating AthenaPlus results among government ministries and agencies, which control or lobby for funding memory institutions of all sorts, is valuable because:</p> <ul style="list-style-type: none"> • AthenaPlus content providers could also be supported in the future at national government level; • AthenaPlus results, mainly best practices and technological outcomes, could be integrated in national programmes on digitisation and training; • AthenaPlus results may be integrated by policy-making institutions in the framework of joint activities at both the national and at the European level.
Other projects in the Europeana ecosystem of projects	<p>Collaboration with sister projects is crucial in order to avoid duplications and to re-use sharable solutions.</p> <p>Many AthenaPlus Partners take part in one or more projects related to Europeana. The European Commission has co-funded, mainly through its CIP ICT-PSP Programme a number of European projects. In 2011 there are more than 25 projects in the Europeana Group, Europeana is a consortium partner or subcontractor in many of them.</p> <p>The list of sister projects is updated in the Europeana Professional Knowledge Sharing Platform (http://pro.europeana.eu/projects) where the projects are categorised as Content and Technology providing projects, Technology providing projects, Content providing projects.</p> <p>The Europeana family of projects in which AthenaPlus Partners are also involved, and that could benefit from the results of AthenaPlus include: Europeana Awareness, ARROW Plus, CARARE, Digitising Contemporary Art, ECLAP, Europeana Collections 1914-1918, Euscreen, The European Library, Partage Plus.</p>
Cultural Heritage Research Community	<p>This community is represented by institutions, experts and researchers working in the field of digital cultural heritage which can benefit from all results on the project, mainly in the field of aggregation, standards, terminology, linked data, persistent identification, good practices etc.</p> <p>We consider being part of this group also national, European and International organisations working for the standardisation and sharing of knowledge among cultural institutions (professional associations, CIDOC, IFLA, ICOM, LIBER, Eblida, etc.).</p>
Educational sector	<p>This audience, mainly teachers, will benefit from the tools for the creative reuse of cultural heritage contents during and after the end of the project. With the involvement of AthenaPlus National contact points, content providers and aggregators, a panel of teachers in each participating country will be selected in order to benefit of AthenaPlus training courses on the tools for the creative reuse of cultural heritage content and to participate in pilots (see Tasks 6.2, 6.3 and 6.5).</p>

Tourism sector	<p>This audience will benefit from the tools for the creative use of cultural contents during and after the end of the project. It will include: tourist agencies, tourist operators, non-profit institutions working in the field of tourism.</p> <p>With the involvement of AthenaPlus National contact points, content providers and aggregators, a panel of teachers in each participating country will be selected in order to benefit of AthenaPlus training courses on the tools for the creative reuse of cultural heritage content and to participate in pilots (see Tasks 6.2, 6.3 and 6.5).</p>
Research and competence centres in cultural heritage and e-infrastructures	<p>Like the previous target, this group may also benefit from AthenaPlus scientific results in order to reuse them at national level. Considering that several Partners are also involved in European projects dealing with e-Infrastructures (like DC-NET, http://www.dc-net.org, and Indicate, http://www.indicate-project.org), the transparent sharing of information serves to inform these groups as well as e-infrastructure providers and managers.</p>
Europeana Foundation, Europeana Network, Europeana Labs	<p>Dissemination strategy towards Europeana is crucial, for many aspects:</p> <p>From a political point of view, so that Europeana will be able to adopt and integrate AthenaPlus results. Therefore a subcontracting process with Europeana is currently being finalised. The ICCU acts as the subcontractor with Europeana in its capacity of project coordinator. This potential cooperation is described and explained below.</p> <p>From a strategic point of view, because dissemination of AthenaPlus outcomes among experts in the Europeana Network (formerly named CCPA - Council of Content Providers and Aggregators) means that the project outcomes may reach a pan-European forum where the views of content holders can be reflected, from the main aggregators to individual institutions. The Europeana Network represents museums, libraries, archives as well as the audio-visual sector across a wide range of Member States. The Europeana Network represents one of the main channels of knowledge transfer between different institutions, domains and countries; the sharing of best practice and common standards; and demonstrates the relevance of cultural and scientific heritage institutions to new generations of users.</p> <p>From a technical point of view, because dissemination of AthenaPlus results with Europeana Labs will support the workflow across of all of its activities. Moreover the main results could enrich the online Europeana's ThoughtLab, where all parties concerned can discover more about the work of Europeana's Partners.</p>

Audience general overview

The following table summarizes the type of audience; the messages to be communicated; the impact foreseen, and the Partners' involvement:

Audience	Message to be communicated	Main impact	AthenaPlus actors involved
Aggregators	<ul style="list-style-type: none"> • Raise awareness of the project • Stimulate interest in project technologies • Encourage to use and validate the AthenaPlus outcomes • Disseminate best practices and project results 	National	All Partners derive direct benefit from their national aggregator

Content providers	<ul style="list-style-type: none"> • Raise awareness of the project and of Europeana • Stimulate interest in project technologies • Encourage to use and validate the AthenaPlus outcomes • Join the network 	National	All Partners
Policy groups, Agencies and Governments	<ul style="list-style-type: none"> • Raise awareness of the project 	National	All Partners
Other projects in the Europeana ecosystem of projects	<ul style="list-style-type: none"> • Raise awareness of the project • Stimulate interest in project technologies • Disseminate best practices and project results 	European	All Partners, but mainly WP leaders
Cultural heritage research communities	<ul style="list-style-type: none"> • Raise awareness of the project • Stimulate interest in project technologies • Encourage to use and validate the AthenaPlus outcomes 	National, European, International	All Partners, WP Leaders and Working group experts
Educational sector	<ul style="list-style-type: none"> • Stimulate interest in project technologies • Encourage to use and validate the AthenaPlus outcomes 	National	All Partners
Tourism sector	<ul style="list-style-type: none"> • Stimulate interest in project technologies • Encourage to use and validate the AthenaPlus outcomes 	National	All Partners
Research and competence centres in cultural heritage and of e-Infrastructures	<ul style="list-style-type: none"> • Raise awareness of the project • Stimulate interest in project technologies • Encourage to use and validate the AthenaPlus outcomes 	National	All Partners
Europeana Foundation	<ul style="list-style-type: none"> • Raise awareness of the project 	European	Mainly WP1 and WP Leaders
Europeana Network	<ul style="list-style-type: none"> • Disseminate best practices and project results 	European	All Partners
Europeana Labs	<ul style="list-style-type: none"> • Stimulate interest in project technologies • Encourage to use and validate the AthenaPlus outcomes 	European	Mainly WP2, WP3, WP5, WP6 and technological Partners
Private sector	<ul style="list-style-type: none"> • Raise awareness of the project • Encourage to use and validate the AthenaPlus outcomes 	European	Mainly WP6

B.2.1b. Underlying content

(This section only for proposals addressing 2.1 Europeana and creativity a) Content for Europeana

Describe the digital content that will be made accessible and re-usable by the end of the project in terms of:

i) Content

Complete the Table 0 template on content. The table describes the content items that the project will make available to the target users by the end of the project. The descriptors in each row should identify technical features (format, type) and indicate the subject matter and topics the items cover.

Table 0: Template – Underlying content

This table should identify the quality and quantity of the digital content (and related metadata) to be contributed to the project by each content provider. Please start a new row for each new provider, type, or language.

Quantity and Quality of the Content						
Provider ¹	Quantity and type ²	Subject matter (topic or theme that content is about).	Language	Format ³	Existing Metadata ⁴	IPR
Kulturpool	4.135 Documents and 1.911 images from 545 artists (ca. 2000 artworks) (901 associated institution)	DIGITAL DATABASE OF MEDIA ART	German	jpg	Various based on ESE	Rights cleared
Kulturpool	500 digital objects of modern and fine arts pictures	Paintings of modern and fine arts	German	jpg	Various based on ESE	Rights cleared
Kulturpool	2.700 digital objects of images and writings	Collection of local history in Vorarlberg	German	jpg	Various based on ESE	Rights cleared
Kulturpool	15.000 digital objects of graphical collection (photographs, prints, hand drawings)	Collection of copper prints	German	jpg	Various based on ESE	Rights cleared
OKV	10.000 pages art and museum articles	Museums, heritage, exhibitions, artists	Dutch	TIFF, PDF, HR	YES Dutch	Rights cleared
KIK-IRPA	100.000	Photographs of art works in Belgium (to be defined during initial phase of the project)	Dutch or French for free text fields (e.g. title, notes ...). Thesaurus based fields are mostly bilingual (Dutch/French)	IMAGE (all scanned photographs)	Basic metadata: complete Scientific metadata incomplete	Rights cleared
Pleven Art Gallery	ca. 4800 images	Art Collection (paintings, sculptures)	BUL	Jpg; 300dpi	Domestic format with outputs in xml	Pleven Art Gallery
Veliko Tarnovo Regional Library	ca. 4900 images	Education (photographs, plans and sketches related to education in Bulgaria)	BUL	Jpg; 300dpi	Domestic format with outputs in xml	Veliko Tarnovo Regional Library

¹ Short name of the participant who provides the content

² E.g. 1000 books, 5000 audio files, 500 photographs

³ E.g. Format of content [digital (file format, resolution etc) / objective 2.3: to be digitised (paper, photographic prints/slides etc.)]

⁴ Is metadata available and, if so, in which format/standard/language.

Veliko Tarnovo Regional Library	100 images	Art Collection (mainly paintings)	BUL	Jpg; 300dpi	Domestic format with outputs in xml	Veliko Tarnovo Regional Library
Plovdiv Regional Library	ca. 200 images	Library items (manuscripts, old-printed books, photographs)	BUL	Jpg; 300dpi	MARC xml	Plovdiv Regional Library
Centre for Slavic and Byzantine Studies (Sofia)	126 images	Art Collection (mainly paintings)	BUL	Jpg; 300dpi	Domestic format with outputs in xml	Centre for Slavic and Byzantine Studies
Dimitar Mitzev Art Gallery (Plovdiv)	60 images	Art Collection (mainly paintings)	BUL	Jpg; 300dpi	Domestic format with outputs in xml	Dimitar Mitzev Art Gallery (Plovdiv)
Museum of Arts and Crafts	5.000 Fine art	Painting, sculpture, graphics, architecture dating from 14th to 21 century	Croatian	TIFF/JPG	Metadata in proprietary software (ProMUS)	Rights cleared
Museum of Arts and Crafts	15.000 Applied Art	Glass, metalwork, clocks and watches, furniture, ceramics, musical instruments, textiles, graphic and product design, ivory dating from 14th to 21 century	Croatian	TIFF/JPG	Metadata in proprietary software (ProMUS)	Rights cleared
Museum of Arts and Crafts	20.000 Photographs (art photography, documentary photography, postcards)	From mid 19th century onwards, national and international	Croatian	TIFF/JPG	Metadata in proprietary software (ProMUS)	Rights cleared
CyI	1000 + photographs and texts	Cypriot culture (agriculture, architecture, sports, paintings, history)	English	JPG; PDF	Proprietary (STARC metadata); English	Rights cleared
Narodni muzeum	1.500	Numismatic collection	Czech	jpg	Dublin Core/ Europeana semantic elements	Rights cleared
Narodni muzeum	3.000	Theatre collection	Czech	jpg	Dublin Core/ Europeana semantic elements	Rights cleared
Narodni muzeum	3.000	Historical collection (paintings, sculptures,.)	Czech	jpg	Dublin Core/ Europeana semantic elements	Rights cleared
Narodni muzeum	10.000	Items made by nature	Czech	jpg	Dublin Core/ Europeana semantic elements	Rights cleared
Narodni muzeum	5.000	Archive (sheets)	Czech	jpg	Dublin Core/ Europeana semantic elements	Rights cleared

Narodni muzeum	2.000	Library (illustrations)	Czech	jpg	Dublin Core/ Europeana semantic elements	Rights cleared
Narodni muzeum	5.000	Musical archive (sheets)	Czech	jpg	Dublin Core/ Europeana semantic elements	Rights cleared
Narodni muzeum	50	Musical instruments	Czech	jpg	Dublin Core/ Europeana semantic elements	Rights are cleared
Narodni muzeum	6.000	Autographs (sheets)	Czech	jpg	Dublin Core/ Europeana semantic elements	Rights cleared
Different Estonian museums	30.000 images	different	Estonian	jpeg	Available in Estonian	Rights cleared
Steinheim-Institut, Essen	22,788 epigraphic objects coverage – Germany / The Netherlands; period: 1272-today; 120 cemeteries;	Jewish Epigraphic Data (tombstone inscriptions)	Hebrew, German, German in Hebrew letters, Russian	approx. text: proprietary format (epidat data model), TEI EPIDOC, optional: PDF / RTF /TXT; photographs : tiff / jpeg / png; map: SVG; PDF	60,000 approx. TextData: TEI-Header; Dublin Core (to be done); GeoData: TGN; ISO 3166, long-lat; PersonData: PND (not relevant)	Rights cleared
Bibliotheca Rosenthaliana Amsterdam	10,100 digital objects	Letters of the 'Pekidim and Amarkalim' i.e. Treasurers and Officers of the Jewish community of Amsterdam – a historic collection mainly from the 19th century	Hebrew, Dutch		10,090 metadata records	Rights cleared
Bibliotheca Rosenthaliana Amsterdam	13,600 digital objects	70 early books from the printing press of Manasseh ben Israel (1604 –1657), rabbi, scholar, diplomat, founder of the first Hebrew printing press, 5 letters	Hebrew, Dutch		3 metadata records linking to 13,600 digital objects	Rights cleared
Bibliotheca Rosenthaliana Amsterdam	4,950 digital objects	Digital objects from the Image Bank (Beeldbank): valuable books and manuscripts in the Special Collection of University of Amsterdam: 26 printed books, 2 manuscripts	Hebrew, Dutch		36 metadata records	Rights cleared

Bibliotheca Rosenthaliana	690 digital objects	Documents from Rosenthaliana's historic archives			55 metadata records, 54 EADs	Rights cleared
Bibliotheca Rosenthaliana Amsterdam	68 digital objects	Valuable books Treasures of Jewish Booklore			1 metadata record	Rights cleared
Hungarian Jewish Archives	2500 photographs	portraits of Jewish personalities, photographs on the community events, Jewish gravestones and families	not relevant	photos to be digitized in jpg format	2,500 records, Hungarian and English, Dublin core	Rights cleared
Hungarian Jewish Archives	1000 individual documents, charts	charts of the Jewish institutions in Hungary	Hebrew, Hungarian, German	documents to be scanned in jpg format	1,000 records, Hungarian and English ISAD(G)	Rights cleared
Hungarian Jewish Archives	50 typaria	copper typaria of Jewish communities and famous rabbis	Hebrew, German, Hungarian	objects to be digitized in jpg format	50 records, Hungarian and English Dublin Core	Rights cleared
Hungarian Jewish Archives	cc. 100 Hebrew (mostly illustrated) manuscripts	community pinqasim (books or journals of community organizations in the early modern period), chevra kaddisha (burial society) books and personal documents	Hebrew	to be digitized, jpg or pdf	100 records, Hungarian, English, ISAD(G)	Rights cleared
CFMJ, Paris	1880 audio tracks	Jewish music	Hebrew, English, Ladino, Yiddish, French	mp3 (30 sec snippets)	2, 035 records MARC21	Rights cleared
CFMJ	1900 music scores	Jewish music	Hebrew, French	jpeg	MARC21 1,900 records	Rights cleared
CFMJ	200 archival units	Jewish music	French, Hebrew	jpeg	2000 records MARC21	Rights cleared
Medem Library, Paris	6492 audio tracks	Jewish music	Yiddish, English, Hebrew, French	mp3 (30 sec snippets)	6,970 records MARC21	Rights cleared
Medem Library	8,000 books	Yiddish books to be digitized	Yiddish	Text to be digitized	8,000 records Marc21	Rights cleared
Ben Uri, London	1288 images of artworks	Visual art – paintings, drawings, sculpture, photographs, video by Jewish artists in Europe	English	various	1,288 records English / adlib database software; Artist + dates/title/ medium/dimensions/ signed/dated	Rights cleared
Oxford Centre for Jewish Studies	167 digitized books, documents online PDG, JPG, some TIFF	Jewish Enlightenment, Berlin Jewry, Anglo-Jewish history	PDG, JPG, some TIFF	Dublin Core	67 records in English, HTML	Rights cleared
Oxford Centre for Jewish Studies	1,000 various items, documents	Moses Montetefiore, Anglo-Jewish history	English, Hebrew, Yiddish, Italian	Dublin Core	1,000 records	Rights cleared

Oxford Centre for Jewish Studies	100 items from Lowe collection	Loewe Family, linguistics, medieval Hebrew poetry translations	English, Hebrew, other	Dublin core	100 records, HTML	Rights cleared
UPMF-MSH-Alpes	5000 Photographs (murals paintings, architecture and texts)	Wall paintings of alpine areas From 11th to 16th centuries	French and Italian	JPEG And pdf for the texts	Yes Available in French and Italian	Rights cleared
Ethnologisches Museum SMB-PK	1.000 photographs	Historical photo collection (expeditions)	German	jpg	LIDO, German	Clearance necessary
Münzkabinett	1.000 photographs	Numismatic historical collection	German	jpg	LIDO, German	Rights cleared
Museum für Islamische Kunst	1.000 photographs	Islamic art	German	jpg	LIDO, German	Clearance necessary
Institut für Museumsforschung	500 photographs	architecture	German	jpg	LIDO, German	Rights cleared
Staatliche Museen zu Berlin	15.000 photographs	Cultural history	German	jpg	LIDO, German	Rights cleared
Museum-digital	1.000 photographs	Museum objects of cultural history	German	jpg	LIDO, German	CC-SA-NC
UNIMAR	130.000 images	Portraits (etchings) of the early modern period from different collections	German	JPG	Yes, LIDO format	Rights cleared
UNIMAR	30.000 images	Photographs of art and architecture in Germany and Europe	German	JPG	Yes, LIDO format	Rights cleared
HMCT	~40.000 digital items (audio, video, images, texts)	Cross domain aggregated content from Greek cultural institutions	Greek, English	PDF, WORD/JPEG/MPEG1, MPEG2	LIDO, Dublin Core, Cidoc-CRM, MARC, SPECTRUM, MPEG-7	Public and licensed
Library and Information Centre University of Patras	94000 items (articles) = 222000 pages	Academic library books, researches etc. Pleias: 33 Greek literature and philological journals	99 % Greek 0,5% English 0,5 % French	Analogue	DC (Greek)	Rights cleared
Science and Technology Museum University of Patras	600, Images on Artefacts	Artefacts on proprietary telecommunication and ICT systems.	Greek	Analogue	YES, Dublin Core	Rights cleared
New Archaeological Museum of Patras	1500, Images on Artefacts	Archaeological and Roman artefacts.	Greek	Analogue	YES, Dublin Core and National Standard	Rights cleared
Holy Diocese of Kalavrita and Agialia	1300, Images on Artefacts	Church and Holy artefacts	Greek	Analogue	YES, Dublin Core and Custom Standard	Rights cleared
Greek Press Museum	40.000, Images on Archives	Newspaper, journal and relevant artefacts archive.	Greek	Analogue	YES, Dublin Core	Rights cleared
Lst Archaeological Ephorate	1300, Images on Artefacts	Archaeological and Roman artefacts.	Greek	Analogue	YES, Dublin Core and National Standard	Rights cleared
Museum D. Solomos	1050, Images on Artefacts	Post byzantine (Greek newer history) artefacts.	Greek	Analogue	YES, Dublin Core and National Standard	Rights cleared

PIM	5.000 images	Hungarian literature	Hungarian	jpeg, pdf	marc xml, LIDO	public domain, copyright
Hungarian Open Air Museum	10.000 images	Ethnography, rural architecture	Hungarian	jpeg, 72 dpi	XML	Rights cleared
Hungarian National Gallery	6.000 images	Fine Arts	English	jpeg, 72 dpi	XML, LIDO	Rights cleared
Hungarian National Gallery	2.000 pages	Fine Arts	English, French, German, Hungarian	pdf	XML, LIDO	Rights cleared
Libraries Development, Local Government Management Agency	50.000 pages /images	Socio-Historical Irish	English	PDF/jpg	Dublin Core based Subset	Rights cleared
National Museum of Ireland	20000 to 40000 Photographs of 3D objects	Natural History, Archaeology, History, Decorative Arts, Country Life	English	Jpg (res will be decided later)	Europeana level plus higher on some objects	Rights cleared
National Museum of Ireland	5000 scans of mostly 2D artefacts	1916 Historical Documents (1916 Historical documents)	English	Jpg (res will be decided later) and PDF	Europeana level plus higher on some objects	Rights cleared
National Museum of Ireland	200 Photographs of 3D objects	Asiatic Art (Albert Bender Collections)	English	Jpg (res will be decided later) and PDF	Europeana level plus higher on some objects	Rights cleared
National Museum of Ireland	200 Photographs of objects, including conservation work	Asgard (Historical Yacht)	English	Jpg (res will be decided later) and PDF	Europeana level plus higher on some objects	Rights cleared
National Museum of Ireland	1000 Photographs and scans of documents	Eileen Gray	English	Jpg (res will be decided later) and PDF	Europeana level plus higher on some objects	Rights cleared
CulturalItalia/Muse i-D Chieti/ Museo Archeologico Nazionale d'Abruzzo Villa Frigerj	1933 = 1933 Images	Archaeology (Abruzzo)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Sulmona/ Polo museale del complesso monumentale dell'Annunziata	108 = 108 Images	Monument of Abruzzo	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Abruzzo/ Luoghi della Cultura statali e non statali	1810 = 1810 images	Monumental places of Abruzzo	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Potenza/ Galleria espositiva della Biblioteca Nazionale di Potenza	174 = 207 images	Gallery of the National Library of Potenza (Basilicata)	Italian	Images	PICO	Rights reserved, free access

CulturalItalia/Muse i-D Melfi/ Museo Archeologico Nazionale del Melfese "Massimo Pallotino"	24 = 25 images	Archaeology (Basilicata)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Melfi/ Museo Civico di Palazzo Donadoni	22 = 22 images	Local museum masterpieces (Basilicata)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Matera/ Museo Nazionale d'arte medievale e moderna della Basilicata	40 = 46 images	Medieval and modern art (Basilicata)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Altomonte/ Museo civico di Santa Maria della Consolazione	6 = 6 Images	Local museum (Calabria)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Castrovillari/ Museo Civico archeologico di Castrovillari	25 = 25 Images	Archaeology (Calabria)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Caraffa di Catanzaro/ Istituto della Cultura Arbereshe "Giuseppe Gangale"	3 = 3 Images	Ethnography (Arbereshe culture museum) (Calabria)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Cassano all'Ionio/ Museo diocesano d'Arte Sacra	40 = 40 Images	Holy art (Calabria)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Catanzaro/ Museo provinciale Rights cleared	387 = 387 Images	Local museum (Calabria)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Catanzaro/ Museo diocesano d'Arte Sacra	4 = 4 Images	Calabria	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Catanzaro/ Museo MARCA – Arte Moderna e Contemporanea di Catanzaro	4 = 4 Images	Holy art (Calabria)	Italian	Images	PICO	Rights reserved, free access

CulturalItalia/Muse i-D Cetraro/ Museo dei Bretti e del Mare	3 = 3 Images	Archaeology (Calabria)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Cosenza/ Museo dei Bretti e degli Enotri	502 = 502 Images	Archaeology (Calabria)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Cropani/ Antiquarium Comunale di Cropani	7 = 7 Images	Archaeology (Calabria)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Gerace/ Museo Civico Archeologico	10 = 10 Images	Archaeology (Calabria)	Italian	Images	PICO	Rights reserved, free access
Gerace/ Museo diocesano tesoro della cattedrale	57 = 57 Images	Holy Art (Calabria)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Isca sullo Ionio/ Museo degli strumenti e della musica popolare calabrese	3 = 3 Images	Music and music instruments (Calabria)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Guardavalle/ Museo Pietrarotta. Arti Mestieri Civiltà Contadina	3 = 3 Images	Rural life and art (Calabria)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Lamezia Terme/ Museo Archeologico di Lamezia Terme	13 = 13 Images	Archaeology (Calabria)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Lamezia Terme/ Museo Diocesano	101 = 101 Images	Holy art (Calabria)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Lamezia Terme - Sambiase/ EcoMuseo "Luogo della Memoria"	3 = 3 Images	EcoMuseum (Calabria)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Monterosso Calabro/ Museo della Civiltà contadina e artigiana della Calabria	180 = 180 Images	Rural life (Calabria)	Italian	Images	PICO	Rights reserved, free access

CulturalItalia/Musei-D Nicotera/ Museo diocesano d'arte sacra	3 = 3 Images	Holy art (Calabria)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Oppido Mamertina/ Museo diocesano	4 = 4 Images	Holy art (Calabria)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Palmi/ Pinacoteca Leonida e Albertina Repaci	72 = 72 Images	Picture gallery (Calabria)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Palmi/ Museo di etnografia e folklore "Raffaele Corso"	453 = 453 Images	Etnography and folklore (Calabria)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Reggio Calabria/ Fondazione piccolo Museo San Paolo	500 = 500 Images	Holy art (Calabria)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Reggio Calabria/ Museo diocesano	4 = 4 Images	Holy art (Calabria)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Rende/ Museo civico di Rende: Sezione folkloristica "R. Lombardi Satriani"	953 = 953 Images	Folklore (Calabria)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Rogliano/ Museo d'arte sacra San Giuseppe	95 = 95 Images	Holy art (Calabria)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Rossano/ Museo diocesano d'arte sacra	3 = 3 Images	Holy art (Calabria)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Santa Severina/ Museo diocesano d'arte sacra	7 = 7 Images	Holy art (Calabria)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Santa Severina/ Museo archeologico	7 = 7 Images	Archaeology	Italian	Images	PICO	Rights reserved, free access

CulturalItalia/Musei-D San Giovanni in Fiore/ Museo demologico dell'economia del lavoro e della storia sociale silana	227 = 227 Images	Labour and social history (Calabria)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D San Marco Argentano/ Museo diocesano	4 = 4 Images	Holy art (Calabria)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Sant'Andrea Apostolo dello Ionio/ Museo della Memoria	3 = 3 Images	Rural life (Calabria)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Saracena/ Museo di arte sacra	4 = 4 Images	Holy art (Calabria)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Simeri Crichi/ Antiquarium Comunale di Simeri Crichi	13 = 13 Images	Calabria	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Squillace/ Museo diocesano	2 = 2 Images	Holy art (Calabria)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Tiriolo/ Antiquarium Comunale di Tiriolo	15 = 15 Images	Archaeology	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Tortora/ Antiquarium Civico di Tortora	28 = 28 Images	Archaeology	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Tropea/ Museo diocesano	3 = 3 Images	Holy art (Calabria)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Reggio Calabria/ Museo Archeologico Nazionale	411 = 411 Images	Archaeology (Calabria)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Borgia/ Museo Archeologico di Scolacium	328 = 328 Images	Archaeology	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Cassano allo Ionio/ Museo Archeologico Nazionale della Sibaritide	226 = 226 Images	Archaeology	Italian	Images	PICO	Rights reserved, free access

CulturalItalia/Muse i-D Cosenza/ Galleria Nazionale	78 = 78 Images	Art (Calabria)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Crotone/ Museo Archeologico Nazionale di Crotone	186 = 186 Images	Archaeology	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Isola di Caporizzuto/ Museo Archeologico di Capo Colonna	7 = 7 Images	Archaeology	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Mileto/ Museo Statale	129 = 129 Images	Calabria	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Rende/ Museo Civico - Pinacoteca	29 = 29 Images	Picture gallery (Calabria)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Taverna/ Museo Civico	111 = 111 Images	Local museum (Calabria)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Vibo Valenzia/ Museo Archeologico Statale "Vito Capialbi"	293 = 293 Images	Archaeology	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Bacoli/ Museo Archeologico dei Campi Flegrei	630 = 648 images	Archaeology (Campania)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Boscoreale/ Antiquarium di Boscoreale	30 = 32 images	Archaeology (Campania)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Capaccio/ Museo Archeologico Nazionale di Paestum	361 = 361 images	Archaeology (Campania)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Caserta/ Reggia di Caserta	615 = 620 images	Monument Campania	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Cava de' Tirreni/ Complesso monumentale della Badia di Cava de' Tirreni	107 = 107 images	Monument Campania	Italian	Images	PICO	Rights reserved, free access

CulturalItalia/Musei-D Mercogliano/ Abbazia di Montevergine	178 = 215 images	Monument Campania	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Montella/ Complesso di San Francesco a Folloni	313 = 313 images	Monument Campania	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Napoli/ Museo Archeologico Nazionale di Napoli	1104 = 1381 images	Archaeology	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Napoli/ Museo di Capodimonte	999 = 1041 images	Modern and contemporary art Campania	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Napoli/ Palazzo Reale di Napoli	370 = 396 images	Monument Campania	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Nola/ Museo Storico Archeologico di Nola	265 = 265 images	Archaeology	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Piano di Sorrento/ Museo Archeologico Territoriale della Penisola Sorrentina Georges Vallet	30 = 31 images	Archaeology	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Salerno/ Museo Diocesano di Salerno	103 = 107 images	Holy art (Campania)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Napoli/ Banca dati "ReMuNa" – Rete dei Musei napoletani	10.000 = 10.000 Images	Art, history and archaeology (Campania)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Altavilla Irpina/ Museo Civico "Della gente senza storia"	221 = 221 Images	Local museum (Campania)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Andretta/ Museo della civiltà contadina ed artigiana	55 = 55 Images	Rural life (Campania)	Italian	Images	PICO	Rights reserved, free access

CulturalItalia/Museo i-D Aquilonia/ Museo Etnografico Beniamino Tartaglia	13 = 13 Images	Etnography (Campania)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Museo i-D Ariano Irpino / Museo Civico	37 = 37 Images	Local museum (Campania)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Museo i-D Avellino/ Museo Irpino	160 = 160 Images	Local museum (Campania)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Museo i-D Benevento/ Museo del Sannio	64 = 64 Images	Local museum (Campania)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Museo i-D Calitri/ Museo della Ceramica del Borgo Castello	99 = 99 Images	Ceramics (Campania)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Museo i-D Caserta/ Museo "Michelangelo"	69 = 69 Images	Science (Campania)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Museo i-D Caserta/ Museo Campano di Capua	60 = 60 Images	Campania	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Museo i-D Ischia/ Museo Diocesano di Ischia	30 = 30 Images	Holy art (Campania)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Museo i-D Montefusco/ Museo Lo Spielberg del Risorgimento meridionale	21 = 21 Images	History (Campania)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Museo i-D Montemarano / Museo dei Parati Sacri	112 = 112 Images	Holy art (Campania)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Museo i-D Morigerati/ Museo Etnografico	21 = 21 Images	Etnography (Campania)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Museo i-D Salerno/ Museo Archeologico Provinciale di Salerno	40 = 40 Images	Archaeology	Italian	Images	PICO	Rights reserved, free access

CulturalItalia/Muse i-D Napoli/ Complesso Museale dell'Augustissima Arciconfraternita ed Ospedali della SS.Trinità dei Pellegrini e dei Convalescenti	204 = 204 Images	Campania	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Napoli/ Complesso Museale di Santa Maria delle Anime del Purgatorio ad Arco	300 = 300 Images	Campania	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Napoli/ Museo "Plart Plastiche e Arte di Maria Pia Incutti-Paliotto"	30 = 30 Images	Campania	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Napoli/ Museo Civico di Castelnuovo	97 = 97 Images	Local museum (Campania)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Napoli/ Museo archivio/laboratorio per le arti contemporanee Herman Nitsch	159 = 159 Images	Contemporary art (Campania)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Napoli/ Museo del Tesoro di San Gennaro	17 = 17 Images	Campania	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Napoli/ Museo del Tessile Elena Aldobrandini	57 = 57 Images	Textil (Campania)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Napoli/ Pio Monte della Misericordia	218 = 218 Images	Campania	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Nocera Inferiore/ MUDIF – Museo Didattico della Fotografia	105 = 105 Images	Photography (Campania)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Pagani/ Museo Alfonsiano	60 = 60 Images	Campania	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Perdifumo / Museo Vichiano	34 = 34 Images	Campania	Italian	Images	PICO	Rights reserved, free access

CulturalItalia/Musei-D Salerno/ Pinacoteca Provinciale	36 = 36 Images	Picture gallery (Campania)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Sant'Angelo dei Lombardi/ Museo dell'Opera dell'Area Castello	31 = 31 Images	Campania	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Teggiano / Museo Diocesano San Pietro	82 = 82 Images	Holy art (Campania)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Terzigno/ Museo Emblema Terzigno	25 = 25 Images	Campania	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Torre del Greco/ Museo del Corallo	304 = 304 Images	Applied art (Campania)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Volturara/ Museo etnografico della Piana del Dragone	92 = 92 Images	Etnography (Campania)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Napoli/ Museo di Arte Sacra Contemporanea ARCA di Napoli	36 = 36 Images	Holy art (Campania)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Parma/ Museo Bodoniano	4000 = 4000 Images	Emilia-Romagna	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Cividale/ Museo Archeologico Nazionale	67 = 67 Images	Archaeology	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Aquila/ Museo Archeologico Nazionale	80 = 80 Images; 1 video	Archaeology	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Trieste/ Castello di Miramare	8 video	Monument (Friuli- Venezia Giulia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Acquapendente/ Museo del Fiore	4 = 4 Images; 1 video	Naturalistic museum (Lazio)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Aquino/ Museo della Città	12 = 12 Images	Local museum (Lazio)	Italian	Images	PICO	Rights reserved, free access

CulturalItalia/Muse i-D Arsoli/ Museo	4 = 5 Images	Local museum (Lazio)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Atina/ Museo archeologico della Valle di Comino	5 = 5 Images	Archaeology	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Ausonia/ Museo della Pietra	1 = 1 Images; 1 video	Lazio	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Bolsena/ Museo territoriale del lago di Bolsena	11 = 11 Images; 1 video	Local museum (Lazio)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Canepina/ Museo delle tradizioni popolari	5 = 6 Images	Folklore (Lazio)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Capranica Prenestina/ Museo naturalistico dei Monti Prenestini	4 = 4 Images; 1 video	Naturalistic museum (Lazio)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Castelnuovo di Farfa/ Museo dell'olio della Sabina	13 = 14 Images	Food (Lazio)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Cellere/ Museo del brigantaggio	15 = 17 Images	History (Lazio)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Colleferro/ Museo archeologico del territorio Toleriense	9 = 9 Images	Archaeology	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Cori/ Museo della Città e del territorio	9 = 10 Images	Local museum (Lazio)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Formello/ Museo dell'agro veientano	14 = 15 Images	Local museum (Lazio)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Grotte di Castro/ Museo Civita	6 = 6 Images	Lazio	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Itri/ Museo del brigantaggio	6 = 7 Images	History (Lazio)	Italian	Images	PICO	Rights reserved, free access

CulturaItalia/Museo i-D Latera/ Museo della Terra	11 = 11 Images; 2 video	Lazio	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Museo i-D Lubriano/ Museo naturalistico	3 = 4 Images	Naturalistic museum (Lazio)	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Museo i-D Monte Porzio Catone/ Museo della Città	9 = 9 Images	City museum (Lazio)	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Museo i-D Nepi/ Museo archeologico	9 = 9 Images	Archaeology (Lazio)	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Museo i-D Nazzano/ Museo del Fiume	4 = 4 Images; 1 video	Naturalistic museum (Lazio)	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Museo i-D Nettuno/ Antiquarium comunale	5 = 5 Images	Archaeology	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Museo i-D Pomezia/ Museo archeologico Lavinium	19 = 20 Images	Archaeology	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Museo i-D Priverno/ Museo archeologico – polo medievale	17 = 18 Images	Archaeology	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Museo i-D Rieti/ Museo civico	9 = 9 Images	Local museum (Lazio)	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Museo i-D Rocca di Cave/ Museo geopaleontologico "Ardito Desio"	4 = 4 Images; 1 video	Geo-paleontology (Lazio)	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Museo i-D Riofreddo/ Museo delle culture di Villa Garibaldi	5 = 6 Images	Ethnography (Lazio)	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Museo i-D Roma/ Museo Laboratorio della Mente	3 = 4 Images	Lazio	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Museo i-D Roma/ Museo civico di zoologia	4 = 4 Images; 1 video	Zoology (Lazio)	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Museo i-D Roma/ Ecomuseo del Litorale romano	3 = 3 Images; 1 video	Ecomuseum (Lazio)	Italian	Images	PICO	Rights reserved, free access

CulturalItalia/Muse i-D Rocca di Papa/ Museo geofisico	4 = 4 Images; 1 video	Geophysic (Lazio)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Roccagorga/ Ecomuseo dei Monti Lepini	1 = 1 Images; 1 video	Ecomuseum (Lazio)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Sabaudia/ Museo del mare e della costa "Marcello Zei"	4 = 4 Images; 1 video	Lazio	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Sant'Oreste/ Museo naturalistico del Monte Soratte	3 = 4 Images	Naturalistic museum (Lazio)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Segni/ Museo archeologico	19 = 20 Images	Archaeology	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Sezze/ Museo archeologico	10 = 10 Images	Archaeology	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Sora/ Museo della media Valle del Liri	9 = 10 Images	Lazio	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Tolfa/ Museo civico	5 = 5 Images	Local museum (Lazio)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Velletri/ Museo civico	5 = 5 Images	Local museum (Lazio)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Ventotene/ Museo della migrazione e Osservatorio ornitologico	4 = 4 Images; 1 video	<i>Ornithological Museum</i> (Lazio)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Veroli/ Museo dell'Abbazia di Casamari	10 = 10 Images	Lazio	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Roma/ Istituto Nazionale per la Grafica	3600 = 3600 Images	Graphics (Lazio)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Roma/ Galleria Borghese	1 video	Ancient and modern art (Lazio)	Italian	Images	PICO	Rights reserved, free access

CulturalItalia/Musei-D Roma/ Museo Nazionale di Castel Sant'Angelo	2100 =2100 Images; 1 video	Ancient and modern art (Lazio)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Roma/ Museo Nazionale degli strumenti musicali	1 video	Musical instruments (Lazio)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Roma/ Museo Nazionale del Palazzo di Venezia	1 video	Ancient and modern art (Lazio)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Roma/ Galleria Spada	1 video	Ancient and modern art (Lazio)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Roma/ Galleria Nazionale d'Arte Antica – Palazzo Barberini	1 video	Ancient art (Lazio)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Roma/ Galleria Nazionale d'Arte Antica – Palazzo Corsini	1 video	Ancient art (Lazio)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Roma/ Archivio fotografico di Palazzo Venezia – Polo Museale Romano	3850 =3850 Images	Art (Lazio)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Roma/ Istituto per la Storia del Risorgimento	500 = 500 Images	History (Lazio)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Roma/ Galleria d'Arte Moderna e Contemporanea	581 = 582 Images	Modern and contemporary art (Lazio)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Roma/ Museo Nazionale Preistorico Etnografico “Luigi Pigorini”	2044 = 2044 Images	Prehistory (Lazio)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Roma/ Museo Nazionale d'Arte orientale “Giuseppe Tucci”	1900 = 1900 Images	Oriental art (Lazio)	Italian	Images	PICO	Rights reserved, free access

CulturalItalia/Muse i-D Veroli/ Abbazia di Casamari	203 = 387 Images	Monument (Lazio)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Colleparado/ Abbazia di Trisulti	165 = 258 Images	Monument (Lazio)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Viterbo/ Abbazia di San Francesco	53 = 55 Images	Monument (Lazio)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Toscana/ Chiesa di Santa Maria Maggiore	148 = 216 Images	Monument (Lazio)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Toscana/ Chiesa di San Pietro	105 = 158 Images	Monument (Lazio)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Genova/ Banca dati DUILIOShip	600 = 650 Images	Naval science (Liguria)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Genova/ Museo di Palazzo Reale	50 = 50 Images	Liguria	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Genova/ Galleria Nazionale di Palazzo Spinola	50 = 50 Images	Art (Liguria)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Ventimiglia/ Museo preistorico dei Balzi Rossi	25 = 25 Images	Prehistory (Liguria)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Chiavari/ Museo preistoria e protostoria del Tigullio	25 = 25 Images	Prehistory (Liguria)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Luni - Ortonovo/ Museo archeologico nazionale di Luni	50 = 50 Images	Archaeology (Liguria)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Ventimiglia/ Area archeologica di Albintimilium e antiquarium	50 = 50 Images	Archaeology	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Liguria/ Luoghi della Cultura non statali	2100 = 2100 Images	Liguria	Italian	Images	PICO	Rights reserved, free access

CulturalItalia/Muse i-D Lovere/ Accademia Tadini	120 = 120 Images	Lombardia	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Chiari/ Fondazione Biblioteca Morcelli Repossi	288 = 288 Images	Lombardia	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Como/ Museo Archeologico Paolo Giovio	100 = 100 Images	Archaeology	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Como/ Pinacoteca Civica di Palazzo Volpi	100 = 100 Images	Picture gallery (Lombardia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Como/ Museo Didattico della Seta	942 = 942 Images	Textil - Silk (Lombardia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Pescarolo/ Museo del Lino	107 = 107 Images	Textil - Linen (Lombardia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Lecco/ Galleria Comunale	111 = 111 Images	Art (Lombardia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Buccinasco/ William Congdon Foundation	696 = 696 Images	Lombardia	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Milano/ Museo Archeologico	47 = 47 Images	Archaeology	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Milano/ Museo Astronomico di Brera	56 = 56 Images	Astronomy (Lombardia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Milano/ Poldi Pezzoli	316 = 316 Images	Art (Lombardia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D San Benedetto Po/ Museo Polironiano	160 = 160 Images	Lombardia	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Mantova/ Museo Civico Palazzo Te	564 = 564 Images	Lombardia	Italian	Images	PICO	Rights reserved, free access

CulturalItalia/Muse i-D Pavia/ Museo della Tecnica Elettrica	370 = 370 Images	Technical museum (Lombardia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Pavia/ Museo per La Storia dell'Università	395 = 395 Images	Lombardia	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Stradella/ Museo della Fisarmonica	61 = 61 Images	Music (Lombardia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Bergamo/ Accademia Carrara	378 = 378 Images	Lombardia	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Brescia/ Musei d'Arte e Storia	106 = 106 Images	Art and History (Lombardia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Cinisello Balsamo/ Museo Fotografia Contemporanea	190 = 190 Images	Photography (Lombardia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Milano/ Civica Raccolta Stampe Bertarelli	99 = 99 Images	Printing (Lombardia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Milano/ Civiche Raccolte Artistiche del Castello	52 = 52 Images	Art (Lombardia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Milano/ Civico Archivio Fotografico	188 = 188 Images	Photography (Lombardia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Milano/ Museo del Novecento	203 = 203 Images	Lombardia	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Milano/ Casa Museo Boschi Di Stefano	83 = 83 Images	Lombardia	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Milano/ Raccolte Extraeuropee	168 = 168 Images	Lombardia	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Milano/ Villa Necchi Campiglio	54 = 54 Images	Lombardia	Italian	Images	PICO	Rights reserved, free access

CulturalItalia/Muse i-D Milano/ Museo Nazionale della Scienza e della Tecnologia	645 = 645 Images	Science and technology (Lombardia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Sondrio/ Museo Valtellinese di Storia e Arte	107 = 107 Images	Lombardia	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Gallarate/ MAGA Galleria Arte Moderna Contemporanea	97 = 97 Images	Modern and contemporary art (Lombardia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Castelseprio/ Antiquarium e Parco Archeologico di Castelseprio	66 = 66 Images	Archaeology	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Castelseprio/ Santa Maria Foris Portas - Battistero	18 = 18 Images	Monument (Lombardia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Certosa di Pavia/ Certosa e Museo	294 = 294 Images	Lombardia	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Cividate Camuno/ Museo Archeologico Nazionale della Valle Camonica	118 = 118 Images	Archaeology (Lombardia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Desenzano del Garda/ Antiquarium della Villa Romana	293 = 293 Images	Archaeology (Lombardia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Gornate Olona/ Cascina Monastero	21 = 21 Images	Lombardia	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Mantova/ Museo Archeologico Nazionale	68 = 68 Images	Archaeology	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Mantova/ Palazzo Ducale	59 = 59 Images	Lombardia	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Milano/ Antiquarium Alda Levi	141 = 141 Images	Archaeology (Lombardia)	Italian	Images	PICO	Rights reserved, free access

CulturalItalia/Musei-D Milano/ Pinacoteca di Brera	104 = 104 Images	Picture gallery (Lombardia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Sirmione/ Museo Archeologico delle Grotte di Catullo	62 = 62 Images	Archaeology (Lombardia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Sepino-Altivia/ Museo archeologico di Sepino - Altivia	70 = 107 Images	Archaeology (Molise)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Campobasso/ Museo Sannitico di Campobasso, Palazzo Mazzarotta	1083 = 1325 Images	Archaeology (Molise)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Larino/ Area archeologica - Anfiteatro di Larino	5 = 16 Images	Archaeology (Molise)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Pietrabbondante/ Area archeologica di Pietrabbondante	5 = 21 Images	Archaeology (Molise)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Venafro/ Museo archeologico di Venafro, Complesso monumentale di Santa Chiara	20 = 21 Images	Archaeology (Molise)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Roccavivara/ Santa Maria del Canneto	1 = 14 Images	Molise	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D San Giovanni in Galdo/ Santa Maria del Canneto	1 = 24 Images	Molise	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D San Vincenzo al Volturno/ Sito archeologico di San Vincenzo al Volturno	1 = 20 Images	Archaeology	Italian	Images	PICO	Rights reserved, free access

