

The logo for ASSETS features the word "assets" in a lowercase, bold, black sans-serif font. The letter "e" is replaced by a stylized, colorful graphic consisting of a green and purple striped circle with a purple outline and a small purple circle below it. The period at the end of "assets" is a small green circle. The background of the slide features a large, faint, stylized graphic of a person's head and shoulders, composed of overlapping green and purple curved bands.

assets.

ASSETS 1st year review

Luxembourg, 10th of June 2011

Silvia Boi

Engineering Ingegneria Informatica

ATTENDEES

- Speakers:
 - Silvia Boi, Luigi Briguglio, Maria Luisa Porro (ENG)
 - Sergiu Gordea (AIT)
 - Fabrizio Sebastiani, Carlo Meghini (CNR)
 - Ghislain Sullaime (CVCE)
 - Anne Marie Van Gerwen (Europeana)
 - Morena Rizzo (Ciaotech)
- More...
 - Giuseppe Amato, Nicola Aloia, Claudio Lucchese (CNR), Steffen Lalande (INA), Victor Valdes, (UAM), Òscar Paytuví (BMAT), Efstratios Tzoannos (ATC), Cristina Martinez (Tecnalia), Michalis Lazaridis (CERTH)

Agenda

Description	Responsible	(30') 20'
Welcome and introduction. Context, purpose and objectives of the review	Federico Milani, European Commission	09:15 - 09:30
Agenda approval – introduction	Silvia Boi, ENG	09:30 - 09:50
Project overview		
Results of the first year		
<ul style="list-style-type: none"> ▪ Deliverable, Milestones, KPIs, Demos list 		
Introduction to Stream 2		
<ul style="list-style-type: none"> ▪ Architecture ▪ Services Overview ▪ Development Framework 	Sergiu Gordea, AIT	09:50 - 11:30
Indexing and retrieval		
<ul style="list-style-type: none"> ▪ Image Similarity Search <ul style="list-style-type: none"> ○ demo 	Sergiu Gordea, AIT Giuseppe Amato, CNR	
<ul style="list-style-type: none"> ▪ Text based Search <ul style="list-style-type: none"> ○ demo 	Sergiu Gordea, AIT Claudio Lucchese, CNR	
<ul style="list-style-type: none"> ▪ Video Summarisations and Retrieval <ul style="list-style-type: none"> ○ demo 	Sergiu Gordea, AIT Victor Valdez (&or Chema), UAM	
<ul style="list-style-type: none"> ▪ 3D Retrieval <ul style="list-style-type: none"> ○ demo 	Sergiu Gordea, AIT Michalis Lazaridis, CERTH	
<ul style="list-style-type: none"> ▪ Audio similarity search <ul style="list-style-type: none"> ○ demo 	Sergiu Gordea, AIT Oscar Paytovi, BMAT	
<ul style="list-style-type: none"> ▪ Semantic cross linking browsing <ul style="list-style-type: none"> ○ demo 	Sergiu Gordea, AIT Michalis Lazaridis, CERTH	
Coffee break		11:30 - 11:45

Agenda

<i>Ingestion services</i>	Fabrizio Sebastiani, CNR	11:45– 12:15
<i>Digital preservation services</i>	Luigi Briguglio, ENG	
Introduction of Stream 3		
▪ Introduction	Carlo Meghini CNR	12:15– 13:10
<i>Content Provision</i>	Ghislain Sillaume CVCE	
<i>User perspective</i>	Anne Marie Europeana	
<i>Community services</i> ○ demo	Carlo Meghini, CNR	
LUNCH		13:10– 14:00
Introduction of Stream 1		
▪ Introduction	Silvia Boi, ENG	14:00 - 14:05
<i>Dissemination and Exploitation</i>	Morena Rizzo, CTECH	14:05- 14:30
<i>Financial and Administrative status</i>	Maria Luisa Porro, ENG	14:30'-14:50
Conclusion		14:50 - 15:00
▪ Meeting to discuss initial impressions and preliminary conclusions (without project representatives)	Federico Milani/Reviewers	15:00– 15:20
▪ Feedback from PO and reviewers to ASSETS representatives	Federico Milani/Reviewers	15:20 - 15:35
▪ Closing remarks	Federico Milani	15:35 . 15:40

assets.

Project Overview

Main Objectives

- **Services to improve usability of Europeana**
 - **Metadata and content similarity search** for multimedia objects
 - **Ranking algorithm** for improved search
 - **Semantic cross-links** for rapid navigation of multimedia objects
 - **GUI especially designed** for interacting with multimedia objects
 - **Long-term Access** to digital information services
 - **Ingestion of metadata** requiring cleaning, knowledge extraction, classification and mapping to a common structure

ASSETS Services

Enrichment (Ingestion)

Cleaning
Knowledge extraction
Classification

Indexing and retrieval

Search and retrieval
Image, Text, Audio, Video and 3D

Browsing & characterisation

Semantic browsing
Improved Interfaces
Notification

Digital Preservation

Risk management
Normalisation
Notification

Community services

Content creation (UGC)
Taxonomy based notification
Personalisation

Impact of the ASSETS services

- **Search and retrieval:** ASSETS will *enhance in quality and widen in scope the search and retrieval service of Europeana*. This will solve a large usability problem for Europeana, giving the user sets of results that have meaningful ranking and assurance of the quality of the service.
- **Semantic Browsing** will allow *users to explore information in an interactive way* leading to the discovery not only of the Europeana content but also of the interests, ideas and vocabularies of other communities.
- **Interface improvements:** deploying *interfaces specially designed for browsing multimedia content*.

Other impacts

- **Impact on Europeana:** The components developed by ASSETS are planned to be fully integrated into Europeana
- **Long-term viability** will be guaranteed since the ASSETS services will be loosely coupled with the platform, which means that they can be used together or in isolation by the adopters.

Project Structure

- Stream 1: **Management and Networking:**
 - **Management and coordination**
 - **Networking dissemination and exploitation**
- Stream 2: **Foundation:**
 - **Technical Coordination**
 - **Service implementation**
 - **Service integration**
 - **ASSETS platform**
- Stream 3: **Content and Users**
 - **Content provision and adaptation**
 - **Service user evaluation and testing**
 - **Community services**



assets.

1st year results

Indicators

Ind. No.	Objective/expected result	Indicator name	Expected Progress Year 1	Achieved results Year 1
1	make Europeana content accessible through metadata-based searches	Deployment of Metadata search service	10% of content will be accessible	YES 100%
2	make multimedia content accessible through content-based similarity searches	Deployment of Content-based similarity search service	30% of the ASSETS multimedia content	YES ASSETS content provided Total <u>324.038</u> (83%) Baseline <u>389.918</u>
3	create semantic links between Europeana surrogates	Deployment of Semantic Browsing Component	5.000	YES
4	provide digital preservation planning services to Europeana Content Providers	Deployment of Digital Preservation services	analyse the content of Europeana (metadata)and ASSETS (content)	YES a service has been created to analyse Europeana metadata
5	Enrich new and existing content using the ingestion services	Deployment of Ingestion Services	10% of the Europeana metadata 50% of the ASSETS content	YES
6	Add ASSETS new multimedia (audio, video, image) content to Europeana	Content aggregation	30%	YES <u>162.273</u> of ASSETS metadata in ESE aggregate into Europeana portal Baseline: <u>542.648</u> Percentage <u>30%</u>
7	Aggregate critical mass	ASSETS Community	< 50 members	YES LinkedIn <u>91</u> members <u>30</u> internal to ASSETS and <u>61</u> external

1st Year Deliverables

Del. No.	Deliverable name	WP no.	Lead participant	Nature	Dissemination level	delivery date	Delivered Yes/No
D1.0.1	Quality Plan	1.0	ENG	R	CO	3	Yes
D1.0.2	Management Website	1.0	ENG	P	CO	3	Yes
D1.1.1	ASSETS Dissemination Website and dissemination material	1.1	CTECH	P	PU	3	Yes
D1.1.2	Dissemination Plan	1.1	CTECH	R	PU	12	Yes
D2.0.4	The ASSETS API	2.0	ENG	R	PU	11	Yes
D2.1.1	Specification of Ingestion services	2.1	CNR	O	PU	12	Yes
D2.2.1	Specification of post querying processing functionality	2.2	CNR	R	PU	12	Yes
D2.4.5	Service deployment and experimentation in EuropeanaLabs	2.4	CNR	R	PU	12	Yes
D3.2.2	Content creation services	3.2	CNR	P	PU	12	Yes

1st Year Milestones

Milestone no.	Milestone name	Due achievement date from Annex I	Achieved Yes/No
MS1	Definition of the quality procedures	M3	Y
MS2	Management Web site running	M6	Y
MS3	First Progress Monitoring report available	M12	Y
MS5	Financial check-point year 1	M 12	Y
M7	User Community website site running	M3	Y
M8	First dissemination material	M4	Y
M9	Rolling Dissemination Plan	M13	Y
MS12	System architecture completed	M4	Y
MS13	Europeana Cluster Technical Meeting, Pisa	M3	Y
MS14	Europeana Cluster Technical Meeting, the Hauge	M6	Y
MS15	First revision of Service API published	M12	Y
MS16	Europeana Cluster Technical Meeting, Vienna	M12	Y

1st Year Milestones

Milestone no.	Milestone name	Due achievement date from Annex I	Achieved Yes/No
MS18	Selection of reference data-set for metadata cleaning	M6	N
MS19	Selection of reference data-set for knowledge extraction from metadata records	M8	Y
MS20	Selection of reference data-set for metadata classification	M10	Y
MS22	Multimedia content feature extraction software	M8	Y
MS23	Index structure management software	M12	Y
MS27	Digital Preservation Service Design	M5	Y
MS28	Digital Preservation Service Prototypes	M12	Y
MS39	Provision of a first set of content	M12	Y
MS43	Content creation by re-use	M10	Y
MS44	Taxonomy based notification	M12	Y

Tangible results

- Prototypes (DEMOS)
- Content aggregation (to ASSETS and to Europeana)
- Dissemination Material

Prototypes

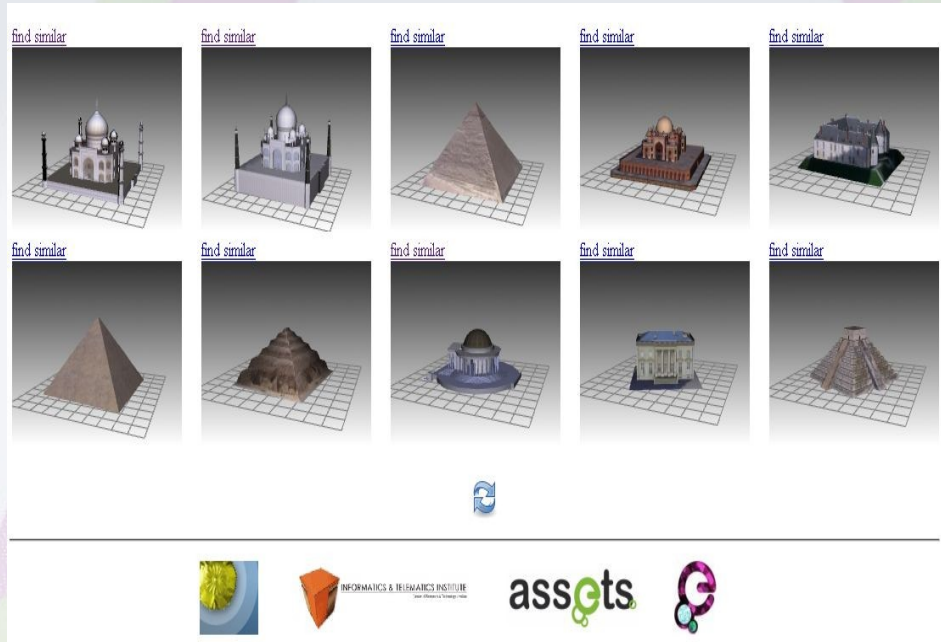
- 7 prototypes
 - **Image Similarity Search**
 - Text-based Search
 - Video Summarisation and Retrieval
 - **3D Similarity Search**
 - Audio similarity search
 - Semantic cross-linking browsing
 - Content creation



ThoughtLab demonstrations

Image Similarity Search

3D Similarity Search



Content aggregation

ASSETS Content Provision

PROVIDERS		Media files (content-based indexing)								Metadata			
Content providers	Short Name	3D Models	Audio		Image		Video		Total	Total	Training First Year	ESE	
			1st Year	in the End	1st Year	in the end	1st Year	in the end	1st year	finally		First Year	In the end
Accademia Nazionale di Santa Cecilia	ANSC		2.997	3.000	0	5.000			2.997	8.000	10.000	21.051	21.051
Centre Virtuel de la Connaissance	CVCE		308	308	8.631	8.631	1.323	1.323	10.262	10.262		23.075	23.075
Deutsche Welle	DW		364	364			408	408	772	772	0	772	772
Dias Publishing Public	DIAS				240.271	240.271	7.842	7.842	248.113	248.113		195.892	303.600
Fondazione Micheletti	FLM				15.790	15.790			15.790	15.790	250	15.790	41.290
Fundaci3n Albeniz	ALBENIZ		301	1.000	37.204	37.204	322	500	37.827	38.704	300	24.234	31.500
Hellenic Archive of Scientific Culture	HASC				5.000	5.000			5.000	5.000		5.004	5.004
Institut National de l'Audiovisuel	INA						3.065	3.065	3.065	3.065	10.000	101.356	101.356
Liberis Publications	LIBERIS								0	0		6.104	15.000
United Nation Educational, Scientific and Cultural Organization	UNESCO	50			212	212			212	212			
Europeana Foundation					60.000	60.000				60.000			
External Content													
Google Warehouse		300											
Carrare		100											
TOTAL		450	3.970	4.672	307.108	372.108	12.960	13.138	324.038	389.918	20.550	393.278	542.648

- Content **324.038/389.018 (83%)**
- Metadata **393.278/542.648 (72%)**

Content aggregation

- ASSETS Content aggregated to Europeana: **162.044 objects**

The screenshot shows the Europeana website interface. At the top, there are navigation links: "My Europeana", "About us", "Communities", "Partners", "ThoughtLab", and a language selection dropdown. A search bar contains the query "*.*" with a "Search" button and a "Refine Search" link. Below the search bar, it indicates "Matches for: *.* > PROVIDER:ASSETS > TYPE:VIDEO".

The main content area displays a grid of search results for "Le bar du bébéte show". Each result includes a thumbnail image, the title "Le bar du bébéte show : [émission du ...]", the provider "Guy Lecluyse", and the source "Institut National de l'Audiovisuel ASSETS". The results are filtered by "Videos (103,087)".

On the left side, there is a sidebar for refining the search. It includes sections for "By provider" (listing ASSETS with 103,087 items), "By country", "By type" (with VIDEO selected, showing 103,087 items), "By language", "By date", and "By rights". There are also "Actions" like "Save this search" and "Login | Register".