CulturalItalia/Muse i-D Ascoli Piceno/ Polo Museale di S. Francesco di Montefiore dell'Aso	711 = 1597 Images	Marche	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Ascoli Piceno/ Centro di documentazione della tradizione orale del Piceno	1482 = 1482 Images	Marche	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Matelica/ Museo Archeologico - Mostra "Potere e Splendore. Gli antichi piceni a Matelica"	650 = 731 Images	Archaeology	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Macerata/ Museo della Carrozza - Raccolte di arte antica e moderna	2169 = 3813 Images	Ancient and modern art (Marche)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Urbisaglia, Sassoferrato, Castelleone di Suasa, San Severino Marche, Cupra Marittima, Fossombrone/ Parchi archeologici e territorio regionale	3000 = 3000 Images	Archaeology	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Ancona/ Archivio degli interventi di restauro post sistema Marche- Umbria 1997	1370 = 1370 Images	Restoration (Marche)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Urbino/ Galleria Nazionale delle Marche	100 = 274 Images	Art gallery (Marche)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Urbino/ Museo diocesano "Albani"	22 = 25 Images	Marche	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Urbino/ Museo "Casa Raffaello"	2 = 2 Images	Marche	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Urbino/ Oratorio di San Giovanni	31 = 31 Images	Marche	Italian	Images	PICO	Rights reserved, free access

CulturalItalia/Muse i-D Fano/ Museo Civico Archeologico	16 = 16 Images	Archaeology (Marche)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Macerata/ Palazzo Buonaccorsi	77 = 77 Images	Marche	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Matelica/ Palazzo Finaguerra	15 = 33 Images	Marche	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Urbino/ Palazzo della Biblioteca	100 = 175 Images	Marche	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Torino/ Palazzo Reale	48 = 48 Images	Piemonte	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Torino/ Armeria Reale	26 = 26 Images	Piemonte	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Torino/ Galleria Sabauda	30 = 30 Images	Art (Piemonte)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Torino/ Museo di Antichità	22 = 50 Images	Archaeology	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Torino/ Villa della Regina	9 = 9 Images	Piemonte	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Moncalieri/ Castello di Moncalieri	21 = 21 Images	Monument (Piemonte)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Racconigi/ Castello reale di Racconigi	10 = 10 Images; 4 video	Monument (Piemonte)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Agliè/ Castello ducale di Agliè	27 = 27 Images	Monument (Piemonte)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Torino/ Archivio fotografico Soprintendenza: Torino, Asti, Biella, Cuneo, Vercelli	1660 = 1660 Images	Architecture (Piemonte)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Altamura/ Museo archeologico di Altamura	1100 = 1100 Images	Archaeology	Italian	Images	PICO	Rights reserved, free access

CulturalItalia/Muse i-D Egnazia/ Museo archeologico di Egnazia	3600 = 3600 Images	Archaeology	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Taranto/ Museo archeologico di Taranto	4100 = 4100 Images	Archaeology	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Altamura/ Museo Civico	38 = 38 Images	Local museum (Puglia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Barletta/ Pinacoteca De Nittis	130 = 130 Images	Picture gallery (Puglia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Bisceglie/ Museo Diocesano	182 = 182 Images	Holy art (Puglia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Galatina/ Museo Civico Pietro Cavoti	213 = 213 Images	Local museum (Puglia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Gallipoli/ Museo Civico	91 = 91 Images	Local museum (Puglia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Gravina in Puglia/ Museo Pomarici Santomasi	241 = 241 Images	Puglia	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Lucera/ Museo Civico	276 = 276 Images	Local museum (Puglia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Orsara di Puglia/ Diocesano	75 = 75 Images	Holy art (Puglia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Putignano/ Museo Civico	487 = 487 Images	Local museum (Puglia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Terlizzi/ Pinacoteca Michele De Napoli	143 = 143 Images	Picture Gallery (Puglia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Troia/ Museo Civico	249 = 249 Images	Local museum (Puglia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Cagliari/ Pinacoteca Nazionale	18 = 18 Images	Sardegna	Italian	Images	PICO	Rights reserved, free access

CulturaItalia/Musei-D Cagliari/ Museo Archeologico Nazionale di Cagliari	35 = 35 Images	Archaeology	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Musei-D Sassari/ Mus'a Pinacoteca al Canopoleno	17 = 17 Images	Picture gallery (Sardegna)	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Musei-D Sassari/ Museo Nazionale Archeologico ed Etnografico "Giovanni Sanna"	64 = 64 Images	Archaeology / Etnography	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Musei-D Isola Caprera – La Maddalena/ Compendio Garibaldino di Caprera	19 = 19 Images	History (Sardegna)	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Musei-D Palermo/ Complesso monumentale dello Spasimo	25 = 25 Images	Monument (Sicilia)	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Musei-D Palermo/ Galleria d'Arte Moderna	25 = 25 Images	Modern art (Sicilia)	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Musei-D Palermo/ Museo d'Arte e Archeologia - Fondazione "Ignazio Mormino"	25 = 25 Images	Archaeology/Art	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Musei-D Palermo/ Museo etnografico siciliano "Giuseppe Pitrè"	25 = 25 Images	Etnography (Sicilia)	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Musei-D Palermo/ Museo Internazionale delle Marionette "Antonio Pasqualino"	25 = 25 Images	Theatre (Sicilia)	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Musei-D Palermo/ Museo di paleontologia e geologia "Gaetano Giorgio Gemmellaro"	25 = 25 Images	Palaeontology and geology (Sicilia)	Italian	Images	PICO	Rights reserved, free access

CulturaItalia/Musei-D Palermo/ Museo del Risorgimento "Vittorio Emanuele Orlando"	25 = 25 Images	History (Sicilia)	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Musei-D Palermo/ Museo di Zoologia "Pietro Doderlein"	25 = 25 Images	Zoology (Sicilia)	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Musei-D Palermo/ Villa Niscemi	25 = 25 Images	Sicilia	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Musei-D Palermo/ Bagheria - Galleria di arte moderna e contemporanea "Renato Guttuso"	25 = 25 Images	Modern and contemporary art (Sicilia)	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Musei-D Palermo/ Bagheria - Museo del Giocattolo "Pietro Piraino"	25 = 25 Images	Toys (Sicilia)	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Musei-D Palermo/ Castelbuono - Museo Naturalistico "Francesco Minà Palumbo"	25 = 25 Images	Naturalistic museum (Sicilia)	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Musei-D Palermo/ Cefalù - Museo Mandalisca	25 = 25 Images	Sicilia	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Musei-D Palermo/ Corleone - Real Casina di Caccia di Ficuzza	25 = 25 Images	Sicilia	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Musei-D Palermo/ Polizzi Generosa - Museo ambientalistico madonita	25 = 25 Images	Naturalistic museum (Sicilia)	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Musei-D Agrigento/ Museo Civico Santo Spirito	25 = 25 Images	Sicilia	Italian	Images	PICO	Rights reserved, free access

CulturalItalia/Musei-D Agrigento/ Burgio - Museo della Ceramica di Burgio	25 = 25 Images	Ceramics (Sicilia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Agrigento/ Santa Margherita di Belice - Parco-Museo Letterario del Gattopardo	25 = 25 Images	Litterature (Sicilia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Agrigento/ Santa Margherita di Belice - Museo della Memoria	25 = 25 Images	Sicilia	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Agrigento/ Sciacca - Casa Museo "Francesco Scaglione"	25 = 25 Images	Sicilia	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Caltanissetta/ Museo Mineralogico e Paleontologico delle Zolfare	25 = 25 Images	Mineralogy and palaeontology (Sicilia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Caltanissetta/ Marianopoli - Museo Etnografico della civiltà contadina	25 = 25 Images	Etnography (Sicilia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Catania/ Museo civico Belliniano	25 = 25 Images	Local museum (Sicilia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Catania/ Museo civico Castello Ursino	25 = 25 Images	Local museum (Sicilia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Catania/ Museo Paleontologico Accademia Federiciana	25 = 25 Images	Palaeontology (Sicilia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Catania/ Bronte - Ducea di Nelson	25 = 25 Images	Sicilia	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Catania/ Mineo - Casa Museo "Luigi Capuana"	25 = 25 Images	Sicilia	Italian	Images	PICO	Rights reserved, free access

CulturaItalia/Muse i-D Catania/ Randazzo - Museo Archeologico "Paolo Vagliasindi"	25 = 25 Images	Archaeology (Sicilia)	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Muse i-D Enna/ Barrafranca - Museo Bellico "Belli Instrumentum"	25 = 25 Images	War (Sicilia)	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Muse i-D Enna/ Piazza Armerina - Mostra Permanente della Civiltà Mineraria	25 = 25 Images	Mine culture (Sicilia)	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Muse i-D Enna/ Piazza Armerina - Museo della Civiltà Contadina	25 = 25 Images	Rural life (Sicilia)	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Muse i-D Enna/ Sperlinga - Museo della Civiltà Contadina e Grotte Museo	25 = 25 Images	Rural life (Sicilia)	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Muse i-D Enna/ Villapriolo - Case Museo	25 = 25 Images	Sicilia	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Muse i-D Enna/ Villarosa - Museo della Memoria - Usi e Costumi del Centro Sicilia	25 = 25 Images	Local culture (Sicilia)	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Muse i-D Enna/ Villarosa - Treno Museo dell'Arte Mineraria e della Civiltà Contadina	25 = 25 Images	Mine and rural cultures (Sicilia)	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Muse i-D Messina/ Capo d'Orlando - Fondazione Famiglia Piccolo di Calanovella	25 = 25 Images	Sicilia	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Muse i-D Ragusa/ Modica - Museo Civico Archeologico "Franco Libero Belgiorno"	25 = 25 Images	Archaeology	Italian	Images	PICO	Rights reserved, free access

CulturalItalia/Muse i-D Ragusa/ Modica - Museo Ibleo delle Arti e Tradizioni Popolari "Serafino Amabile Guastella"	25 = 25 Images	Rural life (Sicilia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Ragusa/ Vittoria - Castello di Donnafugata	25 = 25 Images	Sicilia	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Siracusa/ Museo del Papiro	25 = 25 Images	Papyrus (Sicilia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Siracusa/ Buscemi - I luoghi del lavoro contadino	25 = 25 Images	Rural life (Sicilia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Trapani/ Castelvetrano - Museo Civico	25 = 25 Images	Local museum (Sicilia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Trapani/ Erice - Castello di Venere	25 = 25 Images	Sicilia	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Trapani/ Erice - Museo Civico "Antonio Cordici"	25 = 25 Images	Local museum (Sicilia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Trapani/ Gibellina - Museo Civico d'Arte Contemporanea"	25 = 25 Images	Contemporary art (Sicilia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Trapani/ Gibellina - Museo delle Trame del Mediterraneo	25 = 25 Images	Sicilia	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Trapani/ Mazara del Vallo - Museo Civico	25 = 25 Images	Local museum (Sicilia)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Trapani/ Paceco - Museo del sale	25 = 25 Images	Sicilia	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Trapani/ Salemi - Museo Civico	25 = 25 Images	Local museum (Sicilia)	Italian	Images	PICO	Rights reserved, free access

CulturalItalia/Muse i-D Firenze/ Galleria degli Uffizi	151 = 272 Images	Ancient and modern art (Toscana)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Firenze/ Galleria dell'Accademia	58 = 62 Images	Ancient and modern art (Toscana)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Firenze/ Museo Nazionale del Bargello	61 = 73 Images	Art (Toscana)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Firenze/ Galleria Palatina	61 = 73 Images	Art (Toscana)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Firenze/ Galleria del Costume	19 = 19 Images	Textile (Toscana)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Firenze/ Museo degli Argenti	1310 = 2001 Images	Silver (Toscana)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Firenze/ Galleria d'Arte Moderna	39 = 71 Images	Modern art (Toscana)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Firenze/ Museo delle Porcellane	4 = 5 Images	Ceramics (Toscana)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Firenze/ Giardino di Boboli	19 = 19 Images	Toscana	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Firenze/ Museo di San Marco	31 = 46 Images	Toscana	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Firenze/ Museo delle Cappelle Medicee	9 = 32 Images	Toscana	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Firenze/ Museo del Cenacolo di Sant'Apollonia	7 = 7 Images	Toscana	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Firenze/ Museo di Palazzo Davanzati	12 = 12 Images	Toscana	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Firenze/ Museo di Casa Martelli	17 = 21 Images	Toscana	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Firenze/ Chiesa di Orsanmichele	3 = 3 Images	Toscana	Italian	Images	PICO	Rights reserved, free access

CulturalItalia/Musei-D Firenze/ Chiostrò dello Scalzo	14 = 14 Images	Toscana	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Firenze/ Museo del Cenacolo di Ognissanti	1 = 1 Images	Toscana	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Firenze/ Museo del Cenacolo di Andrea del Sarto	7 = 7 Images	Toscana	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Poggio a Caiano/ Museo della Natura Morta	41 = 41 Images	Toscana	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Sesto Fiorentino/ Villa Medicea della Petraia	7 = 9 Images	Toscana	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Firenze/ Museo dell'Opera del Duomo	4 = 6 Images	Toscana	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Firenze/ Museo di Storia Naturale, Istituto di Mineralogia e Petrografia	16 = 16 Images	Natural history (Toscana)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Firenze/ Museo di Zoologia, La Specola	7 = 7 Images	Zoology (Toscana)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Firenze/ Museo Archeologico Nazionale	179 = 179 Images	Archaeology (Toscana)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Firenze/ Museo Archeologico Nazionale – Collezione Egizia	70 = 70 Images	Archaeology (Egyptian)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Firenze/ MUDI Museo degli Innocenti	180 = 180 Images	Toscana	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Firenze/ Opificio delle Pietre Dure	26 = 26 Images	Toscana	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Musei-D Fiesole/ Museo Archeologico	70 = 70 Images	Archaeology	Italian	Images	PICO	Rights reserved, free access

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CulturalItalia/Muse i-D Livorno/ Museo civico Giovanni Fattori	100 = 100 Images	Local museum (Toscana)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Livorno/ Museo civico Fattori, Collezione cimeli garibaldini	20 = 20 Images	History (Toscana)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Cortona/ Museo dell'Accademia Etrusca e della città e Parco archeologico di Cortona	50 = 50 Images; 3 video	Archaeology (Toscana)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Pistoia/ Museo Civico	35 = 35 Images	Local museum (Toscana)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Pistoia/ Palazzo Fabroni – Arti visive contemporanee	50 = 50 Images; 5 video	Contemporary art (Toscana)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Pistoia/ Casa Studio Fernando Melani	20 = 20 Images	Toscana	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Prato/ Museo del tessuto	80 = 80 Images	Toscana	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Castelfiorentino/ BEGO	94 = 94 Images	Toscana	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Sansepolcro/ Museo Civico	200 = 200 Images	Local museum (Toscana)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Siena/ Pinacoteca nazionale	43 = 43 Images	Picture gallery (Toscana)	Italian	Images	PICO	Rights reserved, free access
CulturalItalia/Muse i-D Siena/ Villa Brandi a Vignano	11 = 11 Images	Toscana	Italian	Images	PICO	Rights reserved, free access

CulturaItalia/Musei-D Lucca/ Museo nazionale di Palazzo Mansi	1208 = 1208 Images	Toscana	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Musei-D Lucca/ Museo nazionale di Palazzo Guinigi	525 = 525 Images	Toscana	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Musei-D Pisa/ Museo nazionale di S. Matteo	100 = 100 Images	Toscana	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Musei-D Pisa/ Museo nazionale di Palazzo Reale	20 = 20 Images	Toscana	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Musei-D Calci/ Museo nazionale della Certosa	150 = 150 Images	Toscana	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Musei-D Perugia/ Fototeca regionale	11.160 = 11.160 Images	Umbria	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Musei-D Perugia/ Galleria Nazionale dell'Umbria	1.500 = 1.500 Images	Umbria	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Musei-D San Giustino/ Castello Bufalini	800 = 800 Images	Umbria	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Musei-D Venezia/ Museo Archeologico Nazionale di Venezia	200 = 200 Images	Archaeology (Veneto)	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Musei-D Venezia/ Museo di Palazzo Grimani	650 = 650 Images	Veneto	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Musei-D Veneto/ Banca dati Regione Veneto	25.080 = 25.080 Images	Veneto	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Musei-D Archivio Storico delle Arti contemporanee	124,072	Cinema	Italian	Images	PICO	Rights reserved, free access
Cultura Italia/Internet Culturale	693,312	Library material from National Libraries	Italian	Images/texts	PICO	Rights reserved, free access
CulturaItalia/Internet Culturale (DR Piemonte)	46,000	Library material	Italian	Images/texts	PICO	Rights reserved, free access

CulturaItalia/ Regione Emilia- Romagna	41,356	Art, archaeology, etc.	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/ Accademia nazionale S. Cecilia	20,579	music	Italian	Images/audi o	PICO	Rights reserved, free access
CulturaItalia/ Istituto centrale per la Storia del Risorgimento	20,065	History	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/ Indire DIA	19,309	Immagini per la didattica	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/ Biblioteca del Senato	98,568	Library material	Italian	Images/texts	PICO	Rights reserved, free access
CulturaItalia/Red azione	4,678		Italian	Images	PICO	Rights reserved, free access
CulturaItalia/ Galleria Nazionale d'arte moderna	990	Modern and contemporary art	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/ Università di Bologna	196	Museum objects	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/ DR Lombardia	2,017	Museum objects	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/ Fotosar	10000	Archaeology	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/ Regione Calabria	20000	Museum objects	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/ Regione Lombardia	31580	Museum objects	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/ Regione Piemonte	78180	Museum objects	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/ Regione Veneto	16859	Museum objects	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/ Istituto nazionale per la grafica	51081	Graphics	Italian	Images	PICO	Rights reserved, free access
CulturaItalia/Inter net culturale	3000 manuscripts = 16.000 pages	Manoscritti musicali	Italian	Y	Y	Right reserved – free access
CulturaItalia/inter net culturale	441 periodicals = 205.000 images	Periodici storici	Italian	Y	Y	Right reserved – free access
BNCRM	3968 photo = 4.505 images	Archivio fotografico Ceccarius Roma	Italian	Y	N	Right reserved – free access
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BNCRM	5000 manuscripts =16.200 pages	Biblioteca nonantolana virtuale	Latin	Y	N	Right reserved – free access
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BNCRM	10 objects = 20 images	Fondo d'Annunzio - oggetti	Italian	Y	Y	Right reserved – free access
BNCRM	531 scores = 120.000 pages;	Fondo Siciliani - partiture	Italian	Y	Y	Right reserved – free access
BNCRM	5.000 records = 10.000 mp3	Fondo Siciliani – dischi in vinile	Italian	Y	N	Right reserved – free access
BNCRM	104.550 issues = 1.297.000 pages;	Giornali	Italian	Y	N	Right reserved – free access
BNCRM	352 issues = 24.282 pages	Settimanali	Italian	Y	N	Right reserved – free access
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ILS	Images – photograph posters anni '40-'90 37.000	Political action of Christian democratic movement, people and parties in Europe	Italian	Tif 300 Tif 800 Jpeg 300 Jpeg 72	ISAD (G)	Rights reserved – free access
ILS	Books and periodical 178.885	Political action of Christian democratic movement, people and parties in Europe	Italian English	Tiff 300 Jpeg 300 PDF	MAG	Rights reserved – free access
ILS	Archival documents 32.095	Political action of Christian democratic movement, people and parties in Europe	Italian	Tiff 300 Jpeg 300	ISAD (G)	Rights reserved – free access
ILS	Audio video files, 230 audio, 260 video	Political action of Christian democratic movement, people and parties in Europe	Italian	Beta digital, file ASF, DVD	ISAD (G)	Rights reserved – free access
The National History Museum of Latvia	1000 different museum items	Description and images of items from Museum Collections: paintings, drawings, prints, and designs, archaeological objects, jewellery, sculpture, photography, clothing, tools, artefacts, pottery, furniture, etc.	Latvian	description (metadata), JPG, PDF	LIDO	Rights cleared
The Latvian National Museum of Art	1000 museum items (art)	Description and images of items from Museum Collections: paintings, drawings, sculpture, etc	Latvian	description (metadata), JPG, PDF	LIDO	Rights cleared
The Natural History Museum of Latvia	1000 museum items (nature)	Description and images of items from Museum Collections: nature objects	Latvian	description (metadata), JPG, PDF	LIDO	Rights cleared

The Museum of the History of Riga and Navigation	1000 different museum items	Description and images of items from Museum Collections: paintings, drawings, prints, and designs, archaeological objects, jewellery, sculpture, photography, clothing, tools, artefacts, pottery, furniture, etc.	Latvian	description (metadata), JPG, PDF	LIDO	Rights cleared
Madona Local History and Art Museum	1000 different museum items	Description and images of items from Museum Collections: paintings, drawings, prints, and designs, archaeological objects, jewellery, sculpture, photography, clothing, tools, artefacts, pottery, furniture, etc.	Latvian	description (metadata), JPG, PDF	LIDO	Rights cleared
Lithuanian Art Museum	10 000 images	Visual arts, applied arts, folk-art	Lithuanian	JPEG	ESE (EDM)	Rights cleared
ŠAM	10 000 images	Digitized archaeology, visual arts, applied arts, folk art, photographic prints, photographic negatives	Lithuanian	JPEG	ESE (EDM)	Rights cleared
ICIMSS	30000 photographs	architecture, landscape and art of Poland; old postcards and photographs	n/a	digital photographs , scans	Dublin Core	Rights reserved – free access
Small Polish museums	5000 photographs	collection of a given museum	Polish	digital photographs , scans of objects	to be determined	Rights reserved – free access
INP/CIMEC	min. 20,000 images	listed museum objects	Romanian	jpg	custom, LIDO	Rights cleared
INP/CIMEC	min. 20,000 page images (50 vol.)	medieval manuscripts	Latin, German	jpg	MARC, LIDO	Rights cleared
INP/CIMEC	min. 20,000 page images (30 vol.)	classical archaeological literature	Romanian, French	jpg	custom, LIDO	Rights cleared
INP/CIMEC	min. 5,000 page images (100 issues, i.e. 1,000 articles)	museum serial publications	Romanian	jpg	custom, LIDO	Rights cleared
INP/CIMEC various museums	min. 10,000 images	museum objects	Romanian	jpg	custom, LIDO	Rights cleared
BAR	500 Engravings	Italian Engravings XV- XIX Century	Romanian	Partly digitized jpg, 72-150dpi	Partly available, UNIMARC	Rights cleared
BAR	2000 Drawings	Romanian Drawings from Tonitza and Palady Collection - 20th Century	Romanian	Partly digitized jpg, 72-150 dpi	Partly available, UNIMARC	Rights cleared
BAR	6000 Photographs	Romanian Photos end 19th – 20th C.	Romanian	Partly digitized jpg, 72-150 dpi	Partly available, UNIMARC	Rights cleared

BAR	600 Coins and Engraved Stones	Coins(Greek, Roman Transylvanian) from ancient to medieval period and engraved Stones	Romanian	Partly digitized jpg, 72-150 dpi	Partly available,	Rights cleared
BAR	4 Audio -Video items (60 frames)	4 films presenting the Numismatic Collections of BAR within their historical context	Romanian	AUDIO-video API	Available	Rights cleared
BAR	2 rare numismatic Albums 650 pages	XIX – beginning XX century numismatic albums	Romanian	Partly digitized jpg 72-150 dpi	Partly available	Rights cleared
IPCHS, Ministry of Culture of RS	10.000 photographs	Register of architectural and archaeological cultural heritage of Slovenia.	SI	JPG	Dublin Core	Free for non-commercial use
IPCHS	10.000 articles and photos	Preservation of Slovenian monuments.	SI	JPG, PDF	Dublin Core	Free for non-commercial use
IPCHS, Slovene Museum of Natural History	19 volumes 235 papers 3018 pages	Acta entomologica Slovenica. Entomological scientific journal.	SI, EN	PDF	Partly available in Dublin Core	CC BY-NC-NO
IPCHS, Slovene Museum of Natural History	74 volumes, 74 papers 5037 pages	Scopolia Monographic scientific journal covering natural history.	SI, EN	PDF	Partly available in Dublin Core	CC BY-NC-NO
IPCHS, Slovene Museum of Natural History	8 volumes, 131 papers 1425 pages	Illiesia Monographic scientific journal covering Stoneflies (Plecoptera).	SI, EN	PDF	Partly available in Dublin Core	CC BY-NC-NO
IPCHS, Slovene Museum of Natural History	1800 pictures	Collection of minerals, ores and rocks of Marjan Dolenc	SI, EN	JPG	Partly available in Dublin Core	CC BY-NC-NO
IPCHS, Slovene Museum of Natural History	400 pictures	Geological collection of A. Bianchi	SI, EN	JPG	Partly available in Dublin Core	CC BY-NC-NO
IPCHS, Slovene ethnographic museum	5989 Pictures	Ethnographic collection	SI, EN	JPG	Partly available in Dublin Core	CC BY-NC-NO
IPCHS, National museum of Slovenia	1000 pictures	Situla art, Early Iron Age Images from Slovenia	SI	JPG	No	Free for non-commercial use
IPCHS, Carinthian regional museum	104 pictures	Modern art collection of T.Pinter	SI	JPG	No	Free for non-commercial use
IPCHS, Carinthian regional museum	150 pictures	Čarf Collection of Painted Beehive Panels	SI	JPG	No	Free for non-commercial use
IPCHS, Carinthian regional museum	32 pictures	Roman stones	SI	JPG	No	Free for non-commercial use

IPCHS, National and university library of Slovenia	15 3D objects	City museum of Ljubljana: Virtual Emona Collection.	SI	PDF	Dublin Core xml in Slovenian language	cleared
IPCHS, National and university library of Slovenia	Cca 800 printed music	Slovenian Music Information Centre: Glasbena matica editions 1872-1944.	SI	JPG, PDF	Dublin Core xml in Slovenian language	cleared
IPCHS, National and university library of Slovenia	729 images	Art collection (Artoteka): Koroška osrednja knjižnica dr. Franca Sušnika.	SI	JPG, PDF	Dublin Core xml in Slovenian language	cleared
IPCHS, National and university library of Slovenia	604 photographs	Digital library of Slovenia: Photograph archiv of Jovan Vesel.	SI	JPG, PDF	Dublin Core xml in Slovenian language	cleared
IPCHS, National and university library of Slovenia	23.110 issues	Digital library of Slovenia: Slovenski narod (1868-1945).	SI	JPG, PDF	Dublin Core xml in Slovenian language	cleared
IPCHS, National and university library of Slovenia	20.961 issues	Digital library of Slovenia: Slovenec (1873-1945).	SI	JPG, PDF	Dublin Core xml in Slovenian language	cleared
DGPC	200 book =10000 p.	Architecture	Catalan	PDF	Yes	Rights cleared
DGPC	600 panoramic photography	Architecture/Archaeology/Museum	Catalan	TIFF and JPEG	Yes	Rights cleared
DGPC	5000	Architecture/Archaeology/Museum	Catalan	TIFF and JPEG	Yes	Rights cleared
CPCPTC	100 audio files	Popular songs (intangible heritage)	Catalan	Mp3	Yes	Rights cleared
ANC	15.000 drawings and plans	Modernisme (Art Nouveau, etc)	Catalan	TIFF and JPEG	Yes	Rights cleared
ANC	15000 pages	Modernisme (Art Nouveau, etc)	Catalan	TIFF and JPEG	Yes	Rights cleared
ANC	296 Manuscripts =286000 p	Political and military relations in Europe in the XV-XVII century	Catalan		Yes	Rights cleared
ANC	100 Cartography	Political and military relations in Europe in the XV-XVII century	Catalan	TIFF and JPEG	Yes	Rights cleared
ANC	300 legal regulations	Political and military relations in Europe in the XV-XVII century	Catalan	TIFF and JPEG	Yes	Rights cleared
Ceramic Museum	1974 images	Ceramic	Catalan	JEPG	Yes	Rights cleared
Music Museum	243 images	Music	Catalan	JEPG	Yes	Rights cleared
Ethnology Museum	27.567 images	Ethnology	Catalan	JEPG	Yes	Rights cleared
Marès Museum	2089 images	Sculpture	Catalan	JEPG	Yes	Rights cleared
Picasso Museum	2726 images	Art	Catalan	JEPG	Yes	Rights cleared
SGDAP	1.170 Films = 140 hours	Documentary, Fiction	No sound, Spanish, Catalan	Digital Betacam	NODAC – ISAD(G) Catalan	Rights cleared
SGDAP	7.000 Video files = 2.200 hours	Television, Documentary	Catalan	AVI	NODAC – ISAD(G) Catalan	Rights cleared
SGDAP	3.000 Audio files = 1.200 hours	Radio	Catalan, Spanish	WAV	NODAC – ISAD(G) Catalan	Rights cleared

SGDAP	5.682 historical records and 843 books = 645.699 pages	Middle-Age and Modern Records Mail	Latin, Catalan, Spanish	TIFF, JPEG	NODAC – ISAD(G) Catalan	Rights cleared
SGDAP	1.592 Posters	Graphism Advertisements	Catalan, Spanish	TIFF, JPEG	NODAC – ISAD(G) Catalan	Rights cleared
SGDAP	60.831 newspapers = 1.706.785 pages	News	Catalan, Spanish	TIFF, PDF	Own descriptive model Catalan	Rights cleared
Cinema Museum	5.000 Museum objects 20.000 Records	Cinema	None	TIFF	Own descriptive model Catalan	Rights cleared
SGDAP	300.000 Photographs	Photojournalism, Documentary	None	TIFF, JPEG	NODAC – ISAD(G) SEPIADES Catalan	Rights cleared
The Authority of three museums: Royal Armoury, Skokloster Castle and The Hallwyl Museum	66.129 objects and 19.050 books (the complete collection), of which approximately 28.000 object records with pictures	Royal Armoury, Skokloster Castle and The Hallwyl Museum includes 85179 objects and books. In the collection database there is the information about the collections of the museums and about the persons who made, owned and used the objects. Furthermore, there are approximately 800 historical events registered that links information about objects and people.	Swedish	Metadata format according to the SOCH:s protocol. Images by agreement.	There is metadata for objects, persons and historical events. Standards are according to SOCH (CIDOC-CRM) LIDO is possible in agreement with The National Heritage Board (SOCH).	Rights cleared
National Museum	Approximately 126.000 object records, of which approximately 65.000 object record with one or more pictures.	National museum collections, such as painting, applied arts, drawings and more	Mostly Swedish but some information exists for some object records in Swedish and English, such as title, materials and so on.	All information is momentarily stored in an SQL database and is accessed via MuseumPlu s	National museum is planning to provide the data both in LIDO and SOCH format, so that the metadata will be according to either of those formats.	Rights cleared
CT	c20.000 objects and other material	Ashmolean Museum, University of Oxford: Middle East and general collections, part of a nationally recognised collection.	English (where relevant)	JPEG	Internal systems in English	Rights cleared
CT	c2.000 objects and archival material	Horninman Museum, London: Natural history; archival material; and a nationally recognised collection of musical instruments.	English (where relevant)	JPEG	Internal systems in English	Rights cleared

CT	c2.000 objects and manuscript	National Distributed Burns Collection (Dumfries): Objects and manuscripts relating to the Scottish poet Robert Burns.	English and Scots (where relevant)	JPEG	Internal systems in English	Rights cleared
CT	c40.000 objects and other material	The Royal Pavilion and Museums, Brighton & Hove: Nationally recognised collections of fine and decorative art; natural history, archaeology, toys and ethnography.	English (where relevant)	JPEG	Internal systems in English	Rights cleared
CT	c5.000 objects	Royal Albert Memorial Museum & Art Gallery (Exeter): Objects from various collections including nationally recognised World Cultures collection (ethnography)	English (where relevant)	JPEG	Internal systems in English	Rights cleared
CT	c3.500 objects	Derby Museums and Art Gallery: Fine art (including the nationally recognised works by Joseph Wright of Derby), ceramics, and other collections.	English (where relevant)	JPEG	Internal systems in English	Rights cleared
CT	c50.000 objects and photographs	University of Reading Museums: Social history, agriculture and rural life, and associated photographs	English (where relevant)	JPEG	Internal systems in English	Rights cleared
CT	c2.000 objects	University of Swansea Egypt Centre: Egyptology.	English (where relevant)	JPEG	Internal systems in English	Rights cleared
CT	c50.000 objects	Wiltshire Museums / Wiltshire Treasures: Collections from many organisations in the county of Wiltshire, including important archaeology collections from the Stonehenge area.	English (where relevant)	JPEG	Internal systems in English	Rights cleared
CT	c23.000 objects and photographs	Wakefield Museums, Galleries and Castles: Historic photographs, paintings, ceramics, glass, toys and games.	English (where relevant)	JPEG	Internal systems in English	Rights cleared
CT	c40.000 objects, photographs and archival material	Jersey Heritage: Social history, art, archaeology, natural history and photographic collections,	English (where relevant)	JPEG	Internal systems in English	Rights cleared

ii) IPR issues

Elaborate on IPR issues and how they will be addressed during the project. The analysis should cover

- IPR issues of the underlying content that is to be made available (input)
- IPR issues related to the project outcome including IPR clearing methods for content and tools (output)

During the lifetime of the project, AthenaPlus will act as a clearinghouse for copyright content and will deliver metadata to Europeana material where the content provider has already cleared IPR rights.

As a direct outcome of the ATHENA, Linked Heritage and ARROW projects, AthenaPlus will build both on the successful experiences and workflows; enabling Partners learn from the Partners prior experience concerning property right clearance and documentation. As proven by the ATHENA results, Partners are ideally positioned to implement and continue to develop the European copyright standard.

Specifically as:

- published in the Public Domain Charter that clarifies the legal issues around digitisation of out-of-copyright material, and encourages content holders to support the shared resource that is the public domain;
- adopted in the Public Domain Mark that clearly communicate the rights status on all content;
- published in the Public Domain Use Guidelines to help users understand their rights and responsibilities;
- requested by providers to show the rights status of their metadata;
- enabled as a rights facet on Europeana.eu that allows users to refine their search for objects pertaining to a specific rights category.

ICCU will consign a dedicated IPR task force which will act as helpdesk for Partners who may wish to learn more about copyright possibilities as well as being able to solve any issue connected to IPR. This IPR task force will be coordinated by ICCU in cooperation with the University of Patras (UP partner); a group which has proven experience on many projects including ATHENA and Linked Heritage and is highly knowledgeable on issues related to copyright, content sharing, and digital rights management.

The role of the IPR task force will be to support Content providers and keep them informed about the Europeana IPR models. An important factor in the IPR landscape is the evolving nature of Europeana's own IPR approach and the reactions of Europeana's Content provider Community to its evolution. As a result, we have identified an ongoing need for support concerning the distribution and explanation of briefing documents and guidelines to all AthenaPlus content providers.

Metadata contributed to *Europeana* will be licensed with the *Europeana Data Exchange Agreement* in force at the time of the contribution.

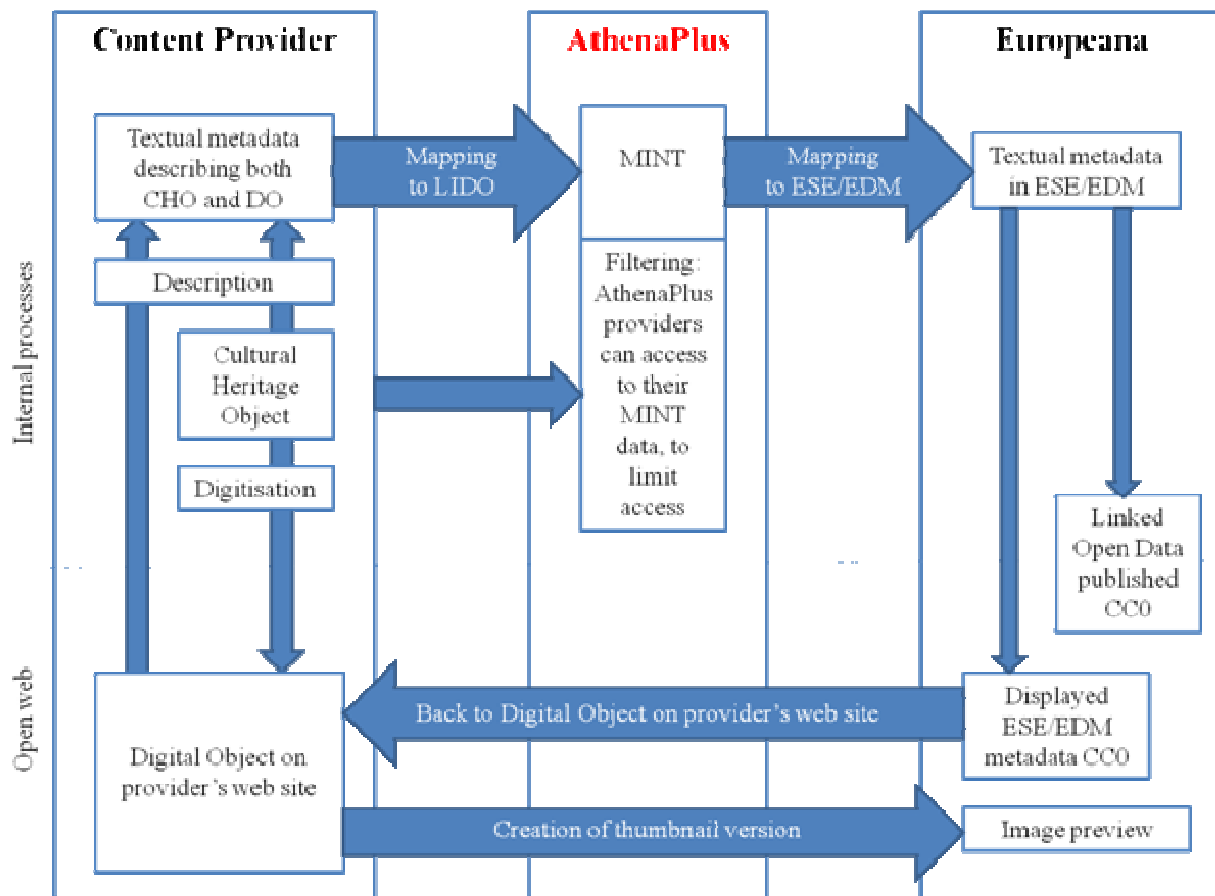
According to the DEA agreement:

- The metadata submitted to Europeana (except the image preview) will be published with a CC0 license. This means that the content provider dedicates them to the public domain by waiving all rights to the metadata worldwide under copyright law, including all related and neighbouring rights, to the extent allowed by law. Consequently, any user can copy, modify, distribute and perform them, even for commercial purposes, all without asking permission.¹
- The image/digital content that content providers point to via a URL, remains on the content provider's server apart from the image preview submitted to Europeana. The preview will be cached and stored on Europeana's server.

According to Europeana scenarios, and considering that AthenaPlus is not a legal entity entitled to sign the DEA directly, every AthenaPlus content provider (either individual institution or national aggregator) will sign the Europeana Data Exchange Agreement (DEA) directly with Europeana. The AthenaPlus coordinator will assist and monitor this process, in cooperation with Europeana through the dedicated Helpdesk set up specifically to facilitate this process.

¹ See: <http://creativecommons.org/publicdomain/zero/1.0/deed.en>

AthenaPlus will encourage Partners to deliver, besides the mandatory set, the largest metadata set to Europeana. If some AthenaPlus content providers do not feel comfortable providing their full metadata sets under the current regulations as posed in the DEA, AthenaPlus will suggest filtering metadata during the aggregation process, for different purposes (i.e. delivery to Europeana, reuse for creative outputs, etc.).



NTUA, as technical leader and the partner responsible for the mapping and ingestion process, is also responsible for physically gathering the data, and will process the data contributed by the content provider only in the framework of the tasks and activities foreseen by the AthenaPlus project. In addition they will transfer them to the Europeana's server only after having been authorised to do so by the content provider. This is entirely in accordance with Europeana's recommendations.

Before authorising NTUA to pass on the gathered data¹, the content provider will be able to choose the degree of granularity in data to be published on Europeana. The MINT-tool, used by AthenaPlus, allows for the technical selection by the content provider of one of the following scenarios:

- 1) Publish a minimal metadata set to Europeana;
- 2) Publish an intermediate metadata set to Europeana;
- 3) Publish a full metadata set to Europeana.

Rich metadata sets that are collected in the protected environment of the NTUA server, therefore, will allow the different WPs to be able to reach their own specific goals.

¹ Authorization is given to NTUA as soon as a content provider pushed the 'publish to Europeana' button in the MINT-tool.

IPR issues related to the project outcome including IPR clearing methods for content and tools (output)

As regards the project publications, they will be made available under a Creative Commons Attribution, Share-Alike, Non-Commercial licence. These publications will be available for download from the web site. A selection of the publications will be available also as printed material, in a limited number of copies, to be distributed for free at events or for dissemination. Scientific publications by Partners concerning project work will be encouraged. AthenaPlus will follow standard academic good practice as concerns authorship, with the provision of a) mentioning EU support for the work; b) notifying the consortium of the publication; c) providing a digital copy to the consortium, to be made available on the website or providing a link to a self archived copy elsewhere; or to be kept in storage, if self-archiving is not allowed.

MINT source code version customised from AthenaPlus will be released under a free software license <http://www.gnu.org/licenses/agpl.html>.

All apps, plug-ins, and similar tools generated during the lifetime of the project will remain the intellectual property of the Partners themselves. The partner will subsequently be the authority to decide the terms of use of their own property.

iii) Multilingual and/or multicultural aspects

Describe how the envisaged solutions to make the content more accessible, usable and exploitable will enhance multicultural and/or multilingual use of the underlying content. (e.g. through cross-lingual search and retrieval)

Europeana - as the gatekeeper of Europe's multilingual cultural assets - reflects the rich cultural diversity of Europe and embodies their expression in a tangible form. AthenaPlus brings into the cultural eco-system the ability to develop tools that will facilitate cross-lingual search and retrieval and support the experiences of end-users wherever they may be located in their own national language.

While the exchange language among Partners will be English, all Partners are encouraged to produce translations of the promotional material, which will be made available on the website (factsheet, leaflet, poster, etc.). Moreover, Partners will be invited to translate publications produced within the project in their own language which will be made available for download on the AthenaPlus website.

Considering the broad reach of the AthenaPlus Best Practice Network, the content provided through AthenaPlus will be multilingual and multicultural; reflecting both the plurality of the European experience, in Europe and beyond. Languages represented will include the following: Bulgarian, Catalan, Croatian, Czech, Dutch, English, French, Estonian, German, Greek, Hebrew, Hungarian, Irish Gaelic, Italian, Latin, Latvian, Lithuanian, Polish, Romanian, Russian, Scots, Slovene, Spanish, Swedish, and Yiddish.

The aim of the AthenaPlus project is to support cultural institutions in providing object data for publication in Europeana. This will be carried out by providing instruments and tools that will support Partners to enhance their knowledge. WP4 will develop the work on terminology further; a process that started during the ATHENA project and continued throughout the Linked Heritage project. Content Providers (CP) will be encouraged to implement recommendations for design and management of terminologies, produced within the framework of Linked Heritage¹, and to improve the visibility of their resources at a national and international levels; publishing their terminologies as Linked Data, according to Semantic Web standard practice.

Therefore, WP4 will work with Content Providers who have a vested interest in terminology and multilingualism and will be invited to a dedicated working group to manage their terminology; making compliant and optimized for improving multilingual access to Europeana.

WP4 will also benefit of the expertise gained by many Partners in other projects, such as MICHAEL and MIMO. Towards the end of the project the optimal terminologies will be selected and aggregated for input into the AthenaPlus terminology set.

² <http://www.linked-heritage.org/getFile.php?id=244>

WP6 will run parallel pilots to test tools and solutions designed and developed by WP5, in order to experiment with the Creative Use of Cultural Contents. Partners participating in these pilots will produce outputs reporting their work (e.g. virtual exhibitions) first and foremost in English.

It must be also underlined that the Council of Europe expressed its interest in participating as observer in the proposal, also with the objective to collaborate in the field of multilingual technologies and make available the experience developed through the HEREIN thesaurus.

B2.2. Long term viability

Describe how the consortium intends to reach viability, sustainability and scalability after the end of the project and the Community funding. Where appropriate, include an exploitation plan for the service describing the funding flow which will support its long term viability.

Maintaining the network of best practice

The best practice network of AthenaPlus is composed of experts and stakeholders from government agencies and ministries, GLAMs (galleries, libraries, archives, museums), universities, technical Partners, and SMEs. Several Partners have been cooperating for more than ten years (associated with the MINERVA, MICHAEL, ATHENA, and Linked Heritage projects), and with AthenaPlus the network will now increase to include several new stakeholders.

Our positive experience over recent years demonstrates that the costs of maintaining the network are minimal. Experts, who already know each other, will continue to meet virtually or at European cultural heritage events, which they will be attending for their own agendas. The partner Michael Culture Association will also make its platform available to capitalise on the results of the project and contribute to the viability and vigour of the Network.

The Project Coordinator will maintain the website and the mailing lists after the end of the project to insure the long-term sustainability of the Network. Over more than a decade, the framework for this kind of cooperation across national and sectoral boundaries has proven itself as an excellent working solution both in its efficiency and for its copious productivity as well for its contribution towards a sharing, and building upon of knowledge. This works two-ways in that these kinds of networks brings benefit both to the individual participants as well as to the entire Network which reap the many benefits of best practice, experience and distributed productivity

Creating value for the best practice network

AthenaPlus will create value for the best practice network as measure by:

- Increased exposure of the Content Providers' collections and consequent increase in the number of visitors and customers;
- Terminological tools for improved indexing and access tools;
- Scientific publications;
- Training Tools;
- Tools for the enrichment of content;
- Production of virtual exhibitions, educational packages, tourist routes etc.;
- Knowledge management facilities that will improve the capabilities of the institutions to carry out their mission and attend to the needs of the public.

Basic sustainability

Metadata managed by and located in venerable institutions will become visible by AthenaPlus. Digital cultural content will be maintained and updated by these institutions. Each of these institutions operates in its own specific institutional environment, with its own funding. The digital cultural content will continue to be maintained as part of the life cycle of such institutions and continue to be made accessible through Europeana. The outreach of these institutions to additional target populations – such as their own online visitors, multimedia producers, researching scholars, education users like schools, teachers and students – will enable these institutions to develop new business models and so maintain the digitised resources, update their metadata

as required by evolving standards while maintaining their interoperability with Europeana and adopting sustainable measures.

When Content Providers are interoperable with national aggregators, national aggregators will monitor the persistence of the access to digital resources.

Technologies and tools

The end users of the AthenaPlus technologies and tools are content providers and aggregators who will use the services developed in the framework of the project metadata mappings, linked data, terminologies, persistent identifiers, tools for the enrichment of content, and training tools. Besides the potential uptake of all Partners concerned, the technological results will be made available not only to Europeana but to the broader professional community who may be potentially interested in this outputs for further exploitation. Technical support in the future by AthenaPlus Technical Partners could result in potential revenue in the future.

Access to technologies online

The AthenaPlus consortium is committed to provide online access to maintaining online tools, created during the life-cycle of the project, from the end of the project for a period of five years, with the option to renew this commitment if the demand for the technologies persists. The main “home” server for these technologies will be hosted by the National Technical University of Athens; other tools may be hosted by the coordinator in the server of the Italian Ministry of Cultural Heritage, There will be no charge to Partners and users for access to these technologies.

Exploitation plan

The Project Coordinator together with the Partners will develop an Exploitation Plan during the last phase of the project (months 28-30). The plan will outline the potential of the AthenaPlus Project in light of the Project’s accomplishments; assuring that the valuable knowledge attained during the lifetime of the Project will be fully integrated and its achievements fully sustainable. According to the Project’s results, the plan will detail trends and opportunities for new areas of development, and will define potential activities and synergies to be followed up in the future. The Exploitation Plan will include the Europeana Metadata Aggregation Platform, the Terminology Management Platform as well as the Creative Applications for the Re-use of Cultural Resources. Efficacious exploitation and long-term sustainability of AthenaPlus results are defined as some of the key objectives of the project.

Specifically, the Exploitation Plan will outline: the results to be exploited, the stakeholders who will benefit from the results, the possible models of exploitation and a first analysis of the compatibility between results and the needs and requirements of the stakeholders, as well as the exploitation models to be employed.

To attain these goals, each partner will be asked, by means of a questionnaire to specify their own exploitation plan and to set out the ways in which their organization will be able to take advantage of both the knowledge acquired throughout the project as well as the tangible results. The partners’ individual contributions will be set out in the final Exploitation Plan. Due to the complex and stratified nature of the Project Partnership, we expect their results to spin off at local, regional, national, European, and/or international levels. In addition the plan will outline potential sectorial gaps which AthenaPlus is addressing; proposing what needs to be enhanced and what needs refining in the field. The Project’s strengths and weaknesses will be taken into account; matching key strengths with opportunities that could create capabilities that could evolve into competitive advantages.

Questionnaires sent to partners will be composed of two parts. The first will investigate how AthenaPlus deliverables could be further exploited, including questions about the strengths, weaknesses, opportunities, and challenges to the AthenaPlus main outputs.

The second part will be aimed at eliciting specific individual exploitation plans where each partner has identified potential re-use in their own work-flow. In the period immediately following the close of the project, partners will be encouraged to continue to disseminate the results for demonstration purposes to encourage new users to become aware of the results of the project.

The target group for exploiting the project’s results will be carefully analyzed, including all possible stakeholders who might further exploit the successful outcomes of the projects.

In addition, the Exploitation Plan will investigate how the main outcomes of the project will be assessed for adaptation into future European project calls.

B.2.3. Wider deployment and use

This section should describe how the project will facilitate wider deployment and use: how the envisaged solution will be maintained and should / could be further developed or replicated across Europe; how the experience gained with the project can be disseminated and shared with other interested parties by activities which will be implemented within the project such as:

- networking (networking capacity of the consortium and intended contribution towards clustering activities)
- dissemination & awareness activities (including events and meetings)

Networking

Networking will be an important task of the AthenaPlus project. All Partners, and especially the work package leaders, will take an active role in the concertation activities that takes place between the Europeana Group of projects, and with the projects that maintain and develop Europeana. They will, in concertation with WP1, coordinate the attendance to appropriate events and workshops organized by sister projects and the Europeana Office, including those associated with the Council of Content Providers and Aggregators, recently called Europeana Network.

Moreover, the project foresees the organisation of at least two dissemination/training events in each partner country targeted not only to the project Partners but to all stakeholders interested in the outcomes produced in the framework of AthenaPlus. All these events will be occasions for networking and increasing awareness on Europeana.

Thanks to MICHAEL Culture partner, networking will also be addressed to the still alive MINERVA network, cooperating since more than 10 years in digitisation issues.

In order to establish the network and a workflow able to raise awareness about AthenaPlus and Europeana across the memory institutions community, an AthenaPlus National Contact Point (NCP) will be appointed in each country, represented by one of the partner. The list of National Contact Points will be made available on the project website. This approach proved to be very successful in the previous ATHENA project.

The organisations (institutions, projects, etc.) interested (in different ways depending on their roles) in AthenaPlus activities and results and wishing to closely cooperate with the project, can get in contact with the AthenaPlus national contact point in its own country or directly with the central management of the project, in order to formalise the cooperation.

An organisation might cooperate with AthenaPlus in order to:

- Participate in the AthenaPlus working groups;
- Share AthenaPlus results and contribute to their dissemination
- Become content provider through AthenaPlus to Europeana;

Cooperation between organisations, experts, projects and ATHENA can be formalised by means of a Cooperation Agreement. The text of the Cooperation Agreement will be agreed by Partners and made available on the project website.

Dissemination Methodology

The AthenaPlus project will incorporate a variety of dissemination methodology during the timeframe of the project. In the initial phases we will be more focused on encouraging awareness of the project, while in the latter phases the project we will be focusing more on ‘selling’ the major achievements.

The table summarises the main dissemination tools which will be used by the project,

AthenaPlus project Website	The website represents the main dissemination tool of the consortium. It will host AthenaPlus activities and outcomes, events, links, documents etc. It will be updated for the duration of the project. It will also host multilingual pages. Wikis will be part of the website. WP4 will continue to reuse the wiki, launched during ATHENA and
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	developed during Linked Heritage: http://www.linkedheritage.org/index.php?en/192/wiki
Partner's institution's websites	Partners will be encouraged to disseminate and promote AthenaPlus activities and outputs on their own institutional websites and portals. Among them, a leading role will be played by the MICHAEL Association website, which will also ensure the sustainability and capitalisation of the results after the project.
Online fast communication	Partners will be encouraged to promote AthenaPlus activities and outcomes on their institutional newsletters (for example the Judaica Europeana newsletter, which will be distributed at least three times), e-bulletins and social media marketing tools.
Promotional material	Promotional material will be produced in order to distribute the project online and in conferences and events, mainly a factsheet, leaflets, and gadgets.
Europeana tools	AthenaPlus will be in contact with Europeana in order to distribute its results through Europeana channels: Europeana eNews, etc.
Events	Other important distribution channels of the project's results and ensuring synergies throughout the Networking will be via the national networks, European and International workshops, seminars and conferences organized by other institutions, by Europeana, by other European projects, etc., as well as national and international fairs and exhibitions. Here a preliminary list of potential annual events where AthenaPlus results will be disseminated: <ul style="list-style-type: none"> EVA Florence (www.evaflorence.it/) Cidoc Conferences (http://cidoc.mediahost.org/conference%28en%29%28E1%29.xml) ICOM Conferences (http://icom2011.org/) IFLA Annual Conferences (http://www.eblida.org) Open Culture conferences (UK) Borsa mediterranea del turismo archeologico Museums and the Web (http://www.museumsandtheweb.com/) (http://www.borsaturismo.com/) Museum on the Web (http://www.archimuse.com/mw.html) National events organised by Partners, also in cooperation with national library,museum, archives professional associations
Scientific papers	All Partners will be encouraged to author papers in national and European journals, as well as conference proceedings where Partners are invited to present their papers.
Uncommon Culture	Two issues of the professional journal Uncommon Culture (http://www.uncommonculture.org), published by ICIMSS and launched in the framework of the first ATHENA project, will be dedicated to best practices of AthenaPlus.
AthenaPlus publications	Printed online booklets will be produced by WP7 in cooperation with WP1, in order to disseminate the outcomes achieved by the different WPs to a wider public. This publication will continue the series of booklets produced during the ATHENA (http://www.athenaeurope.org/index.php?en/198/athena-booklets) and Linked Heritage project (http://www.linkedheritage.org/index.php?en/181/publications) which were downloaded 14.000 times.
Social networks	The most popular social networks (Vimeo, YouTube, Slideshare, LinkedIn, Twitter

	etc.) will be used to promote AthenaPlus activities and outputs.
Education: Schools and Teachers	<p>The educational market is a key area for cultural heritage. This is one of the main recommendations of the 2002 European Commission DigiCULT Report “Unlocking the value of cultural heritage”.</p> <p><i>The digital promise - In the emerging knowledge society, there will be an increasing demand for high quality, enriched digital content as life-long learning is no longer a buzz word and continuous education has already become a must. Cultural heritage institutions are in a prime position to deliver the kind of unique learning resources that are needed at all educational levels (p. 12).</i></p> <p>This commitment was underscored in the 2011 Report of the ‘Comité des Sages which advised:</p> <p><i>The Comité underlines the central place of Europeana in the strategy to bring Europe's cultural heritage online and to make cultural material available for work, education or leisure (p. 22).</i></p> <p>The AthenaPlus partnership is committed to its education agenda and will be developing creative applications for the reuse of cultural resources for education. In addition to developing these platforms the project plans to disseminate both Europeana Library itself as well as the project results (web-based and apps), across in the educational sector. The combination of awareness of Europeana’s potential in the classroom together with the practical solutions that AthenaPlus will develop will enable both teachers and students to be able to build their own virtual exhibitions and thematic routes based also on Europeana content.</p> <p>The channels that AthenaPlus will explore in its dissemination drive include:</p> <ul style="list-style-type: none"> • The European Association of History Educators (http://www.euroclio.eu/) • The European Schoolnet (EUN, http://www.eun.org), a consortium of 26 European Ministries of Education for ICT in Education provides an extensive program of activities reaching out to schools, principals, teachers and students through its portal, fora, emailing lists, projects and partnerships. • The International Association of School Librarianship (IASL, http://www.iasl-online.org/) • School branches of the national libraries associations • The Academic & Special Libraries Sections of national libraries association • Some university courses run by Athena Plus partners and/or cooperating academics particularly in the area of fine arts, museology, library and information sc, cultural studies, journalism etc. • Selected schools • Third Age Universities • School libraries associations • Institutions’ educational services <p>For the duration of the project partners will be asked to identify key national events in the field of education in their own country (i.e. in Italy: Job Orienta; in Poland: annual conferences for active teachers organized by the Center for Citizenship Education) where they will present the educational tools created within the project in their own language, promote Europeana’s holdings, and stimulate local partnerships in their own communities.</p>

<p>Tourism: universities and students</p>	<p>The AthenaPlus Project also targets the tourism market as another key sector which would benefit from practical solutions in the dissemination of cultural heritage. AthenaPlus will promote both Europeana and the project results, i.e. the creative applications for the reuse of resources (web-based and apps) developed specifically for the cultural tourism.</p> <p>Partners will contact universities that manage courses and master degrees in the tourist industry and will investigate potential partnerships with them for cultural tourism. These kinds of localized projects would encourage the integration on Europeana's rich content into their own workflow; creating new platforms and applications for the cultural tourist.</p> <p>One of AthenaPlus's goals is to stimulate cooperation agreements with specific institutions (at least three), proposing that they become living labs as test beds, with students integrating the project's tools into their own research and preparing, for example, location-based trails for upcoming trips.</p> <p>In addition, the Council of Europe, an AthenaPlus observer, will be involved in the dissemination of AthenaPlus tools, mainly through the European Institute of Cultural Routes (http://www.culture-routes.lu).</p> <p>AthenaPlus will establish a relationship with Euromuse, the network of European Museums providing information on their temporary exhibitions aiming at an extension of the current calendar on temporary exhibitions with one on virtual exhibitions of all the partner institutions.</p> <p>Partners will be also asked to attend at least one or two national events/fairs in the field of tourism (i.e. the Mediterranean Fair of Archaeological Tourism,) and will be encouraged to present the tools developed and the results realized within the project.</p>
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SECTION B3. IMPLEMENTATION

B3.1. Consortium and key personnel

Describe each consortium partner, highlight their specific expertise for and their role in the project and indicate the key personnel (brief CV) foreseen to work on the project. Clearly indicate the co-ordinator, all of the participants of the consortium and the role of each in the proposed project. Include all necessary stakeholders in the value-chain. The organisation proposed to coordinate the project should be able to demonstrate competence and experience of managing large-scale international cooperation projects.

In the following pages the 41 full Partners of the proposal are presented, to show their experience and capacity to achieve the objectives of AthenaPlus.

The project also include the **Council of Europe as observer**, mainly to collaborate in the field of multilingual technologies.

The **Director of the Europeana Foundation** also agreed to be a member of the Steering Committee of the project. Her curriculum Vitae is here presented.

Jill Cousins is the Executive Director of the Europeana Foundation, responsible for Europeana.eu and Director of The European Library. She is on the Board of Globethics and advises on the development of other digital libraries. She has many years experience in web publishing, which are now being applied to the libraries and the cultural heritage arenas. Her past experience includes the commercial publishing world as European Business Development Director of VNU New Media and scholarly publishing with Blackwell Publishing running their online journals service. Prior to publishing she had a variety of marketing and research careers in the information field. These ranged from being the Marketing and Event Director for Learned Information (Online Information) to managing her own research company, First Contact.

1 – ICCU

Istituto Centrale per il Catalogo Unico delle biblioteche italiane e per le informazioni bibliografiche – Ministero per i Beni e le Attività Culturali, Italy

The Central Institute for the Union Catalogue of Italian Libraries and Bibliographic Information was created in 1951 with the task of producing the entire national bibliographic record.

ICCU is an Institute of the Ministry for Cultural Heritage and Activities; it manages the National Library Service and union catalogue of over 4,000 Italian libraries, and is responsible for providing the standard rules and regulations for cataloguing all types of materials ranging from manuscripts to multimedia documents.

In 2009 ICCU became the ISIL Registration Agency for Italy; this implies the responsibility of giving to the Italian libraries an official code structures according to ISO15511 and recognised at international level.

ICCU is in charge, together with the national libraries of Rome and Florence and CNR, for the implementation of NBN – National Bibliographic Number, the standard for the persistent identification of the digital resources of the Italian libraries.

ICCU has a deep expertise in digitisation standards and guidelines, collaboration for integrated access to DCH resources; in fact, on behalf of the Ministry of Cultural Heritage and Activities, it coordinates major digital cultural heritage projects on the national level, for example, Internet Culturale (launched in 2001), the portal of the digital resources of the Italian libraries; CulturaItalia, the national culture portal and aggregator that is already contributing to Europeana via European projects like ATHENA, Judaica Europeana, EuropeanaPhotography, Partage Plus, Europeana Collections 1914-1918, and Linked Heritage. On the European level the expertise of ICCU's staff is on the coordination of top level European initiatives in DCH, such as MINERVA (series of 3 projects), MICHAEL, DC-NET and INDICATE. Highlight projects:

- **ATHENA** – Access to Cultural Heritage Networks across Europe: 2008-2010, eContentplus; ATHENA delivered 4 M museum data to Europeana and produced standards and tools now widely adopted by other aggregation initiatives for Europeana;
- **Linked Heritage**: 2011-2013; its main goal is to supply Europeana with over 3 M data;
- **DC-NET** - Digital Cultural Heritage Network: 2009-2011, ERA-NET that involves ministries and national institutes from Italy, Belgium, Estonia, France, Greece, Hungary, Slovenia and Sweden in the coordination of digital DCH research programmes;
- **INDICATE** - International Network for a Digital Cultural Heritage e-Infrastructure: 2010-2012; it is the extension of DC-NET to Mediterranean countries;
- **MICHAEL and MICHAELplus**: 2004-2008, eTen programme; developed the MICHAEL portal that provides multilingual access to major European cultural collections;
- **MINERVA** – Ministerial Network for Valorizing Activities in Digitization projects: 2002-2008, FP5, FP6 and eContent+; coordination of European digitization and online access strategies.

ICCU is also partner of other projects of the Europeana group: Judaica Europeana, EuropeanaPhotography, Partage Plus, Europeana Collections 1914-1918, and ARROW plus.

Key personnel

Rosa Caffo: Director of ICCU. From 2001 the Italian representative to the European National Representatives Group on Digitisation, and from 2007 to the Member States' Expert Group on Digitisation & Digital Preservation set up by the European Commission; currently she manages the above national and international projects.

Maria Teresa Natale: Consultant, since 1985 she works in services for cultural institutions; from 2002 to 2008 she participated in the national and European activities of the 3 MINERVA projects (MINERVA, MINERVAplus, and MINERVA eC), being content manager of the relevant website, and responsible for the project Museo & Web, born in the framework of MINERVA. She cooperated with the MEDCULT project funded by UNESCO, and coordinated the 'Digital Heritage' work package of STACHEM. She was technical coordinator of the ATHENA project and is now involved in EuropeanaPhotography, Partage Plus, Europeana Collections 1914-1918, Linked Heritage, DC-NET, and INDICATE. She took part in the Europeana Working Group on users. She coordinates marketing activities in the Italian portal of Culture CulturaItalia.

Marzia Piccininno: Director 2002-2008 of the Archaeological Museum of Valmontone (Rome); from 2002 to 2008 she participated in the national and European activities of the 3 MINERVA projects (MINERVA, MINERVAplus, and MINERVA eC), then she elaborated and organised the MEDCULT project funded by UNESCO to spread the MINERVA results across the Mediterranean basin. Most recently she coordinated the 'Digital Heritage' work package of STACHEM and was responsible of the content coordination for the ATHENA project. Currently she is responsible of the content provision to Europeana for the Linked Heritage project. It is also involved in EuropeanaPhotography, Partage Plus, DC-NET, and INDICATE. Expertise in organisation, networking and workflow facilitation of CH collaborative projects.

Andrea Temperra: graduate in Political Science and International and European Relationship; consultant, Financial and administrative manager of all the ICCU's EU projects. He also provides technical assistance for servers and websites of these projects.

Sara Moretto: consultant for supporting the European projects coordinated by ICCU within the digital cultural heritage. In particular, she was in charge of monitoring and reporting activities of the accounting and financial management of MINERVA MinervaEC, Minerva Plus, MICHAEL, Michael Plus, Bricks, ATHENA. She was responsible for the administrative management of the national cultural portal CulturaItalia. She worked at the Director's Secretariat and at the Secretariat of the Osservatorio tecnologico per i beni e le attività culturali. She was in charge of organising national and international events within the projects coordinated by the Ministry. Since January 2002 to May 2005 she was responsible for the Secretariat of the Conferences organized by the Italian Library Association.

Alessandra Stella: Since April 2004, she works as consultant for supporting the European projects coordinated by ICCU within the digital cultural heritage. In particular, she was responsible for monitoring and reporting activities of the accounting and financial management of ATHENA, MINERVA, MinervaEC, Euomuse, MICHAEL, Michael Plus, ATHENA, Linked Heritage. She worked at the Director's Secretariat and was in charge of organising national and international events within the projects coordinated by the Ministry.

2 – UMA

uma information technology GmbH, Austria

Since its founding in 1994, uma has been thinking about new forms of complex knowledge retrieval and spatial user experiences. Within this domain, uma has continuously built a reputation as an innovation leader, demonstrated through various awards and international recognitions during the last decade. uma provides end-to-end services for its customers, helping with creative planning as well as the implementation and integration on the basis of Melvil©, a semantic service platform and the SKIN™ and VICO™ Multitouch Solutions. uma has in depth knowledge in the cultural industry also as the developer and operator of the Kulturpool - the national central Search Portal for digital Austrian cultural Heritage Assets and national cross domain aggregator for Europeana.

Key personnel

Marko Göls (PM) studied Business Informatics at the University of Vienna and started his career as a consultant of a Big-Four consulting company in the strategy & operation practice. Among his consulting projects in the area of IT/ e-Business, organization transformation, strategy and project management, he was responsible for implementing international KM-standards in Austria as a Knowledge Manager. Before joining uma Marko worked on a strategy project for a leading manufacturing client in Germany. Marko joined uma information technology in March 2007 and is responsible for project development and project management and utilizes his consultancy experience for uma's clients. Marko is the project manager of the Kulturpool – the national central Search Portal for digital Austrian cultural Heritage Assets and national cross domain aggregator for Europeana.

Christoph Grünwald (Chief Solution Architect) develops applications for more than 10 years and design score components for uma's semantic search platform, solutions and services. All these components are also part of Kulturpool. In his role he is responsible for all technical decisions for uma's products, solutions and services.

3 – KMKG

KMKG - Koninklijke Musea voor Kunst en Geschiedenis, Belgium

RMAH - Royal museums of Art and History, Belgium

The KMKG is a scientific research institute that functions under the Federal Belgian Science Policy. It has the governmental responsibility over a number of museums with the task to define their overall philosophy and fundamental mission, among others: the preservation, management and publication of the collections by further developing the central collection database, the collection publishing portal, and the data aggregator environment; the improvement of the digital collections- and object descriptions by using standards ; the services to the public and researchers by providing digital information on the collections and on the used methodology ; and a close cooperation between several scientific institutions on a national and international level by exchanging digital data and technological expertise.

It is in this function that the KMKG coordinates the Federal museum aggregator service in which it supervises the overall digitisation process, aligns the use of standards and technologies, encourages the improvement of the digital data by the use and the constant enhancement of multilingual cross-domain thesauri, to harvest and disseminate these digital collections for recreational, educational and scientific purposes.

Museums and collections that fall under the responsibilities of the KMKG aggregator and that frequently deliver their new content are:

- The Cinquantenaire museums of Brussels (Jubelpark museums) form a cultural centre of several independent museums brought together in one building:
 - The museum of national archaeology - from prehistory to the Merovingian period
 - The museum of antiquity (Near East, Egypt, Greece, Rome)
 - The museum of non-European civilisations (Asia, America, Oceania, Islamic world)
 - The museum of European cultural heritage - from the early Middle Ages to the 20th century including arts, costumes and fashion, decorative arts, photography,...
- The Musical Instruments Museum brings together in its collections more than 9000 instruments from all regions and all periods
- The Museums of the Far East in Laeken are three museums located nearby the Royal palace of Laeken: The Chinese Pavilion, the Japanese Tower and the museum for Japanese Art
- The Museum of the Hallepoort focuses on the medieval history of the city of Brussels. The collection is, among other things, rich of medieval armoury that often used to belong to great names like Emperor Charles the V

Digitalisation is considered as one of the core tasks of the KMKG and in this aspect the institution has developed the necessary competences and experiences on digitalisation, metadata standards, multilingual terminologies, interoperability of database systems, and Semantic Web repositories by participating in a number of different European e-culture and e-infrastructure projects like ATHENA, MIMO, Linked Heritage, DC-NET – both as work package leader as in delivering content for Europeana.

KMKG also works in Partnership with a wide range of organisations both nationally and internationally, maintaining close contacts with museums, libraries, archives, community archives, higher education institutions, and government agencies and departments. In this position we try to involve other Belgian cultural institutions in the European digitisation experience by offering them our expertise in metadata standards, multi-lingual vocabularies, and interoperability technologies and data exchange.

Key personnel

Chris De Loof. Head of unit ICT, Multimedia & Digitization. After his Master Degree in Information Management, Chris De Loof specialized in project management.

For the Belgian Federal Public Service of Finance he was in lead project manager in the development of a fiscal knowledge base and the organization of the content and metadata workflow.

For the OECD he was in charge of the technical XML data interoperability and exchange standards in the field of tax (project Tax Information Exchange Systems).

In 2004 Chris switches to the research and cultural domain where he becomes head of the ICT department. Next to the technical field, IT web projects and developments in the Royal Museums of art and History, he starts the digitization activities for the enormous museum collections (project InfoCol). Chris is member of

- Steering committee digitization project InfoCol (INFormatization of the COLlections RMAH)
- Steering committee project CEST (Cultural Heritage Standards)
- Committee Public Private Partnership Digitization of the Belgian Cultural Heritage
- Digital Culture Belgium (DC-BEL)
- Board European Project Athena
- Board European Project Linked Heritage
- Flemish Board for Cultural Heritage projects

Roxanne Wyns studied History of Art and Archaeology at the Free University of Brussels (VUB) with a focus on post-medieval archaeology, museology and collection database management.

Since 2005, she has been employed by the Royal Museums of Art and History (KMG), a scientific research institute that functions under the Federal Belgian Science Policy.

After being responsible for the coordination of cultural activities and assisting in the development of a user-friendly central reservation system, she started working for department of digital collections – responsible for overseeing the central database development and digitisation process of its museum collections. Here she started specialising in standards, multilingual thesauri, and data interoperability processes.

Since 2009 this specialisation resulted in being appointed to two European digitisation projects, ATHENA and MIMO, and several internal projects concerning data publishing and data exchange. Now she is among other things responsible for the further development of the online museums catalogue and the implementation of metadata standards and harvesting protocols. Furthermore she is part of several working groups on semantic web-technologies and the development of multilingual SKOSified thesauri. In this line of expertise she is now leading the work package on multilingual terminologies together with MCC (France) in the best practice project Linked Heritage.

4 – PACKED

Centre of Expertise in Digital Heritage, Belgium

As a centre of expertise in digital heritage supported by the Ministry of Culture of the Flemish Community, PACKED plays a central role in Flanders and Brussels in centring the development of expertise in digitisation, digital archiving and access, and in spreading the acquired expertise. It aims at improving and safeguarding the quality and efficiency of actions with regard to digitisation, digital archiving and access to digital material within the broader field of cultural heritage. PACKED is one of the founders and core members of the Platform ‘Duurzame Digitale Toegankelijkheid - Vlaanderen’ (Sustainable Digital Access - Flanders), a platform advocating sustainable access to digital collections. It embeds its activities not only within the context of Flanders and Belgium, but is also largely active on a European and international scale. PACKED is actively involved in the family of projects surrounding *Europeana*.

The organisation also has a strong interest in the preservation of digital media art. Previous to becoming a centre of expertise in digital heritage, it acted as a platform for the development and dissemination of expertise in the archiving and preservation of audio-visual art. Relevant projects are:

- CEST (Cultureel Erfgoed Standaarden Toolbox), a toolbox of standards for digitisation and digital archiving <http://www.projectcest.be>;
- participation in EU funded projects:
 - DCA - Digitising Contemporary Art - as Coordinator;
 - ATHENA - Access to Cultural Heritage Networks across Europe - as WP leader;
 - Linked Heritage - Coordination of Standards and Technologies for the Enrichment of Europeana - as partner.

Key personnel

Barbara Dierickx is in charge of partner coordination in the DCA project. She also supports Flemish content providers in joining the Linked Heritage project. In the past she was strongly involved in the ATHENA project as co-WP leader on IPR issues. Barbara holds master’s degrees in cultural and communication sciences.

Joris Janssens is in charge of the technical side of PACKED-projects. Current projects are e.g. the set up and implementation of custom Collective Access systems, development of websites and web applications (e.g. for metadata management) and set up of a web service for the creation of persistent identifiers. In the past he worked for the HOPE project where he co-authored the HOPE data model and developed best practices for digitising and preserving digital collections. Joris holds master’s degrees in Philosophy and Information and Library Sciences and is obtaining a bachelor degree in Computer Science.

5 – OKV

Openbaar Kunstbezit in Vlaanderen vzw, Belgium

Is a non-profit organisation since 1963. The mission is to inform people about museum collections and heritage. They are accomplishing this mission by publishing a museum magazine six times a year. Their website gives an overview contains several databanks like all the museums in Belgium and a list of all the exhibitions that are running for the moment and the last five years.

Each year we are organising a museum prize for the three most accessible museums in Belgium. For the moment we are digitalizing the fifty year of magazines and integrate this content in our website and linking it with the database of the museums and the exhibition info.

Key personnel

Peter Wouters (Director). Studied Social Communication at the RITCS in Brussels (1983-1987) and a Master in Art History at the VUB (Dutch) (1987-1989) and ULB (French) (1989-1991). He later specialised in Cultural Management in Ghent (Financial management) in Brussels Vlekh (general management).

He always worked in the cultural sector with as specialities project management, corporate identity, branding and cultural marketing. The last ten years he is editor of an art and heritage magazine. The digitalization of the last 50 years of the magazine is now one of the key activities of his organisation. OKV worked before as a partner for Euromuse. He speaks Dutch, French, German and English.

6 – Michael

Michael Culture AISBL, Belgium

Michael Culture AISBL is a not-for-profit organisation created in 2007 to sustain the MICHAEL service after the end of the MICHAEL eTEN project. The Association was established under Belgian law, since Belgium is the only Member State having the opportunity to create an International Association) AISBL (Association Internationale Sans But Lucratif).

The MICHAEL project was developed in 2003, before the European Commission launched the i2010 IST Policy, and therefore before all discussion of Europeana.

The AISBL has been created with the mission of 'providing services to access cultural digitised resources' and of 'promoting the quality and the progress in digitisation of cultural and scientific knowledge and the creation of on line services'. The rules of the AISBL have been carefully worded in order to enable project Partners to sustain the MICHAEL service, platform and Partnership, but also includes mechanisms to allow the AISBL to cooperate to the development of Europeana.

Devoted to European cultural heritage valorisation, Michael Culture Association gathers public and private organizations as well as cultural institutions from Europe, of which many represent cultural operators at national level.

It aims at:

- Promoting and valorising European cultural heritage by its digitization and dissemination to a European and worldwide audience, through the Michael Internet Services portal: the Multilingual inventory of digitised cultural collections on line in Europe
- Enhancing the network of European professionals working on digital cultural heritage, through the actions towards the MINERVA Network.

Its activities are:

- Management and development of the Michael Internet Services portal;
- Support and development of the transmission and exchange of information, particularly via publications, conferences and events;
- Research and training on related subjects;
- Networking and participation in European and international projects.

Key personnel

Corinne Szteinszneider joined Michael Culture as a Senior Project Manager in 2012. She animates and develops the wide network of the association, and manages the European projects. Previously, she was general secretary of Relais Culture Europe, the French Contact Point of the DG Culture of the European Commission. She also worked for Patrimoine Sans Frontières, an association dedicated to the defense of tangible and intangible heritage at French and international levels. She is graduated in History and Cultural Heritage management from the Sorbonne University.

Eva Richter Lorentzen is graduated in History of Art and Cultural management. In 2006, in the University of Toulouse Le Mirail she coordinated the European cultural cooperation project Trans Boarder Design Platform, gathering European schools of Design. Since 2008, she is in charge of the communication and dissemination activities for the European network Michael Culture. In this framework, she participated in several European projects (Culture programme, EContent Plus Programme, ERANET), notably Athena and Net Heritage.

7 – CyI

Cyprus Research and Educational Foundation, Cyprus

The Cyprus Institute (www.cyi.ac.cy) is a novel research and educational institution with a scientific and technological orientation. It is being developed under the stewardship of the Cyprus Research and Educational Foundation, the Board of which comprises of prominent international academic, political and entrepreneurial personalities. The Cyprus Institute is strongly supported by the Government of Cyprus, viewing its establishment and advancement as important to its overall policy of transforming Cyprus into a regional centre for research and education and in implementing the EU-Lisbon strategy. Research is carried in cross-disciplinary Centres that address problems of great scholarly relevance, global significance and regional focus. Each Centre defines its internal priorities and initiates individual projects, consistent with the overall strategy of the Institute. Shared infrastructures incorporating state of the art technology support the research activities of all Centres. The research centre to be involved in the project is the Science and Technology in Archaeology Research Centre (STARC). It is devoted to the development, introduction and use of advanced science and technologies in Archaeology and Cultural Heritage. Its research activities have a strong multi-disciplinary approach, through collaboration agreements and joint activities with leading institutions in the region and synergies with other Centres of the Cyprus Institute, towards the enhancement of knowledge regarding the Cultural Heritage of the region through new ways of reasoning with information technologies, natural and material sciences. Research topics derive from a use-inspired basic research approach. They include:

- Natural and Material Sciences applied to Archaeology and Cultural Heritage
- Digital Heritage, Information and Communication Technologies (ICT), Digital documentation and semantics, scientific visualization and virtual reality methods;
Diagnostics for CH conservation, such as chemical and physical analyses for the preservation of heritage items;
- Underwater and maritime archaeology technology.

STARC participates in several EU-funded initiatives:

- 3DCOFORM (www.3dcoform.eu)
- ATHENA (www.athenaeurope.org)
- CARARE (www.carare.eu)
- EUROPEANA LOCAL (www.europeanalocal.eu)
- STACHEM (starc.cyi.ac.cy/stachem/stachem)
- LINKED HERITAGE (www.linkedheritage.eu)

Key personnel

Sorin Hermon. Scientific coordinator at STARC - Sorin received his PhD in Archaeology from Ben-Gurion University of the Negev in Beer-Sheva, Israel (BGU), and his MA in Prehistory from the Hebrew University, Jerusalem. Sorin was previously a Senior Researcher at VAST-Lab, University of Florence and Lecturer at BGU. He coordinated activities in work-packages in EU-funded initiatives, and coordinated EU and international funded projects. He organized several summer schools, training activities and international workshops and conferences. He is member of CAA, EAA, IIPP, VAST, IPP, VSMM, and member of the scientific committee of VSMM, VAST. His research interests include visualization tools for the research and communication of Cultural Heritage, ontologies, definition of semantic structures for Cultural Heritage, data representation and IT oriented methodologies for archaeological research, knowledge representation and transfer and development of academic curricula.

8 – NM

Národní muzeum, Czech Republic

The National Museum is a public scientific institution which systematically collects, researches and exhibits natural and historical collections from all over the world. It was founded through the efforts of many distinguished figures in Bohemia beginning as early as the end of the 18th century.

The National Museum is the oldest museum in Bohemia and today the most distinguished and largest museum in the Czech Republic. It is composed from five professional institutions: Natural History Museum, Historical Museum, The Náprstek Museum of Asian, African and American Cultures, Czech Museum of Music, National Museum Library and two technical departments: Department of Deputy for Development Investments, Department of Deputy for Economy-operation and Section of the Deputy for Central Collection-building and Exhibition Activity.

At present the National Museum shelters almost 20 million of items from the area of natural history, history, archaeology, arts, music and librarianship, located in more than 15 public museums and exhibition halls all over the country which are cared for by more than 500 researchers and employees.

The collection funds of the National museum represent several million items of material evidence about the inanimate and living nature and about the man and his activities in worldwide scale. These are collections of mineralogy (which belong to the most beautiful and most extensive collections in the whole world), palaeontology, mycology (the mycological herbarium is one of the most extensive worldwide), botany, entomology (which represent more than 5 million preserved specimens of insects), zoology, anthropology, archaeology. From the very beginning the collections have been regarded also as a treasury of the most important monuments of the Czech national history. Remarkable parts of the collections are the Lapidarium and the Collections of ethnography (most numerous items in the collection are folk costumes, embroideries and folk textiles). Very precious objects are kept also in the collections of pottery, folk paintings, folk furniture, folk tools and customs. Of exceptional importance is the numismatic collection, collections of documents related to the history of Czech theatre and music, collections related to physical education and sports, and collections of items of material and spiritual culture of Africa, America, Asia, Arctic regions and Oceania. The Library of the National museum keeps and administers, in addition to books of scientific literature and fiction, also a collection of manuscripts, incunabula, and old prints and documents from Bohemia documenting the development of book culture in the 19th and 20th centuries. An important part of the funds of the Archive of the National museum are documents from the estates of leading personalities of political, scientific and cultural life of the 19th and 20th centuries.

Key personnel

Pavel Douša is the director of the Historical museum, which is a part of the National museum in Czech Republic. He has Ph.D. in museology and holds PhD in History from the Silesian University. He lectures the museology at Silesian University Opava and Charles University in Prague as well.

He has managed or participated in these scientific projects: Museums at network: European children, games and local cultures (methodology of presentation of game in museum), Barrande I – The Scientific-Research Centre of cultural heritage, Prague Museum Night 2006, 2007, Informational web site eMuseum.cz, Researcher's night (member of realization team of the CR). Pavel Douša is board member of Museology committee of Czech Association of Museum and Galleries, Museum education committee of Czech Association of Museum and Galleries, and National jury of Gold coat of arms competition for the best City Web.

Kateřina Musílková is the manager of European project in the National museum. She received her master degree in history from the University of Pardubice in Czech Republic in 2007. Afterwards she worked for the Czech foundation NROS and coordinated European social projects there. At past time coordinated the ATHENA project (ACCES TO CULTURAL HERITAGE NETWORKS ACROSS EUROPE) in the Czech Republic. Kateřina Musílková also manages an on-line presentation of Czech Museums eSbirky.cz.

9 – EVKM

Eesti Vabariigi Kultuuriministeerium – Ministry of Culture, Republic of Estonia

Within the Estonian Government, the Ministry of Culture is responsible for organizing and coordinating state cultural policy. The task of the Ministry of Culture is to make sure that necessary and favourable conditions, both legislative and financial, are created for the functioning of culture, heritage and sports from the culture professionals' as well as the general public's point of view.

The mission of the Ministry of Culture is to support the maintaining of the Estonian national identity by valuing, preserving, developing, acknowledging and spreading Estonian fine arts, cultural heritage and sport in Estonia and abroad supporting both the professional and amateur activities in creativity and sport.

Ministry of Culture has participated in MinervaEC, Michael Plus and ATHENA projects and currently is participating in DC-NET, Linked Heritage and CARARE projects.

The mission of IT Division is to coordinate and support digitisation activities and developing different IT solutions for institutions under the ministry.

Estonian cultural institutions actively digitize collections and therefore there is growing demand for new services in the fields of long-term preservation and access to digital content. Therefore, the Ministry of Culture is interested in participating in the DCH-RP project.

Key personnel

Indrek Eensaar, Tallinn Technical University, public administration (MPA)

1999 – 2003 Harju County Government, Senior Specialist.

Since 2003 Ministry of Culture, Republic of Estonia, Head of Information Technology Division.

Fields of responsibility: coordinating the development of information technology in the administrative area of the ministry. Managing the development-plans of state priority IT-systems (the IT systems of the museums and libraries) and coordinating the IT-related fields of activities (digitalization).

Anton Pärn, University of Tartu, MA in archaeology

1986– 2001 National Heritage Board, area of responsibility – archaeology.

1993-2001 Deputy Director General of the National Heritage Board.

Since 2002 Deputy Secretary General of the Ministry of Culture.

Fields of responsibility: cultural heritage.

10 – MCC

Ministère de la Culture et de la Communication, France

The department Research, Higher education and Technology (Département de la Recherche, de l'Enseignement supérieur - DREST) is a horizontal department in the French Ministry of Culture and Communication (secretariat general). In its fields of activities, the DREST is responsible for the co-ordination of the services and institutions of the ministry of Culture. It is in charge of the management and of the dissemination of horizontal initiatives at national level, such as interdisciplinary research programmes or the national digitisation plan for cultural heritage. It represents the ministry of culture in national bodies and at European level.

To carry out the national digitisation plan, the DREST relies on a national steering committee with scientific representatives from each department of the ministry of culture, ensuring the link with the regional directorates for cultural affairs (DRAC), local authorities and public cultural institutions (National Library of France, National institute for Audio-visual, Museums and Archives.). This committee meets periodically to produce common guidelines and to promote technical standards, to define national thematic priorities and to launch the annual calls for projects of digitisation. Its co-ordination guarantees the coherence of the national strategies, the quality of digitisation, the availability for the public of digitised resources and the follow-up of the programmes for their valorisation. The DREST is in charge of the steering of the national inventory of digitised collections ("Patrimoine numérique"), available on line as the national instance of the MICHAEL portal. The DREST has also developed a co-operation with the ministry of Higher Education and Research for the adaptation of "Patrimoine numérique" to the digitised collections depending from Universities or Research institutions (project NUMES, implemented by the ministry of Higher Education and Research).

The main aim of the digitisation in the Ministry of Culture and Communication works is to foster the democratisation of Culture through the development of digital access to cultural resources for all audiences. For this, the ministry develops or supports new services for the different kind of public (pupils, students, general etc), such as the portal "Collections" on Culture.fr, that proposes a unique gateway to more than 2 million digitised item. The implementation of the French instance of MICHAEL (national inventory of digitised collections "Patrimoine numérique") is also part of this strategy.

Key personnel

Christophe Dessaux is a civil engineer. He works at the Coordination Service of Cultural Policies and Innovation (SCPCI) within the Secretariat General in the Ministry of Culture and Communication, France, where he is responsible for the Department for Research, Higher Education and Technology (DREST). This department is in charge of the co-ordination of Research in the Ministry, of the implementation of national digitisation plan of cultural heritage, and of the European development of these activities (MINERVA, MICHAEL, Europeana). Christophe Dessaux is the French representative in the Commission's Member State's Expert group on Digitisation. Since 2007, he is also president of the association Michael Culture, which is in charge of the sustainability of the MICHAEL project, and member of the Executive Committee of the Europeana Foundation.

Marie-Véronique Leroi is a project manager. She has a background in Natural Language Processing (NLP) and works at the Secretariat General, in the Coordination Service of Cultural Policies and Innovation (SCPCI) of the Ministry of Culture and Communication, France, in the Department of Research, Higher Education and Technology (DREST). This department is in charge of the co-ordination of Research and Higher Education in the Ministry, of the implementation of the national digitisation plan of cultural heritage, and of the European development of these activities (MINERVA, MICHAEL, Europeana).

Marie-Véronique Leroi is responsible for the French national Instance of the MICHAEL project, 'Patrimoine Numérique' and was leading the Workpackage 4 of ATHENA dedicated on terminology and multilingualism on behalf of the Michael Culture Association. She is co-leading the Workpackage 3 of Linked Heritage with KMKG.

11 – SPK

Stiftung Preußischer Kulturbesitz – Prussian Cultural Heritage Foundation, Germany

The Foundation is one of the world's major cultural organisations. The Staatliche Museen zu Berlin (National Museums in Berlin), the Staatsbibliothek zu Berlin (State Library), the Geheimes Staatsarchiv (Secret State Archives Prussian Cultural Heritage Foundation), the Ibero-Amerikanisches-Institut (Ibero-American Institute) and the Staatliche Institut für Musikforschung (State Institute for Music Research), all with their origins in the collections and archives of the State of Prussia, are linked to form a close network for cultural transmission. From the beginning it was scholars and artists rather than princes and kings who gave the collections their distinctive profile. Although individual treasures such as the world-famous Pergamon Altar or the bust of Nefertiti draw the attention, the encyclopaedic range and ordered structure of the collections as a whole reflect an all-embracing interest in education.

The preservation and care of the collections, their structure and development, and the continuation of academic and scientific research form the basis for a mediation of cultures with a mission to encourage learning and understanding between different peoples.

The Foundation embodies the shared governmental responsibility for culture in Germany. The Federal Government and the sixteen individual states share the legal and financial responsibility, a living manifestation of constitutional reality.

In 2007, the Prussian Cultural Heritage Foundation celebrated its 50th anniversary.