At the bottom of the sidebar, there are icons for document, image, video, and audio, with a note: "No image? Click through the colour block to see the item. We are still loading...".

Dissemination material

- ASSETS Public Website
- 1 Leaflet
- 1 Brochure
- 1 Poster
- 35 Press releases (5 different languages)
- 11 Papers
- 2 Video interviews (2 languages: English and Greek)



Questions?



Questions
are
guaranteed in
life;
Answers
aren't.

The logo for 'assets' features the word in a bold, lowercase, sans-serif font. The letter 'e' is stylized with a thick, multi-colored striped pattern in shades of green and purple. A small green circle is positioned to the right of the 's'.

Stream 2 Foundation

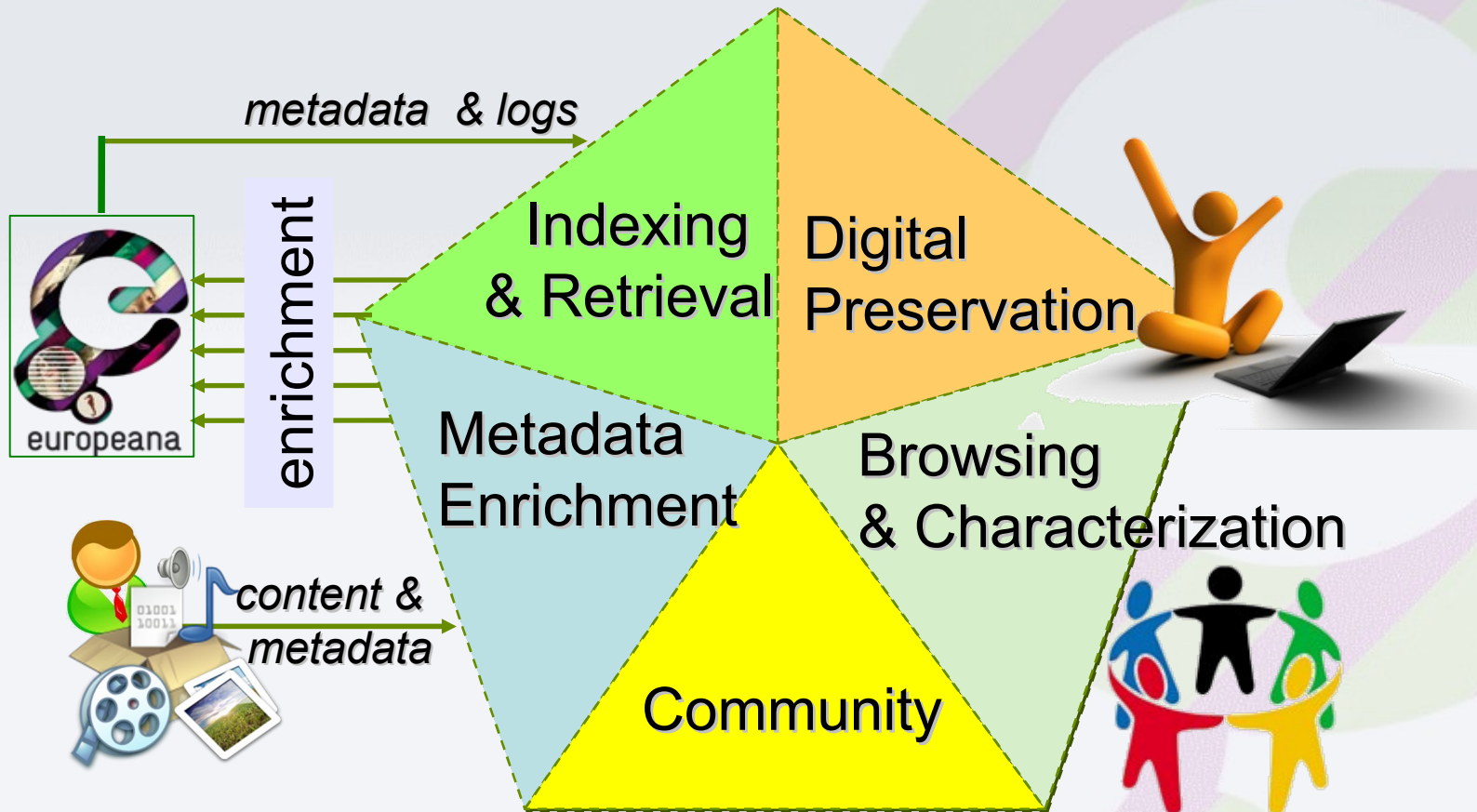
Sergiu.Gordea @ AIT.AC.AT

Luxembourg, June 10th 2011

Outline

- Assets Services Overview
- System Architecture
- First Year Project Results
- & Demonstrations
- Question answering

Service Overview



Metadata Enrichment Services



ingestion workflow

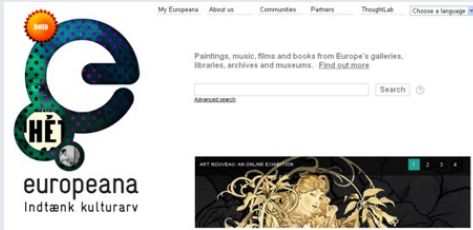
metadata cleaning

knowledge extraction

metadata classification

- **Reduce inhomogeneities and errors** in metadata
- **Enrich description** by extracting information from metadata
- **Perform classifications** according to well defined domain ontology

Indexing & Retrieval



metadata & logs

similar results



**Indexing,
Ranking &
Retrieval**

post query processing

metadata based ranking

indexing
&
retrieval

text

image

3D

audio

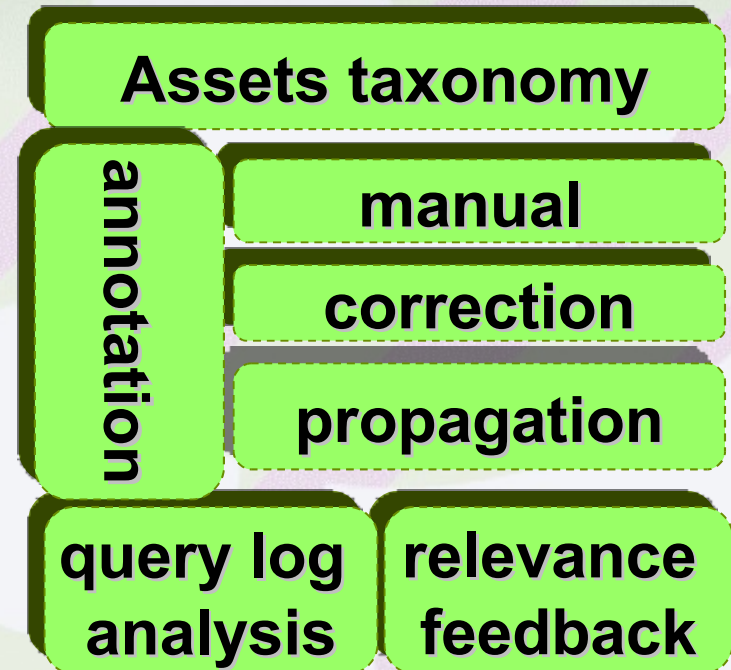
video

- **Advanced Indexing & Ranking techniques** for the efficient & effective retrieval of multimedia objects
- **Image/3D/Video/Audio**
- Multimedia-based **similarity**
- **Feedback** from users improve quality of results

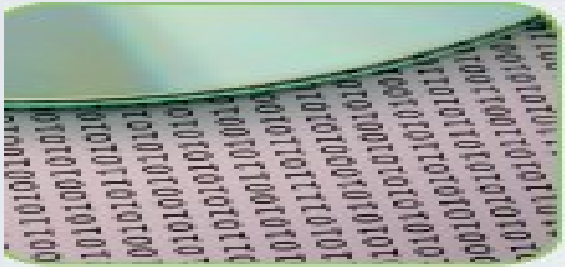
Browsing & Characterisation



- GUI: look & feel, usability
- User feedback: personalisation of search results
- Semantic browsing
- Content categorisation: support for semantic browsing
- Manual annotation of metadata



Digital Preservation Services



- Estimate **Preservation Risks** for data and provide **Recommendations**
- Report, Notify and Track **Impacting Events**
- Enact **Preservation Plans**

Risk Management

Notification

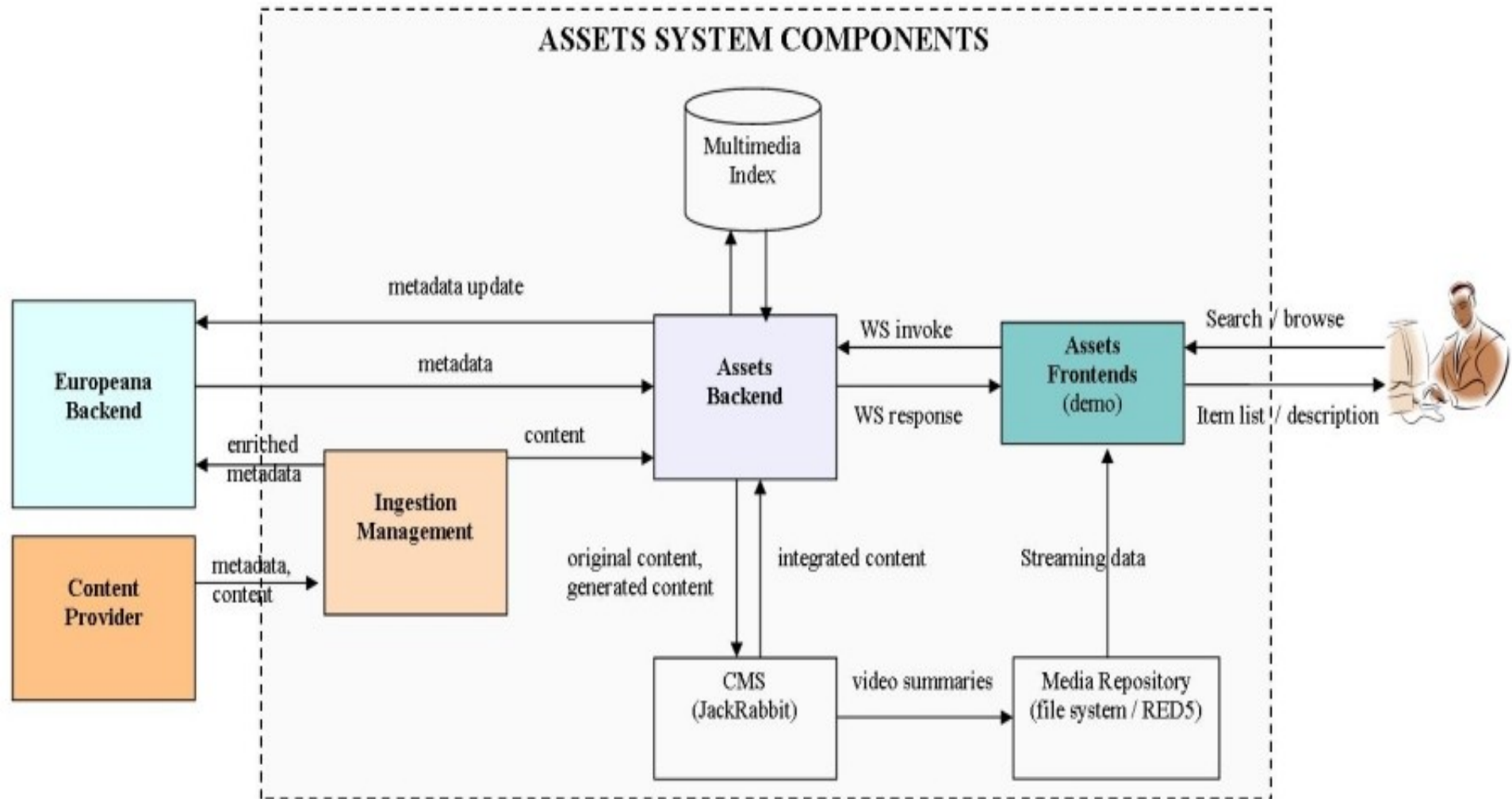
Normalization

ASSETS System Architecture

Requirements

- **Compatibility** with European architecture
- **Easy integration** into European infrastructure
- **Reuse** framework & technologies
- **Compliant** with European **policies** regarding technology selection

ASSETS System Architecture

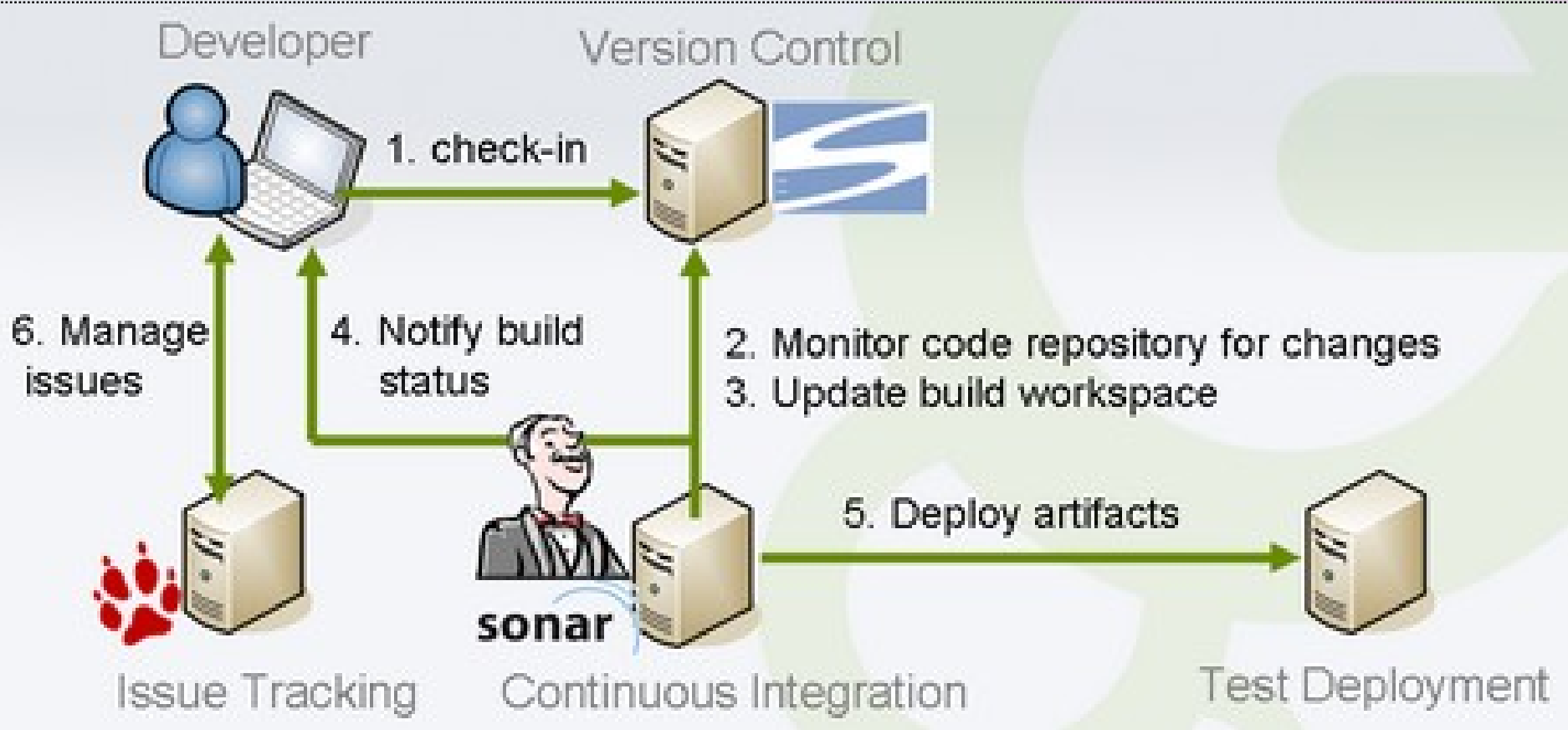


WP 2.4

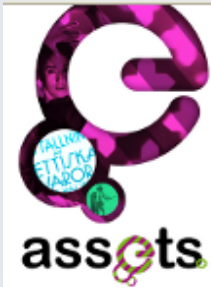
Service integration, testing and deployment