Key personnel

Monika Hagedorn-Saupe studied mathematics, sociology, psychology, and education at the Ruhr-Universität Bochum, at Kings College London, and at the Freie Universität Berlin, with a focus on adult education. Since 1985, she has been staff member of the Institut für Museumsforschung (Staatliche Museen zu Berlin, Stiftung Preußischer Kulturbesitz), overseeing the annual visitor statistics of all German museums. Since 1994, she has been Head of the department "Visitor-related museum research and museum statistics", is responsible for several European projects and acts as the Deputy Director of the Institute.

Since 1997 she chairs the Special Interest Group on Documentation (Fachgruppe Dokumentation) in the German museum association (Deutscher Museumsbund e.V.) and is Secretary of CIDOC, the documentation committee in ICOM. In 2001, she was nominated from the German Federal government to participate in the European NRG (National Representatives Group on Digitisation in Culture). She is continuously teaching museology at the University of Applied Sciences FHTW in Berlin, and in Frankfurt/Oder, and is Honorary Professor at the FHTW since 2006.

12 – UNIMAR

Philipps-Universität Marburg, Germany

Being a central unit of the Philipps-Universität in Marburg, the German Documentation Centre for Art History “Deutsches Dokumentationszentrum für Kunstgeschichte - Bildarchiv Foto Marburg” is a national and international research and service institute.

Its mission is to collect, index and make available photographs related to European art and architecture, as well as to conduct research on the history, practice and theory of how visual cultural assets are passed on. With its roughly 1.7 million photographs, Foto Marburg is one of the largest image archives on European art and architecture.

Since Foto Marburg publishes the pictorial material and the indexing data of more than 80 partner institutes, it has many years of experience with digitization and cataloguing of large amounts of material, managing cooperative structures, implementing documentation standards, and publishing heterogeneous data in portals. Its Partners are as well museums, offices for the protection of historic monuments, libraries and research institutes.

Foto Marburg is actively involved in standardization work for the museum community on German and international level, together with the German Museum Association, ICOM-CIDOC, and other stakeholders like the Getty. Within the EU-funded ATHENA project Foto Marburg provided its expertise in identifying standards and developing recommendations, and conducted the practical ingestion of data into Europeana for several Partners, including its own digitized inventory. As consortium partner in the EU-funded Linked Heritage project Foto Marburg contributes particularly to the coordination of content, training, and the exploration of linking cultural heritage information. Foto Marburg is also partner in the EU-funded project Partage Plus, on one hand as leader of the Workpackage 3 “Metadata Enrichment”, and on the other hand digitising the largest amount of content in the project.

Key personnel

Regine Stein, Head of Information Technology at Foto Marburg. She specialises in data mapping and merging from all kinds of source databases and aligning them with controlled terminology, including all aspects of semantic interoperability and knowledge management. Graduated in mathematics, she is involved in standardization work for the museum community since 2001, and is leading Foto Marburg’s contribution to the Europeana related and other projects concerning access to digital cultural heritage content. She provides leadership for the development and implementation of LIDO, the CIDOC-CRM based metadata standard for contributing cultural heritage information to portals, from its beginnings in 2006 through the ATHENA project to its centralization within CIDOC. She is Secretary of CIDOC, the ICOM International Committee for Documentation.

Angela Kailus, Vice-Director of Foto Marburg. She is responsible for the management of the Bildindex database, and especially for the high-quality integration of data and digitised media delivered by more than 80 partner organisations. This includes the management and quality-check of digitisation projects, the respective workflow as well as their results with regards to art-historic aspects.

13 – NTUA**National Technical University of Athens, Greece**

The Image, Video and Intelligent Multimedia Systems Lab (IVML, www.image.ntua.gr) was established in 1988, in the School of Computer and Electrical Engineering of NTUA. The members of the Lab (which are about 35, including research scientists, researchers, PhD students, programmers, and supporting staff) are active members of the research community having published more than 100 journal and 200 international conference contributions. Prof. S. Kollias and Dr. G. Stamou have co-edited a book on “Multimedia and Semantic Web”, published by Wiley in June 2005. IVML has organised ICANN-2006, SAMT-2006, on semantic multimedia analysis, WIAMIS-2007 & CBMI-2009 on content based multimedia analysis. IVML has been involved in about a hundred European R&D projects.

IVML participates in the design and implementation of intelligent semantic analysis and retrieval of multimedia content, following the MPEG (4,7,21) and Semantic Web standards. IVML has participated in the FP6 IP ACEMEDIA, NoE MUSCLE, NoE Knowledge-Web, NoE K-Space, IP Mesh, IP X-Media, STREP Boemie, IP We-Know-It IP. IVML has been a key technological member in the Digital Libraries and particularly in the EUROPEANA developments. S. Kollias has been a member of the EC ‘Interoperability Group’ on Digital Libraries in 2007, and a member of the Member States Expert Group on Digital Libraries (2007-). He has organised the Workshop on “Semantic Interoperability in the European Digital Library” in the European Semantic Web Conference, 2008. IVML has participated in the ICT E-Culture Imagination project, on knowledge-based access to historical content, in Videoactive & EU_Screen projects, in Michael Plus, in MinervaEC & EDLNet NoE. IVML participated in the Europeana v1.0 Network, Europeana Connect, ATHENA, Judaica, Carare, E-CLAP, Linked Heritage, DCA, dealing with content analysis and interoperability issues in EUROPEANA. In this framework they have developed the MINT tool for metadata interoperability that is being used by EUROPEANA and has been selected as one of six beta sprints by the evolving Digital Public Library of America.

Key personnel

Prof. Stefanos Kollias, received the Diploma degree in Electrical Engineering from NTUA in 1979, the M.Sc degree in Communication Engineering from the University of Manchester, U.K., in 1980, and the PhD degree in Signal Processing from the Computer Science Division of NTUA in 1984. In 1987-88 he was a Visiting Research Scientist in the Department of Electrical Engineering and the Centre for Telecommunications Research, Columbia University, New York, U.S.A. Since 1997 he is Professor of NTUA and Director of IVML.

Dr Giorgos Stamou, PhD 1998, Lecturer in EECE Department of NTUA; expertise in description logics, logic programming, fuzzy logic, neural networks, ontologies, digital archives, semantic multimedia annotation and semantic interoperability; he is the W3C AC rep of NTUA in Rule Interchange Format WG, Web Ontology Language WG, Uncertainty Reasoning for the Web (URW3) XG, RuleML & Fuzzy RuleML.

Publications:

- I. Kollia, V. Tzouvaras, N. Drosopoulos and G. Stamou, ‘A Systemic Approach for Effective Semantic Access to Cultural Content’, *Semantic Web Journal*, 2012.
- K. Raftopoulos, S. Kollias, ‘Mining User Queries with Markov Chains: Application to Online Image Retrieval’, *IEEE Trans. on Knowledge and Data Engineering*, 2012.
- G. Stoilos, J. Pan, G. Stamou, ‘Fuzzy extensions of OWL: Logical properties and reduction to fuzzy description logics’, *Intl. Journal of Approximate Reasoning*, 2010.

14 – HMCT

Hellenic Ministry of Culture & Tourism, Greece

The Hellenic Ministry of Culture & Tourism (HMCT) is responsible for the protection and promotion of the cultural heritage of Greece. It is also responsible for monitoring cultural developments and funding content digitization, access and preservation. In the framework of the National Information Society Programme during the last ten years, HMCT has funded numerous projects, focusing on digitisation of cultural content, providing access to the digitised content and promoting digital culture worldwide.

Specific targets of HMCT include facilitating access to this large amount of digitised cultural content, and supporting cultural institutions to promote their content through European and international networks. The Directorate of Informatics and Telecommunications participated in the eTen Michael Plus project, currently operating and enriching the national MICHAEL instance, in the eContentPlus ATHENA project to coordinate and support cultural institutions for providing content to EUROPEANA, and is currently participating, under the same role, in the CIP ICT-PSP Linked Heritage project. It is also working towards a national aggregator for unified access to the Hellenic cultural content. HMCT is also a partner in CARARE and DC-NET projects.

The Directorate of Informatics and Telecommunications has established communication and cooperation with a large network of Greek cultural institutions, across domains, and has worked with them through ATHENA, Michael Plus, and the National Information Society Programme, to support and promote the results of their digitisation and online accessibility activities. This successful cooperation network can be further extended through the AthenaPlus project.

Key personnel

Constantinos Chatzichristos is Head of the Directorate of Informatics & Telecommunications at the Hellenic Ministry of Culture & Tourism. He has long experience with ICT applications and services for the Ministry. He is also in charge of the HMCT participation in the EU-funded projects Linked Heritage, ATHENA and DC-NET and is actively involved in national projects in the area of digital cultural heritage. He holds a degree in Economics from the Athens University of Economics & Business.

Katerina Moutogianni works at the Directorate of Informatics & Telecommunications at the Hellenic Ministry of Culture & Tourism, on projects concerning online access to digital cultural heritage, including the EU-funded projects Linked Heritage, ATHENA and Michael Plus, and the national collections.culture.gr portal of the Ministry. She has previously worked at the Hellenic Culture Organisation, participating in a number of e-culture projects for museums and archaeological sites throughout Greece. She has also worked as a research assistant in the area of information retrieval at the Department of Computer Science, Queen Mary University of London and as a multimedia developer at the IT Research and Development Unit, University of the Arts London. She holds a degree in Computer Science from University of Athens, Greece and an MSc in Human Computer Interaction from University of London, UK.

Maria A. Kotlida is an Electrical and Computer Engineer. She received her Diploma in Electrical and Computer Engineering from the National Technical University of Athens (NTUA) in 2003. She is a PhD candidate in NTUA. Her PhD thesis is on the 'Development and Comparison of static electrical equivalents and application of these to the dynamic analysis of bulk interconnected systems'. She speaks English fluently and good Italian. From 2004 to 2007 she had occupied the position of Electrical and Computer Engineering Researcher in NTUA. Simultaneously, from 2004 to 2006 she was working as a professor at the School of Pedagogical and Technological Education (SPTE) and especially at the departments of Electrical, Electronic and Mechanical Engineering Educators, as well as at the Public Training Institute (PTI) of Keratsini, teaching automatic control systems. From November 2006 till January 2011 she had occupied the position of computer engineer at Hellenic Telecommunications Organization (OTE S.A.) (Department of Networking Designing and Department of Network Security). Since February 2010 she is working as a computer engineer at the Information Technology and Telecommunications Directorate of Hellenic Ministry of Culture and Tourism.

15 – PIM

Petőfi Irodalmi Múzeum, Hungary

The roots of the Museum goes back to 1909. As an independent institution in 1954 the Museum of Literature Petőfi was founded with the aim of collecting and preserving records of Hungarian literature.

We work hard so that the writers' and poets' legacies, correspondence, libraries, sound and video recordings, photographs, furniture, personal belongings, the documents of the editorial offices of literary periodicals and literary-type publishing houses – that is, the representatives of Hungarian literature both within and beyond the borders – should become part of our collection.

The present structure of the institution, specialized in the reception of complex authorial, literary legacies, professional processing, restoration and storage took shape in 1970. The collection departments are – the Manuscript Archive, the Library, the Art and Relics Collection and the Audiovisual Library.

The Museum's tasks have included the supervision of literary collections and exhibitions in areas outside Budapest ever since the institution was established. As a result, the Museum of Literature Petőfi has become an institution with nationwide authority in the field of Hungarian literary museology; it offers help with the organization of exhibitions in memorial houses and memorial rooms in areas outside Budapest, and also remains in touch with memorial places abroad.

Since its establishment, the Museum of Literature has organized almost 500 exhibitions and issued more than 300 scholarly and popularising publications and exhibition catalogues. We hope that our work over the past fifty years has earned us a position in scientific life. We make use of the intellectual value of our collections, catalogues and databanks in critical editions, philological and textological research. Our museologists participate in university education as lecturers, and our volumes of essays and studies appear in the technical literature of cult research and literary museology.

In the last year an integrated system has been developed that integrated the different small databases, the conversion progress has been made according to national and international standards.

We built a unified electronic service which is based on portal-technology and combined and published the digitalized content of the Museum for local and far-away customers.

Key personnel

Zsolt Bánki, Head of the Library and Media-Collection in the Museum of Literature Petőfi. Graduated at the Berzsenyi Dániel University (Szombathely) as Librarian and Teacher of Hungarian Grammar and Literature, then at the Pázmány Péter Catholic University (Budapest) in Theology, and at the Eötvös Loránd University of Sciences (Budapest) as Library information manager. He worked in several libraries, from 1993 to 2005 in the National Széchényi Library (Budapest) as Councillor Information Manager at Department Of Information Development, Developing integrated system and databases. He speaks German and English, held several lectures and wrote studies about library informatics.

Gábor Palkó, PhD., researcher, Library and Media-Collection. Graduated at the Eötvös Loránd University, Budapest (Hungarian Language and Literature, MA, 1997), he defended his PhD thesis in 2002 at the Eötvös Loránd University, Budapest (Comparative Literature). He made longer study-trips in the Netherlands and in Austria. He wrote two books about the literature in the XX. century, post-modern literature and literary theory, held several lectures. He teaches at the Eötvös University. He is active as educational expert.

16 – BNCRM**Biblioteca nazionale centrale di Roma “Vittorio Emanuele II”, Italy**

The Biblioteca Nazionale Centrale di Roma was inaugurated the 14th of March 1876 in a hall of the monumental 16th century Palace of the "Collegio Romano", centre of the ancient Bibliotheca Secreta or Major of Jesuits. This Bibliotheca constituted the original core of the new institution together with the manuscripts and printed books of 69 libraries devolved to the Reign of Italy after the suppression of religious corporations of Rome in 1873. One century later, the library was transferred in the new site, into the archaeological area of Castro Pretorio, between the University of Rome and Termini station, realized from the project of the architects Massimo Castellazzi, Tullio Dell'Anese and Annibale Vitellozzi. BNCRM is the pilot centre for the creation of the National Library System (SBN), whose main aims are the automation of library services and the constitution of a national index of the collections of Italian libraries. At the present time the BNCRM holds about 6.000.000 printed books, more than 50.000 periodical headings, 2.000 incunabula, 8.000 manuscripts, 25.000 editions of XVI century, 20.000 geographical maps, 10.000 engravings and about 120.000 autographs, 34.000 doctorate degree thesis. Audio-visual and multimedia heritage increases constantly. The cultural wealth expressed by these numbers makes the BNCRM the most important Italian library, as well as the only one that can document the entire development of the cultural life of the Nation. Since 1870 the BNCRM has the legal deposit for all that is printed in Italy.

From 1886 the BNCRM published the "Bollettino delle opera moderne straniere". The bulletin of the foreign modern printed books is a collective catalogue that records the foreign monographic publications which have been acquired by public Italian libraries

The BNCRM is also the centre for the creation of the National Library System (SBN), whose main aim is the automation of library services and the constitution of a national index of the Italian libraries collections. Recently the Library is involved in projects, initiatives and experimentations on the preservation of digital contents.

Within its project activities BNCRM will develop a virtual exhibition on "A Powder Magazine of Fantasy": Bibliographic and iconographic route dedicated to the first Futurist Manifesto, highlighting the most famous books, posters and magazines from his collection and, in particular the extraordinary collection kept in the twentieth century Falqui Fund.

Key personnel

Oswaldo Avallone, Director of the BNCRM. Graduated in Literature at the University of Rome and postgraduate he has specialization course in the system for sorting State-region competencies, SSPA (Higher School of Public Administration); introductory course on information technology, SSPA; seminar in application of Law 241/90, SSPA; 1997, Manager dell'Arte master, Rome; 1998, course for Eurotutors, SSPA, Caserta. Since 1985 he is on the permanent staff of the Ministry for Cultural Affairs. He was Director of the Public Library "A. Baldini" of Rome from 1996 to 1998; from 2002 he is the Director of the Central National Library of Rome. From Sept. 2008 to Sept. 2009, acting dir. Biblioteca Nazionale "Sagarriga Visconti Volpi" of Bari. He represented the Ministry for Cultural Heritage in various National Foundations and Committees and he is a member of several international Committees (CDNL, CENL, CERL, IFLA, ELAG). He published several articles and surveys in professional literature.

Silvana de Capua, Head of Studies and Publications Office, BNCRM. Graduated in Literature at the University of Rome. Since 1999 she is on the permanent staff of the Ministry for Cultural Heritage. She is the responsible of the Studies and Publications and of the European and International Projects Office of the Central National Library of Rome. She is involved in the digitization strategy of the BNCRM.

Maria Luisa Jacini, Head of the Reproduction Services, BNCRM. Graduate in Literature at the University of Roma in 1976, graduate in Library Science and Bibliography at Scuola Vaticana di Biblioteconomia e Bibliografia in 1978. From 1979 to 1981 she coordinated some activities requested by BNCRM for "E. Falqui" reading room. Since 1983 she is on the permanent staff of the Ministry for cultural Heritage. Since 2003 she has been involved in the digitization projects of BNCRM.

Alessandra Mariani, Head of International Interlibrary Loan and International Relations, BNCRM. Graduated in Foreign Languages and Literatures at La Sapienza University in Rome, after that she followed many

language courses in Belgium where she lived for several years. At present in charge of the Loan, the International Interlibrary Loan and International Relations of the BNCRM. National Expert at the UE in Brussels from 1987 to 1990. Temporary cooperation with the management Office of the ERASMUS Programme in Brussels from 1990 to 1995. On secondment at the Cabinet of the Hon. Emma Bonino, Minister of International Commerce, working with the Diplomatic Counsellor from 2007 to 2008.

17 – META

M.E.T.A. SRL

META is a multimedia engineering company that operates in the sector of information technology, design and communication. It has its office in Florence, Italy and its manpower amounts to nearly 15 persons; other 10 persons are more or less stable external collaborators. META offers products and services for use in semantic search engines, interactive and scientific publishing and the world of e-learning, promotes the development of state-of-the-art engineering solutions and participates in strategic research initiatives in collaboration with national and international Partners (numerous universities, the Tuscany High Technology Network, the CNR, National Research Council). META draws on its experience and know-how to offer products and services in a number of primary sectors: Knowledge base platform; Enterprise search engine; Semantic web solutions; integrated solutions for digital libraries and multimedia archives; multimedia publishing on artistic and cultural themes, edutainment, scientific documentation; multimedia consoles for management control, decision support and business process reengineering; interactive multimedia systems for education and professional training; and others.

META works on the development of e-learning solutions, cultural heritage and contents use through web based semantic technologies, Natural Language Processing and Text Mining.

Among the products distributed by META there are:

- METAKMS: a system for analysing non-structured multi-format and multi-source document that automatically extracts relevant concepts and associated documents having similar characters;
- METASEARCH: searching engine for non-structure information based on an information classifying engine operating on a statistical and linguistic basis and a relevance calculation system using case base reasoning techniques;
- Mailans & METASMS, automatic e-mail and SMSs respondents based on techniques of conceptual analyses of the requests and of artificial intelligence;

Rayform- META has realized a 3D real-time rendering engine, called Rayform with an integrated physics engine. Rayform has been used in various applications for cultural heritage such as the reconstruction of the theatre "La Fenice" in Venice, presented as part of the MINERVA project, the reconstruction of the Theatre of Venafrò, "Sailing from the island Elba to Portus Pisanus" (the 'today Livorno) in Roman times, and many others.

META has recently realized with other two Partners two of the most important portals of the Italian Ministry for Cultural Heritage: CulturalItalia and Internet Culturale. The first one is the Italian National Aggregator for Europeana. In these projects META has developed the faceted search engine and the interoperability layer.

META has also developed the open source Content Management system called Museo & WEB CMS for the Italian Cultural Heritage Ministry. M&W CMS is a vertical CMS specialized for creating websites for Cultural institutions. M&W CMS is now used by more than 200 hundred cultural institutions (libraries, museums, archives etc). The building of this tool started in the framework of the MINERVA project, coordinated by the Italian Ministry of Cultural Heritage.

META has cooperated in the development of the portal www.14-18.it and to make it interoperable with Europeana in the framework of the project Europeana Collections 14-18. Moreover, META has built the infrastructure for making interoperable with Europeana the Judaica collections of the State Archive of Venice in the framework of the Judaica Europeana project.

META was also partner of the CUSTOM project, funded by the European Commission and Tuscany Region, and coordinated by Telecom Italia, building the content management system that enables the delivery of services dedicated to the cultural heritage in a cloud platform via SaaS, and building the search engine and the harvester system.

Since several years META is a partner of Zanichelli Spa, a leading Italian publisher specialized in dictionaries and educational publications, for the creation of digital versions of their works. META and Zanichelli have published one of the largest lexicographic database in the world and developed dozens of apps for popular mobile platforms (iPhone OS, Android).

Key personnel

Paolo Ongaro graduates in Information Sciences at the University of Pisa (Italy). Since 1993 he has been working on the development and realization of multimedia and edutainment products, design and project management with companies specialised in technological transfer and system integrator at national and international level; management and administration of computer companies. He supervised the design and development of the CMS Museo & WEB for the Italian Ministry of Cultural Heritage. He is a member of the working group for the establishment of good practices in the use of 3D for Cultural Heritage. He contributed to the definition of the guidelines for realising online virtual exhibition edited by the Italian Ministry for Cultural Heritage. At present he works on: preparation and design of research and development projects, production management, management of relations with the users, needs analysis, management of the delivery phases of subcontracting. It is responsible for the activities of delivery and research and development of META Srl company.

Alberto Raggioli graduates in Electronics Engineering in 1995, pathway in Digital Communications and Telematics at the University of Florence (Italy). Since 1997 he works in the ICT field. He cooperated in many European projects (IST; Internet for safe, Cultura 2000) and national research and development projects in the field of digital libraries and of knowledge management (Bambi, Comtoci, PoeSIA). At present he is working in the management of complex projects, requirements analysis, broad and detailed design, definition of the research projects, editing of technical documentation, design of architectures of client-server and web-based applications and multi-tier applications, database and data warehouse design, development of NLP algorithms for semantic research. He cooperates with some Information and Engineering faculties supervising theses on the field of automated tools for linguistic analysis. It is the technical director of META Srl company with which he has been working since 1998.

18 – NMI

National Museum of Ireland

The National Museum of Ireland is Ireland's premier cultural institution and home to the greatest collections of Irish material heritage, culture and natural history in the world. Its purpose is to:

- Collect, preserve, promote and exhibit all examples of Ireland's portable material heritage and natural history
- Interpret and promote the collections and make them accessible to audiences at home and abroad
- Be the authoritative voice on the relevant aspects of Irish heritage, culture and natural history
- Maintain the lead role in education, research and scholarship pertaining to the collections and their contexts

The National Museum of Ireland consists of four sites, three in Dublin and one in Castlebar, Co Mayo. These are Decorative Arts and History, Collins Barracks; Antiquities, Kildare Street; Natural History, Merrion Street and Irish Folklife at Turlough Park, Castlebar. There are also National Museum stores at Swords, Co Dublin, Lanesborough, Co. Roscommon and Daingean, Co. Offaly.

In 2011, the National Museum attracted over 1.01 million visitors to its four sites.

Key personnel

Anne Grady joined the Museum in 2003 as Head of Administration. She is responsible for securing and managing the Museum's financial resources; human resource management, including industrial relations; and managing and developing information communication technology systems. Her career to-date has centred on working in both the heritage and cultural areas of the public service in Ireland.

Her qualifications include: BA; Higher Diploma in Education; a Master's of Science; and post-graduate diploma in Corporate Governance. Publications to date include papers on visitor access to cultural/heritage sites; reform of the Irish Public Service; and audit committees.

Olivier Kazmierczak joined the Museum in 2007 as ICT Manager. He is responsible for overseeing the strategy, budget, infrastructure, development and operations for the Museum's telecommunication and information systems, including its website museum.ie. His responsibilities also include overseeing the development and standards for interactive, audio-guides and audio-visual presentations for the Museum galleries.

Olivier has over 21 years of professional experience. Prior to joining the Museum, he worked with EMC Captiva (document capture, classification and management) in France and in Ireland, as site director of a software development centre and local agency, and as worldwide quality director. Previous experience includes project and website management with the Irish Marine Institute and consultancy in the domains of knowledge management, databases, web and enterprise content management, data mining and custom software development, as well as photography, video-editing and multimedia production.

Olivier holds a "Diplôme d'Ingénieur" (French Master's degree in Engineering), and is a postgraduate of Trinity College, Dublin (MSc. MIS-Management of Information Systems). Professional training includes best practices and methodologies in IT services (ITIL), in software engineering (SDLC, Agile), in process management & improvement (ISO 9000, CMMI, Lean, 6Sigma) and in project management (Prince2, PMI). He currently studies towards a MBA.

Olivier is currently a board member of the Statutory Board of the National Museum of Ireland.

19 – LAM

Lietuvos dailes muziejus, Lithuania

The Lithuanian Art Museum (LAM) is an institutional member of the Lithuanian Museums Association and the International Committee of Museums (ICOM). The governing body is the Ministry of Culture of the Republic of Lithuania.

The Lithuanian Art Museum is a public institution granted national museum status by the Government of Lithuania in 1997. Originally founded in 1933, it is distinguished for its rich fine arts collection that totals about 230,000 items representing historic and contemporary master paintings, sculpture, prints and drawings, applied and folk art as well rare amber stone and jewellery specimens and other museum objects.

The museum aims to collect, preserve, study and research as well as to promote art treasures that are at its disposal, and takes an active role in regularly organizing exhibitions and cultural events. Since 2009 it has been responsible for the organization and coordination of digitisation activities in the Lithuanian museums.

Since 2000 the Lithuanian Art Museum has participated in many nationally and internationally significant projects. The museum's strategic guidelines are well reflected in various art and museum infrastructure improvement projects as well as in its digitisation activities.

In 2009 the Government of the Republic of Lithuania ratified the strategic plan of cultural heritage digitisation for 2009–2013. The Lithuanian Art Museum was tasked with coordinating and organising the digitisation of cultural objects preserved at the Lithuanian state museums; it was also made responsible for the archiving, protection and dissemination of data that museums have about their cultural objects. Furthermore, LAM was set to develop the Lithuanian Integral Museum Information System (LIMIS), a tool that apart from many other functions will help to provide data to Europeana as well as employ this kind of information in various ways for national needs. LIMIS will provide an important tool for the organisation of virtual exhibitions and the presentation of previously hidden cultural treasures.

In recent years, LAM has participated in or carried out several projects on cultural heritage digitisation, cultural content creation, preservation, archiving, and publicising. These are:

The installation of the Lithuanian Integral Museum Information System (LIMIS) in the Lithuanian museum (2010–2012). – European Structural Funds and national funding;

- “The development of the Integrated Virtual Library Information System (IVLIS) and the national portal of Lithuanian cultural heritage “ePaveldas” (www.epaveldas.lt)” (2005–2008, 2010–2012). – European Structural Funds and national funding;
- “Skills Training Programme for Museum Staff Working in Exhibit Digitisation and Automated Stock-taking Field” (2009–2011). – National funding programme;
- “Lithuanian Museums Virtual Exhibition Information System” (2010–2011). – National funding programme;
- Information-methodical internet publication “The Digitisation of Museum Assets” www.emuziejai.lt (2010–2011). – National funding programme;
- The development of the joint Lithuanian museums portal “Lietuvos muziejai“ www.muziejai.lt (1999–2011). – National funding programme;
- “The developing of the Collection Information System (RIS)” (2004–2008). – National funding programme;
- Participation in the ATHENA project (as content providers). 2010–2011;
- Europeana Photography project partner. 2012–2015. – European Commission ICT PSP programme.

Key personnel

Agnė Pulokaitė graduated from Vilnius University with a master's degree in world literature and cinema. Professional experience: September, 2004–present, mostly in film festivals and television (film translation, subtitling). She has worked at the Lithuanian Museums' Centre for Information, Digitisation and LIMIS (LM IDC LIMIS) since the spring of 2010. Her main fields of work are translation into English or Lithuanian of both thesauri for a newly developed Lithuanian Integral Museum Information System (LIMIS) and various texts, articles and everyday material for the museum website, international publications, projects, etc. She also contributes to several international projects that the LAM participates in. She has a good knowledge of Lithuanian, English and Russian as well as intermediate knowledge of French. Contacts: agne@limis.lt

Danutė Mukienė is a journalist, book editor and publisher. In 1984 she graduated from Vilnius University where she obtained a diploma in Journalism. She has worked as a journalist since 1975 in various newspapers, journals and local radio. For nearly 20 years, she has been the editor of culture and education journal Samogitian Land (“Žemaičių žemė”) in Samogitian and has published about 30 books so far. Since 1999 she has been working at the Lithuanian Art Museum and was in charge of LAM’s Digital Publishing Centre. She was appointed as the head of the Lithuanian Museums’ Centre for Information, Digitisation and LIMIS in July 2009. In 2006 she received the award from the Ministry of Culture for achievements in the museum field. She speaks Lithuanian, Russian and has background knowledge in English. Contacts: danute@limis.lt

20 – ICIMSS

Stowarzyszenie Międzynarodowe Centrum Zarządzania Informacją, Poland

Stowarzyszenie Międzynarodowe Centrum Zarządzania Informacją - The International Centre for Information Management System, Services (ICIMSS), Torun, Poland www.icimss.edu.pl is a scientific association established by 62 members from over 20 countries. Its activities are oriented into information, education, and culture.

Information services are delivered to the users through the 8 dedicated discussion lists that include about 3,000 addresses served. For the educational purpose a number of short courses have been organized. In addition, from 1997 to 2003 five experimental courses on a level of the postgraduate school were delivered to the students from 16 countries. Courses were devoted to modern management of the memory institutions and to modern technology. ICIMSS goals also include promotion of intercultural communication and research. ICIMSS participates in a wide selection of projects, including the EC funded projects by such programmes as TEMPUS, IST, eTEN, Leonardo da Vinci, eContent, Central Europe.

The EC projects include: TEMPUS: training for local administration in ICT; EXPLOIT – support for specialists from memory institutions; DEDICATE – distance learning courses in information awareness; CULTIVATE - cooperation between cultural heritage institutions such as archives, libraries and museums, DELOS – digital library issues; MINERVA – coordinating digitisation in Europe; EURIDICE – pictures bank creation for distance learning courses; Training for the Stage – professional profiles in administration, management, and promotion of performed arts; EMapps.com – alternative reality educational games creation; MICHAEL – national registers of digital collections, CUSTODES – intends to increase the socio-economic value of cultural sites in the participating regions, ATHENA - a project which contributed to content provision to Europeana, and it's follow-up Linked Heritage, as well as EuropeanaPhotography.

ICIMSS is interested in modern photography and has a collection of around 200.000 photos with about 50.000 available on-line with historic description and metadata. Some of the descriptions has been translated into English.

ICIMSS will contribute to the project with own resources and it plans to include around 10-30 small museum collections.

Key personnel

Maria Sliwinska, ICIMSS director with expertise in library and information science, teaching, editing experience. Holds a PhD in bibliology. Participation in a dozen of EC projects. She was a member of the Library Council serving the Ministry of Culture, and in 2005 represented the Minister of Culture at the MINERVA project Board. In 1999 - 2001 she served as the ICT Stories Project jury member. In 1993-1999 she was the Deputy Director of the Nicholas Copernicus University Library in Torun responsible for its computerisation and modernisation. At present she is an adjunct professor at the Faculty of Politics and International Studies where she teaches at journalism studies, and cultural studies at the other department. She is a member of Europeana Dissemination Group.

Piotr Koźurno studied Physics and History of Art at Nicolaus Copernicus University in Toruń. Earlier he attended piano classes in the music school. His professional interest in the history of art is focused on Medieval and 19th century architecture, and includes also photographic documentation of historical buildings. Since 2006 he has been working in the International Centre for Information Management Systems and Services, where he is the head of Documentation and Promotion of Cultural Heritage Department. He is involved in the European projects MICHAEL, ATHENA, and Custodes, dealing with culture, and promotion of art and culture. He is responsible for the Polish section of the international portal Michael-culture. He also is a contributor to Wikipedia and administrator of the photo forum in the local branch of the newspaper Gazeta Wyborcza (e-edition).

21 – IPCHS

Javni Zavod Republike Slovenije Za Varstvo Kulturne Dediščine / Institute for the Protection of Cultural Heritage of Slovenia

Institute for the Protection of Cultural Heritage of Slovenia (IPCHS) is a national public institution, established by the State for performing the public service pursuant to Heritage Protection Act. It is responsible for the implementation of administrative and technical tasks relating to the protection of cultural heritage. IPCHS comprises two main units: Cultural Heritage Service (with 7 regional units covering the territory of Slovenia) and Conservation Centre (with 2 departments: Restoration Centre and Preventive Archaeology Centre).

Among other tasks, defined in the Heritage Protection Act, IPCHS:

- identifies, documents, studies and evaluates immovable heritage, as well as movable and intangible heritage in the context of immovable heritage,
- implements conservation measures and takes care for the prevention of damage,
- interprets heritage for the general public to develop awareness of its value,
- carries out research projects in the field of protection.

Selected relevant ongoing projects: ICT PS Programme (CARARE - Connecting ARchaeology and ARchitecture in Europeana, Linked Heritage – Coordination of Standards and Technologies for the enrichment of Europeana), Culture 2007 – 2013 (CEC - Cradles of European Culture, a European Network for Interpreting and Presenting Early Medieval Cultural Heritage), 7th Framework Programme (SYDDARTA- SYstem for Digitalization and Diagnosis in ART Applications, HEROMAT - Protection of Cultural Heritage Objects with Multifunctional Advanced Materials), Cross Border Programmes (PARSJAd - Archaeological Parks of Northern Adriatic, Shared Heritage - Strategic Project for Identification and Accessibility of Shared Cultural Heritage, InterArch Steiermark - Interactive Archaeological Heritage of Austrian and Slovenian Styria).

Key personnel

Franc J. Zakrajsek. Senior researcher, and independent consultant in the areas of geographic information systems, GIS portals, GIS web services, digital cultural content, registering movable and immovable cultural heritage and building the national and cross-national interoperability frameworks. He coordinated the preparation of the strategy and action plan for e-culture and digitalization of digital cultural content concerns libraries, museums, archives, audiovisual and other cultural institutions in Slovenia. He is one of the founders of the Register of the Cultural Heritage in Slovenia. He is also a project leader and main developer of several Web2 projects concerning digital cultural content. He has been the coordinator of the presidential conference on Culture On Line, held in Brdo in June 2007 during the Slovenian Presidency of the EU. He was acting as member of Member's states expert group on digitalization and digital preservation established by the European Commission. He is coordinating ATHENA, DC-Net, Indicate, Carare and LinkedHeritage EU projects for Slovenia.

Jelka Pirkovič. She has held different positions in the Slovenian heritage conservation authorities, the Ministry of Culture and at the Ljubljana University (Faculty of Arts – conservation of cultural / archaeological heritage). From 2004 to 2008, she held the position of State Secretary at the Ministry of Culture of Slovenia. In 2009 she was appointed Director General of the Institute of the Protection of Cultural Heritage of Slovenia. From 1993 on, she is the Head of the Slovenian delegation to the Cultural Heritage Committee of the Council of Europe (now Steering Committee for Cultural Heritage, Landscape) and she served as Chair of the Committee in 2004 – 2006, and as a member of group of experts for drafting the Faro Framework Convention on the value of cultural heritage for society. In her professional career, she has been active as a researcher of urban history, urban morphology, architecture of the nineteenth and twentieth century, and theory and history conservation. She is the co-author of Art Nouveau Architecture in Slovenia, 1997, one of the leading authors of the Medieval Towns, 1999, and the author of Integrated Conservation of Historic Urban and Rural Areas, 2005, and the main author of Heritage Protection Act (2008).

22 – GenCat

Departament de Cultura – Generalitat de Catalunya, Spain

The mission of the Culture Department of the Autonomous Government of Catalonia is to preserve, promote and disseminate all forms of art and culture. The Culture Department is responsible for Government policy on creative industries, cultural heritage, libraries, museums and archives. Our aim is to improve the quality of life for all through cultural activities, to support the pursuit of excellence and creativity in the cultural sector. Creativity and innovation are the core of our strategy. The Generalitat works jointly with the Catalan cultural institutions and is partner of Linked Heritage and EuropeanaPhotography projects.

Key personnel

Maria Dolors Portus Vinyeta has a degree in Philosophy, Postgraduate Diploma in Planning and Management of Libraries and a Diploma in Library and Information Studies. She is currently Head of a unit focusing on strategy, innovation and communication in the digital environment at the Department of Culture of the Generalitat de Catalunya. Previously, she has been head of Libraries and Bibliographic Heritage Department.

Anna Busom Arruebo, Bachelor's degree in Library Science, Master's degree in Library Science, Audiovisual Communication and in Art History. She is currently Head of the Technical Support and Documentation Service of the Directorate General for Cultural Heritage (Department of Culture, Generalitat de Catalunya).

She has taken part in several cooperative projects such as the IFLA's Art Libraries Directory or as a member and coordinator of the internet work group of the Spanish Association of the Librarians and Architecture Libraries.

23 – i2CAT

Fundacio Privada i2CAT, Internet i Innovacio Digital a Catalunya, Spain

The i2CAT Foundation, Internet and Digital Innovation in Catalonia, is a research organization located in Barcelona (Spain), whose mission is to promote research and innovation in advanced Internet technology at a regional, national and international level. The i2CAT model is based in the user-driven research and collaboration between the public, the private sectors and the academic world. As far as the international dimension is concerned, i2CAT participates in European programmes through research networks such as GÉANT2 and technological platforms such as NEM (Networked and Electronic Media). In Spain, i2CAT is a leading institution in the area of media applications and services to the cultural sector, with projects like “Opera Oberta” with “Gran Teatre del Liceu de Barcelona”, and the “Anella Cultural” (Cultural Ring), an advanced Internet infrastructure for cultural institutions. Since 2000 i2CAT is partner in this area with Internet2, Cinegrid, KAIST (Korea), RedIris and RNP in Brazil.

The i2CAT Foundation is organized into five sector clusters: Network Technologies cluster, Media cluster, Health cluster, Education cluster, Industry cluster. The aim of these clusters is to carry out innovation projects and to deploy, evaluate and approve technologies, applications and innovative IP services. Each cluster heads its own projects, using a common infrastructure of development called Technological Platform, consisting of the following two areas: NetCAT (an experimental network with a 10 Gbps backbone) and MediaCAT (a multimedia laboratory with advanced audiovisual equipments).

Key personnel

Sergi Fernandez was born in Vilanova i la Geltrú (Barcelona) on 30th August 1982. He is Engineer in Computer Science and Master in Artificial Intelligence by the Technical University of Catalonia since July 2007. He developed his final degree thesis over automatic ontology construction and worked in the Natural Language Processing Group until his incorporation into i2CAT in May 2008. Since then, he has given support to the coordination of i2CAT audiovisual cluster as project engineer.

Mercè López is Project Manager on eCulture projects at the i2cat Foundation. Degree in Art History (Universitat Autònoma de Barcelona), degree in Archaeology (Université de Toulouse, France) and Master in Museology and Cultural Heritage Management (Universitat de Barcelona). Having worked over the last 10 years for museums, archives, libraries, art companies and the Catalan government, joins the i2cat Foundation in October 2010, where she coordinates projects where cultural heritage meets technology.

24 – CT

Collections Trust, UK

Collections Trust is the UK's independent organisation for collections. We campaign for the public right to access and engage with collections by promoting best practice, encouraging innovation and representing the interests of the sector. CT is an independent registered charity, partly funded by national Partners including the Arts Council England and Museums Galleries Scotland. With over 30 years of experience, CT leads on cultural collections management and the cultural digital agenda in the UK. We work in Partnership with a wide range of organisations both nationally and internationally, including museums, libraries, archives, community archives, higher education institutions, and government agencies and departments.

They have links with a large number of cultural heritage organisations including UKOLN, ICOM, CIDOC, Getty, CHIN, the Collections Australia Network, and the DEN Foundation.

In addition to CT's flagship programmes, the Culture Grid and Collections Link, CT is actively involved in many programmes in the field of cultural management, digital heritage, and digital libraries. Currently these include Europeana related projects such as Linked Heritage, Partage Plus, and Europeana Inside. Other current projects include collaborating with culture-sector organisations to set out *Principles for Linked Data in the Culture Sector*, and working with memory organisations to aggregate Cultural Olympiad content through the Culture Grid.

Key personnel

Nick Poole, Chief Executive Officer, has a wide experience of professional standards, new technologies, legal issues and innovative business models for service delivery in the culture sector. He acts as adviser in the fields of digitisation, standards, rights management and sustainability, and is an expert assessor for a number of national funding agencies. Nick has lectured and published widely in the field of digital culture. He is also the chair and cross-domain representative on the Europeana Network.

Gordon McKenna, International Development Manager, has experience of standardisation in the culture sector. He has been responsible for a range of CT's work programmes and has authored publications in the cultural standards area. He is skilled technologist, with a background in computer sciences and archaeology, and has advised a wide range of cultural organisations on standards and technical issues relating to cultural heritage management.

Phill Purdy, Grid Manager, is an experienced project manager, and has managed the development of the Culture Grid, and is currently working on a project to support the sustainability of digital content in the heritage sector.

The Collections Trust International Team is a new team of 2 members of staff who are responsible for the working on, coordinating and disseminating CT's international offer.

25 – RA

Riksarkivet, Sweden

The National Archives (Riksarkivet) is one of the oldest public agencies in Sweden, with a history leading back to the Middle Ages. Today, the National Archives is charged with the supervision of all public records, generated by central as well as regional and local state authorities. Its commission by law is to preserve, organise and care for the records in order to uphold the legal right of access to public records in the pursuit of justice, continuity of public administration, and facilitating of research. Since the 1990s the National Archives has a National Archival Database for Sweden. The production of digital images of records is very high, but due to legal reason only a part of it is publicly accessible on the web.

The National Archives is, and has, been a partner in several EU framework projects, like EUAN, MINERVA, MinervaPlus, MinervaEC, QVIZ, LEAF, APENet, PROTAGE, DC-NET and Linked Heritage, and is also taking part in European coordination efforts concerning digitisation and digital preservation (Member States' Expert Group on Digitisation and Digital Preservation).

In 2011 Riksarkivet (the National Archives) has been given the task by the Swedish Government to set up a secretariat for coordination of digitisation, on line access and digital preservation for all state cultural heritage institutions. The secretariat (Digisam) has been tasked to support the cultural institutions in their work with the plans for digitisation, for example by producing general advices on setting priorities for digitisation projects. Digisam is also tasked to follow up and evaluate the strategy, and to develop proposals for national guidance on coordinated digital information management and a coordinated and cost-effective long-term digital preservation of collections and archives, including audio-visual archives at the state institutions. The proposal will also include a role-and responsibility for the work on aggregation, digital access and digital preservation for the state cultural heritage sector.

Key personnel

Rolf Källman is Head of Department at The National Archives of Sweden, responsible for the Swedish national coordination of digitisation, digital preservation and Digital access to cultural heritage. Rolf has for more than 30 years worked with cultural heritage and heritage information in local, regional and national museums, and authorities. For the last 15 years he has in various positions been engaged in the work with accessible and usable digital heritage information. As Head of Department at Swedish National Heritage Board Rolf, among other things, was in charge for Swedish Open Cultural Heritage, a national web service for digital heritage information and an aggregator for deliverance to Europeana. Rolf is representing Sweden in Member States' Expert Group on Digitisation and Digital Preservation within the European Commission.

Sanja Halling is Project Coordinator at The National Archives of Sweden, responsible for the Swedish national coordination of digitisation, digital preservation and Digital access to cultural heritage. Sanja has been working in EU projects like DC-NET and Linked Heritage. Halling studied Curatorship, got a Masters degree in History of Art at University of Stockholm, and has studied at Université de Haute Bretagne, France. She worked previously at several museums, cultural organisations, and taught courses in fine arts and history of art.

26 – SAM

Šiauliai "Aušros" Museum, Lithuania

The Šiauliai "Aušros" Museum is a republican budget institution, collecting, keeping, investigating, preserving, restoring and promoting historical, ethnographical, technical and art museum values. The museum has been assigned to the type of historical museums. Šiauliai "Aušros" Museum is funded by the Ministry of Culture.

In 1923, on the initiative of the Patriarch of Lithuanian museology – Pelikšas Bugailiškis – a museum was established in Šiauliai and named after the first Lithuanian newspaper – "Aušra". Today, Šiauliai "Aušros" Museum is one of the largest and most active Lithuanian museums, accumulating, safeguarding, popularizing historical, artistic, technological heritage, helping to get knowledge about the past, to conceive our nowadays, and to create the future. Šiauliai "Aušros" Museum has rich collections of archaeology, arts, photography, ethnography, history, in total – about 250.000 exhibits.

In 2010 at Šiauliai "Aušros" Museum, there was established Šiauliai Regional Museum Digitization Centre. Realizing the strategic plan of cultural heritage digitization, the Museum is coordinating the digitization at regional museums and participating in other digitization activities.

List of projects in which the institution has previously participated or is still implementing

- Cooperated with Association of Lithuanian Museums as a partner in a project "Training Expertise and Abilities of the 21st Century's Museums' Staff" (2006–2009).
- "Restoration of Žaliūkių Wooden Windmill and its Adaptation to Community Needs" (as single provider) (2008-2011).
- Participation in the ATHENA project (as single provider) (2010-2011).
- Cooperating with Association of Lithuanian Museums as a partner in a project "Museum - School - Student. Museums' and Secondary Schools' National Cooperation Network" (2011–2014).
- Participating in Europeana Photography project (2012-2015).

Key personnel

Edita Rudminaitė graduated from Siauliai University with a master's degree in management. Professional experience: Since 2008 she has been working at the Šiauliai "Aušros" Museum. 2008–2011 she administered a project "Restoration of Žaliūkių Wooden Windmill and its Adaptation to Community Needs", financed by Norwegian Financial Mechanism and Lithuanian funds. She presented a report "Peculiarities of Preservation of the Žaliūkių Windmill as the Object of Wooden Architecture Heritage" at the international conference "Heritage of Wooden Architecture and National Cultural Policy" held on May 26–28, 2010, in Vilnius, Seimas of the Republic of Lithuania. She has a good knowledge of Lithuanian as well as intermediate knowledge of English and Russian.

Teکلė Tomkutė graduated from Kaunas Vytautas Magnus University in 2008 with a bachelor's degree of art theory. Professional experience: since 2009 she has been working in Šiauliai "Aušros" museum as museologist. She has been working in Šiauliai Regional Museum Digitization Centre situated in Šiauliai "Aušros" museum since 2010. Her main fields of work are digitization of cultural objects in museum, coordinating the digitization processes in Šiauliai "Aušros" Museum and Šiauliai regional museums. She has a good knowledge of Lithuanian and English as well as intermediate knowledge of Russian.

27 – MUO**Muzej za umjetnost i obrt, Croatia**

The Museum of Arts and Crafts is one of the earliest museums of its kind in Europe. It was established in 1880 as a result of an initiative by the Art Society and in particular by its then director Izidor Kršnjavi. The basic aim was to preserve the traditional values of national crafts and at the same time to provide new cultural standards for the rising middle-class. To help achieve these goals in 1882 the Crafts School (today the School of Applied Arts and Design) was established alongside the Museum. The Museum and the School are situated in a representative neo-Renaissance palace designed by Austrian architect Herman Bollé in 1888.

The Museum is one of Croatia's fundamental national cultural institutions. It houses the finest collections of fine and applied art that date from 14th to 20th century with an emphasis on presenting the culture of living in nobility's castles and palaces in the countryside and in the cities, as well as depicting the everyday life of higher levels of citizenry.

MUO has the largest and richest holdings in Croatia of fine and applied art: in total over 100,000 items are cared for by the Museum. In the permanent exhibition visitors have a chance to see nearly 3000 exhibits, at about 2000m² of exhibition area, from the collections of furniture, ceramics, glass, metal, textiles, painting, sculpture, clocks and watches, photography, graphic and product design, ivory, bookbinding and painted and gilded leather, which provide the insight into historical changes in styles which reflect special features of the Croatian cultural space and the wider spiritual and intellectual movements of time.

In addition to the permanent display every year numerous occasional exhibitions as well as promotional and cultural-cum-stage programs (concerts, theatrical performances, promotions) are being held. At the beginning of the 21st century, the work of the Museum is characterized by a wide range of activity, holdings that are constantly being enlarged, a large number of exhibitions put on within and outside the Museum, including, increasingly, abroad, a rich and vigorous publication program, new forms of business operations that derive from the needs of visitors (generating the production of replicas and museum souvenirs, the museum shop) and the application of contemporary museological standards.

Key personnel

Miroslav Gašparović, Director of the Museum of Arts and Crafts, Zagreb, Art historian, art critic, curator of the painting collection of the Museum of Arts and Crafts. Author of numerous exhibitions of Croatian and international artists and articles on the various topics from old masters, specifically Venetian and Dutch painting of 16th and 17th century to contemporary artistic practice. Lead, or was one of the major contributors to, the several major exhibition projects "Art Nouveau in Croatia", "Belle Epoque Imperiale", "Hidden treasures of Museum of Arts and Crafts - 125th Anniversary", Art Deco and Croatian art between two wars" etc. First president of the Museum directors association of Croatia, member of ICOM; AICA, and various national and international boards.

Vesna Lovrić Plantić, art historian, Museum Advisor, Curator of the Clocks and Watches Collection. Author of concept, selection and expert elaboration of the study collection of clocks and watches presented for the first time in the permanent museum exhibition inaugurated in 1995. Coordinator of several large-scale exhibitions e.g. *Biedermeier in Croatia* and *Historicism in Croatia*. Member of expert team in the international project *Baroque in Central Europe* (1991-1993) and assistant director for international relations (1997-2003). Participated in European Museum Forum's workshops in Bologna (1996), Cortona (1997) and Budapest (2004). Author of study exhibitions, numerous articles and three books - *The Watch* (1998), *The Alarm Clock* (2001) and *Domestic Clocks* (2008). PhD degree in Humanistic Science from the University of Zagreb, Faculty of Philosophy (Style Characteristics in the Development of Domestic Clocks). Special interest in applied arts terminology (Croatian and English). Museum Project Leader in the *Partage Plus - Digitising and Enabling Art Nouveau for Europeana* project.

28 – SGDAP

Servei de Gestió Documental. Arxius i Publicacions – Ajuntament de Girona, Spain

The mission of the Records Management, Archives and Publications Service (abbreviated SGDAP in Catalan) of the Girona City Council is to assure the preservation of and access to the municipal documentation, from the oldest documents to the most recent ones. For this reason, the SGDAP is structured in three specific but related services: the Girona Municipal Archives (AMGi) and the Centre for Image Research and Diffusion (abbreviated CRDI in Catalan), which are in charge of the management, handling and safekeeping of the municipal documentation and the city's graphic documents, respectively, and the Municipal Publications Service, which is responsible for the dissemination of studies relating to the population and the territory of Girona city.

Through its specific services, the SGDAP is a key point of reference for professionals in Spain. For instance, the AMGi is a model institution in the handling and dissemination of historic documentation, as is shown precisely by the publication of the Document Collection of the Municipal Archives and by the design, implementation and operation of the system for managing the City Council's documents.

For its part, the CRDI has recently been awarded the National Prize for Quality and Innovation 2009 by the Spanish Society for Scientific Documentation and Information (SEDIC) for the best contribution to innovation in the management of photography collections kept in archives, libraries and documentation centres. In this respect, the Image and Research Conference on the image heritage, which has been held every two years since 1990 and has published over 2,500 pages in the proceedings of the 10 holdings to date, is an international reference.

Likewise, in connection with the Municipal Publications Service, aside from the publication of the documents which are commissioned to it, mention should be made of the Girona Urban History Collection as an example of the reconstruction of the urban fabric on the basis of data obtained directly from medieval and modern documents. These data have been used subsequently to verify the existing archaeological studies or to promote new ones. An example of these studies, the one on the Reckoning of houses, lands and other properties in the city and fields of Girona, from 1535, has been carried over to a geographical information system and may be consulted at the SGDAP website.

Lastly, the SGDAP website brings together information and resources from the AMGi, the CRDI and the Municipal Publications Service, including the free open consultation of digitised documents that total over one million pages from the press, 145.000 photographs (and the references of over 1.500.000) as well as over 1.700 hours of video, 630 hours of radio and more than 1.600 graphic documents (posters, prints, programmes, etc.), in addition to specific resources on past events in the city, Girona's urban history, and photographic techniques and processes (daguerreotypes, chronophotography, albumen prints, etc.).

Key personnel

Joan Boadas i Raset has held the position of Girona Municipal Archivist since 1990. He also holds the positions of General Manager of the Cinema Museum, Director of Research and Image Diffusion Centre and is Head of the Municipal Records Management, Archives and Publications. He has written a number of books and articles on the topic of archives.

He has been President of the Coordinator of Spanish Archivists Associations between 2003 and 2005 and President of the Catalonia Archivist Association (AAC) from 2001 to 2005 and is currently the representative of AAC on the SPA Steering Committee.

In May 2009 he was nominated ICA (International Council on archives) commissioner for photographic and audiovisual archives.

David Iglésias Franch has held the position of archival technician at the Centre for Image Research and Diffusion (CRDI), from Girona City Council, since 2000. He is author and contributor of publications and exhibitions commissioner about photography and has conducted training on management of photographic collections and related fields in Spain.

In recent years he has focused his research on digital image, subject on which he has published several articles and the book *La fotografía digital en los archivos. Qué es y cómo se trata* (2008).

He is the coordinator of the Working Group in Photographic and Audiovisual Archives of the International Council on archives (ICA).

29 – UP**University of Patras – Department of Computer Engineering and Informatics, Greece**

The Department was founded in 1980, and was the first in an engineering (polytechnic) school in Greece to offer a 5 year engineering Diploma curriculum in the exciting and dynamic field of Computer Engineering & Informatics. Since then, it has become one of the leading university departments in Greece, attracting some of the strongest students in the country. The Department has a large alumni population leading successful industrial and academic careers in Greece and abroad. The Department's members actively participate in teaching and research in most areas of Computer Engineering and Computer Science. The quality of the research activities is borne out by the Research Laboratories housed in the Department. Two (2) Laboratories will participate to the project:

- The Graphics, Multimedia and GIS Laboratory of the Computer Engineering & Informatics Department of the University of Patras was established in 1994. The educational and research work of the laboratory is being executed within the framework of the Department's Computer Software Section. The laboratory is housed in the Department's new buildings and uses modern computational equipment.
- The High Performance Information Systems Laboratory. The research laboratory has been founded in 1990 located in the Department of Computer Engineering and Informatics of the University of Patras. As part of its research activities and the projects it has worked on, has cooperated with many organizations in Greece and with many research institutes and researchers from abroad. The laboratory has is focusing on Information Society Technologies for Culture, while it has developed many systems and applications. Also, the laboratory has access to rich cultural content for use in research and non commercial purposes.

European Projects:

- “Linked Heritage - Coordination of Standards and Technologies for the enrichment of Europeana”, ICT PSP Project, responsible for aggregating content, resolving IPR issues and proposing relevant solutions.
- “ATHENA - Access to cultural heritage networks across Europe, eContentPlus”, ICT PSP Project, Workpackage Leader of WP6: Analysis of IPR issues and definition of possible solutions”.
- “MinervaEC – Ministerial Network for Valorising Activities in digitization, eContentplus”, eContent project, responsible for resolving IPR issues.
- “Minerva Plus - Ministerial Network for Valorising Activities in digitisation PLUS”, eContent Plus Project, responsible for the deliverable “Report on interoperability, IPR and service provisions: Business models and sustainable approaches”
- “MINERVA - Ministerial Network for Valorising Activities in digitisation”, eContent project, responsible for resolving IPR issues and proposing solutions.

Key personnel

A. Tsakalidis was born in Katerini, Greece and received his Diploma of Mathematics in 1973 from the Aristotle University of Thessaloniki. In 1981 he received his, Diploma of Informatics from the University of Saarland, Saarbrücken, Germany and his Master's Thesis (Sorting Pre-sorted Files) and in 1983 he received his PhD in Computer Science (Advisor: Prof. K. Mehlhorn) (Dissertation Title: Some results for the Dictionary Problem). He speaks English and German. Since 2009 he is the President of CEID. Since 1994 he is the director of the Graphics, Multimedia and GIS Laboratory of CEID. He has authored or co-authored more than 200 papers in international conferences and more than 60 papers in international Journals.

Dimitrios K. Tsolis has graduated from the Department of Electrical Engineering and Computers Technology of the University of Patras in 1999. He speaks English and German. Since 1999 he is a researcher at the High Performance Information Systems Laboratory. At March 2001 he received his M.Sc. and In February 2004, he received his Ph.D. Since 1997 he is participating in various European and National Projects (IST Projects, VHF, MUVII, MINERVA, MinervaPlus, MinervaEC, ATHENA, Linked Heritage, EuropeanaPhotography etc.) regarding IPR and DRM tools and systems and in various committees such as Europeana v1.0 workgroup 1.2 Legal and the Greek IPR Committee. He is also the advisor of the Hellenic Intellectual Property Organization and the Azerbaijan’s Copyright Office in matters such as, technical means for protection and management of the Intellectual Property Rights of the digital works, digitization of cultural heritage and others.

30 – KIS**VALSTS AENTRA “KULTRAS INFORMCIJAS SISTMAS”, Latvia**

„Culture Information Systems” is a state agency under the supervision of the Ministry of Culture. The agency’s mission is preservation of the information resources and cultural values accumulated in the libraries, archives and museums, and making them more accessible to the public by implementing the latest ICT solutions.

Their goal is to become a worthy participant of the European digital cultural environment, representing our unique values and cultural traditions.

Following the Latvian National Cultural Policy Guidelines, which contain a major objective of the usage of information and communications technologies for the enhancement of the availability of culture and its multifaceted presence in the world wide web, thus fostering the preservation and dissemination of the cultural heritage values (digitisation of the accumulated resources) and promoting creation of new cultural products and services, the state agency “Culture Information Systems” for the past several years has been working on large-scale information technologies projects with the aim of aggregation of cultural heritage items, gathered by the Latvian cultural memory organisations (libraries, museums, archives), and transferring them to the digital environment. These projects are:

- “National Unified Library Information System” which comprises a unified inner data transmission network linking computers of all public libraries and ensuring usage of copyrighted resources in the libraries. Library visitors can use digitised works of various authors free of charge. For example, library visitors can watch digitised Latvian films on-line.
- “Joint Catalogue of the National Holdings of Museums” - an ongoing digitisation project of the Latvian museums’ holdings, which includes integration of the digitised objects into the European cultural heritage portal EUROPEANA, via participation in the international project ATHENA and Linked Heritage.
- “National Archives Information System” - digitisation of Latvian archives’ holdings.
- “Unified Information Management System of Culture and Memory Institutions” - creation of a unified information system to ensure a streamlined virtual environment for the management and retrieval of cultural information, and support of e-services. Within this project, the Latvian Digital Culture Map portal is being improved and following e-services are developed – a unified cultural information search engine, a register of awards and distinctions, downloading of GPS coordinates for cultural objects and search of cultural routes, a unified, digitised register of coats of arms.

KIS is also taking part in European coordination efforts concerning digitisation and digital preservation (Member States’ Expert Group on Digitisation and Digital Preservation) and participated in projects MINERVA EC, ATHENA, LINKED HERITAGE, DC-NET.

Key personnel

Una Balode, University degree at the University of Latvia, Faculty of History and Philosophy (historian, teacher in history and basics of society). Since 2007 Una Balode has been a member of staff at the state agency Culture Information Systems as a project manager. From 2005 to 2007 she was Senior Desk Officer at the State Authority on Museums of Latvia. From 1991 to 2005 she was Main Specialist in the Department of Ethnography, Chief of IT Department and Deputy Director in Research at the National History Museum of Latvia. From 1989 to 1991 was Research Assistant in the Department of Ethnography at the Latvia Academy of Sciences, Institute of Latvia History. Since 2000, she has been the project manager of the “Joint Catalogue of the National Holdings of Museums” led by State Authority of Museums of Latvia. From 2005 she is project manager of the “Joint Catalogue of the National Holdings of Museums”, which is supported by European Regional Development Fund (ERDF).

Laila Valdovska studied mathematics and programming at Faculty of Physics and Mathematics at the University of Latvia and graduated in 1982. In 2003 she was awarded at professional MA in Information and library science at the University of Latvia. From 1994 she worked at Riga Central library. Since 2003 she has been a member of staff at the state agency Culture Information Systems. In 2006 she was nominated by the Ministry of Culture of Latvia to participate in the European NRG (National Representatives Group on Digitisation in Culture).

31 – EAJC**European Association for Jewish Culture - Association Européenne pour la Culture Juive, France**

The EAJC is an independent body which was established in 2000 and is registered in Paris as a non-profit association. The mission of the European Association for Jewish Culture is to promote access to Jewish culture in Europe, foster creativity, assist scholarly research and promote digitization of Jewish collections. Since its creation, the EAJC has initiated and supported over 150 culture projects in 22 European countries collaborating with scholars, artists and other heritage sector professionals. The EAJC has organised international conferences and seminars for the cultural and heritage sector to promote Europe-wide collaborations, encourage best practice and help create networks. EAJC is involved in the European Association for Jewish Studies, which assembles the relevant scholarly community in Europe.

EAJC leads a network of libraries, archives and museums with Jewish collections in the framework of *Judaica Europeana* www.judaica-europeana.eu - the aggregator of Jewish heritage content for Europeana. The *Judaica Europeana* Consortium includes 23 Partners and associate Partners. After the successful completion of the EC co-funded stage of *Judaica Europeana* (2010-12), the EAJC continues to lead this network with the aim of aggregating more digital content to Europeana. Since 2012, EAJC has been a partner in the Digital Manuscripts to Europeana (DM2E) project.

In the framework of *Judaica Europeana*, the EAJC has organized a number of Digital Humanities workshops for scholars and museum curators.

Key personnel

Lena Stanley-Clamp is the Director of the European Association for Jewish Culture. She served as the Project Manager of **Judaica Europeana** and continues to serve as the co-ordinator of this network of libraries, archives and museums with Jewish collections. She has led the management and dissemination work packages of this project including the outreach to the academic community.

She graduated in History from Université Libre de Bruxelles and holds a post-graduate diploma in Education from ULB. She has programmed and organized a number of international conferences including:

- Planning for the Future of European Jewry, Prague 1995
- Strengthening Jewish Life in Europe, Council of Europe, Strasbourg 1997
- University Teaching of Jewish Studies, London 1998
- Jewish Culture for the 21st Century, Paris 1999
- Jewish Identities in Post-Communist Europe, Budapest 2000
- The Future of Jewish Heritage in Europe, Prague in 2004
- *Judaica Europeana* Digital Humanities workshop and a session on Urban Jewish Studies at the Congress of the European Association for Jewish Studies, Ravenna 2010
- Digital Humanities and the Study of Jewish History and Heritage, British Library, London 2011.

She is a Council member of the Institute for Polish-Jewish Studies (Oxford), a member of the UK Committee of the International Council on Museums (ICOM). She is also a member of the Editorial Board of the *All About Jewish Theatre* online publication.

32 – UniSav**Université de Savoie, LISTIC Lab., Condillac Research Group, France**

With its twelve thousand students, its fully diversified range of course offerings and its twenty internationally--recognised research laboratories, the Université de Savoie is an institution which knows how to combine the advantages of proximity and the human scale with an opening on Europe and the world.

The LISTIC (Laboratoire d'Informatique, Systèmes, Traitement de l'Information et de la Connaissance) laboratory is a Computer Science laboratory whose themes of research are about Data Processing, Software Systems and Knowledge Engineering.

The Condillac Research Group of the LISTIC laboratory is a software engineering team that works in knowledge engineering in the context of the e---Society. Its main domains of interest are ontology and terminology viewed as promising solutions to tackle the communication and knowledge sharing problems raised by the e---Society.

The Condillac Research Group gathers several researchers from different universities working in terminology, thesaurus and ontology: Universities of Paris and Marseille (France), Lisbon (Portugal) and Bologna (Italy).

The Condillac Research Group (www.condillac.org) has a strong experience in ontology and terminology from a theoretical point of view (introducing the new concept of ontoterminology) as well as industrial applications (e.g. with Electricity of France (EDF)). Several software systems were achieved for ontology, terminology and thesaurus building, knowledge mapping, multilingual information retrieval systems, knowledge sharing, and e--learning. The Condillac research group took part in different European projects (Eureka PVS98, InterReg II and InterReg III) and is currently involved in European projects (Tempus, FP7). Our participation in the FP7 Linked Heritage project is about multilingualism and terminology management. The Condillac Research Group has set up in 2007 and organizes since 2007 the International Conference TOTh: Terminology & Ontology: Theories and applications (www.porphyre.org/toth/en).

At last, the Condillac Research Group takes part in International and National Standardization Committees on Terminology (ISO and AFNOR): ISO 704, ISO 1087---1, ISO 860.

Key personnel

Christophe Roche. After his PhD in Artificial Intelligence (Expert System and Knowledge Representation) at the University of Grenoble (National Polytechnic Institute of Grenoble (INPG), France) in 1984, Christophe Roche worked in private research institutes in artificial intelligence in Grenoble and Paris. In 1986 he was Professor at the University of Neuchâtel (Switzerland) in charge of the post---graduate Artificial Intelligence course for the Universities of Neuchâtel, Lausanne and Fribourg.

Since 1988, Christophe Roche is a Full Professor in Artificial Intelligence at the University of Savoie, France. Since 2009, Christophe Roche is also an Associate Researcher at the Linguistic Research Centre of the New University of Lisbon, Portugal (Centro de Linguística, Universidade Nova de Lisboa). He is in charge of the Condillac International Research Group on Terminology and Ontology since its creation in 2003.

Christophe Roche published and gave more than 90 publications and invited conferences. Since several years he participates in several international program committees of conferences in ontology, knowledge engineering and terminology. Let us quote: TOTh, NLPCS, EGC, TKE, OntoContent, VORTE, ICWIT, FLAIRS, ExaCt, FUBATEC, IEA/AIE, etc. He set up in 2007 the International TOTh Conference (“Terminology & Ontology: Theories and applications) he chairs the Scientific Committee since the same date.

Luc Damas. Trained as a computer scientist, Luc Damas gained his PhD at the University of Lyon (France) in Cognitive Science in 2003. He is currently Associate Professor at the University of Savoie. He works in the Condillac research group of the LISTIC Lab. since 2005. His main domains of interest are about knowledge engineering, ontology and terminology. He achieved several software systems dedicated to terminology and semantic information retrieval.

Luc Damas participated in several European projects whose InterReg III Gicom, FP6 Astech and FP7 Linked Heritage. In the framework of these last projects, he carried out a multilingual terminology system based on ontologies, semantic retrieval engine and terminology management system, manipulating standards and mapping.

At last, Luc Damas belongs to several program committees of conferences in ontology, terminology and information retrieval system of which the TOTh Conference and the RISE Conference.

33 – BAR

Biblioteca Academiei Romane, Romania

Founded on August the 6th, 1867, one year after the foundation of the Romanian Academic Society, The *Romanian Academy Library* (BAR) was assigned the mission of gathering and preserving the national fund of manuscripts and printed documents illustrating the Romanian and universal history, culture and civilization. It is still considered, after more than one hundred forty years of existence, the richest national Romanian library, holding the most comprising funds of Romanian documents, old and recent, acting as a scientific and encyclopaedic library. Its collections are organized so that they may offer the documentary material necessary to the fundamental scientific research in general and specifically to the research unfolded in the institutes of the Romanian Academy. It shelters over 13 million library units, out of which 10,000 volumes of manuscripts, over 500,000 correspondence and archive records, 138,000 engravings and drawings, about 3000,000 photographs, 53,112 cartographic documents, 190,000 coins, medals, plates, and seals, more than 600 engraved stones and 40,000 stamps, 55, 000 musical scores, 20,775 audio-video items, 5,3 million monographs and almost 7 million serials. At present the collections are sheltered in a new and modern building.

Beneficiary of the Legal Deposit since 1885, it includes among its attributions the publication of the retrospective bibliography of the Romanian books and serials and of special bibliographies, such as Mihai Eminescu Bibliography or The Independence War Bibliography, providing assistance for documentation and research on the Romanian science and culture. The special collections of its patrimony confer it one of the highest ranks among the institutions of the kind in Romania. Its fund of manuscripts is the most extensive and most valuable in the country and its collections of prints, scores, maps and its numismatic treasures are regarded as real reference points in the field.

At present, the Library is involved in several national and international projects meant to create digital collections. The most recent projects are „Europeana Libraries” (PIC:984300226), which is funded by the European Commission and started in January 2011 and STUDITE which started also in 2011 (under EACEA supervision, within the Culture Programme 2007-2013).

Key personnel

Catalina Macovei- Head of the Engravings, Maps and Music Department of the Romanian Academy Library, coordinator of the project from BAR. Researcher, National Expert on Romanian and Foreign Graphics- the Romanian Ministry of Culture and National Heritage, member of CODART Foundation, participates at the „ European Libraries ” project (as coordinator from BAR) within the FP7 -ICT PSP frame (the project will end in 2012).

Emanuel Petac – Head of the Numismatic Department of the Romanian Academy Library, Researcher and National Numismatic Expert - Romanian Ministry of Culture and National Heritage, president of the Romanian Numismatic Society, member of the National Committee of Museums and Collections, director of the Mobile Cultural Heritage Departament- Archaeological and Historical Goods.

He participated in several international programs in this field (2004-2010) : *Programme Internationale de Coopération Scientifique* and *Groupement des Recherches Européennes „Trouvailles monétaires”* with similar institutions from France, Poland, Slovenia, Republic of Moldova, Czech Republic.

34 – Dedale

Association Dédale, France

Dedale is a research and production agency dedicated to culture, innovation, and technologies in Europe. It develops an expertise especially in the field of ICT and cultural heritage, Cultural policies, European digital libraries, Innovative and creative learning, Tourism 2.0, New uses, Mobile technologies and Smart cities, etc. Its key activities are assistance and consulting for cultural public authorities, cultural institutions and European networks, a European Media Observatory, a media lab for the production of innovative cultural projects, seminars and workshops, and International Cultural Events (Emergences Festival, SmartCity, Minimob and more). Dedale is also frequently involved in European programmes such as Culture, eLearning, PCRD, eTen, Eranet, etc.

Since 2004, Dedale has been mandated by the French Ministry of Culture to coordinate the French participation in European projects in the field of digitization and valorisation of cultural heritage.

Moreover, It is a Board member of Michael Culture and participates in the MINERVA network (MInisterial NEtwork for Valorising Activities in digitisation) and actively participates in the construction of the European digital library through European cooperation projects such as MICHAEL, Michael Plus, ATHENA, Linked Heritage.

Key personnel

Stephane Cagnot, Director of Dedale. He worked for the French Ministry of Culture from 1995 to 2002, where he implemented the cultural policy for new technologies and information society in the Ile de France region. He is also the director of the international digital art festival “Emergences” in Paris and of the SmartCity event (artistic creation and ICT in urban space). He participates in various programmes and actions led by the European Commission, among others E-learning (DG Education and Culture), E-Content Plus and E-TEN (DG Information Society); in 2004 he coordinated a large European study on the use of new technologies for mediation in European cultural institutions.

35 – UPMF

Maison des Sciences de l'Homme-Alpes, Université Pierre Mendès-France, France

Within the University Pierre Mendès-France, the "Maison des Sciences de l'Homme-Alpes" (MSH-Alpes), founded in 1998, is an original scientific institution. It is a service unit and research that aims to support and assist the structuring of Research in Social Sciences. The institution also depends on the Centre National de la Recherche Scientifique (CNRS) and belongs to the National Network of MSH with 22 "instituts". Its main objectives are firstly to promote international and interdisciplinary research, modernization of methods, techniques and research tools, and secondly to contribute to the scientific life of Grenoble, including the reception of scientific events, producing publications, hosting websites and databases.

Among the four main research themes developed by the MSH-Alpes, the second: "Images and texts corpus" includes databases literary and historical heritage. The bilingual (French/Italian) database PREALP (*Peintures des REgions ALPines/Pitture delle Regioni ALPine*) identifies, catalogs and digitizes the murals made in the church and secular buildings of the Alps from Savoy to Friuli in the Middle Ages and Renaissance. Brought on line in February 2007, the database includes not only digital iconographic content (paintings and architecture) but also text and bibliographic entries and a corpus of the medieval inscriptions in painting, in order to better understand the spaces and cultures that they have produced. In addition to the regular feeding of the base, the team works specifically today on the establishment of standards of European exchange protocols and on adding features such as the generation of dynamic maps.

Key personnel

Dominique Rigaux, is Director of MSH-Alpes since July 2009 and Chair Professor of Medieval History at the UPMF since 1999. Currently she serves also on the executive board of the MSH network and was elected to the Scientific Council of the UPMF and to the Scientific Council of the Ecole française de Rome. Its research interests and its publications cover a wide range of cultural relations predominantly within the religious societies of Alpine areas. She is responsible of the content coordination for the PREALP project. In this context she has worked on the production of thesauri.

Sandra Costa, is art historian at the UPMF (Senior Lecturer HDR). She wears a particular interest in the history of collections, museology and management of cultural property. She led the French-Italian program *Illustrate the History / Illustrare the Storia* (2008-2010) adopted by the EU in 2008 for the European cultural season under the French presidency in Partnership with the University of Macerata, the Centro di Eccellenza per la museologia of the University of Fermo, the Istituto Nazionale per la Storia of Museo del Risorgimento and the Complesso del Vittoriano-Risorgimento Rome.

36 – CL-BAS

The Central Library of the Bulgarian Academy of Sciences

The Central Library of the Bulgarian Academy of Sciences (CL-BAS) was established in 1869. Since then it has created and maintained a large pool of Bulgarian and foreign literature (ca 2 mil. volumes). Now it also grants access to 17 databases after the scientific profile of BAS and supports data exchange with libraries, archives, museums, scientific associations and other institutions – both Bulgarian and foreign – with the purpose to complete the unite library holdings and to disseminate the publications of BAS and other Bulgarian books and periodicals. The Central Library develops and enriches the integrated BAS libraries' catalogue, presents online the united academic library holdings, constructs authority database for authors, subjects and titles, uses, exchanges and provides bibliographic records in MARC21/ AACR2 to OCLC and certain world leading libraries.

CL-BAS provides library and information services including access to online recourses, takes part in national and international information systems, nets, contracts and projects focused on providing information concerning scientific and applied scientific research and development, preserving cultural heritage and granting free and unlimited access to it. Besides, it has functioned as national aggregator in a number of EU projects in this respect. CL-BAS has started digitising old-printed books and periodicals of the Bulgarian National Revival and has had long experience in creating machine-readable records for other rare and valuable items, like medieval manuscripts. Last but not least, CL carries out scientific research, applied scientific activities, publishing and implementation, related to the library and information sciences, the Bulgarian studies and Slavic Studies. It publishes monographs, reference books, bibliographies, bio-bibliographies, catalogues as well as periodicals. In other words, CL-BAS maintains the position of a leading library to provide scientifically significant information in the changing society. It serves the Bulgarian science, education, culture and business by means of traditional and modern technologies. It also provides its patrons with rich collections an integrated services by means of Partnership with leading institutions in Bulgaria and abroad. The Library also organises continuing qualification in accordance with the leading world standards, preserves the literary cultural and historical heritage, digitises valuable library documents and collections and provides free access to them.

Key personnel

Dincho Krastev is a mathematician. He has been in charge of CL-BAS since 1992. His efforts led to the development of a local computer network (1995), the creation of the CL-BAS website, the first of its kind (1997), the implementation of ALEPH500, one of the best automated library systems worldwide, and the construction of an electronic catalogue (2003). Last but not least, CL became a training centre disseminating the MARC 21 formats and the AACR2 (2004); furthermore, by contracting the Online Computer Library Centre (OCLC), CL became the first library to enrich the WorldCat with bibliographical records in Cyrillic letters (2007). The creation of the digital library began the same year.

D. Krastev was granted an MA and a PhD in mathematics from the Moscow State University. At CL he initially worked as a research associate, then became a senior research associate, 2nd degree (1989). At SU he taught Differential Equations, Mathematical Analysis (1970–1973, 1977–1986). As a guest lecturer at the International Centre for Information Management Systems and Services (ICIMSS) in Torun, Poland, he taught Information Systems and Modern Ways of Book Publishing (1996). He is a member of the Bulgarian Library and Information Association (BLIA) as well as of ICIMSS. D. Krastev is the author of numerous articles published in Bulgarian and foreign periodicals.

37 – INP

Institutul National al Patrimoniului, Romania

The National Heritage Institute [INP] is a public institution under the Ministry of Culture and National Heritage. It was formed in 2009 by the merger of the National Institute of Monuments and the National Monuments Office. In 2011, CIMEC - Institute for Cultural Memory was also included in INP. The mission of the institute is to research, protect and restore the cultural heritage of Romania (including the immovable, movable, digital and intangible heritage). INP has a professional team specialized in cultural documentation (architects, archaeologists, bibliologists, historians, art historians, ethnographers so), beside information specialists. Activities include:

- collecting, processing and disseminating information on the movable and immovable cultural heritage;
- supervising the restoration works for the monuments across the country;
- management of the national heritage databases.

INP is the national aggregator for the European Digital Library, europeana.eu.

Key personnel

Dan Matei. Director of the Movable, Intangible and Digital Division, in charge with aggregation of digital material for the European Digital Library (europeana.eu). Professional programmer by education, but for 20 years director of CIMEC - Institute for Cultural Memory (now part of National Heritage Institute). In the last 10 years he was involved in several European projects, including ATHENA and CARARE. He represents Romania in MSEG [Member States Expert Group] for digitisation and is also member of Europeana Network. Vice-president of TermRom [The Romanian Association for Terminology].

Vasile Andrei. Head of the Movable Heritage Department, in charge (mainly) of: the listed movable heritage database, the archaeological sites database and the institutional website. He studied history at the Bucharest University and was involved in several European projects, notably ATHENA and CARARE.

Mihai-Codrut Onofrei. Head of the Digital Heritage Department, in charge of the institutional digital library and of the computing platforms and resources. He graduated from the Romanian-American University Bucharest and took the “Management and protection of the NATO and EU classified information” course at the Romanian National Registry Office for Classified Information (ORNISS).

38 – KIK-Irpa**Koninklijk Instituut voor het Kunstpatrimonium (KIK)****Institut royal du Patrimoine artistique (IRPA) - Royal Institute for Cultural Heritage (RICH), Belgium**

Established in 1948, the Royal Institute for Cultural Heritage is one of ten scientific institutions falling within the competence of the Federal Ministry of Scientific Policy. IRPA is committed to the inventory, the scientific study, the conservation and the promotion of the country's artistic and cultural property. The Institute, whose chief mission is research and public service, represents a unique instrument for the heritage of our country, both movable and immovable.

Three departments group art historians, photographers, chemists, physicists and conservator-restorers. By comparing their observations, they gather reference material and study works of art from different points of view: their composition, evolution, ageing of materials and how to treat them. Any restoration treatment will be based on this detailed pre-study.

Our specialists advise researchers and curators of both public and private collections. An impressive photo library is also available for public use. The photo library contains, at present, over one million photos. Each year, the library, specialized in art history, is quite visited. Furthermore, the publications, the photo inventory and the organization of courses, conferences and seminars reflect the role IRPA plays in the promotion of heritage and the diffusion of tools for researchers and the public.

The Institute groups laboratories, conservation-restoration workshops, photographic workshops, a photo library and a library in a single building. The building was designed in such a way as to join together very different work units and obtain an interdisciplinary approach to works of art.

Key personnel

Erik Buelinckx: scientific researcher in Art History. He is also responsible for European Projects and for the institute's documentary image databases. He holds Masters in "Information and Library Science", "Documentation and Library Science" and "Art History and Archaeology". Currently he is in the last stage of a PhD in Art History (2014). He has an experience spanning over ten years on the different levels which constitute the creation, maintenance and conservation of digital cultural heritage. He works in the Department of Documentation where he is responsible for documentary image databases and digitisation projects, and was part of the Information Crossroads Cultural Heritage project. At the University of Antwerp he was responsible for a project on web-based education. He has experience in European projects like DC-NET, ATHENA, Linked Heritage and Partage Plus. He is a member of the Belgian National Consultation Panel for Cultural Heritage and Global Change (JPI), and works on several interregional and international collaborations on multilingual thesauri in the field of cultural heritage.

Selected publications

- Buelinckx, Erik, 'Resurrections' in CIHA2012 – The Challenge of the Object/Die Herausforderung des Objekts (to be published in 2013).
- Buelinckx, Erik, 'Mauer – film préhistorique. Gérard de Lacaze-Duthiers et l'esthétique libertaire' in Anarchie et cinéma. Actes du colloque (to be published in 2012).
- Buelinckx, Erik, 'Albert Daenens en Willem Gijssels. Een Brusselse anarchistische kunstenaar en een Vlaamse dichter' in Zuurvrij, n° 21, December 2011, p. 50-57.
- Buelinckx, Erik & Opstaele, Hans, 'Integration of High-Resolution tiled Pyramidal Tiff Images of Old Glass Negatives in an Online Photo Library for Consultation, Research and Conservation' in Digital Heritage. Proceedings of the 14th International Conference on Virtual Systems and Multimedia. Short Papers, Budapest, Archeolingua, 2008, pp. 84-89.
- Buelinckx, Erik. 'Institut royal du Patrimoine artistique: programme de numérisation' in Vie des Musées. Bulletin de l'Association Francophone des Musées de Belgique, 2005, nr. 19, p. 25.
- Buelinckx, Erik en Koeck, Nadia, 'Informatiekruispunt Cultuurpatrimonium: valorisatie van het Belgisch kunstpatrimonium via het Internet', in Informatie 2001, Brussel, 20-21 September 2001, p. 46.

39

ILS

Istituto Luigi Sturzo, Italy

The Luigi Sturzo Institute, established in 1951, is a cultural foundation based in Rome. The Institute is located in Palazzo Baldassini, edifice built by the architect Antonio da Sangallo between 1515 and 1518. Fresco paintings, by Raffaello's school artists, cover the ceilings and walls of the inside rooms. The Institute is committed to the preservation and valorisation of cultural heritage, it carries out training activities and researches in historical, sociological, political and economical fields. The Institute collaborates with national and international institutions in development activities.

The Library is specialized in social sciences, modern and contemporary history focusing mainly on political history and sociological philosophy, on the political parties history and on local history and too. It is continuously updated with the most recent Italian and foreign publications and holds about 130,000 volumes. The Journals section includes about 600 journals focused on sociological matters, although historical and political journals are also present. The Library of the Luigi Sturzo institute has been a member of the National Librarian Service since 1990. Lately the Library published the Luigi Sturzo's Opera Omnia on web.

The Historical Archive Area holds over 10.000 envelopes of documents, which have been recognised by the State to be of considerable historical interest. It specialises in retrieval and awareness-raising initiatives, studies and publications, concerning sources for the history of the Catholic movement carried out by researchers and intellectuals. The Archive holds writings and documents that are indispensable to better appreciate the history of Italy and of the Catholic movements from the crisis of the Liberal State up to the coming of Fascism.

The Digital Laboratory focuses its activity on innovative digital technologies applied on bibliographic and archival research. The laboratory's activities started on 2005 and developed new methods of digital cataloguing to preserve iconographic, photographic and audio-visual materials. The records, uploaded on digital databases, are accessible on-line. A recent acquisition of audiovisual and photograph materials encouraged training programmes to enhance the competences in the management of non-traditional resources extensively used, at present, in the historical, sociological, political and cultural research.

Luigi Sturzo Institute holds archives and library sources about the second half of XX century, in particular documents from Christian democrat-inspired political groups and personalities. The Institute heritage is therefore a precious base for the research about Italian, European and international politics, from post-world war II until today. The Institute aims at realizing a specific research project about the documentation held in its archives and referring to the cold war period, following these themes:

Politic posters: political posters allow the analysis of political strategies, propaganda campaigns, and persuasion policies exactly on account of their being non-conventional, rarely used documentary sources as well as of their dual nature, i.e. their being comprised of both language and graphics components.

Archives of party and personalities: within the archives of Christian democrat party, that run Italy from the Fifties to the Nineties, documents, speeches, relations of politicians and representatives of institutions, print materials about national politics, European arrangements and relations with USA and USSR are held.

Photographic archives: photographic documentation about the cold war consists in photo reportages of international meetings among European, US and Soviet leaders

Key personnel

Nardelli Piccoli Flavia got her degree in Philosophy at Università di Roma La Sapienza.

In 1989 she was appointed Secretary General at Istituto Luigi Sturzo. Here she coordinates and manages projects of research and valorisation of cultural, archival and librarian heritage in Italy in and in foreign countries, financed by bank-endowed institutions, Research institutions and European Union.

As Secretary General she commits to the structure-building and the economic development of the culture field, by addressing funding issues as well as defining indicators and impact models and evaluating activities; she studied the legislative, fiscal and operational sides of cultural events sponsorship; she participated in the realization and fine tuning of informatics services within the field of contemporary history archives and private libraries

Severi Patrizia graduated in History, works at the Istituto Sturzo since 2002 projecting and coordinating the realization of research activity, protecting and improving the archival and bibliographic heritage.

She has knowledge of basic and professional computer programs for the management of historical archives, cataloguing, treatment of texts and iconographic and audiovisual materials, digital publications, metadata cataloguing, cms platforms.

Since 2005 she coordinates the Digital Laboratory of the Institute, which performs activities of research and technologies application to the archival and bibliographical heritage (papery, iconographic and audiovisual).

She therefore deals with the coordination of digitalization projects (for conservation and consultation purposes) and with the online publication of archival sources; she projects operative models for activities of acquisition, treatment and management of digital resources for interoperability and sharing of national and international standards (project methodology, acquisition formats, standards, data, websites requirements etc.)

40 – Libraries Development, LGMA Local Government Management Agency

Libraries Development, Local Government Management Agency was established in 2012 to continue the functions of An Chomhairle Leabharlanna The Library Council. The functions of Libraries Development include the following:

- the provision of advice, assistance and services to library authorities in relation to the public library service.
- the making of such recommendations to and the provision of such services for the Minister in relation to the public library service
- action to promote and facilitate library co-operation within Ireland and internationally.

Libraries Development manages the national policy for the digitisation of public library holdings and the national digitisation research and initiatives arising. Activities to date include the national digitisation programme for public libraries, the national online resource for local studies material, digitisation of the archive of the national paper of record and online access provision to the most important Irish genealogical records for the nineteenth century. Libraries Development works with national education bodies to develop content to support the education curriculum in schools, with libraries to develop literacy and numeracy supports and liaises with teacher training colleges to tailor content and content applications to the requirements of the teacher. The organisation has participated in a number of EU projects including Activate, Cultivate, MINERVA, MinervaPlus, MinervaEC, EuropeanaLocal and is currently the national participant in the Linked Heritage, ENUMERATE and DC-NET projects.

Key personnel

Annette Kelly is the Head of Libraries Development. She is the library advisor to the Minister for the Environment, Community and Local Government and is responsible for the development of library strategy at national level. Annette manages the Changing Libraries Programme for the provision of electronic services in public libraries in Ireland. Annette is one of two Irish representatives on the Member States Experts Group on Digitisation and Digital Preservation. She is also a member of the policy steering group on public libraries, the Euro Focus on the Cultural Heritage Committee in Ireland and is the Chair of the public libraries' Cultural Heritage Panel for the digitisation of public library material.

Joan Ward has co-ordinated the national digitisation programme for public libraries in Ireland and co-ordinates the national online resource for digitised local studies material and the Changing Libraries Programme for the provision of electronic services in public libraries in Ireland. She is currently liaising with education bodies to deliver a teacher education programme on cultural heritage content. Joan is currently managing the creation of an historic digital book collection online and is co-ordinating the Irish input into the Linked Heritage project. Joan has managed the Irish input to a number of EU projects including Activate, MINERVA, MinervaPlus, MinervaEC and EuropeanaLocal.

Anne Marie O'Dwyer is a co-ordinator on the digitisation programme in Libraries Development. She is an expert advisor and researcher in a number of different media, particularly in literature and the environment. Anne Marie has experience in web development, editing and management and currently oversees the content development for the Irish public libraries' online local studies resource.

External cooperation

Russia and Israel already contributed to the ATHENA project on a voluntary basis. The selection of content they supplied to Europeana was done taking into consideration its tight liaison with some aspects of the European culture. For instance, the Israel Museum provided the digital version of its best known collection - The Shrine of The Book, which holds the oldest biblical manuscripts in the world, the Dead Sea Scrolls - as well as contemporary art work from the English artist Damien Hirst. By the other hand, also the Russian Rybinsk museum provided some items of its famous art collections of western-Europe. All these efforts were really appreciated by Europeana (see, for instance, the Europeana eNews of February 2011¹). For this reason, it seems extremely important to foster this important synergy also in ATHENA Plus, in order to assure that other important cultural content preserved in Russian and Israeli institutions – selected according their relevance to the European culture - may be accessible through Europeana.

Therefore, the ATHENA Plus consortium, through the coordinator, will explore the possibility to involve Russian and Israelian institutions to provide other cultural content and contribute to dissemination activities foreseen in WP7 in their respective countries. In any case, this contribution will be provided on a voluntary basis, without any formal responsibility towards the contractual obligations with EC, through an external cooperation with the project. This means that they will not accede as beneficiary - which they are not - to the Grant Agreement.

¹ <http://app.e2ma.net/app2/campaigns/archived/1403149/87e73befa9e27175cd3fa88ccfd59b4/#article2>.

B3.2a. Chosen approach

Explain the structure and organisation of your work plan, its overall strategy, and the methodology used to achieve the objectives. Attention should be given to the description of the technical work to be performed.

The work plan is organised in seven Work Packages, each of them (except WP1) jointly coordinated by two Partners, in order to have a higher number of Partners directly committed to the active development of the project.

WP1 deals with the management and coordination of the project and all the Partners are members of the Project Steering Committee that will provide the governance of the overall project. The detailed project governance elements are listed in Section B3.2c.

The seven Work Packages cover the various aspects of establishing, managing and monitoring the coherent work flow.