- Technical Infrastructure
- Development Framework
- Platform and service integration
- Service set-up and testing
- Service deployment and experimentation

Development Infrastructure



ASSETS Demos



ASSETS ThoughtLab : First year review

Demo	Url	Description
Image similarity search	Europeana Thoughtlab Assets image similarity search	A user is viewing the result page of a search in ASSETS. Selecting an image, among the ones shown in the result page, a image content-based similarity search is performed, and the index returns the most similar ones with respect to the image query.
Text based search	Assets query suggestions Assets metadata based ranking	Show the results of a text query re-ranked by the BM25F function, fine-tuned by exploiting query log information.
Video summarisation and retrieval	Stand alone demonstrator	
3D retrieval	Assets 3D similarity search Europeana Thoughtlab	A user is viewing the result page of a 3D search in ASSETS. The user selects one of the results and clicks on the "Search similar" button. The 3D content based search is initiated and a list of 3D models, geometrically similar to the selected, is returned. A set of ca. 300 models will be used for the demo
Audio similarity search	Stand alone demonstrator	
Semantic cross linking browsing	Assets semantic browsing Assets metadata editor	
Community services		

WP 2.2

Scalable metadata- and similarity-based indexing and retrieval

- Largest WP of the project
- Computing intensive
- Resource consuming
- (Most) Interesting functionality

Image Indexing & Retrieval

- Activities

- Image feature extraction

- Developing the feature extraction software
 - Extract features accessing ASSETS and Europeana data

- Access methods for image matching

- Organize extracted features so that they can be searched efficiently

- Searching/Ranking

- Rank search results so that the user find what he/she is searching for

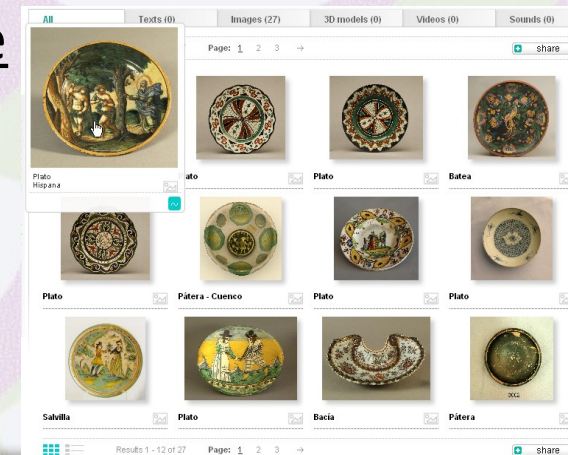
Achievements

Images indexed and ready to be searched

Europeana	65.970
DIAS images	237.520
DIAS video thumbnails	7.795
HASC	4.861
CVCE	8.538
FLM	4.419
TOTAL	329.103

Image Search Engine

- Europeana Thumbnails
 - Published in the ThoughtLabs
 - <http://virserv.isti.cnr.it:8080/assetsIRService>
- ASSETS+Europeana Images
 - <http://capolegrotte.isti.cnr.it/assetsIRService>
- Integration in ASSETS Portal



Text Based Indexing & Retrieval

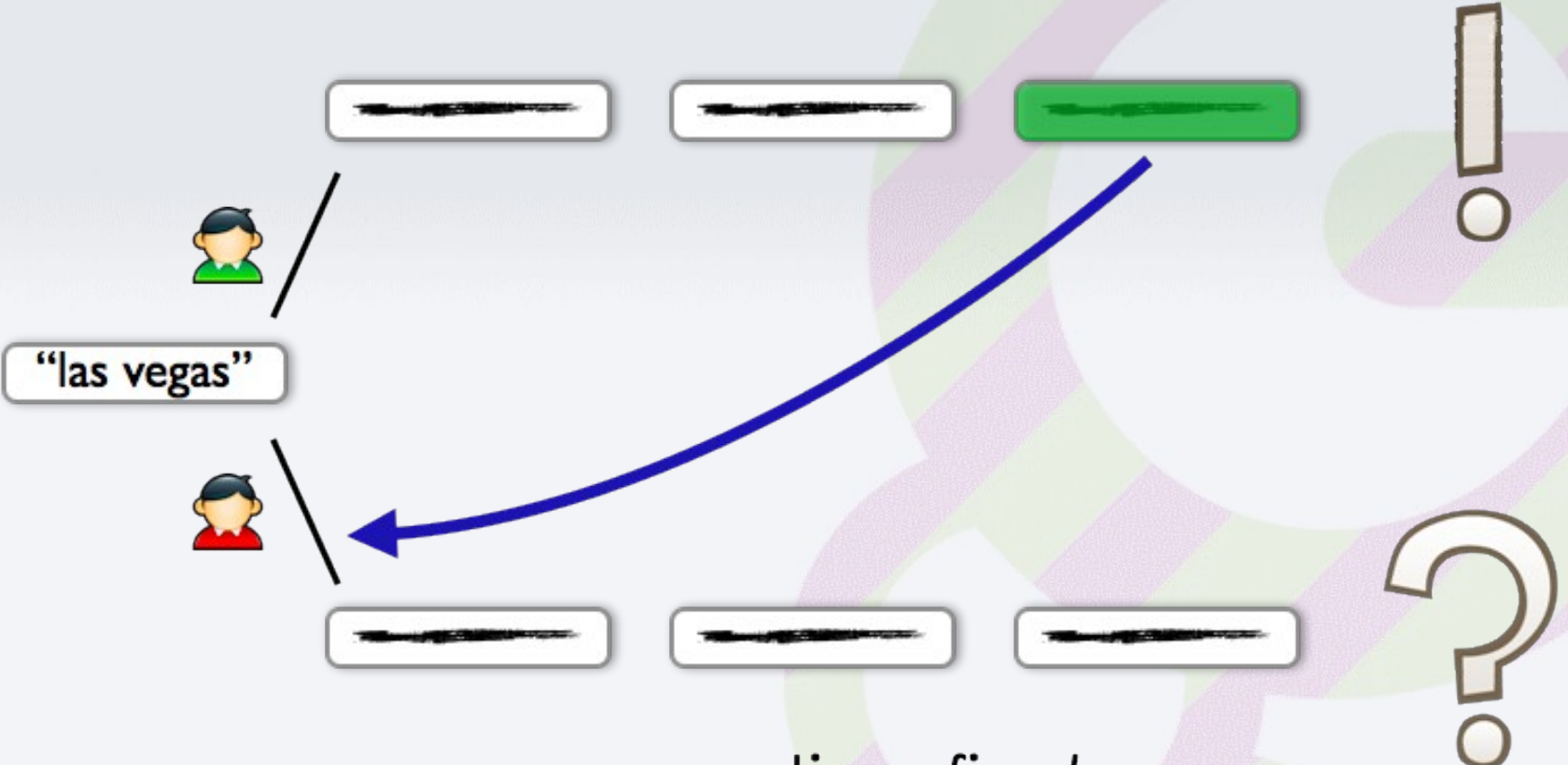
- Tasks
 - Post-query processing
 - Query log analysis
 - Query suggestion computation
 - Metadata based ranking
 - Implementation of an effective scoring function based on BM25F
 - Text indexing and retrieval
 - Design and management of text indexes supporting implementation of other text based services

Achievements

- Analysis of the Europeana query log
 - **197.447 sessions**
 - Average length of a session: **2.32** (distinct queries)
 - Average time spent searching: **248s**
 - **89.369 (45%)** successful sessions ending with a click
 - **64% in the MSN query log**
- Query suggestion index
 - Suggested queries: **~60.000**
 - Text queries: **~ 113.000**

How to suggest good queries ?

Tpdl 2011



use as suggestion: *final query*
from other "**satisfactory**" sessions

Demo



canova

Search

Refine Search Advanced search

Related searches:

- bathsheba antonio canova psyche venus laokoon
- feuerbach aphrodite van gogh

Europeana

ASSETS

4 5 6 7 8 9 10 →

Results 1 - 12 of 607 Page: 1 2 3 4 5 6

 **Tanzendes Mädchen**
Canova, Payne, Albert Henry
Stadtgeschichtliches Museum Leipzig

 **Hebe**
Canova, Payne, Albert Henry
Stadtgeschichtliches Museum Leipzig


 **Venus Italica (Büste)**
Schumacher, Klaus-Dieter (Fotograf)
2001
Deutsche Fotothek

 **Venus Italica (Büste)**
Elymas
2001
Deutsche Fotothek

 **Venus Italica (Büste)**
Schumacher, Klaus-Dieter (Fotograf)
2001
Deutsche Fotothek

 **Cav. Antonio Canova celebre scultore**
Boni, Giovanni-Martino dei, 1753-1815
1814
The European Library

 **SKA703**
1948
Swedish Open Cultural Heritage

 **Έργο Πλαστικής**
Εθνικό Αρχαιολογικό Μουσείο [Exhibition]
Athens

 **Europe. Canova's tombe**
Naya
9999
Hispana

 **Bust of Laura**
University of St Andrews - Museum Collections
Scran

Video Summarisation & Retrieval

Objectives

- **Enhance** the functionalities of **Europeana** for searching, browsing and previewing **video content**

Services Provided

- **Video Summarization**: generation of summaries (video skim and keyframes)
- **Video Indexing & Search**: retrieval by similar video content

Achievements

- **First Year Achievements:**

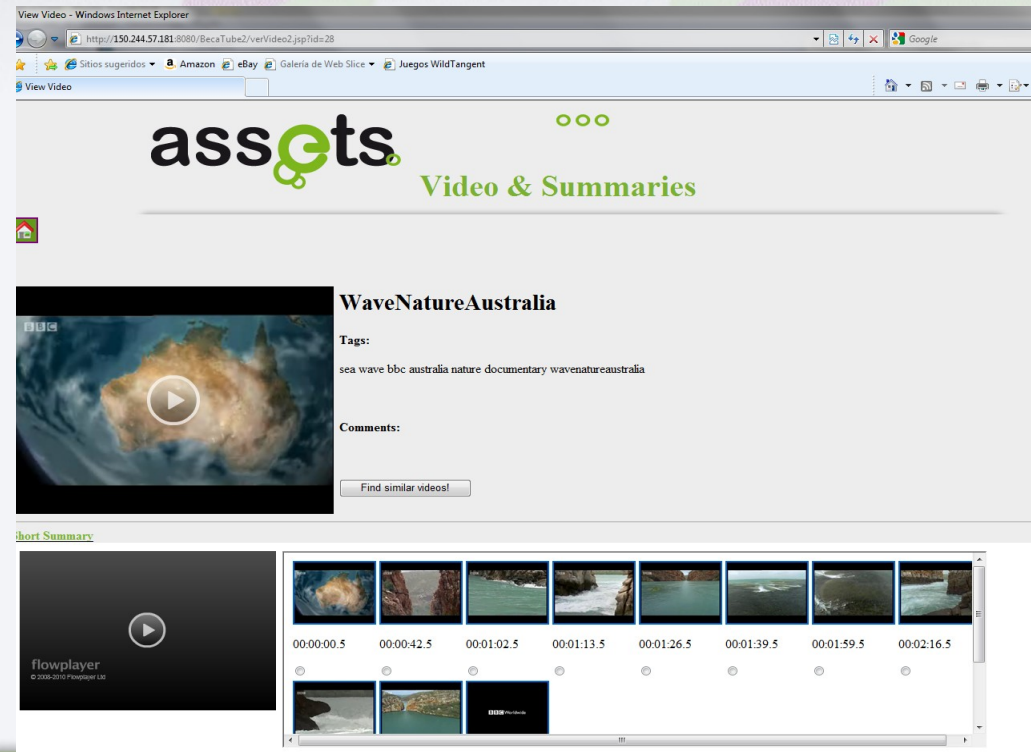
- Java implementation of a video summarization algorithm specifically developed and customized for the ASSETS project
- Development of the first version of the video indexing and search module

- **Ongoing Work:**

- Integration of the video summarization service within the ASSETS platform

Standalone demonstrator

- Video summarization
- Keyframe extraction and navigation functionalities.
- Query by example (based on visual similarity).



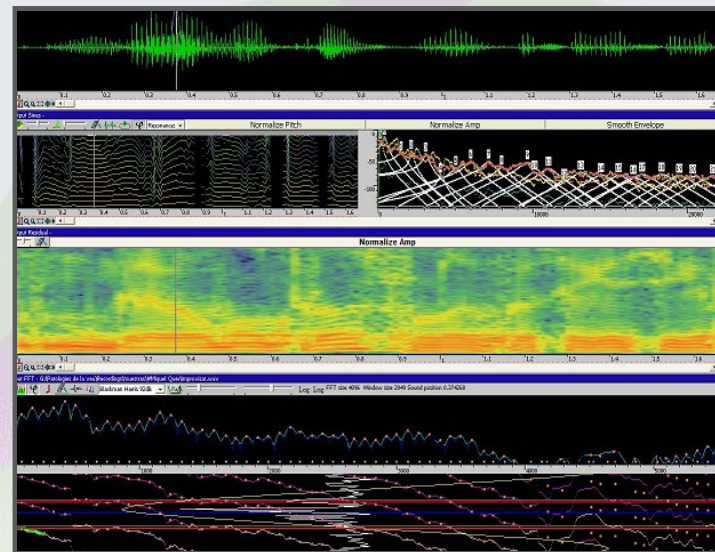
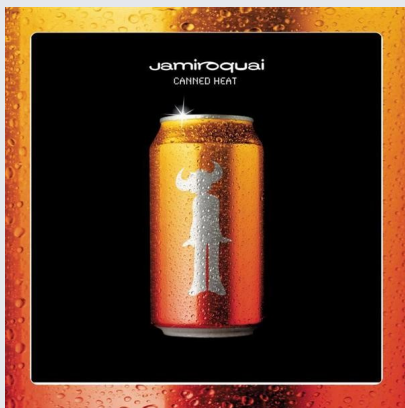
Audio Similarity Search

Objectives

- Enhance the functionalities of Europeana for searching and browsing audio content

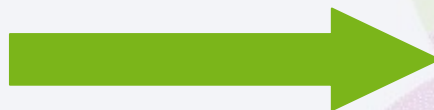
Services Provided

- Audio description: mood, tempo, etc.
- Audio Search: retrieval by similar audio content



Automatic Music Description:

- * Moods: party, happy
- * rhythm: simple (128bpm)
- * key: Dm
- * Timbre: bright
- * Pitch: low (male vocalist)
- * music vs speech: music

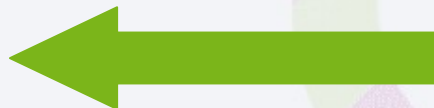


Contextual Enrichment:

- * Country: UK
- * Record labels: Acid Jazz, Sony BMG, Columbia
- * Genres: Funk, Disco, Acid Jazz, Jazz Fusion, Pop-rock
- * Years active: 1992 – present
- * Related artists: Brand New Heavies, Jestofunk, etc.