The functional elements include:

- the management of the project and its evaluation
- the coordination of content and standards
- the development of a platform for metadata aggregation and delivery to Europeana
- the work of terminologies for semantic enrichment of data
- the development and pilot testing of creative applications for the re-use of cultural resources
- and continuous awareness and dissemination actions assuring the wider application of the project results.

The work plan is divided in the following sections:

- WP 1 Project management and coordination
- WP 2 Coordination of content and standards
- WP 3 Platform for metadata aggregation and delivery to Europeana
- WP 4 Terminologies and semantic enrichment
- WP 5 Creative applications for the re-use of cultural resources
- WP 6 Pilots for testing the creative use of cultural contents
- WP 7 Awareness and dissemination

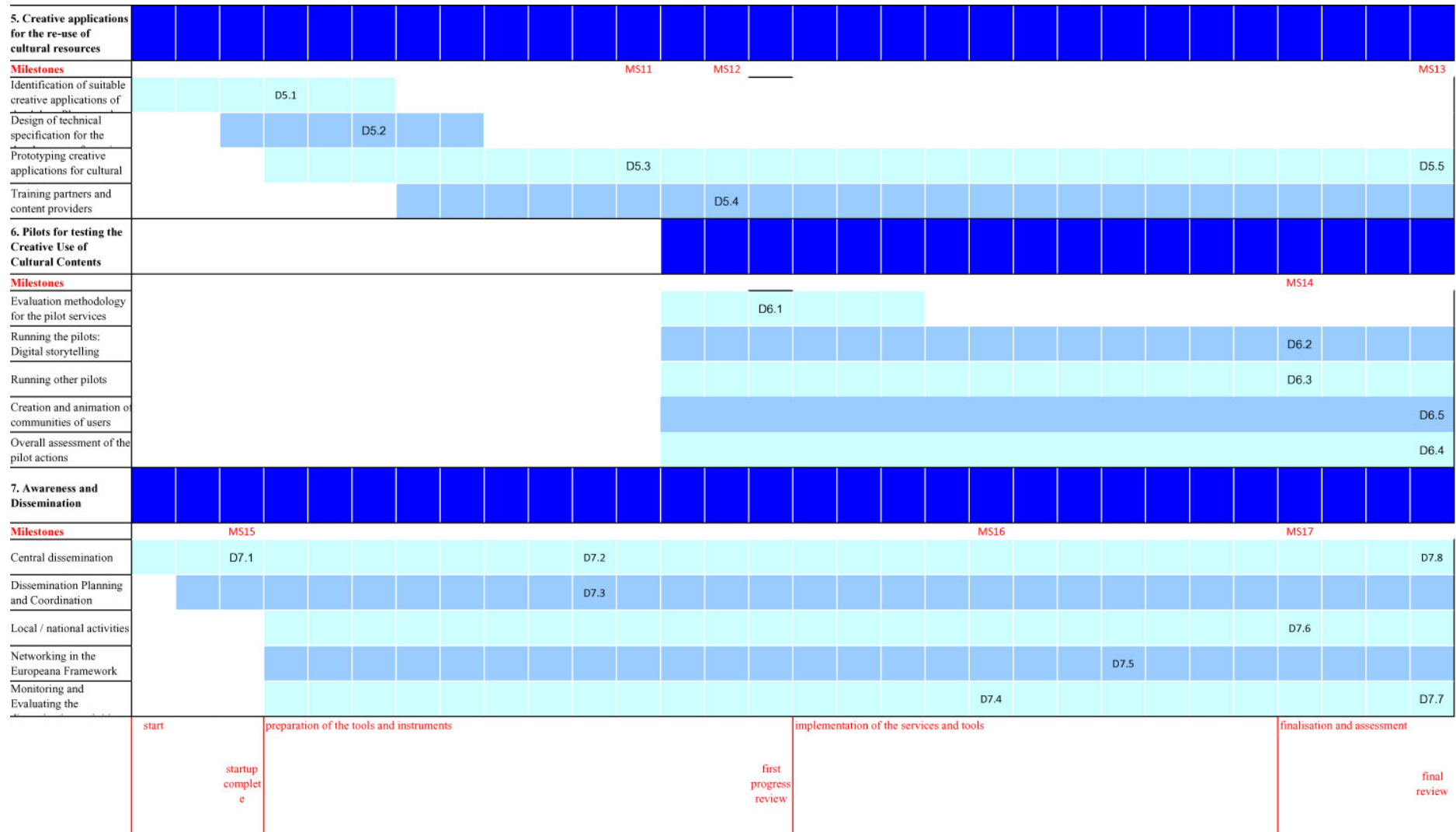
Most of the technical work will be done by Work Packages 2, 3, 4 and 5, where all the content providers will be initially requested to jointly identify, and describe their diverse collections. The project will then align the metadata according to Europeana requirements, and the content enrichment carried out by expert indexers. It will use relevant controlled vocabularies with the goal of improving the indexing and retrieval in the cultural heritage domain.

Finally the project aggregation workflow will be defined and the ingestion platform and repository will be set-up, for the purpose of ensuring syntactic and semantic interoperability across providers' data sources.

In parallel the development of tools for creative applications will analyse, define, configure, develop, and test the software components necessary to enrich metadata for a creative use of the content collected by the AthenaPlus project.

In the following page the **Gantt chart** of the AthenaPlus project is presented. After this chart the list of milestones is available and a more detailed description of the work flow is presented.

	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27	Month 28	Month 29	Month 30	
1. Project management and coordination																															
Milestones: Reviews called by EC																															
Plenary meetings	X						X						X						X					X						X	
Project management and financial coordination										D1.3													D1.4								D1.5, D1.6
Web-based working area reserved to partners																															
Evaluation and Quality Control		D1.1																													
Risk Management			D1.2																												
Liaison with the European Commission																															
2. Coordination of content and standards																															
Milestones																															
Organisation of the ingestion plan											D2.1												D2.3							D2.4	
Survey and description of mapping suitable to																	D2.2														
Training for mapping and the use of the																															
Helpdesk service																															
3. Platform for Metadata Aggregation and Delivery to Europeana																															
Milestones																															
Compliance with CH metadata modelling					D3.1			D3.2																							
Help desk support system																															
Metadata Ingestion																															
Delivery to Europeana																															D3.3
4. Terminologies and Semantic Enrichment																															
Milestones																															
Analysis and collection of suitable terminologies					D4.1																								D4.6		
Terminology management platform								D4.3																					D4.7		
Semantic enrichment of cultural metadata with					D4.2				D4.4														D4.5								D4.8
Organisation of pilot sessions for testing the																															



Milestones list

MILESTONE	NAME	WP NUMBER	LEAD BENEFICIARY NUMBER	DELIVERY DATE FROM ANNEX I	COMMENTS
MS1	First project review	WP1	1	12	First review called by EC
MS2	Second project review	WP1	1	24	Second review called by EC
MS3	Final project review	WP1	1	30	Final review called by EC
MS4	15-20% content uploaded in MINT	WP2	1	11	15-20% of the whole content is uploaded in MINT and ready to be harvested by Europeana
MS5	60-70% content uploaded in MINT	WP2	1	23	60-70% of the whole content is uploaded in MINT and ready to be harvested by Europeana
MS6	100% content uploaded in MINT	WP2	1	30	100% of the whole content is uploaded in MINT and ready to be harvested by Europeana
MS7	MINT/AthenaPlus ready for delivering content to Europeana	WP3	13	6	Starting point of the aggregation of content
MS8	First release terminology management platform (TMP)	WP4	3	9	First version of the Terminology Management Platform to be made available to the consortium as a web service
MS9	Second release of terminology management platform (TMP)	WP4	3	23	Final version of the Terminology Management Platform to be made available to the consortium as a web service
MS10	Semantic metadata enrichment process	WP4	3	28	Publication and linkage of metadata, terminology resources, and the semantic connections
MS11	First release of the AthenaPlus tools	WP5	17	12	First version of the AthenaPlus tools for virtual exhibitions, cultural tourist routes applications and the educational toolbox
MS12	Preparation of training materials for supporting the use of the AthenaPlus tools	WP5	4	14	Training materials which will be used by cultural institutions starting pilot actions
MS13	Revision of the AthenaPlus tools	WP5	17	30	Final version of the AthenaPlus tools
MS14	Assessment of the pilot actions	WP6	24	27	Global evaluation of the pilot actions and results for the validation of the solutions designed and developed by WP5
MS15	Creation of identity logo, corporate message and guidelines for partners	WP7	11	2	Starting of the dissemination activities: website, promotional material, etc.
MS16	First issue of the Uncommon Culture Journal	WP7	11	20	First issue of the Uncommon Culture journal – initiated under the Athena project – within AthenaPlus
MS17	AthenaPlus publications	WP7	11	27	Publications of two AthenaPlus dissemination booklets
MS18	Second issue of the Uncommon Culture Journal	WP7	21	30	Second issue of the Uncommon Culture journal – initiated under the Athena

					project – within AthenaPlus
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Workflow to support content providers

AthenaPlus will build on the positive experience gained in ATHENA and Linked Heritage, to improve the content provision workflow. There is a massive quantity of digital and digitised objects owned by European cultural institutions, museums, archives, and libraries as well as by research centres and preservation offices. For this content to be aggregated at the national level and/or for Europeana, there is, first and foremost, an acute need for the evaluation of best practices as well as the implementation of practical solutions to assure the long term sustainability of aggregated content. This demands a consistent and standardized approach for the mapping, aggregating and publishing of the metadata for Europeana according to appropriate standards and requirements. Europeana and the other Digital Library projects (national, regional, and thematic aggregators) are committed to guarantee online accessibility and, even more critically, the long term sustainability of digital resources.

The need for a simple tool that will facilitate the aggregation of content for Europeana that may be effective, fully-functional, yet at the same time user friendly, first emerged as a priority at the beginning of the ATHENA project. This task was performed by the National Technical University of Athens (NTUA) that developed and fine-tuned a platform called MINT that allowed Content Providers to upload, map, validate and send data to Europeana in a single web environment. MINT implemented LIDO 1.0 as intermediate harvesting schema.

This metadata ingestion service enables:

- The data uploading and mapping to LIDO by contributing Partners;
- The transformations of the metadata records into LIDO records and the aggregation in the project repository;
- The validation of the content as it will be shown in Europeana because it embeds the Europeana Content Checker;
- The conversion of the stored data into ESE/EDM and transmission to the Europeana ingestion office via OAI-PMH.

This last step (i.e. the transmission of data to Europeana) is technically managed by NTUA; however, Content Providers will be required by Europeana to re-check again the quality of the content once they have been published online in order to assess potential problems (e.g. no thumbnails).

LIDO

AthenaPlus will create rich metadata using the LIDO metadata harvesting standard (www.lido-schema.org), developed during the ATHENA project, on the base of previous good practises. It is a well maintained standard, supported by the Data Harvesting and Interchange Working Group of CIDOC¹⁵ (the international documentation committee of ICOM). Several ATHENA Partners (UNIMAR, CT, SPK) were involved in the creation of LIDO. In addition, LIDO can, based on the experiences of the ATHENA project and others, be easily transformed to Europeana's ESE and EDM standards.

LIDO (Lightweight Information Describing Objects) is the result of a collaborative effort of international stakeholders in the museum sector to create a common solution for contributing cultural heritage content to web applications. It provides an explicit format to deliver (museum's) object information in a standardized way.

LIDO is a XML Schema for contributing content to cultural heritage repositories, for delivering metadata, for use in a variety of online services, from an organization's online collections database to portals of aggregated resources – as well as exposing, sharing and connecting data on the web. LIDO is intended to represent the full range of descriptive information about museum objects, e.g. art, cultural, technology and natural science. It supports multilingual environments.

Metadata interoperability service (MINT)

The purpose of digital library projects is to aggregate content from different stakeholders that use a variety of metadata schemas to describe their content. The aim of AthenaPlus is to harmonize data from different

¹⁵ http://cidoc.mediahost.org/WG_Data_Harvesting%28en%29%28E1%29.xml

providers in a metadata schema that meets the needs of the aggregated content from the specific project, in order to be transformed in the Europeana metadata schema.

The technical platform which will be used by AthenaPlus for the aggregation process will be the MINT tool, developed by the National Technical University of Athens in the framework of the ATHENA project and improved in further project, The Content Providers will use MINT to map from the “source” metadata format to LIDO harvesting schema, and again from that format to the Europeana Data Model (EDM).

MINT participates in aggregation, digitization and technology-enabling projects & initiatives for digital cultural heritage [1]. These typically involve the design, implementation and execution of a metadata (and/or content) ingestion strategy, according to their respective domain(s) and scope, the participating institutions and, available resources and time. MINT services compose a web based platform that is employed from the first steps of such workflows, corresponding to the ingestion, mapping, transformation and enrichment of metadata records. According to the architecture, MINT implements a variety of remediation approaches for the resulting repository that allow for the storage, delivery, access and retrieval of metadata records. Deployment and integration also involve other systems and services, such as a portal and search engine, collection management and long term preservation systems, repositories etc. Interoperability is achieved through the use of well-defined metadata models, and the alignment of the providers' records to their requirements. MINT employs a visual mapping editor for the XSL language to implement crosswalks to the reference metadata model. It is being used by a growing number of providers that align proprietary data structures to a variety of standard or aggregation-specific models, and in that way establish and maintain interoperability with aggregators and Europeana.

MINT Aggregation workflow

The platform offers a user and organization management system that allows the deployment and operation of different aggregation schemes (thematic or cross-domain, international, national or regional) and corresponding access rights. Registered organizations can upload their metadata records in xml or csv serialization in order to manage, aggregate and publish their collections. A reference metadata model serves as the aggregation metadata schema to which the ingested (standard or proprietary) schemata are aligned to. Users can define their metadata crosswalks with the help of a visual mappings editor for the XSL language. Mapping is performed with simple drag-and-drop or input operations which are then translated to the corresponding code. The mappings editor visualizes both the input and target XSD, in an intuitive interface that provides access and navigation of the structure and data of the input schema, and the structure, documentation and restrictions of the target one. Mappings can be applied to ingested records, edited, downloaded and shared as templates between users of the platform.

Preview interfaces present to users the steps of the aggregation including the current input xml record, the XSLT of their mappings, the transformed record in the target schema, subsequent transformations from the target schema to other models of interest (e.g. Europeana's metadata schema), and available html renderings of each xml record. Users can transform their selected collections using complete and validated mappings in order to publish them in available target schemas for the required aggregation and remediation steps. The platform has been deployed for a variety of aggregation workflows corresponding to the whole or parts of the backend services. Specifically, it has served the aggregator of museum content for Europeana (and one of the largest in volume and significance), the ATHENA project, that has ingested from 135 organizations over 4 million items, which users aligned to the LIDO format. The resulting repository offers an OAI-PMH interface exposing the records in the Europeana Semantic Elements schema. The use of a reference model allowed the rapid support of updated ESE versions that were introduced in the duration of the project (2008-2011), with minimal input from providers. User efforts to align their data to an adopted domain model motivated them to update their collection management systems and improve the quality of their annotations in order to take advantage of a well defined, machine understandable model and, subsequently, control and enrich their organization's contribution and visibility through Europeana. The EUscreen project also follows the same aggregation workflow for Europeana while, in addition, it provides a portal for Europe's television heritage where both the video content and metadata records are offered to users. The metadata records for the portal are based on the selected reference models (EUscreen and EBUcore) for which an item annotator gui was introduced. MINT serves the aggregation and remediation of records both for the portal (also offering the lucene indexes for the search engine) and Europeana (OAI-PMH for ESE). Similarly, the CARARE, JUDAICA Europeana, ECLAP, DCA and

LinkedHeritage projects utilize MINT to accommodate their aggregation and remediation requirements for their specific domain and project, and for Europeana. The group is actively participating in several metadata modelling activities such as LIDO [2], where the tool is used for the presentation and revision of the LIDO schema by the corresponding CIDOC working group, EDM [3], for the prototyping of the Europeana Data Model harvesting XSD and RDFS ontology, and EBU Tech [4]. It is also involved in the development of Europeana [5] and the Digital Public Library of America [6]. The growing user base (more than 300 cultural heritage organizations and 500 users) contributes to its ongoing development, improvement and support, while the first version, MINT-ATHENA, was released under an open source license in July 2011.

MINT Technical specifications

Platform MINT handles metadata records from the content provider's delivery up to the aggregation repository(-ies), publication mechanism(s) and front-end(s). It is written in JAVA, JSP, HTML and Javascript. It uses PostgreSQL as an object-relational database with Hibernate as the data persistence framework, and mongoDB as a document-oriented database. MINT is also reusing other open source development frameworks and libraries according to specific deployments and customizations (e.g. see [7]). MINT source code versions (usually project-based) are released under a free software license [8]. The platform offers a user and organization management system that allows the deployment and operation of different aggregation schemes with corresponding user roles and access rights. An authenticated Restful web service is currently being designed to interoperate with other user identity & authentication systems.

Ingest	Registered users can upload their metadata records in XML or CSV serialization, using the HTTP, FTP and OAI-PMH protocols. Users can also directly upload and validate records in a range of supported metadata standards (XSD). XML records are stored and indexed for statistics, previews, access from the mapping tool and subsequent services. Current developments aim to support relational database schemata and RDF resources as input.
Processing	Handling of metadata records includes indexing, retrieval, update and transformation of XML files and records. XML processors (Apache Xerces, SAXON, Nux) are used for validation and transformation tasks as well as for the visualization of XML and XSLT. For issues of scalability with respect to the amount of data and concurrent heavy processing tasks, parts of the services are multi-threaded and queue processing mechanisms are implemented.
Align & Normalize	MINT uses a visual mapping editor for the XSL language. Mapping is performed through drag-and-drop and input operations which are translated to the corresponding code. The editor visualizes the input and target XSDs, providing access and navigation of the structure and data of the input schema, and the structure, documentation and restrictions of the target one. It supports string manipulation functions for input elements in order to perform 1-n and m-1 (with the option between concatenation and element repetition) mappings between the two models. Additionally, structural element mappings are allowed, as well as constant or controlled value (target schema enumerations) assignment, conditional mappings (with a complex condition editor) and value mappings between input and target value lists. Mappings can be applied to ingested records, edited, downloaded and shared as templates. Preview interfaces present the steps of the aggregation such as the current input xml record, the XSLT code of mappings, the transformed record in the target schema, subsequent transformations from the target schema to other models of interest (e.g. Europeana's metadata schema), and available html renderings of each xml record. Users can transform their selected collections using complete and validated mappings in order to publish them in available target schemas for the required aggregation and remediation steps. Various additional resources such as terminologies, vocabularies, authority files and dictionaries are used to reinforce an aggregation's homogeneity and interoperability with external data sources. A typical usage scenario is the connection of a local (server) or online resource with a metadata element in order to be used during mapping/normalization. These resources can be XML, RDFS/OWL, SKOS or even proprietary systems accessed through APIs. Normalization services such as group editing

	and value mapping are currently being implemented as standalone tasks for direct imports.
Link & Enrich	Semantic web technologies are used to transform metadata records to web resources in order to participate in the emerging web of data that promotes transparency and interoperability between trusted sources. Currently, a lot of aggregations are already taking advantage of the rapidly growing linked data sources published worldwide [9]. MINT uses 4Store and Sesame for RDFS/OWL storage and processing, and links data sources to external SPARQL endpoints using string-based and knowledge-assisted matching strategies. Entity/term extraction and/or natural language processing frameworks are evaluated to expand the number of suggested links. RabbitMQ is used to allow for a reliable, scalable and portable messaging and processing system, used in and between different services. A pilot, cloud-enabled implementation of enrichment and semantic search was released for the INDICATE project and is available at [10].
Remediate	MINT is being used to publish metadata in XML, JSON or RDFS/OWL according to the mechanism and usage. Typical scenarios include an OAI-PMH repository for XML records, SPARQL endpoints for triple stores, Lucene-based indexes for search engines and Restful or Restless APIs for third party services.
Documentation & References	Find more information on MINT at http://mint.image.ece.ntua.gr User manual: http://mint.image.ece.ntua.gr/redmine/projects/mint/wiki/User_manual [1] http://mint.image.ece.ntua.gr/redmine/projects/mint/wiki/Projects_using_Mint [2] http://www.lido-schema.org [3] http://pro.europeana.eu/web/guest/edm-documentation [4] http://tech.ebu.ch/lang/en/MetadataSpecifications [5] http://pro.europeana.eu [6] http://dp.la [7] https://github.com/mint-ntua/Mint [8] http://www.gnu.org/licenses/agpl.html [9] http://lod.euscreen.eu/ [10] http://83.212.97.67:8080/IndicatePilot/

The workflow in providing content

Building upon previous experiences the AthenaPlus workflow expedites:

- organizing the content provision
- supporting the provider's work and facilitate their procedures
- receiving feedback from the providers should they have any difficulties with their input
- improvements of the work chain, bugs, etc. anticipating future actions.

The first step for harnessing content into Europeana is to assess the digital collections that the Content Providers describe in the Description of Work. Through our experience in past projects, we have demonstrated that from the proposal stage to the approval and beginning of the project there are potentially many factors that need to be addressed:

- *Technical problems:* Concerning the re-engineering of the digital library or technical platform for data management, metadata not associated to digital objects, digitisation process not complete, etc.
- *Managerial issues:* For example the collection manager was replaced or moved to another office in the institution where the new manager needs to be trained.
- *Copyright issues:* The rights clearance still to be addressed.

We will pre-empt these issues as much as possible through a survey which will inform the Network on the operational status of each of digital collection. We have found that this survey is critical as it informs our analyse of the potential issues described above and to clarify the organisational aspects of the ingestion plan.

In addition, the survey is recorded in the project Ingestion Plan and contributes the content aggregation timetable.

The survey is also critical to the revision of the content list declared before the start of the project and to the elaboration of the Ingestion Plan. The aim of this plan is to orchestrate the content provision and monitor the ingestion progresses: it is a working document always in evolution, updated and monitored on the basis of continuous interviews (e-mails, Skype calls, etc.) to the Content Providers during the entire lifetime of the project.

Training is fundamental to establishing and fine-tuning the aggregation flow. As coordinators of the ingestion process, together with the technical coordinators in charge of the platform and of LIDO, the WP Leader in charge of content coordination will organise face-to-face training sessions with the projects Content Providers to inform them on mapping to LIDO and the use of the ingester. From our prior experience we have found that it is also necessary to prepare a training kit for Content Providers including guidelines and instructions for mapping to LIDO and using MINT.

In order to support the contribution of substantial quantities of content to Europeana we will define several feedback mechanisms for the refinement and improvement of the ingestion process. These will include:

- Data report from the MINT ingester, for both overall and analytic views on the content ingestion;
- A help-desk service for managing any difficulties the Partners may face in the content aggregation process (mainly technical and mapping issues);
- Periodic interviews via e-mail and telephone/Skype calls mainly for collection management/content provision issues.

All requests made by the Content Providers through the help-desk service will be recorded in specific files especially designed for managing this information. The state of the art ingestion information will be documented in the report menu of the MINT ingester.

B3.2b. Work plan

A detailed work plan should be presented, broken down into work packages (WPs). A work package is a major sub-division of the proposed project with a verifiable end-point - normally a deliverable in the overall project. Work Packages should follow the logical phases of the implementation of the project, and include consortium management, performance monitoring and evaluation, awareness and dissemination activities, as well as the technical work. If any part of the work is to be sub-contracted, indicate the task involved and explain why a sub-contract approach has been chosen for it.

Present your plans as follows:

- Show the timing and dependencies of the different WPs and their components through a **GANTT chart**.
- Provide a detailed work description broken down into work packages:
 - **Work package list** (use table 1 template);
 - **Deliverables list** (use table 2 template);
 - **Work package description** (use table 3 template);
 - **Summary effort table** (use table 4 template)
 - **Risk assessment** (use table 5 template)

Note that:

- *The figures in these tables must be consistent with the cost breakdown table in Part A*
- *The number of work packages used must be appropriate to the complexity of the work and the overall value of the proposed project. The planning should be sufficiently detailed to justify the proposed effort and allow progress monitoring by the Commission.*
- *Any significant risks should be identified, and contingency plans described.*

Table 1: Template - Work package list

Work package No.(i)	Work Package Title	Lead Participant No. (ii)	Lead Participant Short name (iii)	Total person months per WP (iv)	Start Month (v)	End Month (vi)
WP 1	Project management and coordination	1	ICCU	90	1	30
WP 2	Coordination of content and standards	1, supported by 25	ICCU Collections Trust	394	1	30
WP 3	Platform for Metadata Aggregation and Delivery to Europeana	13, supported by 12	NTUA UNIMAR	105	2	30
WP 4	Terminologies and Semantic Enrichment	3, supported by 10	KMKG MCC	108	3	30
WP 5	Creative applications for the re-use of cultural resources	17, supported by 4	META PACKED	119	1	30
WP 6	Pilots for testing the Creative Use of Cultural Contents	24, supported by 21	I2Cat ICIMSS	131	13	30
WP 7	Awareness and Dissemination	11, supported by 6	SPK Michael	162	1	30
			(total)	1109		

Notes:

- i. *Work package number: WP 1 – WP n*
- ii. *Number of the participant leading the work in this work package.*
- iii. *As chosen in section A3*
- iv. *The total number of person months allocated to each work package. (For the coordinator please include all personnel effort needed for coordination and implementation of the network as well as any personnel effort for elaboration of deliverables; for all other beneficiaries, only the effort for elaboration of deliverables should be mentioned).*
- v. *Relative start date for the work in the specific work packages, month 0 marking the start of the project, and all other start dates being relative to this start date. Measured in months from the project start date (month 1).*
- vi. *Relative end date, month 0 marking the start of the project, and all ends dates being relative to this*

Table 2: Template - Deliverables list

Deliverable No (i)	Deliverable name	WP No.	Nature (ii)	Dissemination level (iii)	Delivery date (proj. month) (iv)
D1.1	D1.1: Project quality plan and Risk Management Plan	1	R	RE	Month 02
D7.1	Creation of identity logo, corporate message, project website, shared dissemination plan and guidelines for Partners	7	R	PU	Month 03
D1.2	Terms of reference for the best practice network and the enlargement of the network	1	R	PU	Month 03
D5.1	Report on the user needs and requirements	5	R	PU	Month 04
D5.2	Report on existing tools and devices related to anchored storytelling and narrative approaches and requirements functionalities needed to support the use of CHO and related information in storytelling and narration	5	R	PU	Month 06
D1.3	Periodic progress report 1	1	R	RE	Month 11
D3.1	The MINT ingestion platform	3	P	PU	Month 06
D4.1	First release GLAM sector reference terminologies	4	R	PU	Month 06
D4.2	Review on Linked Open Data Sources	4	R	PU	Month 06
D3.2	Description of the LIDO to EDM mapping	3	R	PU	Month 09
D4.3	First release terminology management platform (TMP)	4	R	PU	Month 09
D4.4	Specialist training material: TMP user manuals and semantic mapping procedures	4	R	PU	Month 10
D1.4	Periodic progress report 2	1	R	RE	Month 23
D2.1	Workflow to Europeana	2	R	RE	Month 11
D5.3	First release of the AthenaPlus tools	5	D	PU	Month 12
D7.2	Analysis, scenarios and use cases, opportunities of innovative services for DCH, and future development options	7	R	PU	Month 11
D7.3	First report on dissemination activities and networking in the European framework	7	R	PU	Month 11
D5.4	Training materials for supporting the use of the AthenaPlus tools	5	R	PU	Month 14
D6.1	Evaluation framework for the pilots	6	R	PU	Month 15
D7.5	First Report on Networking in the Europeana framework	7	R	PU	Month 15
D2.2	Survey and description of existing mapping models to LIDO	2	R	PU	Month 18
D7.4	First Issue of the Uncommon Culture Journal	7	R	PU	Month 20
D2.3	Workflow to Europeana	2	R	RE	Month 23
D4.5	Second release of terminology management platform (TMP)	4	R	PU	Month 23
D7.5	Second report on dissemination activities and networking in the European framework	7	R	PU	Month 23
D4.6	Linking of metadata to external data sources	4	R	PU	Month 27
D6.2	Report describing the pilot on storytelling	6	R	PU	Month 27
D6.3	Report with the assessment of the pilot actions	6	R	PU	Month 27

D7.6	AthenaPlus publications	7	R	PU	Month 27
D4.7	Semantic metadata enrichment process: publication and linkage of metadata, terminology resources, and the semantic connections	4	R	PU	Month 28
D1.5	Final project report	1	R	RE / PU	Month 30
D1.6	Exploitation Plan	1	R	PU	Month 30
D2.4	Workflow to Europeana	2	R	PU	Month 30
D3.3	Final report on the platform for metadata aggregation and delivery to Europeana	3	R	PU	Month 30
D4.8	Evaluation of the pilot sessions and second release of GLAM sector reference terminologies	4	R	PU	Month 30
D5.5	Revision of the AthenaPlus tools	5	D	PU	Month 30
D6.4	Manual of good practices, how to implement the pilots	6	R	PU	Month 30
D6.5	Report describing the communities of users	6	R	PU	Month 30
D7.7	Final report on dissemination and networking activities	7	R	PU	Month 30
D7.8	Second Issue of the Uncommon Culture Journal	7	R	PU	Month 30

Notes:

- i. *Deliverable numbers in order of delivery dates. Please use the numbering convention <WP number>.<number of deliverable within that WP>. For example, deliverable 4.2 would be the second deliverable from work package 4.*
- ii. *Please indicate the nature of the deliverable using one of the following codes:
P = Prototype; R = Report; D = Demonstrator, SP = Specification, O = Other.*
- iii. *It is expected that most of the deliverables will be publicly available. Please indicate the dissemination level using one of the following codes:
PU = Public, for wide dissemination (public deliverables shall be of a professional standard in a form suitable for print or electronic publication);
PP = Restricted to other programme participants;
RE = Restricted to a group specified by the consortium;
CO = Confidential, limited to project participants
(Irrespective of the status, all reports and deliverables must be made accessible to the other project participants and the responsible European Commission services.)*
- iv. *Month in which the deliverables will be available. Month 0 marking the start of the project, and all delivery dates being relative to this start date.*

Table 3: Template – Work package description

Work package number :	WP1						Start date or starting event:				Month 1			
Work package title:	Project management and coordination													
Participant number:	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14
Participant short name	Iccu	Uma	Kmkg	PACKEDE	Okv	Michael	CyI	NM	Evkm	Mcc	SPK	UniMar	Ntua	Hmct
Person-months per participant: (i)	35	1	2	2	1	2	1	1	1	1	2	2	2	1

Participant number:	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24	P25	P26	P27
Participant short name	PIM	BNCRM	Meta	Nmi	Lam	ICIMS	Ipchs	GenCat	I2C at	CT	RA	Sam	Muo
Person-months per participant: (i)	1	1	2	1	1	2	1	1	2	2	1	1	1

Participant number:	P28	P29	P30	P31	P32	P33	P34	P35	P36	P37	P38	P39	P40
Participant short name	Sgdap	UP	KIS	Eajc	UniSav	Bar	Dédale	Upmf	CL-Bas	Inp	KIKIrpa	ILS	LGMA
Person-months per participant: (i)	1	7	1	1	1	1	1	1	1	1	1	1	1

Objectives (ii)

This WP, led by ICCU, is responsible for the following objectives to:

- Produce a workplan, monitor it and maintain it throughout the life-cycle of the project;
- Coordinate all of the work packages' activities of and to orchestrate all these activities throughout all of the phases of the project making sure that the work package teams reach their specific goals and responsibilities across the overall project;
- Produce the terms of reference for the best practice network and for the expansion of the Network;
- Manage and facilitate the communication and discussion among the Project Management Board;
- Organise the kick-off meeting and a plenary meeting every six months, with the contribution of all partners;
- Promote activities and exchange of information and data among the members of the Network;
- Monitor and evaluate the progress of the project with respect to the defined objectives;
- Elaborate a Risk Management plan that foresees risks, estimates the impacts, and creates response plans to mitigate them;
- Maintain contact with the European Commission and manage the administrative and financial aspects of the project;
- Coordinate the project activities with Europeana, with other projects supported by the European Commission within the same Programme, as well as with other national and transnational initiatives;
- Make provision for the future success of the AthenaPlus outputs, demonstrating the real value of the service to stakeholders and decision-makers, and so underpin future funding.
- Put in place a task force for analysing and solving IPR issues;
- Edit an Exploitation Plan with the contribution of all partners.

Description of work (iii)

The Work Package will consist of six tasks:

Task 1.1 – Project management and financial coordination**Task Leader: ICCU**

The WP leader, supported by all Partners and Work Package Leaders, will receive project funding from the European Commission and will manage finances and the reimbursement of costs to the consortium Partners in a timely manner and maintain the necessary records.

ICCU will also be responsible for the internal consortium management and coordination. The project coordinator will provide a draft consortium agreement, facilitate progress through day-to-day e-mail contact with all consortium Partners and work package leaders, by means of e-mail distribution lists for various target groups, as well as email, video and telephone conferences, define the terms of reference for the Best Practice Network, the expansion of the Network and the creation of the working groups.

The WP leader will also:

- Organise a kick off meeting (M1) and a plenary meeting every six months;
- Establish procedures to facilitate activity reporting by Partners and coordinate the project activities with Europeana, with the other projects supported by the European Commission within the same Programme, as well as with other national and transnational initiatives;
- Put in place a dedicated IPR task force in order to act as help-desk for Partners and solve any IPR issues. This IPR task force will be coordinated by ICCU in cooperation with partner University of Patras (UP);
- Monitor partner's DEA signature with Europeana.

Task 1.2 – Web-based working area reserved to Partners**Task Leader: ICCU**

The Web-based working area reserved for Partners, set up in the framework of WP7, will be used in order to ensure that all key project documents and internal support tools, drafts, interim reports and monitoring data are available to all members of the consortium.

Task 1.3 – Evaluation and Quality Control**Task Leader: ICCU**

The Project Quality Plan will be established and maintained and Partners' inputs will be compiled and integrated into the plan so that project progress can be monitored on a quarterly basis. The project manager will submit Project Quality reports during the plenary meetings of the Project Management Board (PMB). ICCU will ensure that all milestones are reached by coordinating the work packages and monitoring the progress in the delivery of the project's objectives.

In addition, ICCU will ensure that all deliverables will be compiled, reviewed and submitted on time.

Appropriate arrangements will be put in place for the review of all deliverables. Each deliverable will be reviewed by Partners not directly involved in its creation, both for content and presentation. They will be submitted for review at least two weeks before their formal submission date. The list of internal peer reviews will be agreed at the kick-off meeting. ICCU will undertake regular progress monitoring so that all deliverables are completed according to the project's plan. However any necessary changes to the timing of deliverables will be agreed by the PMB and subsequently reported to the Commission.

Task 1.4 – Risk Management**Task Leader: ICCU**

ICCU, supported by Work Package Leaders and other Partners, will be responsible for the establishment, maintenance and updating of the Project Risk Register and will coordinate risk management.

The Project Risks Analysis & Mitigation (PRAM) technique will be used. Risks will be identified and logged onto a risk register, providing a consistent basis for calculating the project risks, the analysis performed as well as the mitigation strategies to be developed to keep risks at an acceptable level. It also serves as a tool for communication amongst consortium members.

Task 1.5 – Project documentation**Task Leader: ICCU**

The WP leader will be responsible for maintaining online availability and long-term storage of all documents issued (both internal and public).

Task 1.6 – Liaison with the European Commission**Task Leader: ICCU**

ICCU will be directly responsible for the activities of AthenaPlus to the European Commission and will align the workflows of the project across the work packages. ICCU will therefore constitute the single point of contact and will handle the administrative and financial tasks connected with the activities of the project,

such as cost claims, progress or final project reports as required by the Commission. ICCU will obtain formal documentation to be provided as necessary by each participant, organise appropriate attendance on behalf of the project at review, organisational and information day meetings. ICCU will coordinate the project's contribution and response to the Commission's peer reviews.

Deliverables (iv)

D1.1: Project quality plan and Risk Management Plan

Month 2

Set of activities planned at the beginning of the project that helps achieve Quality in the Project being executed. Guidelines to foresee risks, to estimate the impacts, and to create response plans to mitigate them..

Restricted

D1.2: Terms of reference for the best practice network and the enlargement of the network

Month 3

Model and procedures for establishing and managing Partners and working groups (WGs). Procedures for the enlargement of the network and cooperation rules. Definition of a model of cooperation agreement.

Public

D1.3: Periodic progress report 1

Month 11

Consortium management tasks and achievements. Detailed description of the costs incurred by the project ((months 1-11).

Restricted

D1.4: Periodic progress report 2

Month 23

Consortium management tasks and achievements. Detailed description of the costs incurred by the project (months 12-23). *Restricted*

D1.5: Final project report

Month 30

Consortium management tasks and achievements. Detailed description of the costs incurred by the project (months 24-30). It includes also a summary report for publication, targeted to the general public. *Restricted /*

Public

D1.6: Exploitation plan

Month 30

Tasks agreed and started by the AthenaPlus consortium to guarantee the sustainability of the service after the end of the Community support. It will outline the future of the project and the use of the valuable knowledge gained from it. *Public*

Table 3: Template – Work package description

Work package number :	WP2						Start date or starting event:				Month 1			
Work package title:	Coordination of content and standards													
Participant number:	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14
Participant short name	Iccu	Uma	Kmkg	PA CK ED	Okv	Michael	CyI	NM	Evkm	Mcc	SPK	Uni Mar	Ntu a	Hm ct
Person-months per participant: (i)	50	3	0	0	4	0	13	8	8	0	3	4	2	10

Participant number:	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24	P25	P26	P27
Participant short name	PIM	BN CR M	Meta	Nmi	Lam	ICI MS S	Ipchs	Gen Cat	I2C at	CT	RA	Sam	Mu o
Person-months per participant: (i)	8	17	0	5	6	3	4	12	0	25	13	7	9

Participant number:	P28	P29	P30	P31	P32	P33	P34	P35	P36	P37	P38	P39	P40
Participant short name	Sgd ap	UP	KIS	Eajc	Uni Sav	Bar	Déd ale	Up mf	CL- Bas	Inp	KIK Iipa	ILS	LG MA
Person-months per participant: (i)	47	17	6	7	0	13	0	4	13	25	12	27	9

Objectives

This WP, led by ICCU supported by CT, is responsible for the following objectives to:

- Manage the content provision to Europeana.
- Gather feedbacks from the Content Providers in order to resolve aggregation problems and to improve and refine the aggregation flow.
- Provide support to the Content Providers for the mapping of their metadata formats to LIDO and the use of the AthenaPlus ingestion platform.

Description of work**Task 2.1: Organisation of the ingestion plan****Task leader: CyI**

The organisation of the content provision to Europeana is the first task to be implemented because it insures the effective workflow according to the overall plan.

To achieve this goal, the task leader will undertake a survey in order to gather and update detailed information about the digital collections described in B.2.1b of the DoW by the Content Providers; this data will be collected in the AthenaPlus ingestion plan which will collate the quantity of the digital collections, contact people, metadata standards applied, and the foreseen schedule of the ingestion.

The ingestion plan will be an evolving document and will be constantly updated. It is designed to support the task leader manage and assess the aggregation process into Europeana.

The aggregation of content for Europeana marks 3 milestones:

- month 12: 15- 20% of the whole content is uploaded in MINT and ready to be harvested by Europeana;
- month 24: 60-70% of the whole content is uploaded in MINT and ready to be harvested by Europeana;
- month 30: 100% of the whole content is uploaded in MINT and ready to be harvested by Europeana.

The survey will be also helpful for the identification of best practice for content re-use and IPR management for WP5 and WP6 tasks.

Task 2.2: Survey and description of mapping suitable to LIDO**Task leader: CT**

Under the successful direction of ATHENA Project the harvesting standard for museum heritage, LIDO, became an international standard. Its definition in an XML schema, together with the specification document, can be found at www.lido-schema.org.

LIDO is the result of a collaborative effort of international stakeholders in the museum sector, starting in 2008, to create a common solution for contributing cultural heritage content to portals and other repositories of aggregated resources. Being an application of the CIDOC Conceptual Reference Model (CRM) it provides an explicit format to deliver museum's object information in a standardized way. We are proud to report that LIDO is also successfully being used in cross-domain contexts; with a surprisingly rapid and extensive uptake¹⁶:

Europeana group of projects

- Partage Plus – Digitising and enabling Art Nouveau for Europeana
- Linked Heritage - Coordination of Standards and Technologies for the Enrichment of Europeana
- DCA - Digitising Contemporary Art
- Europeana Judaica - Jewish Contribution to Europe's Cultural Heritage
- MIMO - Musical Instrument Museums Online
- ATHENA - Access to Cultural Heritage Network across Europe

National digital libraries

- Finnish National Digital Library
- German Digital Library

Regional or thematic applications

- BAM-Portal
- Bildindex der Kunst und Architektur
- digiCULT
- eMuseum network
- Yale Centre for British Art

Research projects

- MINT - Metadata Interoperability Services
 - WissKI - Scientific Communication Infrastructure
- and many other European projects and museums.

In reference of this extensive uptake, we plan to collect and publish all the existing mapping models to LIDO realised in different frameworks and domains online (including the EDM, Europeana model) in order to support other cultural institutions in the application of this harvesting format. Other relevant mappings to LIDO not yet realised may be done in this phase to produce a complete work. This work will benefit from the survey upon the metadata models used by the AthenaPlus consortium carried out within task 2.1.

Task 2.3: Training for mapping and the use of the AthenaPlus aggregation platform

Task leader: CyI

The task leader will organise training sessions to support Content Providers map to LIDO and will guide them how to use the aggregation platform (MINT). The first training session will be organised at the very beginning of the project and repeated across Europe according to the need.

Training materials for Content Providers will be produced on how to aggregate and to use LIDO and MINT.

Task 2.4: Helpdesk service

Task leader: ICCU

At the start of the ingestion phase a help-desk service will be created to support the Content Providers overcome their problems and to keep content coordinators informed as their activities advance. This task will be performed jointly by ICCU, CyI, CT, NTUA, and UNIMAR in order to assure feedback to each kind of potential problem (mapping, use of MINT, software bugs, deadlines, etc.). See also Task 3.2.

¹⁶ <http://network.icom.museum/cidoc/working-groups/data-harvesting-and-interchange/lido-community/use-of-lido.html>

Deliverables**D2.1: Workflow to Europeana****Month 11**

This deliverable will describe the entire content provision procedure to Europeana (ingestion plan, helpdesk, training sessions and material) and present the results of the first ingestion of content due at month 12 including the description of the problems faced by Content Providers and the adopted solutions. This deliverable will be also updated every every six months till the end of the project; a total of 3 deliverables are foreseen.

The deliverable will also describe the state of the art of the metadata used by the Content Providers, as a preliminary investigation, in order to facilitate the further work of the Task 2.2. *Restricted*

D2.2: Survey and description of existing mapping models to LIDO**Month 18**

This deliverable will describe the methodology, the targets and the results of the survey. It will include recommendations to help AthenaPlus and future Content Providers find their way. It will include an online section collecting all the existing mapping models to LIDO realised in different frameworks and domains (including that one to EDM). *Public*

D2.3: Workflow to Europeana**Month 23**

This deliverable will update the procedure adopted to organize the content provision to Europeana (ingestion plan, helpdesk, training sessions and material) and present the results of the ingestion of content due at month 24 including the description of the problems faced by Content Providers and the adopted solutions. *Restricted*

D2.4: Workflow to Europeana**Month 30**

This deliverable will present the results of the ingestion of content due at month 30 including the description of the problems faced by Content Providers and the adopted solutions. *Public*

Table 3: Template – Work package description

Work package number :	WP3					Start date or starting event:					Month 2			
Work package title:	Platform for metadata aggregation and delivery to Europeana													
Participant number:	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14
Participant short name	Iccu	Uma	Kmkg	PA CK ED	Okv	Michael	CyI	NM	Evkm	Mcc	SPK	Uni Mar	Ntu a	Hm ct
Person-months per participant: (i)	21	1	0		1	0	2	1	1	0	1	12	38	1

Participant number:	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24	P25	P26	P27
Participant short name	PIM	BN CR M	Met a	Nmi	Lam	ICI MS S	Ipch s	Gen Cat	I2C at	CT	RA	Sam	Mu o
Person-months per participant: (i)	1	1	2	1	1	1	1	1	0	2	1	0	1

Participant number:	P28	P29	P30	P31	P32	P33	P34	P35	P36	P37	P38	P39	P40
Participant short name	Sgd ap	UP	KIS	Eajc	Uni Sav	Bar	Déd ale	Up mf	CL- Bas	Inp	KIK Iipa	ILS	LG MA
Person-months per participant: (i)	2	1	0	1	0	2	0	1	1	1	1	2	1

Objectives

This WP, led by NTUA supported by UNIMAR, is responsible for the following objectives to:

- Integrate the technical components necessary for the ingestion of content into Europeana (ESE/EDM compliant).
- Publish interfaces for the integration of the technical results within the same user environment.
- Make the platform available online for validation and for the large-scale contribution of content to Europeana and for dissemination and training.
- Involve user representatives from within the consortium in the design and delivery of the system, to ensure that it meets their needs and is user-friendly, reliable and scalable.
- Verify that the technology platform can be integrated with minimum effort into the Europeana core codebase and/or used by Europeana as a suite of external web services.

Description of work**Task 3.1: Compliance with CH metadata modelling requirements****Task leader: NTUA**

Europeana Data Model (EDM) is the standard developed by Europeana for aggregating rich metadata from a wide range of data providers including libraries, museums, archives and audio-visual sectors. EDM is intended to act as a replacement of the Europeana Semantic Elements (ESE) -a much simpler and less expressive standard than EDM- that is currently used for delivering content to Europeana. However EDM is both complex and still evolving (the latest version is 5.2) and therefore this task will ensure the compliant of MINT tool -that will be used for the ingestion of the metadata and its delivery to Europeana- with any updates of EDM. This will include a mapping of LIDO to EDM exploiting the full expressiveness of both models and the implementation of a LIDO to EDM transformation mechanism. In addition updates to the latest EDM will be performed without affecting the mappings of the Content Providers, since they will be applied to LIDO that will act as an intermediate schema, simplifying in that way their work. Furthermore

within this task work will be done for supporting existing mappings to LIDO from various known schemas that will be the outcome of task 2.2.

Task 3.2: Help desk support system

Task leader: UNIMAR

The main objective of this task will be the creation of a help desk support system that will assist the Content Providers during all the phases of the AthenaPlus project. More specifically the Content Providers will be able to get instructions on how to map their in-house metadata to LIDO for exploiting its full expressiveness, as well as technical information about MINT functionalities that will permit them to fit their metadata perfectly according to the AthenaPlus requirements. In addition, a set of explanatory documents concerning the various aspects of importing metadata to MINT, mapping to LIDO and publishing metadata to Europeana will be carried out within this task. The documents that will provide guidelines to Content Providers together with the on-going support during the project will ensure seamless transformation and delivery processes. This task will be a crucial element of the helpdesk service targeted to content providers and coordinated by ICCU (see also Task 2.4).

Task 3.3: Metadata Ingestion

Task leader: NTUA

The main objective of this task will be the transformation of the aggregated metadata to EDM. To achieve this target an ingestion server using MINT tool will be set up by the task leader who will also provide technical advice and guidelines to the Content Providers for exporting their in-house metadata according to the requirements set for the AthenaPlus project. The Content Providers will then be able to use MINT for importing their metadata and performing mappings to LIDO through a user-friendly interface. LIDO is a metadata standard established in the Athena project and it will act as an intermediate schema between providers' metadata and EDM, firstly because it is very expressive and it can accommodate various kinds of metadata and secondly because the way EDM updates can remain transparent to the Content Providers. In addition, the Content Providers will be able to enrich their metadata incorporating vocabularies and terminologies that will be the outcome of WP4, by using MINT.

Task 3.4: Delivery to Europeana

Task leader: NTUA

The main objective of this task will be the delivery of quality metadata to Europeana. MINT offers a centralized management for metadata and it will perform various quality control checks. Firstly, LIDO contains mandatory fields and in that way a minimum set of metadata fields for an item is required before the delivery of content to Europeana. MINT platform will be configured so as to provide feedback to the user during the mapping process indicating the mandatory fields missing. Additionally, functionality for validating the transformed metadata and previewing them, as they will appear in Europeana before the actual publication will be provided by the MINT platform ensuring the creation of correct and high quality metadata. Finally the transformation to EDM and the validated metadata will be published to Europeana using OAI-PMH through the MINT publication interface that will permit the easy management of providers' collections.

Deliverables

D3.1 The MINT ingestion platform

Month 6

This deliverable will describe the MINT ingestion platform presenting its architecture and the technologies used for its implementation. In addition the MINT workflow will be explained and detailed user instructions for every MINT procedure will be provided. *Public*

D3.2 Description of the LIDO to EDM mapping

Month 9

This deliverable will describe in detail the mapping from LIDO to EDM and will also presenting the various design decisions that will have been made for their implementation. *Public*

D3.3 Final report on the platform for metadata aggregation and delivery to Europeana

Month 30

This deliverable will present the final state of the platform for metadata aggregation and delivery to Europeana. More precisely it will include the description of the LIDO mapping to the latest EDM schema that will be used for the final delivery of the metadata. In addition, any special customizations that will be

made to MINT platform for fitting the requirements of AthenaPlus project as well as the ways of overcoming possible technical issues that may arise during the project will be described (including the inputs given by WP5). In conclusion, this deliverable will present reports on the total amount of metadata delivered to Europeana. *Public*

Table 3: Template – Work package description

Work package number :	WP4						Start date or starting event:				Month 3			
Work package title:	Terminologies and semantic enrichment													
Participant number:	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14
Participant short name	Iccu	Uma	Kmkg	PA CK ED	Okv	Mic hael	CyI	NM	Evk m	Mcc	SPK	Uni Mar	Ntu a	Hm ct
Person-months per participant: (i)	12	1	13	1	1	1	2	1	1	7	3	3	5	2

Participant number:	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24	P25	P26	P27
Participant short name	PIM	BN CR M	Met a	Nmi	Lam	ICI MS S	Ipch s	Gen Cat	I2C at	CT	RA	Sam	Mu o
Person-months per participant: (i)	2	2	1	2	2	2	1	2	1	2	4	1	2

Participant number:	P28	P29	P30	P31	P32	P33	P34	P35	P36	P37	P38	P39	P40
Participant short name	Sgd ap	UP	KIS	Eajc	Uni Sav	Bar	Déd ale	Up mf	CL- Bas	Inp	KIK Irpa	ILS	LG MA
Person-months per participant: (i)	2	1	1	1	12	2	2	0	1	4	1	2	2

Objectives

This WP, led by KMKG with the support of MCC, is responsible for the following objectives to:

- Set up a registry to serve as an archive of reference terminologies stored in an Europeana interoperable format (SKOS RDF) for the cultural heritage sector to consult, use and link to
 - Provide a web service for online sharing of terminologies and semantic mappings between concepts of different terminologies in order to publish the terminologies as part of the Linked Data Web
 - Provide education and training to Content Providers on best practice multilingual terminology management, SKOSification, semantic mapping of concepts and Linked Data publication of terminologies using the dedicated AthenaPlus project Terminology Management Platform
 - Create a semantic repository for the AthenaPlus project that will include all the AthenaPlus metadata in a semantic rich representation giving special effort to the linking process, transforming metadata to a semantically richer representation that permits machine readable semantics (RDF)
 - Explore the potential use of the provider's terminologies for the metadata transformation to RDF and linking processes
 - Semantically enrich and link the metadata to external data sources
 - Organise pilot sessions with Content Providers to refine the functionalities of the semantic mapping tool and test the possibilities to achieve semantic linkage between the terminologies and the metadata.
- The complexity of this WP needs the elaboration of a large number of deliverables (not less than 8).

Description of work

Task 4.1: Analysis and collection of suitable terminologies (terminologies competence centre)

Task leader: KMKG

This task's main objective is to gather good quality terminologies from the different cultural heritage domains, focussing on different topics, to serve as input for the registry of reference terminologies. Previous work in the Athena project already showed that many Content Providers use extensive monolingual or even multilingual terminologies to describe parts of their metadata in a controlled way. Often these terminologies are developed in-house, based on reference terminologies like the Getty or Library of Congress terminologies, and created with the help of expert curators. These vast resources of high quality expert terminologies are however mostly inaccessible for the cultural heritage community, not because of rights, but because of technical limitations the Partners face in sharing these terminologies in an interoperable format in order to be able to make them part of the Linked Data web. This task will therefore make an optimised use of the contacts with the large network of content providers and aggregators of the GLAM sector build out in previous projects like MINERVA and ATHENA. From these GLAM content providers, the best reference terminologies will be selected and aggregated for input into the AthenaPlus terminology.

Task 4.2: Terminology management platform**Task leader: UniSav**

The registry will serve as an archive of terminologies for the cultural heritage sector to consult, use and link to in a semantic environment. These shared terminologies can serve as a source of inspiration for the development of new or semantic enrichment of their existing terminologies. In their turn Content Providers can upload, edit and share their own terminologies with the community, align their terminology concepts with the reference terminologies stored in the registry, publish them in SKOS RDF as Linked Data. For this alignment a semantic mapping tool will be provided. In this project it isn't the intention to develop a new tool from scratch, but to use the TMP (Terminology Management Platform), a tool developed in a previous project and which already reached a stage of maturity and proofed stability. This tool will be analysed and improved with the help of a dedicated WP group. It should be both simple and straightforward in use, not only giving Content Providers the possibility to map concepts together, but also to engage with the community in a network forum to allow them to discuss on the work and share their experiences. TMP already provides the necessary functionalities and selecting a tool that is already being used by a large community and has proved its stability, will allow us to focus on the collection of resources, training of Content Providers and creation of a network of multilingual terminologies instead.

Though the basis of the suggested terminology tool that will already be available at the start of the project thanks to the re-use and planned re-development of the TMP as it was conceived in a prototype version within the BPN projects ATHENA and Linked Heritage, improvements will be made to this terminology management environment thanks to the set-up of a dedicated pilot group of Content Providers (Tasks 4.3). This pilot group of 10 Content Providers will need to be trained and at the same time asked to provide input on user requirements and improvements of TMP functionalities. Because a tool is needed before actual training can take place, but input on the TMP functionalities is needed from the user group for the improvements of the environment, Tasks 4.2 and 4.3 will mainly run in parallel (with Task 4.2 starting 3 months before task 4.3 to allow initial set-up of the environment in preparation of the first documentation & training sessions).

Task 4.3: Semantic enrichment of cultural metadata with Linked Open Data**Task leader: UniSav, supported by NTUA**

Linked Data are generated by establishing relations between web data from a variety of sources. Technically, Linked Data refers to data published on the Web in such a way that it is machine-readable, its meaning is explicitly defined, it is linked to other external data sets, and can in turn be linked by external data sets. Europeana has launched a substantial Pilot with Linked Open Data. It currently contains open metadata on 2.4 million texts, images, videos and sounds gathered by Europeana. However, the main limitation of this approach is that little effort was given to the linking of metadata, resulting to restricted exploitation of other data sources.

The main objective of this task will be the creation of a semantic repository for the AthenaPlus project that will include all the AthenaPlus metadata in a semantic rich representation giving special effort to the linking process. More specifically within this task the following subtasks will be performed:

- The transformation of the metadata to a semantically richer representation that permits machine readable

semantics (RDF)

- Exploring the potential use of the provider's terminologies as addressed in Task 1-3 for the metadata transformation to RDF and linking processes / analysis of interdependencies
- The semantic enrichment and linking of the metadata to external data sources.

Task 4.4: Organisation of pilot sessions for testing the system with 10 content providers

Task leader: MCC

Training is an essential part of this WP. In this project we want to go beyond prototype stadium and achieve a full practical use of the TMP and improvement of the Linked Heritage TMP (Terminology Management Platform) which will be available from the general domain name www.culture-terminology.org. To achieve this we will focus on user friendliness of the tool, provide good quality documentation and user manuals, and hand on sessions teaching Content Providers how to do semantic mappings. Pilot sessions with five to ten terminology providers will help refine the functionalities of the semantic mapping tool to serve as input for the technical partner (see Task 4.2). In a final stadium mapped terminologies from the 5-10 Content Providers will be linked back to the metadata they are providing in the project using the MINT tool. This combined training session for the TMP and the MINT tool, i.e. the link between the terminologies and the metadata, will allow the end users to consult and browse through a certain terminology and view the results of the records with metadata attached to a certain terminology concept: e.g.: modification of terminologies=> update of the already ingested metadata; new mapped terminologies => impact on new metadata and existing one.

Deliverables

D4.1: First release GLAM sector reference terminologies

Month 6

Terminology resource report (1st release): This deliverable, coordinated by KMKKG, describes the results of the analysis of GLAM terminologies, the selection criteria used for the collection of suitable reference terminologies, as well as a detailed overview of the terminologies gathered in the registry of terminologies. *Public*

D4.2: Review on Linked Open Data Sources

Month 6

This deliverable, coordinated by UNIMAR, will provide an overview of the Linked Open Data sources that could be used for linking the AthenaPlus content. General and technical details will be given for each of the data sources examined including, the type of content described, the amount of resources served and the protocols supported for consuming data. *Public*

D4.3: First release terminology management platform (TMP)

Month 9

First release of functional and technical specifications and of the Terminology Management Platform web service: This deliverable, coordinated by UniSav, consists in the functional and technical specifications of the system for the management of multilingual terminologies and includes a first version release of the Terminology Management Platform to be made available to the consortium as a web service. *Public*

D4.4: Specialist training material: TMP user manuals and semantic mapping procedures

Month 10

This deliverable, coordinated by MCC, will present documentation and extensive training material for terminology providers, including documentation on how to manage one's terminology and prepare it for the semantic web, manuals to use the TMP for the semantic mappings between multilingual terminologies and a detailed planning for the organisation of the pilot session and training workshops. *Public*

D4.5: Second release of terminology management platform (TMP)

Month 23

Second release of functional and technical specifications and of the Terminology Management Platform web service: This deliverable, coordinated by UniSav, provides an update of the functional and technical specifications of the system for the management of multilingual terminologies and the second and final version release of the Terminology Management Platform. *Public*

D4.6: Linking of metadata to external data sources**Month 27**

This deliverable, coordinated by UNIMAR and NTUA, will present the external data sources to which the cultural content of the AthenaPlus will be linked. It will also report on the analysis and highlight examples for using underlying terminologies to improve linking processes. In addition, the method used for linking, as well as an overall evaluation of the linking process, will be presented. *Public*

D4.7: Semantic metadata enrichment process: publication and linkage of metadata, terminology resources, and the semantic connections**Month 28**

Report on the number of published and semantically connected terminologies: This deliverable, coordinated by UniSav and NTUA, will present a detailed overview of qualitative and quantitative data on the number of terminologies published as part of the Linked (Open) Data web, the number and quality of the connections made between terminologies and Content Providers metadata, as well as a set of recommendation on how to improve the semantic enrichment of metadata in the future. *Public*

D4.8: Evaluation of the pilot sessions and second release of GLAM sector reference terminologies**Month 30**

This deliverable, coordinated by MCC and KMKG will: a) report on the pilot sessions for testing the TMP:, It will present the organised pilot sessions meant to refine the functionalities and user friendliness of the semantic mapping tool for terminologies. A detailed overview of the questions asked to the system reviewers, their remarks and recommendations, and the eventual changes made to the TMP will be included in this report. b) include the second release of the Terminology resource report (2nd release), presenting and updating the overview of the analysis of GLAM terminologies and a detailed overview of the terminologies gathered in the registry of terminologies.

Public

Table 3: Template – Work package description

Work package number :	WP5					Start date or starting event:					Month 1			
Work package title:	Creative applications for the re-use of cultural resources													
Participant number:	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14
Participant short name	Iccu	Uma	Kmkg	PA CK ED	Okv	Mic hael	CyI	NM	Evk m	Mcc	SPK	Uni Mar	Ntu a	Hm ct
Person-months per participant: (i)	23	1	1	16	1	0	2	1	1	1	1	1	2	2

Participant number:	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24	P25	P26	P27
Participant short name	PIM	BN CR M	Met a	Nmi	Lam	ICI MS S	Ipch s	Gen Cat	I2C at	CT	RA	Sam	Mu o
Person-months per participant: (i)	1	1	25	1	1	1	2	1	5	1	1	1	2

Participant number:	P28	P29	P30	P31	P32	P33	P34	P35	P36	P37	P38	P39	P40
Participant short name	Sgd ap	UP	KIS	Eajc	Uni Sav	Bar	Déd ale	Up mf	CL- Bas	Inp	KIK Irupa	ILS	LG MA
Person-months per participant: (i)	1	1	1	1	1	2	9	1	1	2	1	1	1

Objectives

The main goals of this WP, led by META and PACKED are to analyse, define, configure and develop the software components necessary to enrich metadata for a creative use of the content collected by the AthenaPlus project. In particular the specific objectives are the development of software systems for facilitating the generation of web and mobile applications developed to employ the AthenaPlus and Europeana content. It will be enriched for its use in different environments, to be selected by the project Partners and tested in WP6, e.g. virtual exhibition, tourism routes, educational packages, etc.

Description of work

Task 5.1: Identification of creative applications of the AthenaPlus metadata

Task leader: ICCU and PACKED

This task will define the role and functions of the project stakeholders (end users, cultural tour operators, associations, etc.) in the overall system. Specifications, profiles, and methods for the semantic enrichment of the data will be defined with the help of these stakeholders.

User studies; including personas role-playing will be performed. Evoking personas draws on classical search behaviour and information architecture research where each persona represents a unique individual who seeks a certain outcome from the task at hand.

The scenarios that will be run may include:

1) John, a schoolteacher based in central Europe would like to create an historical route to demonstrate a specific lesson in the classroom. The class is learning about Rome in their history lesson based on the school curriculum and John has decided that by showing the trade routes and commodity exchanges across the Roman Empire (2-3rd centuries) he will be able to illustrate this more effectively. He will typically be able to connect examples of objects and works of art from Europeana from this period to illustrate the Roman Empire shipping routes, the commodities exchanged and will be able to exemplify and clarify their

connections.

2) Caroline, a retired lady who recently visited a real exhibition, and who would like to improve her knowledge in a specific field by accessing a related virtual exhibition online. She typically would like to be able to share her museum visit with her friends and families and send 'her version' over social networks as a personalized expression of what she learned and enjoyed during the museum visit.

3) Sarah: a tourist guide prepares a location-based trail for an upcoming trip. Tour groups typically start their trip from the moment the tourist makes their booking and a professional tourist guide will be able to take advantage of this first connection to provide the information that will serve to enhance their upcoming journey. The tourist route can be easily assembled drawing on quality cultural heritage resources from Europeana.

4) Giuseppe: a musician with a particular interest in his favorite composer would like to share his interest online with his social circle. He will be able to discover and assemble his material from Europeana resources such as audio files, musical manuscripts, paintings and books about his chosen composer and be able to share his assemble with his friends.

5) Miguel: an amateur archaeologist who wants to demonstrate to himself and others his devotion to a specific moment in history illustrated by rich content discovered on Europeana. Through a federated Europeana search he will be able to discover, for example resources on a famous battle, but rather than relying only on the national narrative from his own country he will be able to discover similar resources from other perspectives and alternative histories concerning the specific moment in time from other countries.

The ability to visualize a range of potential users as distinctive personas with specific goals, while running simulations at various stages of the applications as they evolve, means that applications can be tested to ascertain whether personas will be able meet their specific goals. Simulations will be run at different stages of the development process and the results reported.

The results of this studies will inform task 5.2.

Task 5.2: Design of technical specification for the development of creative applications

Task leader: PACKED and Dédale

This task will define requirements for the functionalities needed to support the re-use of Cultural Heritage Objects (CHO) and related information in storytelling for applications by a range of potential users, as: curators, tourism developers, and educators in addition to the conventional Europeana end-users. Great attention will be given to requirements aiming at maximizing results in the education field.

The task will move from semantic-anchored storytelling and narrative approaches, devices and tools developed in previous works¹⁷. It will identify the best approaches and tools to be assimilated into a Linked Data environment. The Linked Open Data environment enables distributed contributions by users that access CHO to be integrated and enrich the contextual information available for these objects. In addition the Storytelling/Narrative requirements will be developed, with the objective to provide easy and intuitive means to discover relevant information able to drive the user to create his or her own exhibition, or author their own micro-story or narration. The tools of the technology stack of the LOD218 project will be analysed in to evaluate their suitability for integration in the required services to be developed by task T5.3 following these requirements. Within this task a survey on storytelling and locative media will be taken. Through several case studies (creative applications, mobile services...) we will observe how the project stakeholders (DCH operators, tourism actors, institutions, students, traditional users...) consider storytelling devices based on the reuse of cultural contents and the opportunities of mobile technologies. The term *education* is used here to express both formal and informal learning. While formal learning

¹⁷ Review of Ontology Based Storytelling Devices:

http://www.judaica-europeana.eu/docs/Winer_Ontology_Storytelling_svt.pdf.

Weaving Science Webs, (Hazan, S.) in *E-Learning and Virtual Science Centers*, by LTW Hin - 2005

<http://www.igi-global.com/chapter/weaving-science-webs/9080>

¹⁸ LOD2 Creating Knowledge out of Linked Data – Technology Stack <http://lod2.eu/WikiArticle/TechnologyStack.html>.

opportunities are relatively easy to develop and evaluate, informal scenarios, by their very nature are less easy to define. In the museum tradition, visitors use collections and exhibitions for their own self-paced development which may take place during the actual visit, may be or called upon at a later date when the experience is digested and assimilated. These kinds of learning scenarios are difficult to acknowledge and therefore to report, but nevertheless, thousands of such visits take place every day of the week at museums around the world; opening up many different kinds of learning scenarios developed by museum educators and curators for the public. AthenaPlus aims to produce both formal, and informal learning scenarios through the applications and platforms developed through the project's lifespan where storytelling reflects *the proof* of the users own interpretation and consequential reuse of the content made available to them from Europeana.

Task 5.3: Prototyping creative applications for cultural content

Task leader: META and PACKED

The aim of this task is to realise a system that incorporates AthenaPlus generated and Europeana data to create virtual exhibitions and cultural tourist routes. Cultural curators and researchers, cultural mediators and tour operators will be involved to reach this goal.

Existing EDM formatted data will be filtered and transformed, possibly using the tools developed by WP3 and WP4, in a format compatible with Linked Open Data specifications, for an easier use of the information and their interoperability with different applications. Browsing content will be more effective using the semantic links available in the data. These links will allow for a more straightforward and intuitive connections among topics, in way to make the manual labour for the editors less challenging.

In this task some Semantic Multimedia Content Management Systems (SMCM) will be realized allowing the integration and delivery of contents in three selected application contexts: exhibitions, tourist routes and educational context. In this way we will be confident that we have identified the best use of existing information and relationships and to enrich them with additional textual and multimedia contents, possibly geo-located. The generated information will be provided on mobile devices in an optimized way using state of the art technological formats and fruition metaphors. Some open source tools could be used, integrated or extended for the development of the applications. In that case, the application licenses will be the same of the original tools.

The activities are divided into three sub-tasks:

5.3a Acquisition and management of information by Europeana and AthenaPlus and their semantic enrichment

This sub-task aims to create a tool for importing data and inserting them in the system for the generation of the contents. Moreover, information will be, if needed, transformed in RDF format and inserted into a triple store allowing their fruition via a SPARQL end point. The available data will be remapped using the existing ontologies, such as CIDOC-CRM, or integrated with external resources such as Freebase or DBpedia.

5.3b Development of the SMCM for realizing virtual exhibitions

The SMCM will allow the use of the available RDF formatted information for preparing virtual exhibitions or creating virtual versions of real exhibitions. The main features of this module are: the use of native data in RDF format through the integration of a SPARQL endpoint; the possibility to add cards and to enrich them with additional metadata compliant with the Linked Open Data models; enrichment of the existing cards with textual and multimedia contents. But the peculiarity of the system will be that of a vertical Semantic Content Management system specialized in the management of exhibitions. In this way it will contain metaphors, tools, templates, repositories, etc., all designed and developed for a better support to specific needs. The system will give the opportunity to prepare semantic queries using special relations, will integrate tools for the management of routes tailored to the user needs, will allow the creation of custom paths, will support the creation of ad hoc description cards, will support reservation systems and, in the case of real exhibitions, will provide support functions for the preparation, the enjoyment and the

sharing of the virtual exhibition.

During the development of the tool, guidelines included in the case study on virtual exhibitions¹⁹, elaborated by the INDICATE project, will be taken into consideration.

The possibility of reusing some technology realised in the opensource project MOVIO will be analysed.

5.3c Development of the SMCM for realizing cultural tourist routes

The third sub-task has some points in common with the second one: the basic infrastructure will be the same, but the tools to be developed, the formats to be defined and the browsing metaphors will be completely different. The geo-referencing and geo-localization sub-systems will be prioritised, as well as the mobile solution of the application. The browsing metaphors, the graphic templates, the specific tools for the management of visits, the maps management subsystem will be defined in this sub-task. Moreover, the SMCM will provide the integration of an editorial workflow that will involve different roles: 1) cultural operators involved in preparing information cards; 2) tour operators involved in using paths and routes to enrich their portals; 3) cultural mediators (associations, local authorities, schools) involved in integrating data provided by the system with information related to the area.

Task 5.4: Training Partners and content providers

Task leader: PACKED

This task focuses on training Partners, Content Providers and other users to take up the AthenaPlus infrastructure and tools for developing the pilot actions (in WP6). Training will take place through blended e-learning systems such as webinar, screen cast, etc. as well as through traditional training courses. Specific training actions will be targeted to project Partners, intermediaries and general users, in order to increase their involvement.

Manuals for the use of the different AthenaPlus applications will be developed. The manuals will be produced in written form but will also be available as online training materials (e.g. screen cast). All training materials will be made available through a dedicated section on the general project website.

In order to familiarise the Partners with the AthenaPlus environment, the project Partners will be trained on its use and possibilities through a train-the-trainer concept. This training will be organised in the framework of plenary project meetings.

To reach as many users as possible, the AthenaPlus national contact points will be invited to host a national training workshop in each partner country, to be run by PACKED. During these national workshops, also targeted stakeholders from outside the network will be invited to reach a maximum of interested users.

Deliverables

D5.1 Report on the user needs and requirements

Month 4

This deliverable coordinated by ICCU and PACKED, is expected to define the role and functions of the project stakeholders (end users, cultural tour operators, associations, etc.) in the overall system. Specifications, profiles and methods for the semantic enrichment of the data will be defined with these stakeholders in mind. *Public*

D5.2 Report on existing tools and devices related to narrative approaches and requirements functionalities

Month 6

This deliverable, coordinated by PACKED and Dédale, is composed of two parts: 1) the first will illustrate the survey of existing tools and devices related to anchored storytelling and narrative approaches; identify the best approaches and tools that may be assimilated into a Linked Data environment; estimate their suitability for integration in the required services to be developed by task T5.3 and T6.2.; 2) the second will illustrate and motivate all requirements for the functionalities needed to support the use of Cultural Heritage Objects (CHO) and related information in storytelling for applications by several users. It will be the base

Libraries and Museums in an Era of Participatory Culture, The Institute of Museum and Library Services, Washington, DC

www.imls.gov/assets/1/AssetManager/SGS_Report_2012.pdf

¹⁹ INDICATE. D5.2, *Case Study, Virtual Exhibitions*, <http://www.indicate-project.org/getFile.php?id=359>

for the development of task T5.3. *Public*

D5.3 First release of the AthenaPlus tools

Month 12

This deliverable, coordinated by META and PACKED, will realize a first version of the AthenaPlus tools. Virtual exhibitions, cultural tourist routes applications and an educational toolbox will be fully developed in way to submit them to test users. The user feedback and the complete availability of semantic resources will lead to the final release. *Public*

D5.4 Training materials for supporting the use of the AthenaPlus tools

Month 14

This deliverable, coordinated by PACKED, will contain the development of actual training materials as well as the execution of the real-life training sessions on the use of the tools developed in D5.3. Manuals and other instructional material will be made in written and online form (e.g. screencast). Trainings will be organised on the basis of a train-the-trainer concept, with additional sessions to be organised in particular partner countries (depending on needs for carrying out the pilot actions in WP6). *Public*

D5.5 Revision of the AthenaPlus tools

Month 30

This deliverable, coordinated by META and PACKED, will realize the final version of the AthenaPlus tools. The user suggestions, coming from the previous tests, and the availability of more semantic resources, coming from the Partners' works in other WPs, will permit a revision of the previously implemented tools. Virtual exhibitions, cultural tourist routes applications and an educational toolbox will be complemented and integrated in a way to obtain the most effective results for use by the AthenaPlus consortium and outside stakeholders. *Public*

Table 3: Template – Work package description

Work package number :	WP6						Start date or starting event:				Month 13			
Work package title:	Pilots for testing the creative use of cultural contents													
Participant number:	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14
Participant short name	Iccu	Uma	Kmkg	PA CK ED	Okv	Mic hael	CyI	NM	Evk m	Mcc	SPK	Uni Mar	Ntu a	Hm ct
Person-months per participant: (i)	19	0	0	3	1	1	0	0	0	1	1	1	1	6

Participant number:	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24	P25	P26	P27
Participant short name	PIM	BN CR M	Met a	Nmi	Lam	ICI MS S	Ipch s	Gen Cat	I2C at	CT	RA	Sam	Mu o
Person-months per participant: (i)	8	10	2	0	10	11	7	0	22	0	5	0	0

Participant number:	P28	P29	P30	P31	P32	P33	P34	P35	P36	P37	P38	P39	P40
Participant short name	Sgd ap	UP	KIS	Eajc	Uni Sav	Bar	Déd ale	Up mf	CL- Bas	Inp	KIK Irpa	ILS	LG MA
Person-months per participant: (i)	0	0	0	0	0	0	8	0	0	0	0	14	0

Objectives

WP6 is led by i2Cat and ICIMSS, Its aim is to evaluate and test the tools and solutions designed and developed by WP5, as well as evaluate and test existing shareware and freeware tools, already present on the web or previously developed by the project Partners in a different environment, for checking their integration with the Europeana service.

The definition of a shared methodology to evaluate and test the pilots will be the first step, with the objective to develop a common method to evaluate the performance of each pilot action.

The goals of the WP are to:

- define an evaluation methodology for the pilot services;
- run parallel pilots to demonstrate the benefit of proposed solutions;
- collect input from the Partners testing the pilots and prepare a manual of good practices / handbook to support other users interested in implementing the pilots;
- create a model of virtual laboratory, able to manage and support a community of users for testing the pilots;
- animate a community of users in the partner countries, to stimulate further cooperation at local/regional/national level, as well as to facilitate transnational collaboration on cultural themes of common interest;
- perform some assessment stages and technical tests to provide the relevant feedback for the technical team working in WP5.

Description of work

Task 6.1: Evaluation methodology for the pilot services

Task leader: ICIMSS

This task prepares the evaluation framework for the evaluation of the pilots, to prepare the common instruments able to collect the necessary information.

Task 6.2: Running the pilots: Digital storytelling**Task leader: Dédale**

This pilot will propose an original device for the valorisation of cultural contents based on new cartography forms (sensitive and collaborative) and mobile technologies (augmented reality, cultural routes with geo-located contents, principle of serendipity, QR codes). The pilot will take into account all the requirements of Europeana environment. The application will be based on the reuse of Europeana contents in order to create new uses of cultural resources (mash up, user involvement, etc). The pilot will be designed according to a realistic and operational scenario, with users group (feedback and remarks) and data corpus in relation with specific geographic areas (specific area around a cultural institution). Territorial anchorage is a key element for ensuring the best results, adapted to users' needs.

A multidisciplinary team involving online and offline users will be gathered to design the pilot in relation to a specific local context. Designers will work on a range of geographical-embedded case studies. This site-specific approach will be set up by a Partnership with a cultural and educative European institution (e.g. the Cité internationale universitaire de Paris).

Task 6.3: Running other pilots**Task leader: ICIMSS**

A number of mobile or on-line services pilots projects have been already defined:

- virtual exhibitions (BNCRM, ICIMSS, ILS, LAM, PIM, RA)
- application for tourist routes (HMCT, ICCU)
- GIS applications (IPCHS)
- education (ICIMSS)

Ten Partners will participate in the realisation of pilots. Thus number could increase thanks to Task 5.4. In fact, following dedicated training workshop, other Partners or cultural institutions could decide to make their own pilots.

The content of the pilots will be selected by the single institution, in order to give the greater visibility, to the institution itself, to the AthenaPlus network and to Europeana. Where possible, key them that interests Europeana will be privileged, like history and culture on the XXth century.

Some Partners have already selected the topic:

- **ILS:** Luigi Sturzo Institute holds archives and library sources about the second half of XX century, in particular documents from christian democrat-inspired political groups and personalities. The Institute heritage is therefore a precious base for the research about Italian, European and international politics, from post-world war II until today. The Institute aims at realizing a specific virtual exhibition about the documentation held in its archives and referring to the Cold War period, following these thematics: politic posters, archives of party and personalities, photographic and video archives.
- **BNCRM:** "A Powder Magazine of Fantasy": Bibliographic and iconographic route dedicated to the first *Futurist Manifesto*, highlighting the most famous books, posters and magazines from his collection and, in particular the extraordinary collection kept in the twentieth century Falqui Fund.

Task 6.4: Manual of good practices / implementing the pilots**Task leader: ICIMSS**

The pilot production, and results developed in the previous Task will be documented to produce a manual that sets out best practice in order to support new users and further future implementation.

Task 6.5: Creation and animation of communities of users**Task leader: I2Cat**

Partners and other external users will work together to test the tools produced through AthenaPlus. The target groups which will be involved include for example:

- school children and teachers;
- scholars (cultural studies, journalism studies and fine arts, including museology students);
- groups of retired people from the so called Third Age Universities;
- cultural professionals: librarians, museum staff, archivists;
- university teachers;
- tourism operators

- etc.

This task will be organised in cooperation with WP7 in order to coordinate and increase the impact of the activities with the project target groups. The local and national activities organised by the partners (task 7.3) will be a great opportunity to involve users and test the tools developed by WP5. These events are the main framework for the interaction between the users and the tools made available through AthenaPlus.

Task 6.6: Overall assessment of the pilot actions

Task leader: I2Cat

The final task of WP6 will focus on collecting and documenting feedback, which will inform the technical developments and revisions of the solutions developed by WP6. The interim assessment of the pilot actions will act as an indication for adjusting the tools in response to the real working and operational progressions of the target groups.

Deliverables (iv)

D6.1 Evaluation framework for the pilots

Month 15

This deliverable, coordinated by ICIMSS will provide a set of criteria upon which pilots will be evaluated in three phases: pilot monitoring, process evaluation, and impact evaluation. *Public*

D6.2 Report describing the pilot on storytelling

Month 27

This deliverable, coordinated by Dédale, will document the structure of the platform, describe its practical applications, the involvement of the user groups, possible further exploitations. *Public*

D6.3 Report with the assessment of the pilot actions

Month 27

The deliverable, coordinated by i2cat, offers a global evaluation of the pilot actions and results in order to validate the solutions designed and developed by WP5 and to provide technical feedback for tool developers. *Public*

D6.4 Manual of good practices, how to implement the pilots

Month 30

This deliverable, coordinated by ICIMSS, will outline benefits of running the pilots and present the methodology and a summative report on the pilots. The manual will be published in order to support the memory institutions interested in offering new innovative services to their own users, and in attracting new end-users. *Public*

D6.5 Report describing the communities of users

Month 30

The deliverable, coordinated by i2cat, describes the communities of users involved on the pilots. The deliverable includes the most important requirements identified by the target groups and gathers the analysis extracted from the interaction between the users and tools made available through AthenaPlus. *Public*

Table 3: Template – Work package description

Work package number :	WP7				Start date or starting event:				Month 1					
Work package title:	Awareness and dissemination													
Participant number:	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14
Participant short name	Iccu	Uma	Kmkg	PA CK ED	Okv	Michael	CyI	NM	Evkm	Mcc	SPK	Uni Mar	Ntu a	Hm ct
Person-months per participant: (i)	28	1	3	2	1	9	4	5	4	1	9	1	1	4

Participant number:	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24	P25	P26	P27
Participant short name	PIM	BN CR M	Meta	Nmi	Lam	ICI MS S	Ipchs	Gen Cat	I2C at	CT	RA	Sam	Mu o
Person-months per participant: (i)	4	4	1	2	4	5	3	4	2	4	3	5	4

Participant number:	P28	P29	P30	P31	P32	P33	P34	P35	P36	P37	P38	P39	P40
Participant short name	Sgd ap	UP	KIS	Eajc	Uni Sav	Bar	Déd ale	Up mf	CL- Bas	Inp	KIK Irapa	ILS	LG MA
Person-months per participant: (i)	5	3	5	3	1	4	2	2	3	5	4	3	4

Objectives (ii)

WP7 is led by SPK and MICHAEL. Its objectives are to make European museums and other cultural institutions aware of the benefits of making available their digital contents through Europeana, identify new best practices, and disseminate the results achieved to a broad audience.

Through its dissemination activities, AthenaPlus will:

- Raise awareness: letting others know about and learn from the AthenaPlus experience
- Inform: educating the community
- Engage: receiving input/feedback back from the community
- Promote: ‘selling’ the project’s outcomes and expected results

In particular, WP7 objectives are to:

- stimulate the contribution of content to Europeana by raising awareness of the tools, facilities and best practice provided by AthenaPlus, encouraging the use of richer metadata sets;
- increase the size of the best practice network by attracting new cultural institutions;
- raise awareness across the Europeana ecosystem of the AthenaPlus work, and to encourage Europeana itself, content provider and aggregators to take full advantage of the project’s results;
- build technical capacity in the cultural heritage sector, especially in terms of Europeana and AthenaPlus technologies

The target audiences for AthenaPlus are quite specific. The main targets are Europeana, the content-contributing community, the aggregators, policy groups, agencies for culture and governments, sister projects, the digital cultural heritage research community, the national research and competence centres in the areas of cultural heritage and e-infrastructures, the tourism sector, the Europeana Foundation, Europeana Network and Europeana Labs. The general public is an additional but secondary target audience.

The dissemination target audiences, communications channels, events and strategies are described in more detail in Section 2.2 of the present Description of Work.

Description of work (iii)

Task 7.1: Central dissemination**Task Leader: SPK**

This task foresees:

- the creation of the identity logo and corporate message with guidelines for use by all Partners;
- the development of the project website, in order to collate all information on the project. The website will be continuously maintained and updated during the lifetime of the project with input from all Partners of the project. Features will include wikis, shared work spaces, and a reserved area for the consortium Partners. The website will be hosted and maintained by ICCU which guarantees its sustainability after the end of the project. The website will include multilingual content and pages.
- a less formal 'social' presence assures interaction with social networking sites (YouTube, Vimeo, LinkedIn etc.). This will create a more dynamic and 'living' web presence
- the production of promotional material to be distributed online and at conferences and events: factsheets, leaflets, posters, gadgets etc.

Task 7.2: Dissemination planning and coordination**Task Leader: SPK**

This task foresees the elaboration of a shared plan for a decentralised, but coordinated, dissemination of all activities and outputs of the project.

It will include guidelines for dissemination to be used by Partners.

Task 7.3: Local / national activities**Task Leader: SPK**

In all the Partners countries at least two AthenaPlus thematic events will be held during the project. Their main goal will be to present the project results, expand the networks and stakeholders and recruit new Content Providers.

Among them, three international conferences will be organised, taking the opportunity to present the project during the events organised by the Presidency of the European Union, as well as a closing conference in Rome that will serve as an opportunity to present and discuss the project's results, the opportunities for further development and the path of further integration into Europeana.

Significant effort will be required to ensure that there will be a consistent level of dissemination in the Partners' own languages, not just in English. Partners will be asked to report on progress to ensure this information is disseminated via the central website.

The coordinator and work package leaders have taken on additional commitments in this work package, including taking part in Europeana and Commission efforts and networking events.

In particular:

- The Michael Culture Partner will organise a Workshop on DCH Storytelling and Geo-tagging. This workshop will explore the opportunities of digital storytelling and geo-tagging for the valorisation of DCH contents (such as Europeana) in the European cultural venues or in urban spaces. It will focus on concrete applications for education and tourism: mobile services for museum, enriched exhibitions, innovative tour of cultural heritage (castles, urban strolls, architecture, gardens, parks, city as a museum, city as a new learning environment...) and serious games. Designers, developers, creative people, researchers, teachers, tourism experts, cultural institutions, DCH experts, industrials and users will be gathered to lead an innovative reflection on creative use of digital contents. A transversal thinking will be conducted on IPR, new legal forms, and the stakes related to right management in the context of data reuse and innovative digital projects (technology mash-up, composite services, collaborative work). Partner Michael will use the Michael Culture Association platform as an additional channel to disseminate the AthenaPlus outputs and capitalise the project results and services also after the end of the project.
- The ICIMSS Partner will produce two issues of the professional journal Uncommon Culture <http://www.uncommonculture.org>, directed by ICIMSS and born in the framework of the first ATHENA project. These issues will be dedicated to the best practices and the tools of AthenaPlus.
- The SPK Partner will take care of the production of 2 publications in cooperation with WP1, in order to disseminate the outcomes achieved by the different WPs to a wider public. This publication will continue the series of booklets produced during the ATHENA and Linked Heritage projects on LIDO,

standards, GIS, PIDS and terminology (<http://www.athenaeurope.org/>, <http://linkedheritage.org>) which were downloaded about 14.000 times.

Task 7.4: Networking in the Europeana Framework

Task Leader: SPK

This task will guarantee that the entire AthenaPlus project, and especially the work package leaders, will take an active role in the concerted activities that takes place between the Europeana Group of projects, and with the projects that maintain and develop Europeana. They will, in conjunction with WP1, coordinate the attendance to appropriate events and workshops organised by the Europeana Office, including those associated with the Council of Content Providers and Aggregators, recently called Europeana Network. All networking activities will be reported through the project website.

Tasks 7.5: Monitoring and Evaluating the dissemination activities

Task Leader: ICCU

All Partners will deliver internal reports every 4 months to the coordinator on their progress in dissemination, on any changes to their plans, and any difficulties that have arisen. Any major difficulties will be flagged and solutions will be found either directly or via the Project Management Board. These internal reports are not formal project deliverables instead their contents are used to inform and enrich the contractual deliverables.

Deliverables (iv)

D7.1 Logo, corporate message, project website, shared dissemination plan and guidelines for Partners **Month 3**

This deliverable will include: 1) an easy-to-use internal guide and handbook for the best practice network. It will describe the choice of the logo and the corporate message, the first materials available, as well as guidelines on how, where and when to distribute them, and last but not least on how to report on the dissemination activities carried out by Partners (edited by SPK). 2) Creation of the project website. Overview of the dissemination strategy, activities, and materials the project intends to use over the lifetime of the project with the goal of distributing the project's results as widely as possible. Identification of the different messages to be addressed to each target groups; the methods employed, and the expected outcome of those activities (edited by SPK in cooperation with ICCU).

Public

D7.2 Analysis, scenarios, use cases, opportunities of innovative services for DCH, and future development **Month 11**

Deliverable edited on the base of the results and feedback collected during and after the Workshop on DCH Storytelling and Geotagging. Issued by Michael Culture. *Public*

D7.3 First report on dissemination activities and networking in the European framework **Month 11**

The report will include: 1) all the activities that takes place during the 1st year of the project: presentations, workshops, cooperation, publications, articles, etc. (edited by ICCU) 2) It will describe networking activities with new institutions, stakeholders, decision makers, sister projects, Europeana Foundation, during the first half of the project (edited by SPK). *Public*

D7.4 First Issue of the Uncommon Culture Journal **Month 20**

This deliverable coordinated by ICIMSS will present a publication: a set of main articles, interviews, and reports contributed by the project Partners and invited authors. The issue of the journal initiated under the Athena project will be based on content available in Europeana or planned to be delivered to Europeana.

Public

D7.5 Second report on dissemination activities and networking in the European framework **Month 23**

The report will include: 1) all the activities that takes place during the 1st year of the project: presentations, workshops, cooperation, publications, articles, etc. (edited by ICCU) 2) It will describe networking activities with new institutions, stakeholders, decision makers, sister projects, Europeana Foundation, during the first half of the project (edited by SPK). *Public*

D7.6 AthenaPlus publications**Month 27**

The deliverable, coordinated by SPK, will be composed of the two booklets produced by WP7 in cooperation with WP1, in order to disseminate the outcomes achieved by the different WPs to a wider public. These publications will extend the series of publications produced during the ATHENA and Linked Heritage projects. *Public*

D7.7 Final report on dissemination and networking activities**Month 30**

The report will include all the activity that takes place during the last seven month of the project: presentations, workshops, cooperation, publications, articles, etc. It will also include general overview on all the dissemination and networking activities of the project. Issued by ICCU. *Public*

D7.8 Second Issue of the Uncommon Culture Journal**Month 30**

This deliverable coordinated by ICIMSS will present a publication: a set of main articles, interviews, and reports contributed by the project Partners and invited authors. This issue will present best practices of AthenaPlus under the title “Access to Cultural Resources with ICT”. *Public*

Table 4: Template – Summary of staff effort

A summary of the staff effort is useful for the evaluators. Please indicate in the table the number of person months over the whole duration of the planned work, for each work package by each participant.

Identify the work package leader for each WP by showing the relevant person months figure in bold.