Similar tracks:

- * **Branded by Monkey Business**
- * **A dream's dream by Soul II Soul**
- * **Saga by Basement Jaxx**
- * ...




Demo

Style rock (34%) | Moods **happy**, aggressive, party
 Rhythm simple [123 bpm] | Key D major | Timbre bright
 Speech vs. Music | Voice [female] vs. Instrumental

The following songs are recommended based on 05-kids.mp3 



Everyone Everywhere
 from *Republic (US Release)*
 by New Order

 similar songs



Parkbench
 from *Deep Blue Something*
 by Deep Blue Something

 similar songs



Say It Loud
 from *Invincible*
 by Skillet

 similar songs

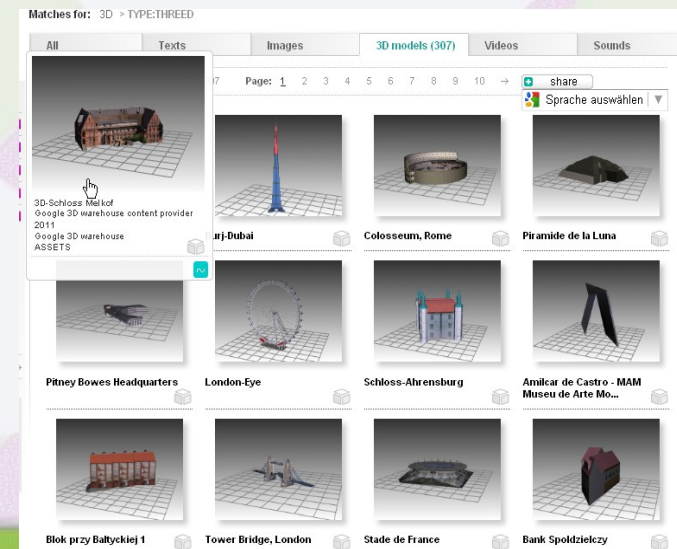
3D Indexing & Retrieval

Objectives:

- To develop a unified framework for 3D model retrieval

Achievements:

- Creation of test dataset:
- ca. 300 models, downloaded from Google 3D Warehouse
- 3D Models from UNESCO and CARARE
- 3D Search & Retrieval implementation
- Search using existing models
- Demos
- Europeana thoughtlab demo
- Integration into the ASSETS framework



WP 2.5

Browsing and visual interfaces:

- Addresses immediate user needs
- Public user: semantic browsing, enhanced system usability
- Librarian user: metadata editing, ingestion log analysis
- Portal integration for indexing & retrieval services

Metadata Editing

Objectives

- Develop a manual annotation tool connected to the ASSETS metadata repository
- Handle OWL & SKOS taxonomies
- Take benefit of open knowledge repositories to help users to enrich records with relevant information related to Named Entities : DBPedia, Freebase & Geonames

Usage

- A tool dedicated to providers/aggregators
- Involved in two scenarios:
 - Metadata enrichment/correction after ingestion
 - Building training set for the ASSETS annotation propagation module

Semantic Cross-linking

- Creation of ASSETS Taxonomy
 - ca. 8000 taxonomy terms
- Definition of components and interfaces
 - Content selection/manual annotation/training/annotation propagation
- Creation of semantic links
 - 8400 semantic links, 74 categories for 2D
 - 300 semantic links, 15 categories for 3D
- Integration into the ASSETS framework
 - Loading/storing of semantic links, visualization on portal

GUI Improvements

Activities:

- Design mock-ups for the ASSETS end-user service
- Definition of GUI Implementation Guidelines for the integration into Europeana portal
- Developments to support the First Review integrated demos and demo pages of the ASSETS services
- Assets Portal Improvements:
 - Support for 3D-models in the search results
 - Playing media files (video player, audio player)
 - Zoom tool over thumbnails (metadata, action buttons)
 - Thoughtlab page

Thank you!



Questions?

ASSETS Valuables

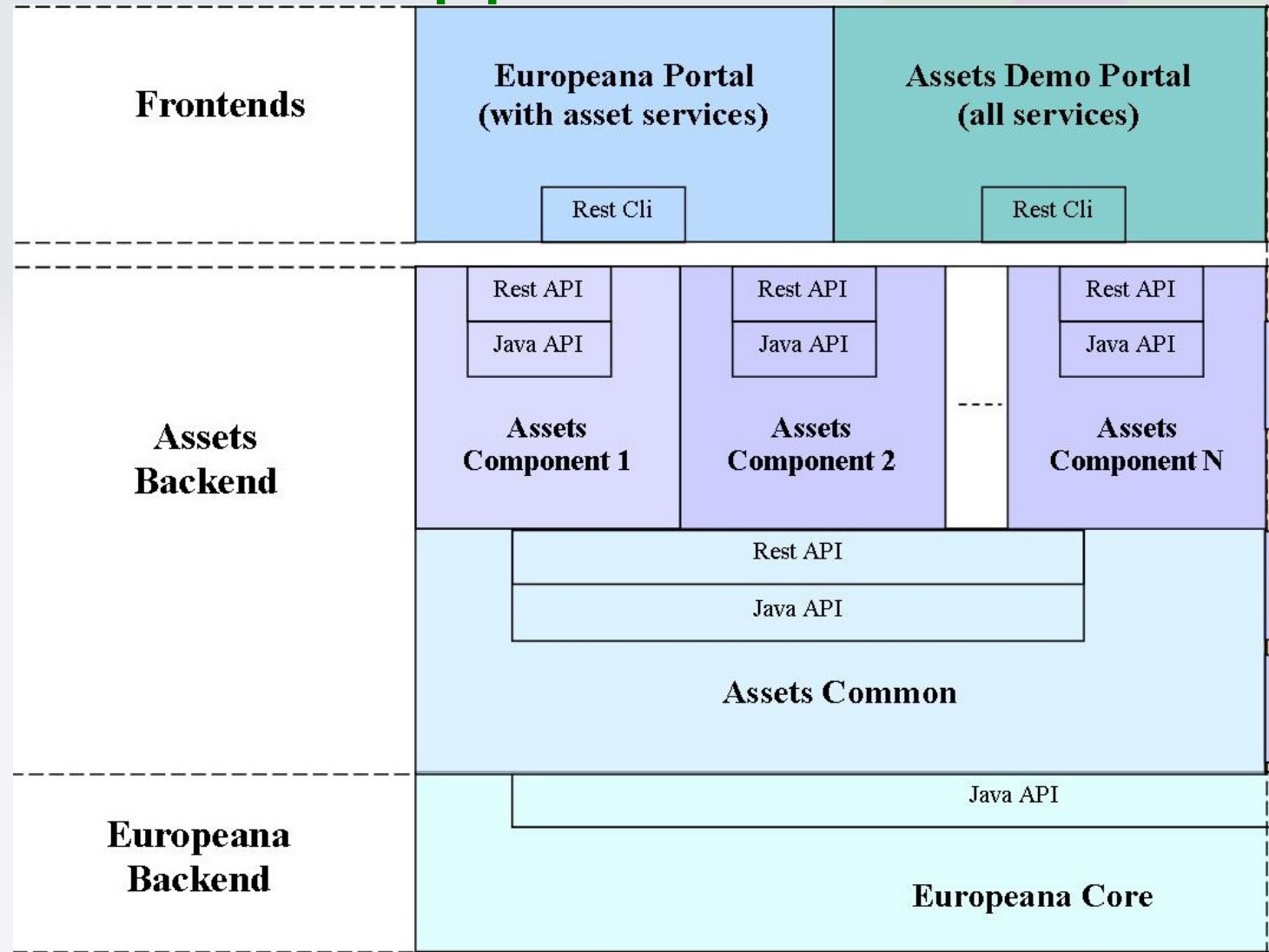
Making Europe's
cultural heritage
more accessible
& usable

- Improve the **Accessibility** and **Usability** of
- Provide new **Services** for
- Provide new **Multimedia Content** to
- **Showcase** for services to be integrated in



europeana

ASSETS Application Architecture



Community Services

- Community services aimed at supporting this **information exchange**
- **Composition of new content** by combining existing and/or new digital objects
- **Selective dissemination** of events to communities that have expressed interest in those
- **Personalisation** of search results based on the specific user/community preferences



content creation by re-use

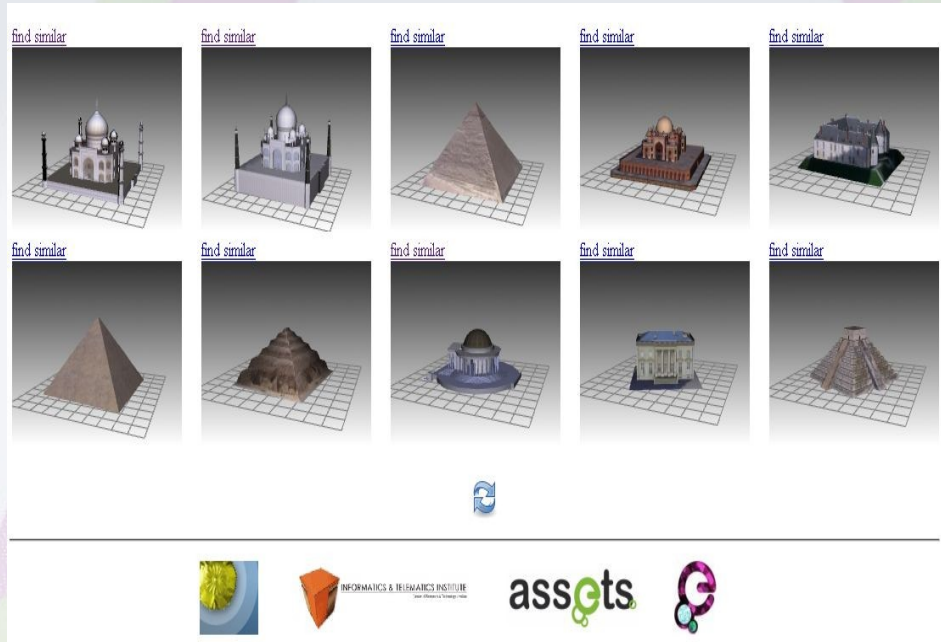
**taxonomy-based
notification**

personalisation

Thoughtlab demonstrations

Image Similarity Search

3D Similarity Search



Achievements

- Implementation and Integration of **BM25F ranking function** inside Solr
- **Retrieval** of the ranking results from the Europeana index
- Integration of the **query log analysis** within MongoDB
- **Ready** for being integrated in portal
- Paper accepted for publication on **TPDL 2011**

assets.

WP2.1: Ingestion

Fabrizio Sebastiani

Consiglio Nazionale delle Ricerche, Italy

ASSETS 1st Year Review – Luxembourg, June 10, 2011

Structure + Main Objectives of the WP

- ▶ The stated objective of WP2.1 “Ingestion” is to implement services allowing to automatically enrich metadata records in a way that facilitates the searching and browsing experience
- ▶ The three metadata enrichment services are
 - ▶ A metadata **cleaning** service (T2.2.1)
 - ▶ A service for the automatic **extraction** of information from metadata records (T2.2.2)
 - ▶ A service for the automatic **classification** of metadata records (T2.2.3)
- ▶ Each of the three services is going to be implemented via supervised **learning** techniques: a general-purpose learning algorithm learns to enrich metadata records from a small set of example metadata records manually enriched by the CPs.

Work carried out in the 1st year

For each of the 3 services the following tasks were carried out:

1. Requirements specification, following the official template of the Europeana Danube release;
2. Definition of use cases;
3. Definition of APIs;
4. Specification of ESE-based XML schemas for training data;
5. Provision of annotation guidelines to the CPs;
6. Implementation of enrichment (T2.1.2 and T2.1.3) services;
7. Actual enrichment of ASSETS and Europeana metadata records.

Cleaning

- ▶ Cleaning has been substantially downsized with respect to what was specified in the proposal:
 - ▶ Feedback from CPs has revealed that their metadata do not exhibit the “noise” that had been foreseen in the proposal.
 - ▶ Therefore, the CPs could not generate a reference dataset for cleaning, and no model for cleaning could thus be trained.
- ▶ Corrective action:
 - ▶ Part of the original effort devoted to cleaning has been reallocated to the extraction / classification services, which require additional effort due to the complexity of the Europeana infrastructure.

Extraction

- ▶ We have used a learning algorithm based on **conditional random fields**, on which we had gained substantial experience in other projects (e.g., knowledge extraction from medical records).
- ▶ We have trained extraction models and run test experiments on the annotated datasets provided by the ASSETS CPs:

CP	Language	# of records	# of concepts	Experimental protocol	F_1^{μ}
INA	French	10,000	3 (a)	10-fold X-validation	.735
Albeniz	Spanish	75	5 (b)	leave-one-out	.466
Total		10,075			

a = Person, Organization, Location

b = Person, Organization, Location, Musical Composition, Award

- ▶ The experiments show that the accuracy is pretty good once the system is trained on a sufficiently large training set.

Extraction (cont'd)

- ▶ We have applied the extraction model trained on INA data on another non-annotated dataset (101,356 items), plus five other datasets from Europeana CPs.

Dataset	Language	# of records
Ag_FR_MCC_memoireSAP	French	400,000
Ag_FR_MCC_branly	French	265,000
L_FR_NatLib_gallica_periodiques_fascicules_d	French	600,000
Ag_FR_MCC_joconde	French	215,000
Ag_FR_MCC_memoireSAP	French	400,000
Ag_FR_MCC_rmn	French	288,000
Total		1,768,000

- ▶ Given that these data are not manually annotated, it was not possible to evaluate accuracy quantitatively. The automatically annotated data are available for anecdotal evaluation.

Classification

- ▶ We have used a learning algorithm based on **hierarchical boosting** technology, on which we had obtained substantial experience in other projects (e.g., classifying medical discharge reports).
- ▶ We have trained classification models, and run experiments, on the annotated datasets provided us by the ASSETS CPs:

CP	Language	# of records	# of categories	Experimental protocol	F_1^μ
INA	French	10,000	48	10-fold X-validation	.647
INA	French	811	176	leave-one-out	.661
INA	French	862	308	leave-one-out	.537
INA	French	891	73	leave-one-out	.852
LIBERIS	Greek	6,104	6	10-fold X-validation	.667
ANSC	Italian	15,559	522	10-fold X-validation	.465
ALBENIZ	Spanish	75	7	leave-one-out	.842
HASC	Greek	1,665	32	10-fold X-validation	.424
FLM	Italian	786	4	leave-one-out	.993
FLM	Italian	10	4	leave-one-out	.435
Total		36,763			

Classification (cont'd)

- ▶ We have further trained classification models, and run experiments, on 3 among the largest datasets provided by Europeana CPs.

CP	Language	# of records	# of classes	Experimental protocol	F_1^μ
DeutscheFotothek	German	1,097,321	1,999	10-fold X-validation	.632
DeutscheFotothek	German	529,482	220	10-fold X-validation	.744
landesarchiv	German	10,407	2,442	10-fold X-validation	.262
Total		1,637,210			

- ▶ We also automatically classified 55,458 unlabeled “landesarchiv” records and 101,356 unlabeled INA records, which are available for anecdotal evaluation.

Achievements

CP	Task	# of processed records	total # of records	%
ASSETS	Extraction	111,431	68.7%	162,044
ASSETS	Classification	138,119	85.2%	162,044
	Total	148,194	91.4%	162,044
Europeana	Extraction	1,768,000	11.7%	15,009,060
Europeana	Classification	1,692,668	11.2%	15,009,060
	Total	3,460,668	23.0%	15,009,060

After M12

- ▶ Development of prototypes (due at M16):
 - ▶ completing the integration of our code into the ASSETS services;
 - ▶ logging + definition of the ingestion log API;
 - ▶ integrating the services into the ingestion workflow;
 - ▶ migrating from ESE to EDM.

Thank you for your attention. Questions?



Data from ASSETS CPs

CP	Cleaning	Extraction	Classification
INA	0	10,000	12,564
Albeniz	1	75	75
CVCE	0	17	13
Deutsche Welle	12	22	21
FLM	0	20	796
Liberis	0	0	6,104
ANSC	0	0	15,559
HASC	0	0	1,665

assets.



WP2.3

Digital Preservation

Luigi.Briguglio @ ENG.IT &

Andrew.Lindley @ AIT.AC.AT

Luxembourg, June 10th 2011

Presentation Plan

- Preservation in ASSETS
- Risk Management
- Normalization
- Notification

Preservation in ASSETS – I

“Europeana is not so much a portal characterised by sheer volume, ... but the core agenda of our endeavour is to make rich data and functionality available on an API basis.”

Doerr, Gradmann, Hennicke, Isaac, Meghini, van de Sompel, “The Europeana Data Model (EDM)”



Making Europe's
cultural heritage
more accessible
& usable

- Main objective of ASSETS is to provide new **services** through **APIs** for improving **accessibility and usability** of



- Those features continuously **risk** to be corrupted by **events** and for this reason it is important to include a **long-term** perspective in the development activities

Preservation in ASSETS - II

- Instead, during the activities of first year, **ASSETS** has identified the following needs:
 - **Tracking changes** on digital objects and metadata
 - Processing metadata by considering “**aging-related errors**”
 - Common **Notification** models
- Those are some concrete examples of needs which can be supported by **OAIS-based** solutions, such as the ASSETS **Digital Preservation Services** aims to do.

Preservation in ASSETS - III



Digital Preservation Services

- Estimate **Preservation Risks** for data and provide **Recommendations**
- Report, Notify and Track **Impacting Events**
- Enact **Preservation Plans**

Risk Management

Notification

Normalisation

Risk Management

Objectives

- content classification / collection profiling
- risk analysis and rule based preservation plan recommendations
- preservation watch

„The services aims at mitigating the risk of digital obsolescence by providing risk management reports to content providers“



Risk Management

achievements 1/2

- **system design** and implementation
 - use-case, requirements, concepts and domain objects, evaluation of technology stacks, API definition, design and proof of concept implementation.
- preservation watch
 - user defined risk-models and unified properties
 - adapted knowledge sources Pronom, DBPedia, Freebase
 - semi-automated property evaluation



Risk Management

achievements 2/2

- KPI - executed **key performance indicator #4** through the ASSETS preservation infrastructure



- ran on the entire metadata collection of **Europeana: 15M**
- provided reports on properties in the area of
 - provenance, accessibility and context
 - field population, language distribution, date dissemination,...
 - quality: **0,43% broken object links**



- ran on the entire collection of **ASSETS contents: 730K**
- identification of almost of them
- only 264 “NotIdentified”: **0,04%**



Normalisation



Objectives

- wrapping of **existing tools** through **standardized preservation operations**
- administration and **deployment** of preservation services
- execute **workflows** of i..n preservation services on a specific digital object or a given collection of objects.

„Based on the results of the risk management analysis, the service can automatically perform a normalization strategy on the provider’s collection.“



Normalisation

achievements 1/2

- **system design** and implementation
 - evaluation of technology stacks (from legacy JBoss and Enterprise Java to OSGi / Karaf, iPojo and Maven)
 - API and domain object definitions
 - decoupling of existing complexities and creation of customized components (e.g. event driven service registry, command line interface, key value data store)
- OPF (Open Planets Foundation) **preservation services** ported to the Assets environment



Notification



Objectives - I

- Exchange vital knowledge of **change/impacting events** with Data Curators
- **Notification** of Change/Impacting Events are filtered and processed by adopting **rules and classifications**
- And that allows to generate informational/warning alerts for delivering/exchanging knowledge to **interested actors** (which can then properly re-act)



Notification



Objectives - II

- By **tracking** changes/events for specific contents, it is possible to have further “**metadata**” which could enrich description of DLObjects and improve search results and support for decision-making on preservation plans.

Notification



Achievements

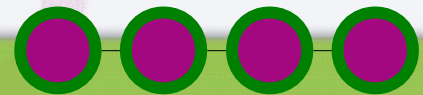
- **Event Reporting & Classification** - Changes and Events are **represented/reported** by terms (**topics of interest**) which are classified in a hierarchical structure (i.e. a **taxonomy**).
- **Selective Notification** - Data Curators **express their interest** for receiving notification for specific changes/events based on their **own capabilities and skills**.



Thanks for the kind attention

Questions

?



The logo for 'assets' features the word in a bold, lowercase, sans-serif font. The letter 'e' is stylized with a green and purple striped pattern and a small green circle at its base. The period at the end of the word is also a small green circle. The background is white with a large, faint, stylized graphic of a person's head and neck in shades of green and purple.

assets.

Stream 3, first year

Carlo Meghini, CNR ISTI

Stream 3 in ASSETS

- *Stream 3 consists of the activities that involve users:*
 - *content providers:*
 - *WP3.0 Content provision and adaptation*
 - *end users:*
 - *WP3.1 Service user evaluation and assessment*
 - *WP3.2 Community services*

WP3.0 Content provision and adaptation

Objectives

1. To demonstrate the ability of ASSETS services to effectively clean, extract knowledge from and classify metadata
2. To provide high-quality metadata to Europeana

Responsible: CVCE

1st year results

Content analysis, selection and initial provision (MS39@M12)

More details: presentation by Ghislain Sillaume, CVCE

WP3.1 Service user evaluation and assessment

Objective

To validate the ASSETS services by testing them with real users in order to ensure that the services comply with the requirements set by Europeana

Responsible: HASC (EDLF, under formal approval)

1st year results

Evaluation planning and launch

More details: presentation by Anne Marie van Gerwen, EDLF

WP3.2 Community services

Objectives

Development of end-user services:

1. Content creation by re-use
2. Taxonomy-based notification
3. Personalization

Responsible: UPS

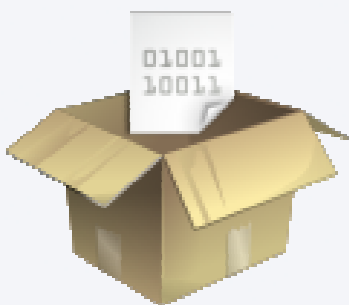
1st year results

Delivery of content creation by re-use (D3.2.2@M12), design of the other services

More details: presentation by Carlo Meghini, CNR

assets.

Stream 3 Content and Users



WP3.0 Content provision and adaptation

Summary

- Premise
- Tasks overview
- Objectives & expectations
- Achievements
- Next Work

- To sum up

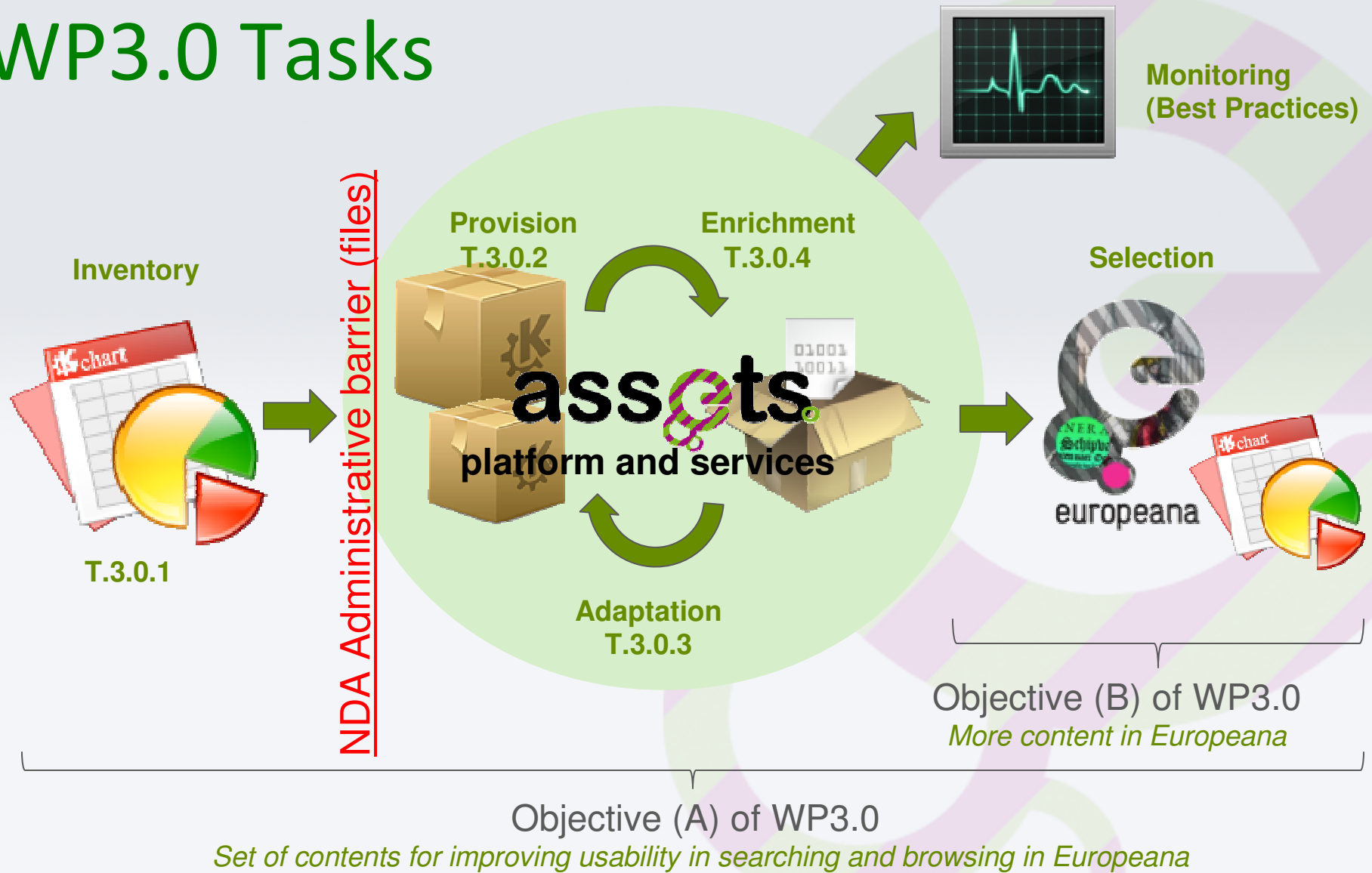
Premise



Not only metadata but also:
multimedia and multilingual
files...

... provided by a set of content providers from different sectors (news, music, history...) and countries having various level of experience regarding metadata management activities and technical skills.

WP3.0 Tasks



Objective (A)

- (A) Provide a relevant and heterogeneous set of contents that will demonstrate the ability of ASSETS services to improve the usability of Europeana in searching and browsing.

Ingestion Services	—————>	Manually annotated metadata + Training sets
Content based Indexing and retrieval	—————>	Large amount of multimedia files
Metadata based Indexing and ranking	—————>	Metadata
Browsing and visual interfaces	—————>	Domain specific taxonomies
Digital preservation	—————>	Heterogeneous formats
Community services	—————>	Domain specific taxonomies

Objective (B)

- (B) Increase the number of high quality contents available in Europeana (in particular audio and video content)



ESE Training Workshop at
Europeana Office

First project that directly use the SIP Creator tool



Matching...

...expectations of content providers...



...and developed services ambitions.