Participant No.	Participant Short name	WP 1	WP 2	WP 3	WP 4	WP 5	WP 6	WP7	Total person months
1	ICCU	35	50	21	12	23	19	28	188
2	UMA	1	3	1	1	1		1	8
3	KMKG	2			13	1		3	19
4	PACKED	2			1	16	3	2	24
5	OKV	1	4	1	1	1	1	1	10
6	Michael	2			1		1	9	13
7	CyI	1	13	2	2	2		4	24
8	NM	1	8	1	1	1		5	17
9	EVKM	1	8	1	1	1		4	16
10	MCC	1			7	1	1	1	11
11	SPK	2	3	1	3	1	1	9	20
12	UNIMAR	2	4	12	3	1	1	1	24
13	NTUA	2	2	38	5	2	1	1	51
14	HMCT	1	10	1	2	2	6	4	26
15	PIM	1	8	1	2	1	8	4	25
16	BNCRM	1	17	1	2	1	10	4	36
17	META	2		2	1	25	2	1	33
18	NMI	1	5	1	2	1		2	12
19	LAM	1	6	1	2	1	10	4	25
20	Icimss	2	3	1	2	1	11	5	25
21	IPCHS	1	4	1	1	2	7	3	19
22	GenCat	1	12	1	2	1		4	21
23	I2Cat	2			1	5	22	2	32
24	CT	2	25	2	2	1		4	36
25	RA	1	13	1	4	1	5	3	28
26	SAM	1	7		1	1		5	15
27	MUO	1	9	1	2	2		4	19
28	SGDAP	1	47	2	2	1		5	58
29	UP	7	17	1	1	1		3	30
30	KIS	1	6		1	1		5	14
31	EAJC	1	7	1	1	1		3	14
32	UniSav	1			12	1		1	15
33	BAR	1	13	2	2	2		4	24
34	Dédale	1			2	9	8	2	22
35	UPMF	1	4	1		1		2	9
36	CL-BAS	1	13	1	1	1		3	20
37	INP	1	25	1	4	2		5	38
38	KIK-Irpa	1	12	1	1	1		4	20
39	ILS	1	27	2	2	1	14	3	50
40	LGMA	1	9	1	2	1		4	18
Total		90	394	105	108	119	131	162	1109

Table 5: Template – Risk assessment

Please identify any significant risks and their impact on the project. Assess the probability of their occurrence and describe possible remedial actions.

Description of possible risk	Impact (disastrous, critical, marginal)	Probability of occurrence (low, medium, high)	Remedial Actions
Lack of cooperation / insufficient effort deployed by Partners	Disastrous, Delays in project schedules	Low	Frequent contact with Partners, responsibilities made clear, support and advice by WP leaders. Request for written confirmation of responsibilities by each content provider sent by Project Manager – monitor response
Conflicts between project Partners	Critical, Delays in project schedules	Low	Project management applies proven methods of conflict management, using arbitration and other methods.
Conflict of interests	Critical, Delays in project schedules	Low	Resolution at Management Team or Steering Committee level
Lack of communication from Partners	Critical, Delays in project schedules	Medium	Contacting Executive Directors of Partner institutions
Financial management	Critical, Delays in project schedules	Medium	Visit the concerned administration staff to find proper solutions
Partners' budgets out of control	Critical, Delays in project schedules	Low	Periodical budget to be provided by all Partners; financial statements every 4 months.
Content providers leave the project	Critical, Delays in the achievement of the objectives	Low	Missed content will be possibly provided by other Partners, however, major content providers have worked together before and are committed to the project. All Partners are clear about the project's value
Missing of synchronisation with the project plan.	Critical, Delays in the achievement of the objectives	Medium	Strong project management, periodic monitoring
Temporary increase in internal organisational work load for partner staff working in AthenaPlus	Marginal, Synchronisation of project in danger	Medium	Strong project management in order to find a solution together with the WP leaders However there may have to be a instance in conformance to project's contract
Key member of staff working on the project no longer able to work, e.g. due to illness.	Marginal, Delays in project schedules	Low	Partners appoint a contact person in their organisation from the start of the project who keeps the project management informed of difficulties. If new staff is appointed to work on the project they will be supported by other Partners in taking over. There will be a fast rescheduling of tasks
Poor awareness and dissemination (lack of multilingual)	Critical, The visibility of	Medium	Advice and support given, solutions found by bringing in additional expertise:

dissemination, conference participation e.g.)	the project remains too low		Europeana team's support.
Not all of the content originally announced is provided by one or more Partners	Critical, Material will not appear in Europeana	Low	Strong monitoring by WP2 in order to find a solution together with the involved partner. Missed content will be replaced by other content. WP2 will check the quality of the new content proposed to the project
Metadata supplied to Europeana do not meet the standards required by Europeana	Critical, Material will not appear in Europeana	Medium	Strong monitoring by WP2 and WP3 and crucial support by technical helpdesk
Expressing vocabularies in RDF/SKOS	Critical, Material will not appear in Europeana	Low	Select and apply a tool for expressing the vocabularies.
Chosen vocabulary cannot be adapted to the Europeana service	Critical, Material will not appear in Europeana	Low	Use suitable vocabularies adapted to Europeana
Technical skills for the development of the applications are higher than estimated and are not available in the partner group	Critical, Delays in project schedules	Low	Strong monitoring by WP1 and all WP leaders
The progress of the project activities show incompatibilities which were not discovered at the time of the preparation of the proposal	Delays in project schedules	Low	The Executive Committee together with all WP Leaders will evaluate the possibility of proposing an amendment to the Commission
The testing of the outputs is not satisfactory	Marginal, Low quality output	Low	Strong monitoring by WP1 and all WP leaders who will involve all relevant working groups in the testing activity enough time before each release
IPR issues not fully resolved for all Partners	Marginal, Delays in project schedules	Low	Use part of the budget for subcontracting for legal advice (most material in public domain)
Deliverables	Critical, Delays in project schedules	Low	Ongoing supervision by WP leaders, scheduling of results and draft reports, peer review
Targets/performance indicators	Critical, Delays in project schedules	Medium	Re-scheduling of dissemination activities where necessary, plans and peer review arranged, technical advice and support given
Inadequate evaluation tools and procedures	Critical, Delays in project schedules	Medium	Self-evaluation and performance evaluation measured and made visible. Appoint an external evaluator.

B3.2c. Project management

Describe the organisational structure and decision-making mechanisms of the project. Show how they are matched to the complexity and scale of the project.

Organisational and change management should be properly addressed in the Best Practice Network proposal, with a detailed specification of the approach and methods to be used.

The AthenaPlus project will be coordinated by Istituto centrale per il catalogo unico delle biblioteche italiane (ICCU), an Institute of the Italian Ministry for Cultural Heritage and Activities, with 70 years of experience in managing large projects both nationally and internationally. This records includes the management of several EC-funded projects: MINERVA, MinervaEC, MinervaPlus, MICHAEL. Michael Plus, Indicate, DC-NET, MedCult, Athena, Linked Heritage. ICCU has also been involved in EC-funded projects as work package leader or partner (Judaica Europeana, Partage Plus, Europeana Collections 14-18, Europeana Photography, Stachem).

The primary aim of project management is to guarantee that project objectives are met within the planned time, and using the allocated budget and resources. A key success will be an efficient communication among the partner network, the other actors in cultural heritage sectors and the major client of the project: the European Commission and Europeana.

Management structure

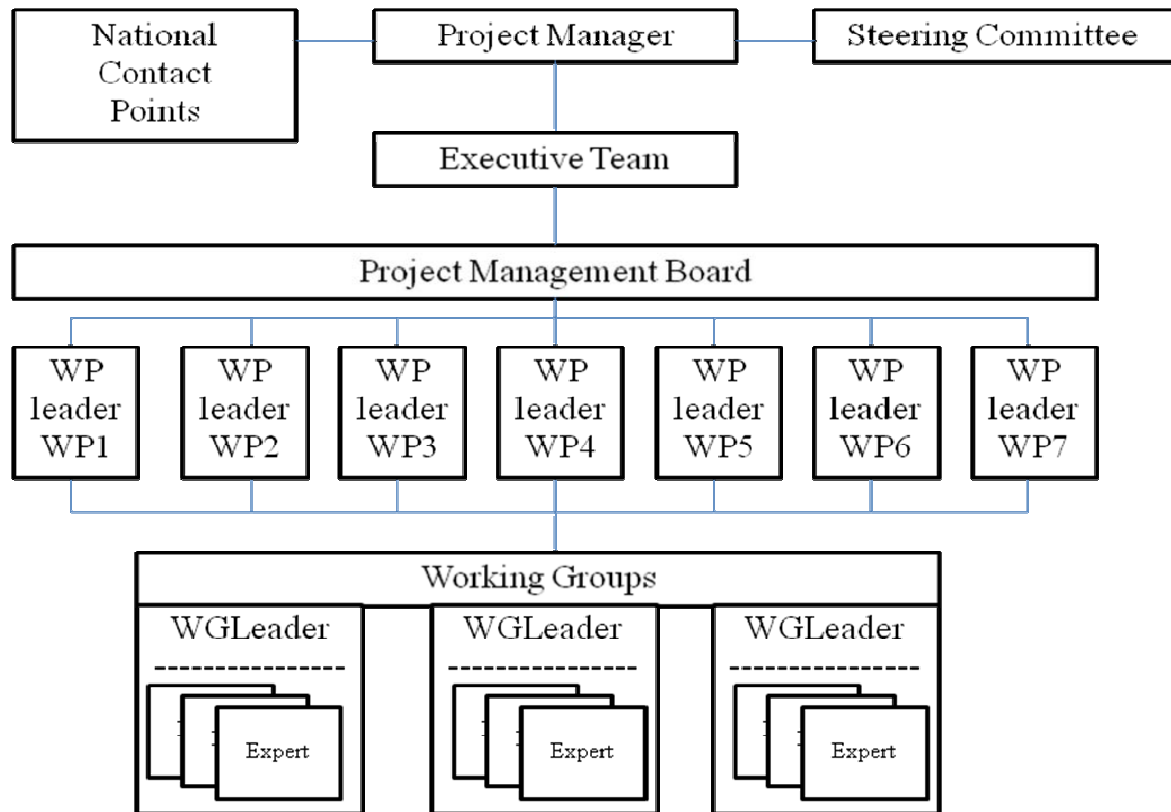
To achieve its objectives, the project must involve a significant number of organisations ('stakeholders'), both to receive their input and to validate the best practice solutions. These stakeholders come from multiple domains (memory institutions, government ministries and agencies, museums, libraries and archives, etc.), each with its own priorities and objectives.

As a result, the emphasis of the project management is on consensus building and facilitation, balanced with progress. The management must help to ensure that the voices of all Partners are heard, while continually driving the project forward to meet its objectives.

ROLE	RESPONSIBILITIES AND TASKS
Project Coordinator	<p>The Project Coordinator is the organisation that holds the role of coordinator in the consortium (ICCU). ICCU will be the prime contractor and will have overall responsibility of the project.</p> <p>ICCU will set up an Executive Team composed by the Project Manager, the Technical Coordinator and the Financial Administrator.</p>
Executive Team	<p>The Executive Team is composed by:</p> <p>1) The Project Manager (PM), namely the director of ICCU (Mrs. Rosa Caffo), responsible for the overall management of the project.</p> <p>Her role is, helped by its staff, primarily to manage the project as a whole, to provide strategic and political steering to the project, harmonising requirements and priorities from the consortium stakeholders. The project manager is also supported by her Secretariat, whose role is to help him in daily administrative issues connected with the project.</p> <p>2) The PM will be assisted by a Technical Coordinator (TC) with large experience in the management of European projects. The role of the TC will be to support the PM to orchestrate and facilitate the work of the project and to liaise closely and regularly with all Partners. PM and TC are involved day-to-day in the project and are responsible for routine management, progress monitoring, partner liaison and technology and content oversight.</p> <p>They will:</p> <ul style="list-style-type: none"> • Establish the collaborative network of experts and stakeholders who will work together to identify best practice approaches to the AthenaPlus topics; • Put in place mechanisms for the network growth, for interaction / integration / interoperability with other projects, for future planning and sustainability; • Run and motivate the project so as to foster a team-oriented approach to its activities; • Maintain close contact with all WP leaders and Partners in order to keep them informed about all relevant developments; • Set up and maintain efficient information flow mechanisms between all Partners;

	<ul style="list-style-type: none"> • Set up the terms of reference which outline the model and procedures for establishing and managing working groups (WGs); • Run a reserved area in the project’s website with all the relevant documentation for the management of the project stored there; • Organise and chair plenary meetings of the Project Management Board (every six months), producing and distributing accurate and agreed minutes of all meetings; • Ensure the quality of all deliverables of the project; • Record accurately all activities of the project: costs, resources, time management and any other relevant documentation; • Stay in close contact with the Commission in order that the project meets all its contractual obligations (including deliverables and financial reports); • Oversee the work of the Financial Administrator. <p>The Financial Administrator (FA) focuses on the management and reporting of the financial aspects of the project. He will:</p> <ul style="list-style-type: none"> • Work closely with, advice and report to the PM on the financial aspects of the project; • Maintain an advisory relationship with its counterparts in the Partners organisations, in order to ensure the efficient operation of the financial reporting obligations of the project; • Ensure the efficient payment of advanced payments from the Commission to the project Partners; • Bring together individual cost statements from the Partners and submit the consolidated statement to the Commission; • Maintain accurate financial records for the project and check, together with the PM, that they are delivered on time to the Commission.
Steering Committee	It will be composed of all WP leaders and one of the Europeana Directors. It will have a strategic role and decide on alignments throughout the project. The meetings of the Steering Committee will take place at least every six months. Hosting of the meetings will rotate between the Partners, and will be preferably organised in the country chairing the EU Presidency in that semester. All the members will participate in these events.
Project Management Board (PMB)	The project board includes a representative of every partner, including all the work-package leaders. Its role is to receive reports on progress on a meeting-by-meeting basis and to set and agree short term goals and actions. To a large degree, this is already established in the project Description of Work and the Project Board acts as a communications mechanism whereby all work-packages are aware of the activity of all other work-packages, particularly in terms of how one work-package leads into another. The project board meets in the occasion of the project plenary meetings, to be organised every six month in different locations agreed by Partners. The board is chaired by the Project Manager.
Work package leaders	The project is delivered through the work of 7 Work-packages (WPs), led by different Partners. Each WP has one or two nominated WP Leaders, responsible for the fulfilment of the activities and the delivery of the assigned deliverables. They will have the sole responsibility, delegated by the Coordinator, for the work and deliverables of their own work-package. They will: <ul style="list-style-type: none"> • Lead and steer the group of project Partners working in the WP; • Maintain contact with the PM and PMB, especially reporting any difficulties or changes in the timing of deliverables; • Report periodically on the activity of their WP to the PM; • Deliver deliverables in time.
Thematic	The activity of the WPs is carried on with the support of Thematic Working Groups set up

working groups	<p>at European level. The model of working through European and national working groups was already successfully experimented in previous projects, such as MINERVA, ATHENA, and Linked Heritage.</p> <p>A Thematic Working Group consists of a team of experts – belonging to the personnel of the Partners, as well as included in they own portfolios of contacts and collaborators – who work together to address the specific AthenaPlus topics analysed by WPs.</p> <p>Typically, each Thematic Working Group is composed of a variable number of experts from a variety of disciplines, built sometimes upon already existing Partnerships and collaborations.</p> <p>The goal of the thematic working groups is to feed the discussion and to enrich the results of the relevant project WPs.</p> <p>Typically, working group activity includes:</p> <ul style="list-style-type: none"> • Explore and discuss the topics of the AthenaPlus project in more depth than is feasible within the formal work-package structure; • Inform and enrich the work-package work with the results of the WG discussions; • Identify and discuss related and relevant topics that can be fed back into the work-package; • Discuss specific activities and results carried out in the framework of the project; • Suggest new ideas that can improve the outcomes of the working group goals; • Participate in surveys and testing activities; • Contribute to edit reports, studies, and publications on specific topics; • Illustrate relevant good practices in the topics analysed; • Participate in training activities; • Contribute to disseminate the results of the activities in workshops, seminars, conferences and other events at national and European level; • Promote outcomes beyond the working group. <p>Thematic or interdisciplinary National Working Groups may be set up in partner countries to work on the same topics at national level.</p> <p>Terms of reference for the running of Working Groups will be set up by WP1.</p>
Project Partners	<p>They will have responsibility for particular area of work, as set up in the Description of Work. They will:</p> <ul style="list-style-type: none"> • Be responsible for the work they have been assigned • Meet the contractual obligations, with regards to financial accounting and reporting • Participate in the plenary meetings of the projects • Appoint experts cooperating in Working packages and Working groups activities
National Contact Points (NCPs)	<p>They will have a strategic role in networking at national level. They will be the first project referees for institutions and stakeholders wanting to cooperate with the project. They will act in close contact with the Executive Team.</p>



Structure of the AthenaPlus Best Practice Network

Decision-making mechanisms

Tactical decisions are taken by the project coordinator. She reports to the project board at each meeting, and may also involve the board via email, conference call or extraordinary meeting, if critical decisions need to be taken at short notice.

Day to day decisions such as sign-off on deliverables and reports are taken by the coordinator and the project administrator, working together. Where appropriate, the project technical leader will be involved too.

Longer-term decisions such as changes to the direction, objectives or focus of the project are taken by the project board. Experience has shown that the board can be expected to reach consensus; in the unlikely event that this does not occur, a simple one-vote-per-partner, with majority voting, can be used for decision making. In a tied situation, the coordinator has the casting vote.

For conflict resolution, see below.

Communications

Communication is vitally important for the best practice network. Day to day work-package communications shall rely on the project website and on e-mail/e-mail lists. The project website will of course include document sharing and discussion (wiki) functionalities.

However, internal communications such as seminars and working group meetings, as well as telephone meetings, Skype meeting, videoconferences and personal visits across Partners will also play an essential role in driving the project towards consensus on its broad range of topics.

Quality Assurance

The project shall use quality assurance procedures based on the ISO9000 series of standards. For the project this means that:

- deliverables will be reviewed by Partners not involved in their creation
- versioning and configuration management will be used for all software, documents and other outputs (e.g. training materials)
- time and resources will be planned, from the start, into project budgets for document
- and other reviews.

The Project Management Board shall nominate the Partners who must review each of the project deliverables. The Description of Work will state when the deliverables are to be delivered to the QA team for review. Review will focus on the content, rather than the form, of the deliverables.

Templates and standards for deliverables will be published on the reserved area of the project website. These will specify headers and footers, font styles, front pages, use of document histories and versioning, etc. All deliverables will be created using these templates, and will not be accepted for review otherwise. Scope notes for deliverables will also be generated if appropriate. However, all Partners have extensive EU project experience and so have a good knowledge of what is expected in a deliverable.

Software development protocols and procedures will be set by the technical leaders (NTUA and META) and will cover test processes, version control, integration management, API definitions, etc. The software deliverables will of course take into account the integration/interoperability requirements of the European system.

The **QA cycle** shall be as follows:

- Work-package leader delivers the deliverable to the technical coordinator;
- The technical coordinator forwards the deliverable to the Partners responsible for QA review;
- Review carried out, the reviewed copy of the deliverable returns to the author, with copy to the technical coordinator;
- Work-package leader modify the deliverable in response to the review. Final version is delivered to the technical coordinator and published in the project website;
- The technical coordinator carries out the final review;
- The project coordinator forwards the deliverable to the European Commission Services.

The content of the deliverables is the most important material to review. Internal reviewers shall be experienced in the general topic of the deliverable and be able to assess its quality. They shall also be familiar with the overall project, and so be able to judge the contribution that the deliverable makes to the project.

The project coordinator will monitor the progress of the QA cycle. In order to allow time for review and for enhancements, the preceding stages must be completed on time. The technical coordinator shall be alerted for late deliverables and late reviews. However, if a delay is detected and cannot be avoided, the coordinator will seek the permission of the project officer to submit a late, but high-quality deliverable, rather than submitting a weak deliverable on time.

B3.3. Resources to be committed

In addition to the costs indicated on form A3 of the proposal, and the summary of staff effort shown in B3.1b. table 4 above, please identify and substantiate any other major cost items (e.g. equipment, software, subcontracting). Describe how the totality of the necessary resources will be mobilised, including any resources that will complement the EC contribution. Show how the resources will be integrated in a coherent way, and show how the overall financial plan for the project is adequate.

For personnel costs only the actual monthly rate needs to be given here, as the rationale on the amount of effort should be given in the project workplan. For "subcontracting" and "other costs" a detailed breakdown and rationale must be given here.

Personnel costs

Personnel costs represent the majority of the overall project's costs (82%), since the Partners have staff with the requested expertise and experience to achieve the expected results, especially in terms of describing the content with the appropriate metadata and guarantee the workflow to Europeana. A total of 1142 person-months of effort is estimated for the delivery of AthenaPlus.

The allocation of effort across partners and work-packages reflects the best estimates of the consortium at the time of the project start. Work-packages and task leaders typically require more time than those partners who are just contributing rather than leading.

ICCU has the larger amount of budget, mainly for two reasons: 1) it is the major metadata contributor (with about 1.540.000 records coming from more than 300 different institutions); 2) the very large consortium composed of 40 partners plus associated partners and observers requires a strong management activity, in order to reach all the goals within the deadlines. For the fulfilment of the ATHENA Plus project, ICCU will use internal permanent or temporary staff. In case of specific needs, like short replacements, ICCU reserves to employ personnel through staff employment agencies, in any case not exceeding 10% of ICCU's personnel costs. All eventual additional costs related to the employment agencies will not be included in ICCU's budget for the ATHENA Plus project. ICCU will inform specifically these type of personnel costs in each submission of costs, detailing the amount and their percentage.

The average monthly rate used for calculating the personnel costs are reported in the following table:

Partner number	Partner	average monthly rate
1	ICCU	4.200
2	UMA	6.400
3	KMKG	5.000
4	PACKED	4.500
5	OKV	4.300
6	Michael	4.500
7	CyI	3.000
8	NM	2.700
9	EVKM	2.800
10	MCC	3.500
11	SPK	6.200
12	UNIMAR	7.140
13	NTUA	4.000
14	HMCT	3.200
15	PIM	2.000
16	BNCRM	3.500
17	META	3.500
18	NMI	3.500
19	LAM	2.300
20	ICIMSS	3.200
21	IPCHS	4.200
22	GenCat	3.500
23	I2Cat	3.500

24	CT	5.000
25	RA	6.000
26	SAM	2.300
27	MUO	2.500
28	SGDAP	3.500
29	UP	4.400
30	KIS	2.300
31	EAJC	4.500
32	UniSav	4.500
33	BAR	1.445
34	Dédale	5.000
35	UPMF	4.500
36	CL-BAS	1.500
37	INP	1.000
38	KIK-Irpa	4.300
39	ILS	3.500
40	LGMA	3.500

Subcontracting

Several subcontractors are foreseen. While these may change as the project progresses, the following are the expectations of the consortium at the time of the starting of the project:

Partner	Subcontracting amount	Subcontracting description
01 ICCU	40.000 Euros	To be made available to the Europeana Foundation or external experts and technicians indicated by the Europeana Foundation for guaranteeing the technical interconnections between the tools developed and the content made available by AthenaPlus with the technical characteristics of the Europeana service. The subcontracting will include dissemination activities through Europeana tools. The subcontracting procedure will be finalised within month 4th of the project.
01 ICCU	40.000 Euros	To guarantee interoperability among content providers platform as architectural framework to harvest and to share metadata, it is necessary to undertake a process of data normalization that includes the analysis of the existing database from the logical structure of the entities to the quality of data and the related thesauri, if any. To ensure that the data will be meaningful when displayed in the new context it's necessary to support the institutions - museums, superintendences, archives and libraries - that participate into the project to improve the quality of data and to realize the semantic and technical interoperability. It is therefore necessary: 1) to verify that institutions use adequately national and international metadata standard and thesauri of cataloguing and indexing for the management of linguistic, lexical and iconographical data; 2) to resolve in the mapping process, any issue on the metadata elements like meaningful and non ambiguous title, values in the date elements , in spatial location or temporal period (a date range or period label) etc. When necessary, a technical assistance for installation and configuration of the Repository OAI-PMH, the extraction of the data and filling of the repository, the verification of the quality of the metadata will be given.. The subcontractor will be selected according to national administrative rules.

08 NM	5.000 Euro	The National Museum runs the web portal and application www.esbirky.cz which will be used for the Athena Plus as aggregator into the web portal europeana.eu . The application harvests new data from the Czech memory institutions to ensure online accessibility to European digital heritage. Digital content of local institutions of the Czech republic is very diverse and there is demand for specialised computing work concerning preparation of the data into the right datamodel or their change into the new format. These type of work is not possible to provide by the employees of the National Museum and is ensured by subcontractor. These approach supports the institution to use and EDL, LIDO, API and their extension in use and re-use of digital content. The subcontractor will be selected according to national administrative rules.
11 SPK	25.000 Euro	<p>For the involvement of DigiCult, in particular for their expertise in multilingual thesauri and mappings across terminologies.</p> <p>The input of the DigiCult team is crucial in Athena Plus WP4 since they are the developers of xTree, a web-based tool (developed in open software) to build and maintain controlled vocabularies (e.g. thesauri, classifications, authority lists, taxonomies) or administer folksonomies. The tool is unique in its kind and is a crucial part (mapping and enrichment module) of the design of the original prototype version and the envisaged AthenaPlus version of the TMP. Within AthenaPlus, DigiCult will collaborate with the main technical partner University of Savoie in the further development and connection of xTree as an integrated module in the TMP as well as provide advise based on their years of experience in this precise domain.</p> <p>Because of its legal status, DigiCult (a private non-commercial cooperative - in German: eingetragene Genossenschaft), born recently, preferred not to become a full partner of the AthenaPlus consortium. Therefore they will be involved as sub-contractors to SPK (as was the case in Linked Heritage) in WP4.</p> <p>The tasks for the digiCULT team will be:</p> <ul style="list-style-type: none"> • Further development of the TMP Prototype Integration of new xTree Features to TMP (e.g. Term-, Homonymmanagement) • SKOSification of xTree vocabularies (e.g. LIDO Terminology) and import to Terminology Registry System • test Integration of an interface to be used for multilingual polyhierarichal terminologies (eg the AAT. (The AAT is currently under discussion for use in Europeana) • softly integration of the ISO 25964-1 standard to TMP • trainings in using xTree
15 PIM	15.000 Euro	The content delivered by the PIM consists of three collections, of which only one is part of the Petofi museum. The othertwo collections are managed by other important Hungarian memory institutions, namely the Hungarian National Gallery (MNG) and the Hungarian Open Air Museum (SZNM). To make the metadata of these digital collections ready for ingesting, subcontracting is necessary. The subcontractor will be selected according to national administrative rules.
16 BNCRM	25.000 Euro	The Central National Library of Rome has not, within its structure a digitisation centre, able to fulfill all tasks related to mapping and metadata creation. Moreover, the library does not have the possibility to use internal staff and internal financial resources to buy the necessary software for the preparation of the metadata and the management of interoperability procedures. Therefore this activity must be subcontracted. The subcontractor will be selected according to national administrative rules.
18 NMI	12.000 Euro	A large part of the record updates of both NMI's Digital Asset Management systems (Photographs, most notably objects) and of its Collections Management systems (text description of objects, currently done as part of a

		<p>general 5-year inventory project), is carried out by on-site contractors. To provide Athena Plus and Europeana with the necessary records as described in the proposal, NMI will have to use part of the time of these contractors, in an effort that is distinct from what they currently do. In addition to these record updates, it will be the first time NMI will participate to Europeana, and consequently the customisation and integration of three systems in use in NMI (Collection Management System, Digital Asset Management System, and Website Content Management System) will have to take place and will likely require external specialists of these software products and associated APIs (Application Programming Interface). The subcontractor will be selected according to national administrative rules.</p>
21 IPCHS	15.000 Euro	<p>GIS pilot application will cover enriching geo-location of meta data. The experiences of geographical information analysis and geoparsing in ATHENA project as well as the integration and use of Europeana geoparser and Europeana gazetteer will be upgraded with application. The other part of the pilot will prototype the use and reuse of geocoded AthenaPlus data for creative industries and cultural tourism by using mapping, geoprocessing and geointeroperability frameworks.</p> <p>For the development of the GIS pilot, experts in geographic information systems with experiences in innovative web programming in GIS area are needed. The IPCHS is a public institution and does not have employees covering these requirements. The subcontractor will:</p> <ul style="list-style-type: none"> • Design the web prototype application and user interface for computers and mobiles, • Develop the prototype web application, • Deploy the prototype application and support AthenaPlus partners for experimenting and using the pilot. <p>The subcontractor will be selected according to national administrative rules.</p>
28 SGDAP	18.000 Euro	<p>All the digitization work concerning journals had been done by a private enterprise. Also the software used for internet accessing is a private one managed by another enterprise. So, the SGDAP preview that part of the work needed to adapt the 1.706.785 pages of newspapers to be published in Europeana would be done by external professionals.</p> <p>The subcontractors will be selected according to national administrative rules.</p>
34 Dedale	35.000 Euro	<p>The implementation of the pilot on digital storytelling requires specific technical services and specialised skills, external to Dédale's team. Thus, part of the device realization will be subcontracted:</p> <ul style="list-style-type: none"> • Technical developments and computer programming: specialist in databases and digital asset management system. • Web and mobile developments: experienced web developer and iOS developer with a strong experience in development of innovative mobile application. • Graphic design: graphic designer specialized in graphical user interface and user experience.
37 INP	10.000 Euro	<p>For specific software development. INP presumes a development effort of 5 man-month for two components: a) a module for converting MARC-like records to LIDO; b) a web-based application for collecting online LIDO-compatible metadata records for museum objects.</p> <p>The first application will allow the provision of metadata records originating in libraries (which use information systems based on MARC format). The second will allow small museums to produce/edit object descriptions from scratch.</p> <p>The subcontractors will be selected according to national administrative rules.</p>

39 ILS	40.000 Euro	The Sturzo Institute began to digitalise archival and librarian material (documents, books, photographs, audiovisual records) in 2004 and until today has collected thousands of digital items. The digital collections are managed through different databases and application systems, developed throughout the years with different, not updated, technologies. In this perspective, the Sturzo Institute, in order to share its cultural collection and participate in Athena Plus project, needs to create a new platform to manage its digital items (collection, databases, web publications, etc.). The project will be scheduled in two main phases: firstly, digital items indexing and standardization of descriptions; secondly, creation and implementation of a new aggregation system, in order to manage and share all the material, according to the Europeana standards.
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Other costs

An important cost to be foreseen is the maintainance of the AthenaPlus server, by NTUA.

The outward-facing nature of the project means that events which bring people together are a very important part of the project's activities. Seminars, meetings, workshops, training sessions, conferences are planned, as outlined in the workplan. Resources for hosting such events and for travel to events hosted by third parties are an important element of the project budget. To keep such costs under control, project meetings will be combined with other events as much as possible.

Finally, dissemination materials, newsletters and publications will be an important long-term impact driver for the project. As has been experienced in the ATHENA and Linked Heritage project, the assembly and production of high-quality publications addressing common issues should be central to the dissemination strategy of the AthenaPlus best practice network. These outputs will continue to be downloaded and utilised longer after the project ends. Therefore some budget has been allocated for printing dissemination materials, two issues of the Uncommon Culture Journal and two scientific publications.

Amount	Beneficiaries	Description
10.000 Euro	NTUA	Costs for adapting and maintaining the Athena Plus ingestion server
394.000 Euro	All partners	Travel and subsistence costs for project meetings and events. All the partners have budgeted the participation to the plenary project meetings, as described in the management sections of this document (on average: 1 plenary meeting every 6 months, possibly in conjunction with other project events) and to some training events.
44.000 Euro	Managed by the coordinator on behalf of all partners	Travel costs of invited speakers and experts requested to be involved in the project meetings and working groups. All invitations must be previously authorised by the coordinator. Travel of experts of third countries must be previously authorised by the Commission.
30.000 Euro	Managed by the coordinator on behalf of all partners	Organisation of the final project international conference. It includes simultaneous translation, technical services (audio and video recordings), press office, catering, etc.)
117.500 Euro	Quite all partners	Costs for the organisation of at least two training workshops in each partner country. An average budget equal to 2.500 Euro has been allocated per event (on a total of 47 events).
93.000 Euro	Managed by the coordinator on	This budget will be used for: <ul style="list-style-type: none"> • Printing of promotional and dissemination materials (factsheets,

	behalf of all partners	<p>brochures, leaflets, etc.) to make stakeholders and citizens of the partner countries aware of the project and the Europeana services, increase the number of content providers interested in joining the network. It includes design costs, editing costs, language revision costs, printing house costs.</p> <ul style="list-style-type: none"> • 20.000 euro) • Printing of at least 2 publications, produced to highlight the results of the WPs outputs. It includes design costs, editing costs, language revision costs, printing house costs. (17.000 euro x 2) • Printing of 2 issues of the professional journal Uncommon Culture. It includes design costs, editing costs also for the online version, language revision costs, printing house costs. (22.000 euro x 2)
5.000 Euro	EAJC	Production of 3 newsletters focusing on the activities and results of the AthenaPlus project.

B3.4. Indicators

Describe specific and realistic indicators which you will use to measure the progress towards the achievement of the project's objectives at different stages in the project lifetime. These indicators should be stated in quantifiable form based on absolute values, not percentages. Indicators should anticipate the project's progress and not be limited to simple technical aspects (e.g. number of project web site hits). Indicators should relate to areas under control by the project and not to outside factors (e.g. number of users of a service in countries that are not targeted by the project). Explain how indicators will be measured and by whom. (Use table 6 template).

Table 7: Template – Indicators

Indicator No.	Relating to which project objective / expected result?	Indicator	Method of measurement	Expected Progress		
				Year 1	Year 2	Year 3
1	Aggregation process	Number of metadata records aggregated through MINT	Statistics of the MINT aggregation tool	20% 720.000	50% 1.800.000	30% 1.080.000
2	Aggregation process	Number of metadata records online on Europeana	Statistics of the MINT aggregation tool	20% 720.000	50% 1.800.000	30% 1.080.000
3	Aggregation process	Number of Partners who signed the DEA	Survey			40
4	Enlargement of the network	Number of cooperation agreement signed	Documentation received by the project coordinator		10	5
5	Enrichment of content	Number of virtual exhibitions/tourist routes/educational packages created	Monitoring by the Project management and WP6			11/15
6	Awareness	Number of institutions experimenting new tools	Monitoring by the Project management and WP6			20
7	Awareness	Number of experts participating in thematic working groups	Monitoring by the Project management and the relevant WP leader	100	110	120
8	Dissemination and training	Number of AthenaPlus dissemination and training events	Event report filled in by the organiser of the event	5	18	5
9	Dissemination and training	Number of people participating in events	Event report filled in by the organiser of the event	300	600	400
10	Visibility	Number of unique visitors on AthenaPlus website	Website statistic tool	10,000	40,000	20,000

11	Dissemination	Publications: Booklets and Uncommon Culture issues produced	Effective Outputs		1	3
12	Dissemination	Number of publications printed or downloaded from the project website	Website statistic tool Printed copies distributed		2000	6000
14	Dissemination	Number of national and international events where AthenaPlus is invited to participate	Partner reports to co-ordinator.	10	30	10
16	Networking – Europeana Office arranged events (consultations & workshops)	Number of events attended	Partner reports to co-ordinator	3	3	2
17	Dissemination	Number of scientific articles produced	Partner reports to co-ordinator	2	4	4
18	Dissemination	Number of news in newsletter, blogs, e-bulletins etc.	Partner reports to co-ordinator	40	200	100

Please note that the table reports the figures related to each year (i.e. the figures related to Year 2 only refer to that year and do not include the cumulated figures (Year 1 + Year 2)).

The results of performance measurement and evaluation (indicators and their values) will be part of the progress reporting to the Commission.

B3.5. Security, privacy, inclusiveness, interoperability, standards and open-source

State clearly how interoperability between products and services from different sources will be ensured and, where appropriate, how interconnection and interoperability of networks and services will be achieved. State any security and privacy issues involved in the proposed service, and, if so, how they are addressed in the proposal.

The main standards being used should be identified. The proposal must (where applicable) clearly identify where a proprietary approach is used and the reasons for its use.

Proposals addressing problems connected with standardisation or regulation should explain what these problems are and how they will be addressed.

Describe the inclusiveness and accessibility of the service, both by its nature and the way it shall be provided.

The project will align diversified metadata schema presently applied by the content providers to the standards used by Europeana, so that interoperability within the different content providers is assured. It will start from the existing metadata models (e.g. ISAD and EAD for archives, MARC for libraries, CDWA, Museumdat, Spectrum and CIDOC for museums, etc.). In particular the project will care to provide its resources at the minimum level of Dublin Core metadata, however it will strongly support all its Partners to provide more elaborated metadata according to the ESE and EDM schemas.

A metadata interoperability platform will be customized to the specificities of the actual content, and it will be deployed to facilitate the semantic alignment of proprietary provider's metadata schemata with the AthenaPlus repository through a visual mapping editor. The platform will offer the OAI-PMH harvesting and deployment services for delivering the records to Europeana.

The Partners will adopt the approach promoted by the European Commission in many initiatives and projects as part of the Semantic Web vision with the representation of its controlled vocabularies in RDF/SKOS for the purpose of assuring semantic interoperability and complying with the Europeana requirements.

The project will primarily seek to exploit open source modalities and is focused on making available in Europeana digitised content from the thematic domain using Creative Commons licensing models. In cases where direct access to a digitised object is not feasible due to a more restrictive policy adopted by an institution, then the alternative approach will be to make available to Europeana - in addition to the regular object surrogates like thumbnail for images or a sample of audio content, the descriptive metadata - also detailed licensing and rights information at the object level. The potential user will be able to know and to carry the necessary clearance procedures for access and use of the restricted access object.

The project will assist its Partners in defining licensing models adequate to their business strategies and the state of art policies current in the European Union.

The consortium agreement to be signed between the Partners will set appropriate licensing or clearing arrangements for any Intellectual Property Rights arising from the project output so as to ensure the wide use and dissemination of the project results.

Security and privacy should not constitute a real issue in AthenaPlus. The main attention requested to privacy refers to the names of external organisations and users who will be contacted during the development and implementation phase, who will not be circulated outside the reports addressed to the Commission, as well as the credits due to the artists involved in videos or audios, whose authorization will be explicitly requested if necessary.

The methodology and technological tools developed by the project will be fully made available to Europeana and to any other town or group of towns interested in their exploitation. The consortium is mostly constituted by Universities and Research organisations aiming at a wider use and re-use of their outputs. The project shares the general objective of Europeana of facilitating access to the European cultural heritage.

AthenaPlus will deploy a set of intuitive services for metadata interoperability that have been prototyped and are currently serving several aggregation initiatives and projects for Europeana. The platform allows for the ingestion of any XML-serialised metadata model and its alignment with a reference domain model. The architecture has been proven to facilitate aggregation of content for Europeana, providing a comprehensive workflow and an easy to use interface for users of varying technological backgrounds. The use of the intermediate, domain-oriented schema ensures the quick and seamless adoption of updated modelling

specifications i.e. ESE and EDM. The deployed repository is exposed through an OAI-PMH implementation in accordance with the requirements of the Europeana ingestion office.

The platform is being thoroughly tested and evaluated within ongoing aggregations for different domains, such as museums, audiovisual archives, archaeological sites and monuments, artistic performances and digitizing contemporary art.

It has been customized to serve different domain or project-specific models, including LIDO, EUscreen, EBUCore, CARARE and ECLAP, offering interoperability between them and current versions of ESE and EDM. It is also deployed for the prototyping of EDM within WP3 of Europeana v1.0 project, contributing to the implementation of EDM's RDF and XML serialization. Finally, new services are constantly introduced to offer novel features that further improve metadata quality and the aggregation's homogeneity, such as use of common vocabularies, mappings between terminologies, cleaning and normalization, analytics and previewing capabilities.

Going more in detail in technologies:

WP3 technologies and tools

The AthenaPlus project will use the MINT platform for ingesting and aggregating metadata. This open-source platform was developed by the National Technical University of Athens in the framework of the first ATHENA project, and has since become standard, and enthusiastically adopted by several, sister European projects, and national aggregators. During the AthenaPlus project this platform will be customized according to the requisites of Europeana and all inputs coming from WP4 and WP5. See B32a (Metadata interoperability service and MINT Technical Specifications) for a detailed description of the service.

WP4 technologies & tools

WP4 will provide a set of tools needed to deal with every aspect of terminology management, terminology interoperability, and terminology linkage to metadata records: register, SKOSify, store, manage, search and navigate, map, enrich, collaborate, link terminology source to metadata. These tools will be part of a single user friendly Terminology Management Platform (TMP) web service.

The suggested terminology tool will be partially based on the conceptual design and beta version conceived in the BPN projects ATHENA and Linked Heritage. The existing Linked Heritage prototype version of the TMP consists out of:

- a prototype terminology registry based on the developments of the Europeana metadata registry (EuMDR) in the EuropeanaConnect project²⁰
- xTree, a mapping and editing tool developed by Digicult²¹
- a prototype skosification, navigation and semi automated mapping tool developed by the university of Savoie

Though the Linked Heritage TMP will remain in an experimental development stadium, the conceptual schema, prototype specifications, and beta version of the TMP already exists, be it in an experiment stage of development²². None the less, the knowledge gathered in both Athena and Linked heritage will allow to WP4 of AthenaPlus to quickly move forward to develop and launch a full production version of the TMP with accompanying support and documentation materials within the projects short time span.

In AthenPlus WP4, the technical partners will revise the technical specifications of the TMP conceived in Athena and Linked Heritage to further refine the system and address functional issues arising from a thorough analysis and test of the original schema and prototype version. Moreover, missing functionalities will be added

²⁰ <http://pro.europeana.eu/documents/12117/1000137/The+Europeana+Metadata+Registry>

²¹ http://www.google.be/url?sa=t&rct=j&q=xtree%20digicult&source=web&cd=5&ved=0CEAQFjAE&url=http%3A%2F%2Fwww.athenaeurope.org%2FgetFile.php%3Ffid%3D660&ei=N4M8UPKANY6KhOf_vYDQCA&usg=AFQjCNHr2GjjXojBw8aD1a9XabL_MKt9aw&cad=rja

²² http://www.athenaeurope.org/athenawiki/index.php/Global_schema_of_the_TMP

to the system and most importantly, a tool to provide semantic linking of terminology sources to cultural metadata will be build. This aspect will be a large improvement on the Athena and Linked heritage concept for it will be the first time that it will be possible to link back the network of enriched multilingual terminologies to the actual metadata, hence providing serious enrichment potential of the metadata provided to Europeana and the linked Data web through AthenaPlus.

AthenaPlus will:

- Analyse and review the TMP beta version as developed previous BPN
- Refine and rewrite the technical specifications based on this analysis
- Specify the new functionalities of the TMP, including a new tool that will allow to create a link between the terminology source and the metadata record (Task 4.3 Enrichment)
- Evaluate the effectiveness and functionalities of the tools
- Develop a full production version of the TMP
- Develop documentation and support materials to encourage widespread usage of the TMP
- Provide training to participants and promote the active use of the TMP.

WP5 technology and tools

WP5 will develop the software components necessary to enrich metadata for a creative use of the content collected by the ATHENA project. More in particular, the tools of the technology stack of the LOD217 project will be analysed to evaluate their possible integration in the tools developed in task 5.3.

The tool for realizing virtual exhibitions will incorporate some technology under development in the Italian project MOVIO (<http://www.movio.beniculturali.it>), a kit consisting of: an open source CMS designed for the creation of online virtual exhibitions, the version MOVIO CMS for mobile (microsite) for iPhone and Android smartphones, and iPad; the App version for the most popular mobile platforms (iMovio). The MOVIO project tools offer multimedia facilities to the users such as slide shows, advanced image ingestion, etc. Moreover, the objects belonging to a virtual exhibition have a referencing cataloguing description with some fields related to semantic information. MOVIO supports the use of ontologies and thesauri for representing the correlations between semantic descriptors. In this way the semantic information may be used for browsing and searching purposes. Moreover, MOVIO offers a central web site for accessing all the instances created with its CMS from an unique site and for searching on all the virtual exhibitions. In the Athena Plus context the components of this open source tools will be deeply analyzed and some of them made available in the applications for creative contents. The main effort will be the selection and customization of the available tools in the Athena Plus context and the integration with the tools created in the other WPs of the Athena Plus project, with particular regard on the use and integration of the specific semantic knowledge made available (ontologies, etc.).

As part of the development phase of the construction of the educational toolbox by WP5 (set of applications that allow re-use of the ATHENAPlus metadata in educational contexts), research will be made on what technologies and/or applications are already pre-existing. Specific person month effort by PACKED has been dedicated to this task. In case applications already exist and could work in the framework of the project with a degree of customisation, they will be used and identified. The interface that will allow for easy use of the educational toolbox will be newly developed in its entirety. It will however make use of an existing web framework, such as Drupal 7 or Symfony2, and other open source components.

Regarding technology used for the planned training on the various applications, WP5 has selected existing technologies that allow for real-life 'teaching' experiences (i.e. in the form of a workshop) as well as online re-use of the training materials. The training materials will be made available on the ATHENAPlus website. However if the ATHENAPlus website does not provide enough functionality we will move to another platform, such as a wiki, on the condition that the new platform provides the same degree of sustainability. The training materials will consist of screencasts demonstrating the use of the tools developed within ATHENAPlus in addition to written tutorials. Existing screencast recording tools for creating video tutorials will be used. Examples of such software applications are Camtasia, Screenium or ScreenFlow or a web based recording tool such as screenr.com.