Details - 1st year content provision

ASSETS Content Provision

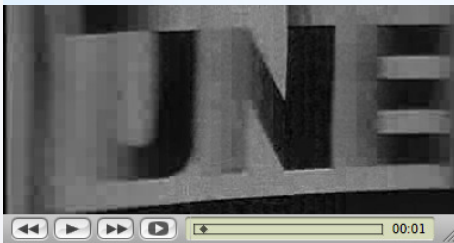
PROVIDERS		Media files (content-based indexing)							Metadata				
Content providers	Short Name	3D Models	Audio		Image		Video		Total	Total	Training First Year	ESE	
			1st Year	in the End	1st Year	in the end	1st Year	in the end	1st year	finally		First Year	In the end
Accademia Nazionale di Santa Cecilia	ANSC		2.997	3.000	0	5.000			2.997	8.000	10.000	21.051	21.051
Centre Virtuel de la Connaissance	CVCE		308	308	8.631	8.631	1.323	1.323	10.262	10.262		23.075	23.075
Deutsche Welle	DW		364	364			408	408	772	772	0	772	772
Dias Publishing Public	DIAS				240.271	240.271	7.842	7.842	248.113	248.113		195.892	303.600
Fondazione Micheletti	FLM				15.790	15.790			15.790	15.790	250	15.790	41.290
Fundaci3n Albeniz	ALBENIZ		301	1.000	37.204	37.204	322	500	37.827	38.704	300	24.234	31.500
Hellenic Archive of Scientific Culture	HASC				5.000	5.000			5.000	5.000		5.004	5.004
Institut National de l'Audiovisuel	INA						3.065	3.065	3.065	3.065	10.000	101.356	101.356
Liberis Publications	LIBERIS								0	0		6.104	15.000
United Nation Educational, Scientific and Cultural Organization	UNESCO	50			212	212			212	212			
Europeana Foundation					60.000	60.000				60.000			
External Content													
Google Warehouse		300											
Carrare		100											
TOTAL		450	3.970	4.672	307.108	372.108	12.960	13.138	324.038	389.918	20.550	393.278	542.648

Sample multimedia content

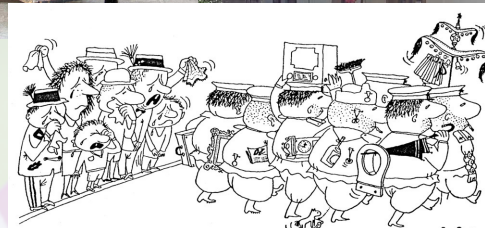
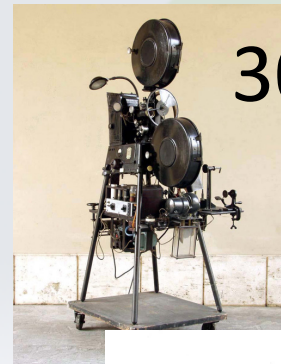
13 000 video files



DW-TV
DEUTSCHE WELLE

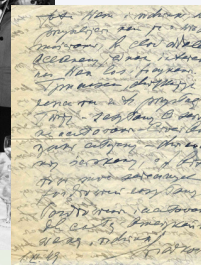


300 000 images



SCHMERZLICHER ABSCHIED

1955



4000 audio files

Next work

- Complete content provision work (20% left).
- Improve the quality of metadata by leveraging on ASSETS services and/or moving to EDM.
- Provide best practices related to non-typical media files and metadata provision.

Thanks for your attention



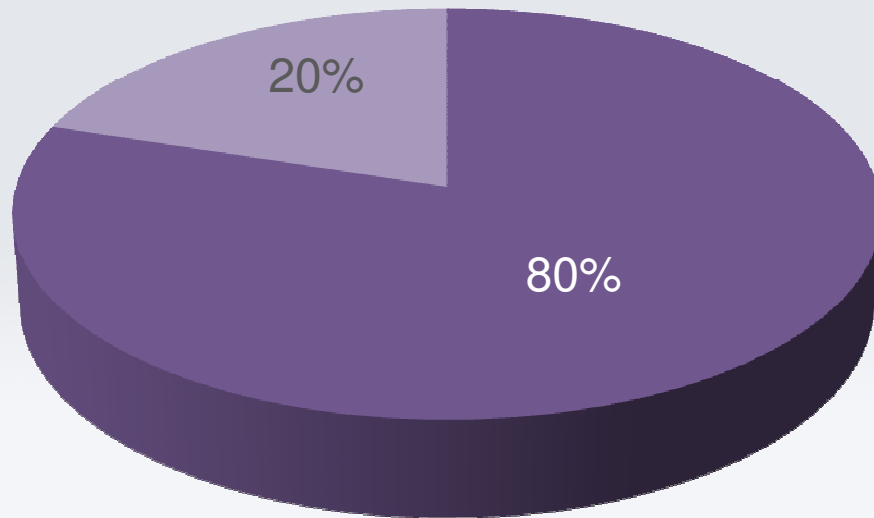
ass@ts

e-mail: ghislain.sillaume@cvce.lu

Skype: ghislain.sillaume

Tel: +352 595920 1

To sum up



- 1st year
- On the end



ASSETS did provide around **400 000 media files** and associated metadata (representing **500 Go of content**).

assets.

WP 3.1:

User Evaluation activities

ASSETS Mid-term review

June 10, 2011

User evaluation activities

Evaluation of the usability of the user interfaces

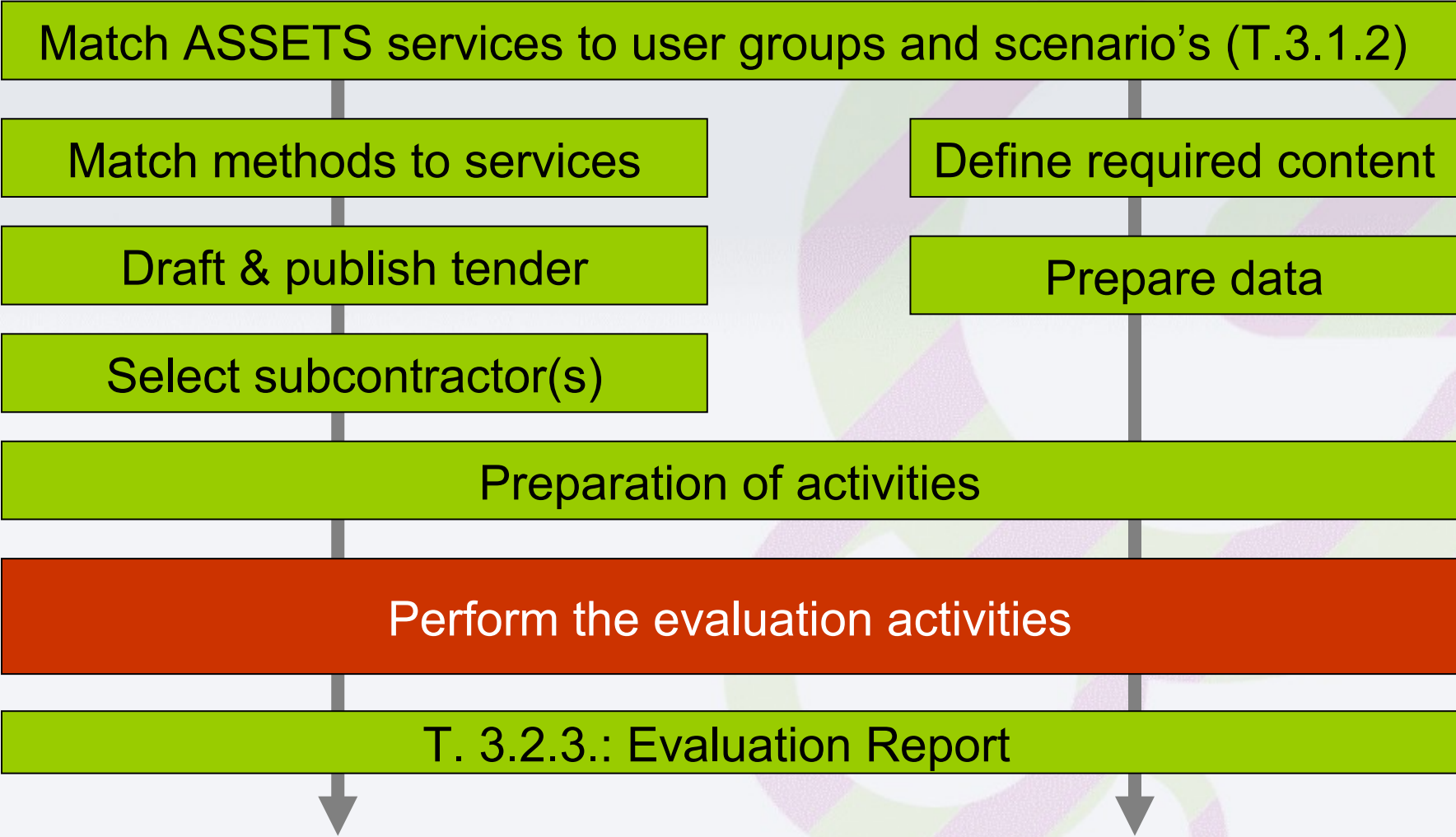
DOW:

- Month 3-22
- Laboratory involvement and experimentation
- Users from different age groups & backgrounds
- Held in at least 3 different European countries
- Alignment with Europeana target user groups

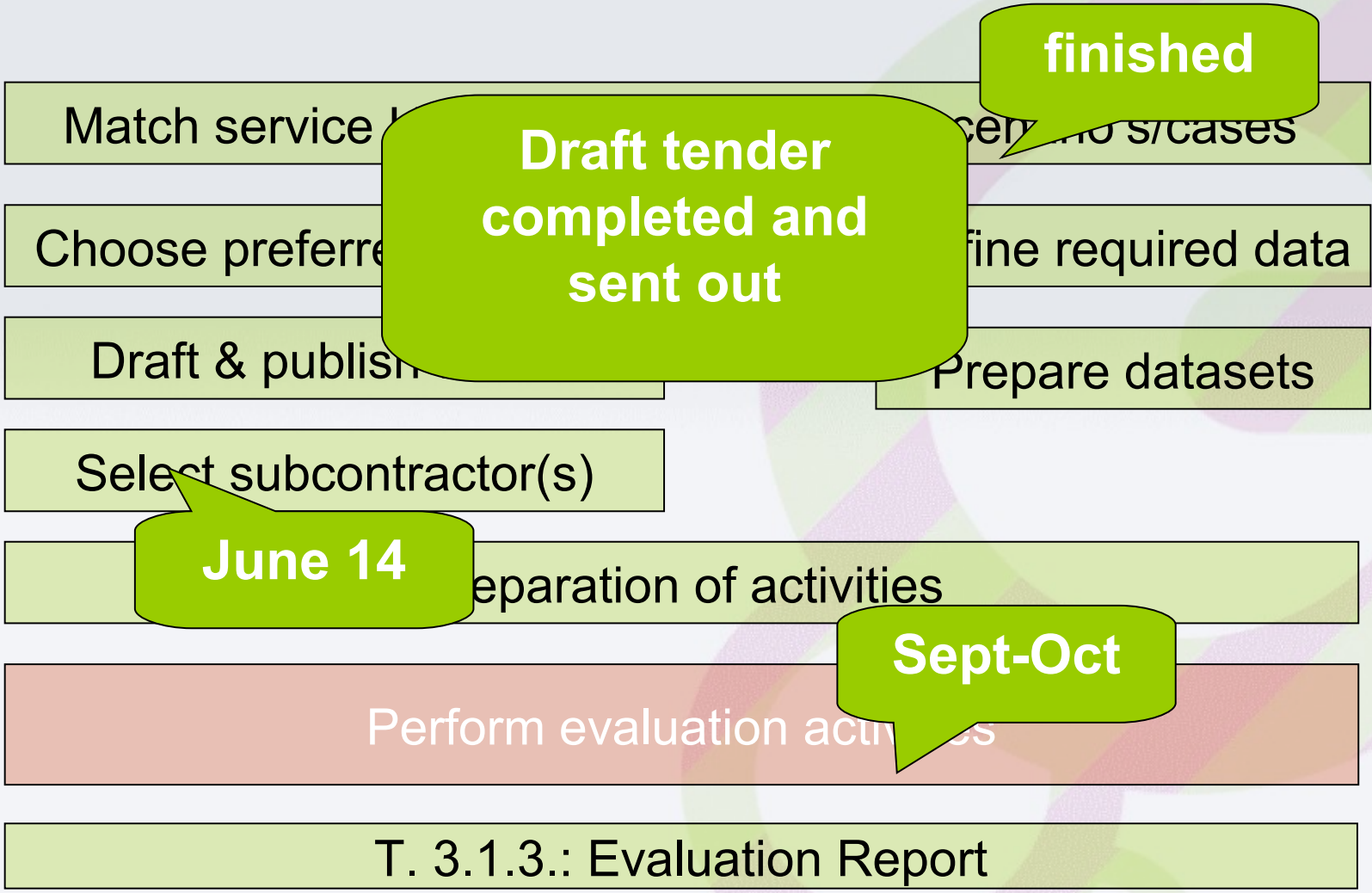
Scope of the task

- Laboratory testing: focus on **end user services**
 - Image based similarity search (T2.2.4)
 - Search recommendations/Post-query processing (T2.2.1)
 - Audio based similarity search (T2.2.6)
 - Video summarisations (T2.2.7)
 - Video similarity search (T2.2.7)
 - 3D based similarity search (T2.2.5)
 - Content creation by re-use service (T3.2.2)
 - Taxonomy based notification service (T3.2.3)
 - Personalisation service (T3.2.4)
- Laboratory testing is outsourced to a contractor
- Services for **ingestion** and **digital preservation**:
 - heuristic (expert) evaluation
 - with ASSETS content providers

Main steps in the process:



Where are we now?



Dependencies and steps after this task:

Results of T. 3.1.2 feed into T 3.1.3:
final reporting of evaluating activities

Before that, preliminary results of evaluation activities are
shared internally with ASSETS developers

assets

WP3.2 Community Services Task 3.2.2 Content creation by re-use

Carlo Meghini, CNR ISTI

Work done in cooperation by ISTI, UPS & MEME Media Lab

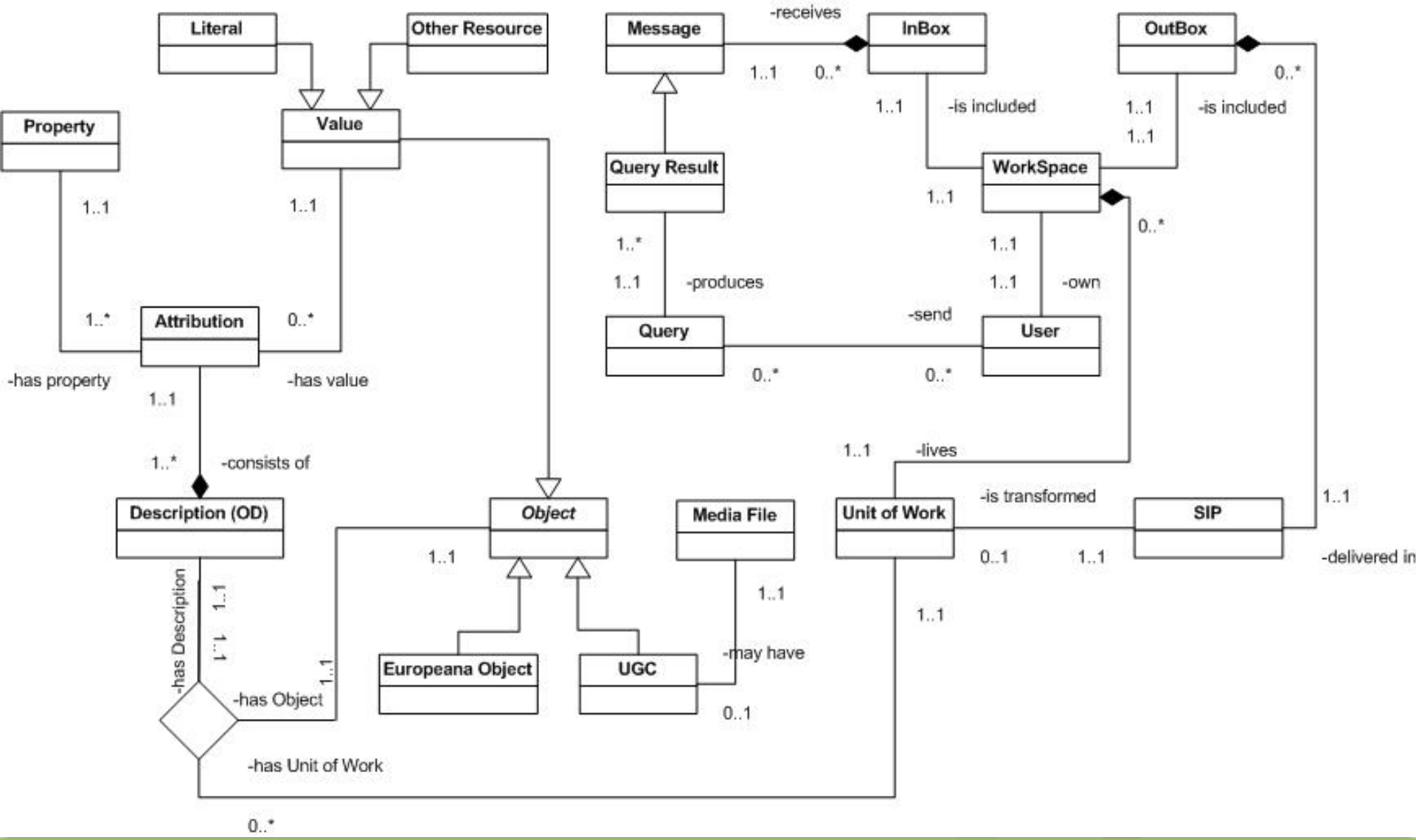
Introduction

- The service offers a generic back-end API, for serving a wide range of specific functionalities concerning user-generated content.
- In the following:
 - requirements
 - conceptual model
 - architecture
 - demo

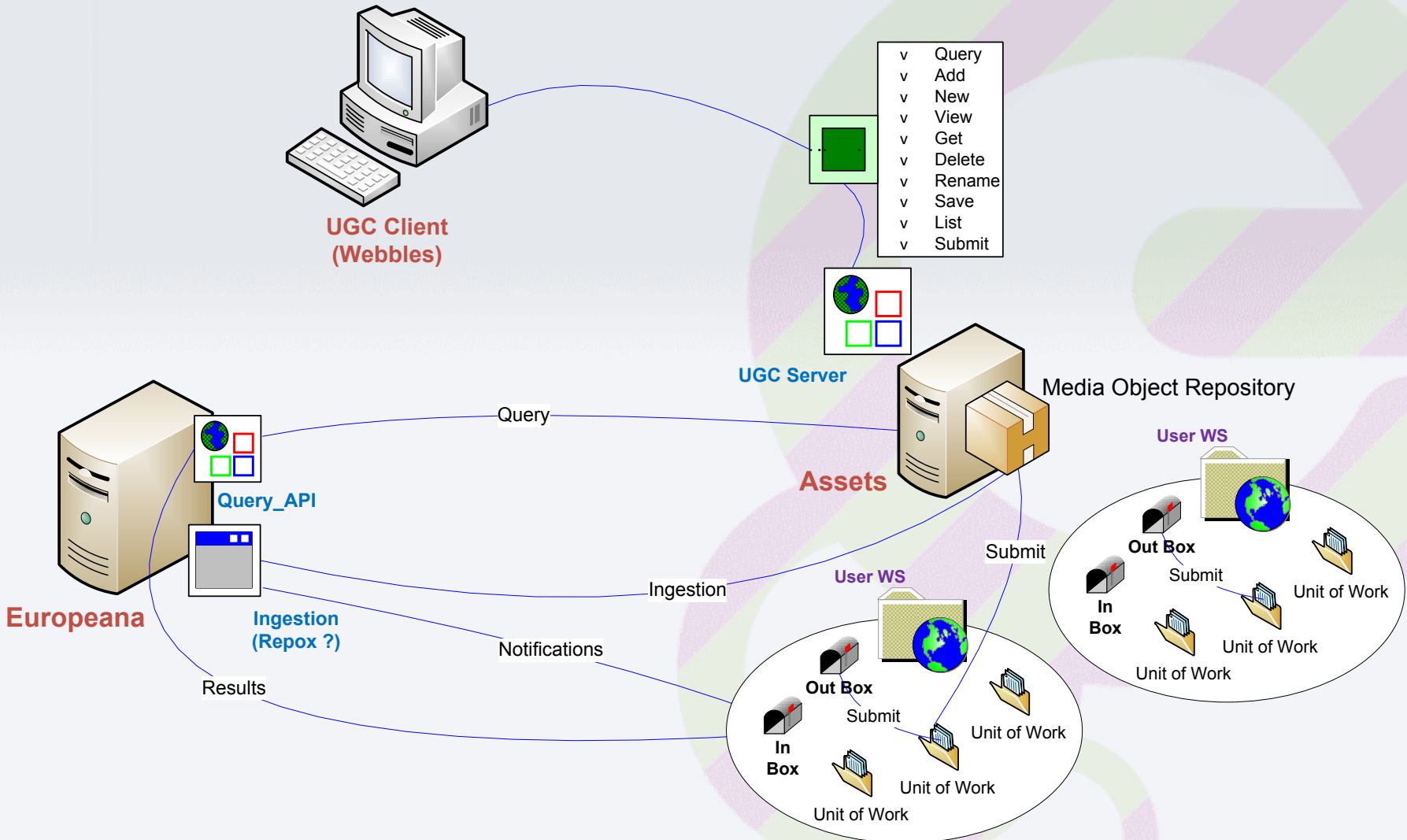
Requirements

- Functional: to allow an **individual** user to
 - create a new object
 - possibly with associated media files
 - part of, or including existing Europeana objects
 - add a new description to an existing object
 - enrich the description of an existing object:
 - add a new field
 - add a new value to an existing field
- Non-functional
 - operations may last a long time
 - interact with Europeana in an asynchronous way

Conceptual Model



Architecture



Demo

Creation of a new object that represents a series of seminars about Renaissance art.

Parts:

- the programme of the seminars, a newly created object with a PDF attachment uploaded from the user disk
- the Europeana object representing Mona Lisa, with a description in Italian.

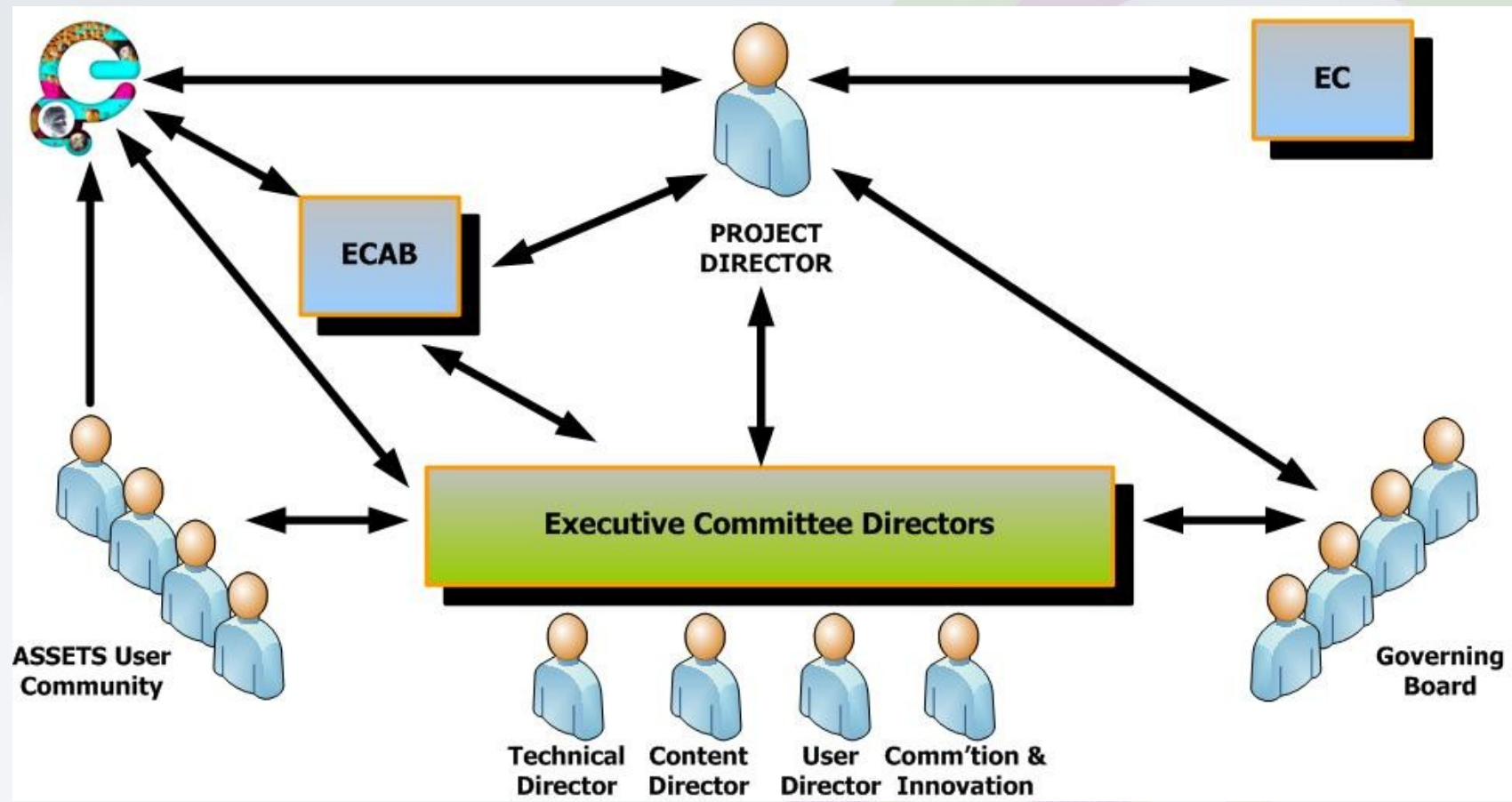
The whole demo takes place in a single Unit of Work, which is saved, then re-opened for submission to Europeana. After submission, the corresponding SIP is shown.

Thank you

- Questions?



ASSETS Management Structure



assets

WP1.1

Dissemination Activities 1st year

Morena Rizzo, Ciaotech Srl

Luxembourg

10th of June, 2011

Overview

- a. Dissemination objectives
- b. Dissemination strategy
- c. Communication tools
- d. Dissemination initiatives
- e. Community aggregation
- f. Synergy with other initiatives

Objectives

- **Raise awareness** and guarantee wide visibility within Europeana initiative and in the overall DL sector
- **Create consensus** and interest
- **Attract potential users/customers** and aggregate a critical mass
- **Share results** with the target sectors

Instrument for the future sustainability of the project results

Overview

- a. Dissemination objectives
- b. Dissemination strategy
- c. Communication tools
- d. Dissemination initiatives
- e. Community aggregation
- f. Synergy with other initiatives

Strategy

- **Communicate** goals, activities and results to a worldwide audience;
- **Adopt different dissemination approaches** according to specific targeted users and needs.

On-line actions:

- E-mail
- ASSETS website
- Use of social networks to promote the project and its activities
- Different Press releases (translated in different languages)
- Articles

Off-line actions:

- Participation in conferences and events, either as speakers or attendees

Reaching a wide visibility and communicate ASSETS goals and results.

Overview

- a. Dissemination objectives
- b. Dissemination strategy
- c. Communication tools
- d. Dissemination initiatives
- e. Community aggregation
- f. Synergy with other initiatives

Communication tools

- Analysis and design of **varied dissemination instruments** differentiated according to:
 - different communication needs
 - various event typologies
 - the project evolution

Look and feel

- **Fully Compliant with Europeana Brand Guidelines**

A large, stylized version of the 'assets' logo is centered on the slide. The letters 'a', 's', 's', and 't', 's' are in a bold, black, lowercase sans-serif font. The 'e' is a large, stylized graphic composed of a green and purple striped circle with a purple ring passing through it. The dot on the 's' is a small green circle.

The logo has the capability to make the project recognizable as it defines its identity for its whole duration. It is used in every document produced within the project context and in every kind of contact to the external environment



assets



Leaflet



Europeana
group

Making Europe's cultural heritage
more accessible and usable

What is ASSETS?

ASSETS stands for Advanced Search Services and Enhanced Technological Solutions for the European Digital Library.

ASSETS is a Best Practice Network co-funded by the CIP PSP Programme to improve the accessibility and usability of Europeana (the European Digital Library platform). The ASSETS Consortium comprises 24 partners including institutions from ten different European countries and Japan, active in the field of cultural heritage and digital libraries. The presence of UNESCO guarantees a worldwide coverage.

Which benefits does ASSETS offer?

ASSETS brings to the forefront of the large scale service implementation and real user context validation innovative technologies allowing:

Multimedia search and retrieval

» ASSETS aims to enhance the search and retrieval services of Europeana.

Semantic browsing

» ASSETS allows users to explore the Europeana portal in an interactive way .

Interface improvements

» ASSETS will deploy interfaces specially designed for browsing multimedia content.

New multimedia content for Europeana

» ASSETS dedicates effort towards increasing the volume of digital content accessible by Europeana portal.

ASSETS is notably addressed to:

- » Cultural Heritage Organizations
- » Citizens/Users
- » Digital Libraries Communities
- » Private ICT players
- » Universities and Research Centres

Interested in ASSETS? Join us!

You'll be one of the early adopters of ASSETS' services and your content will be accessible through the EUROPEANA portal!

For more information please contact us:
m.rizzo@ciaotech.com

ASSETS is co-funded by the European Commission under the ICT Policy Support Programme



www.assets4europeana.eu



Contact us:

www.assets4europeana.eu



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Email: silvia.bui@eng.it

Communication point:
Ciaotech Srl
Ms Morena Rizzo
Email: m.rizzo@ciaotech.com



Engineering Ingegneria Informatica (IT) Coordinator
www.eng.it



Athens Technology Center (GR)
www.atc.gr



AIT Austrian Institute of Technology
Graz (A)
www.ait.ac.at



EXALEAD (FR)
www.exalead.com



Istituto di Scienza e Tecnologie
dell'Informazione, Consiglio
Nazionale delle Ricerche (IT)
www.isit.cnr.it



The European Foundation (EU)
www.european.eu



Batcelona Music and Audio
Technologies (ES)
www.bmat.com



Tecnalia (ES)
www.tecnalia.com



Swedish Institute of Computer
Science (SE)
www.sics.se



Institut National de l'Audiovisuel (FR)
www.ina.fr



Universidad Autónoma de Madrid
(ES)
www.uam.es



Informatics and Telematics Institute
(GR)
www.it.gr



Laboratoire de Recherche en
Informatique (LR) of Université
PARIS-SUD XI (FR)
www.lri.fr



Virtual Resource Centre for Knowledge
about Europe (LU)
www.cce.lu



Deutsche Welle (DE)
www.dw-world.de



Accademia Nazionale di Santa Cecilia
(IT)
www.santacecilia.it



Libertis Publications (GR)
www.libertis.gr



Hellenic Archive of Scientific Culture
(GR)
www.hasc.gr



Dias Publishing Public (CY)
www.diasmedia.com



Fundación Albeniz (ES)
www.albeniz.com



CIAOTECH S.r.l. (PNO Group B.V.)
(IT)
www.ciaotech.com



United Nation Educational, Scientific
and Cultural Organization
www.unesco.org



Fondazione Luigi Micheletti (IT)
www.fondazioneimicheletti.it



MEME Media Lab of the Hokkaido
University (JP)
kml.meme.hokudai.ac.jp



assets consortium

ASSETS is co-funded by the European Commission under the ICT Policy Support Programme



www.as



assets

Advanced Search Service and Enhanced Technological
Solutions for the European Digital Library

Making Europe's
cultural heritage
more accessible

ASSETS is a two-year Best Practice Network co-funded by the CIP PSP Programme to improve the accessibility and usability of Europeana (the European Digital Library platform). The ASSETS consortium comprises 24 partners, including institutions from ten different European countries and Japan, which are active in the field of cultural heritage and digital libraries.

ASSETS Services

Ingestion Services

The unified ingestion toolset allows content providers such as museums, libraries and archives to contribute their content to Europeana in a standardised and effective way. This process will generate enriched, clean and classified metadata, thereby increasing search precision and improving the user's browsing experience. High quality results and enhanced object previews will increase the search recall and user satisfaction.



Community Services

ASSETS provides the possibility to exchange information between portal users and the digital library, offering advantages to both. Users can enrich the library's resources with the results of their work, and the libraries will improve the description of their objects. The added value of these services consists in the creation of customised content, knowledge extraction and recombination, and information presentation in line with user preferences.



Indexing & Ranking Services

ASSETS offers advanced indexing and ranking techniques for the efficient and effective retrieval of multimedia objects. Indexing functionalities are provided for image/video/audio/3D formats, which offer the possibility to perform multimedia-based similarity searches. The feedback from Europeana users improve the quality and precision of the retrieved results.



Browsing & Characterization services

This allows users to search, browse, navigate and view media content with the aim of enriching the user experience and offering customised search results. Semantic links are established between the different media objects in order to improve access to interesting information. The users' behaviour is exploited to enhance the presentation of search results.



Digital Preservation Services

ASSETS provides a set of services which prepare the ground for digital preservation:

- Risk Management Service: identification and monitoring of potentially occurring events.
- Notification Service: track, report, notification, communication and management procedures for events that could impact on long term content access.
- Normalization Service: enact preservation plans.



Get involved in the ASSETS Community!

ASSETS 4 Cultural Heritage Institutions

For organisations holding cultural or scientific content, such as museums, archives or foundations, there are various benefits to be had by making their content available to ASSETS and Europeana. These include support for metadata enrichment, international visibility, increased interest for an organisation's website, knowledge transfer and networking opportunities with leading domain experts. Contact us!



ASSETS 4 End Users

Tourists, digital artists, students, researchers or European citizens interested in Europe's cultural heritage can enjoy an enhanced search experience by registering with ASSETS and contributing to improvements to its services, enriching and sharing content in Europeana and providing feedback on ASSETS services.



ASSETS 4 Universities/ Research Centers

Researchers and ICT developers might be interested in gaining a deeper insight into the software services ASSETS is developing for Europeana. In order to find out more about the technologies used for improving access to Europe's cultural and scientific heritage, please contact us!



ASSETS 4 Public Administrations

For educational institutions, government bodies or local authorities interested in enhancing tourism infrastructure, we offer high visibility for valuable digitised content. Europeana and ASSETS services are great resources for research and learning purposes. Europeana currently links to more than 14 million items!





assets



Advanced Search Service and Enhanced Technological Solutions for the European Digital Library

ASSETS is a two-year Best Practice Network co-funded by the CIP PSP Programme to improve the accessibility and usability of Europeana (the European Digital Library platform).



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Get involved in the ASSETS Community!

Engineering Ingegneria Informatica (IT) www.eng.it	AIT Austrian Institute of Technology GmbH (AT) www.ait.ac.at
Athens Technology Center (GR) www.atc.gr	Istituto di Scienza e Tecnologie dell'Informazione, Consiglio Nazionale delle Ricerche (IT) www.isti.cnr.it
EXALEAD (FR) www.exalead.com	Barcelona Music and Audio Technologies (ES) www.bmat.com
The Europeana Foundation (EU) www.europeana.eu	Swedish Institute of Computer Science (SV) www.sics.se
Tecnalia (ES) www.tecnalia.com	Universidad Autónoma de Madrid (ES) www.uam.es
Institut National de l'Audiovisuel (FR) www.ina.fr	Laboratoire de Recherche en Informatique (LRI) of Université PARIS-SUD XI (FR) www.u-psud.fr
Informatics and Telematics Institute (GR) www.itl.gr	Deutsche Welle (DE) www.dw-world.de
Virtual Resource Centre for Knowledge about Europe (LU) www.cvce.lu	Libris Publications (GR) www.libris.gr
Accademia Nazionale di Santa Cecilia (IT) www.santacecilia.it	Dias Publishing Public (CY) www.diasmedia.com
Hellenic Archive of Scientific Culture (GR) www.hasc.gr	CIAOTECH S.r.l. (PNO Group B.V.) (IT) www.ciaotech.com
Fundación Albeniz (ES) www.albeniz.com	Fondazione Luigi Micheletti (IT) www.fondazionemicheletti.it
United Nation Educational, Scientific and Cultural Organization www.unesco.org	
MEME Media Lab of the Hokkaido University (JP) km.meme.hokudai.ac.jp	

Register to ASSETS and discover more online services and benefits!

Contact us:

www.assets4europeana.eu

Project coordinator:
Engineering SpA
Ms. Silvia Boi
Email: silvia.boi@eng.it

Communication point:
Ciaotech Srl
Ms. Morena Rizzo
Email: m.rizzo@ciaotech.com

www.assets4europeana.eu



Poster

Advanced Service Search and Enhancing Technological Solutions for the European Digital Library

Welcome Why ASSETS Activities & Impact Partners Get Involved! What's New Wiki Documents Developers

Welcome

ASSETS is a 2 year project- co-funded by the CIP Policy Support Programme- which aims to improve the usability of Europeana by developing, implementing and deploying software services focused on search, browsing and interfaces. ASSETS strives also to make more digital items available on Europeana by involving content providers across different cultural environments.

ASSETS is notably addressed to: Museums/Galleries, Libraries, Archives, Research & Education Organizations, Cultural Portals, Publishers, Private companies active in digital libraries.

Discover how to get involved according to your profile and be one of the early adopters of ASSETS services



Sign In
You are signed in as Silvia Boi

Services outline

Overview



ASSETS will provide Europeana with software services, applicable to all digital libraries:

- Ingestion for metadata cleaning, enrichment and classification;
- Indexing and Ranking algorithms for improved result;
- Browsing and Characterisation of multimedia objects;
- Digital Preservation for planning and guaranteeing long-term access and usability of content;
- Community for supporting user generated content.

Ingestion



The unified ingestion toolset allows content providers such as museums, libraries and archives to contribute their content to Europeana in a standardised and effective way. This process will generate enriched, clean and classified metadata, thereby increasing search precision and improving the user's browsing experience. High quality results and enhanced object previews will increase the search recall and user satisfaction.

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Digital Preservation



ASSETS provides a set of services which prepare the ground for digital preservation:

- **Risk Management:** identification and monitoring of potentially occurring events;
- **Notification:** track, report, notification, communication and management procedures for events that could impact on long term content access;
- **Normalization:** enacts preservation plans.



Overview

- a. Dissemination objectives
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- c. Communication tools
- d. Dissemination initiatives
- e. Community aggregation
- f. Synergy with other initiatives

Dissemination actions

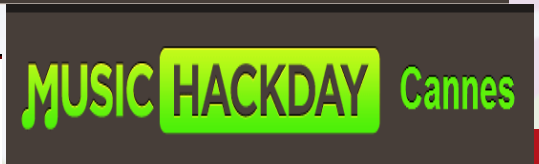
Initiatives	numbers
Press releases	35 online magazines
Conferences (Awareness raising)	More than 50
Conferences (Speaker)	5
Papers	19
Contacted Organisations	~ 130
Internal workshops	10

Date	Conference or Book	Title	Partner involved
07/12/10	SocPar 2010, Intl. Conference on Soft Computing and Pattern Recognition,	<i>TIGER: Querying Large Tables through Criteria Extension, Y.Pitarch D.Laurent P.Poncelet N.Spyratos</i>	UPS
20/01/11	GCOE Workshop	<i>Preference Queries over Large Data Tables, N.Spyratos</i>	UPS
20/01/11	7th Italian Research Conference on Digital Libraries	<i>Taxonomy Based Notification Service for the ASSETS Digital Library Platform J.Yang, T.Sugibuchi, N.Spyratos,</i>	UPS
22/03/11	International Journal of Digital Libraries,	<i>A Data Model for Digital Libraries C.Meghini, N.Spyratos, J.Yang, ,</i>	UPS, CNR
29/03/2011	WWW'11	<i>Efficient Diversification of Search Results using Query Logs (poster)</i>	CNR
29/03/2011	WWW'11	<i>Recommendations for the Long Tail by Term-Query Graph (poster)</i>	CNR
13/06/11	CBMI2011	<i>"Efficient Video Summarization and Retrieval Tools" in Special Session on Indexing and Retrieval of Multimedia Cultural Heritage Objects</i>	UAM
10/09/2011	Berlin, TPDL 2011	<i>Paper proposal on User Generated Content</i>	CNR
15/09/2011	Berlin, TPDL2011	<i>Paper proposal on User Generated Content</i>	EDLF
26/9/11	TPDL 2011	<i>Joint paper submitted</i>	AIT
18/10/2011	SPIRE'11	<i>International Symposium on String Processing and Information Retrieval</i>	CNR
01/11/11	iPres 2011	<i>Paper submission planned</i>	AIT
15/12/2011	ICDM'10	<i>Document Similarity Self-Join with MapReduce</i>	CNR
Sept. 2010,	The 14th European Conference on Research and Advanced Technology for Digital Libraries (ECDL'10)	<i>Modelling Digital Libraries Based on Logic, , C.Meghini, N.Spyratos, T.Sugibuchi,</i>	UPS, CNR
Sept 2010	4th International Workshop on Personalized AAccess, Profile Management, and Context Awareness in Databases (PersDB 2010, in conjunction with VLDB 2010),	<i>Combining Preference Relations: Completeness and Consistency, N.Spyratos, C.Meghini</i>	UPS, CNR
	International Conference on Theory and Practice of Digital Libraries 2011	<i>Design, implementation and evaluation of a user generated content</i>	SICS
	Advances in Intelligent Information Systems, Z.W. Ras and L.-S. Tsay (eds) Springer Studies in Computational Intelligence Vol. 265. Springer Verlag 2010		UPS

Italian Information Retrieval Workshop 2011



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Política Sociedad Internacional Cultura Especiales Fotos Solidari@s hoyMotor Lo + visto Webcams Salud

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Estás en: diariovasco.com > Noticias Más Actualidad > Noticias Cultura > Tecnalia participa en el proyecto de mejora de la Biblioteca Digital Europea

Tecnalia participa en el proyecto de mejora de la Biblioteca Digital Europea

ASSETS: Καινοτόμο ερευνητικό έργο για την βελτίωση της λειτουργικότητας της Ευρωπαϊκής Ψηφιακής Βιβλιοθήκης Europeana

Τετάρτη, 17 Νοεμβρίου 2010



Η ATC συμμετέχει σε κοινοπραξία για την υλοποίηση του ερευνητικού έργου and Enhancing Technological Solutions for the European Digital Library), το 55...



Focus

Ανακαλύπτοντας τη γνώση και τον κόσμο

Τρίτη 7 Ιουνίου 2011 Quiz | Fora | Κεντρική σελίδα > Τεχνολογία > ASSETS: Για τη βελτίωση της Ευρωπαϊκής...

- > Login
- > Εγγραφή
- Επικαιρότητα
- Αναρωτηθήκατε ποτέ;
- Απόψεις
- Πορτραίτα
- Προτάσεις
- Φάκελοι

Αναλυτική παρουσίαση άρθρου

TEΧΝΟΛΟΓΙΑ

ASSETS: Για τη βελτίωση της Ευρωπαϊκής Ψηφιακής Βιβλιοθήκης

Τρίτη 8 Ιουνίου 2010 15:23 [Σχόλια: 0, Hits: 1]

24 συνεργάτες από 10 διαφορετικές χώρες συναντήθηκαν στη Ρώμη για την έναρξη του ASSETS (Advanced Service Search and Enhancing Technological Solutions for the European Digital Library), ενός προγράμματος που συγχρηματοδοτείται από την Ευρωπαϊκή Επιτροπή.

assets

computer active Κυκλοφορεί... και δεν αφήνει απορίες.

Computer active

07.06.2011 FORUM ΑΝΟΙΧΤΗ ΓΡΑΜΜΗ ΕΠΙΚΟΙΝΩΝΙΑ SITEMAP

ΙΟΥΝΙΟΣ 2011

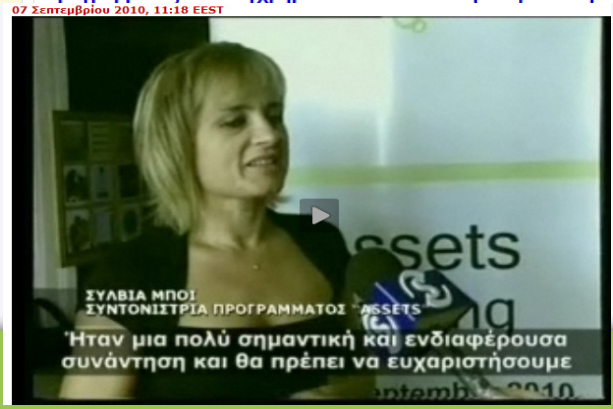
ΕΙΔΗΣΕΙΣ

ASSETS: Για τη βελτίωση της Ευρωπαϊκής Ψηφιακής Βιβλιοθήκης

8-7-2010 [Σχόλια:0]

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ASSETS – Netzwerk zur Verbesserung der europäischen digitalen Bibliothek Europeana

ASSETS ist ein auf zwei Jahre angelegtes Best Practice Netzwerk zur Verbesserung der Nutzerfreundlichkeit der europäischen digitalen Bibliothek Europeana

Planned ASSETS Initiatives- 2011

- **CBMI 2011, Madrid, June 2011**
 - ASSETS Special session on Indexing and Retrieval of Multimedia Cultural Heritage
- **TPDL 2011, Berlin, September 2011**
 - ASSETS sponsor
 - 2 papers submitted
- **SPIRE 2011, Pisa, October 2011**
 - ASSETS sponsor
 - ASSETS organises a co-located events: ASSETS workshop where preliminary results will be presented.
 - Speakers from ASSETS and key-note speakers



Planned ASSETS Initiatives- 2012

- ASSETS Workshop in Luxembourg, Feb 2012
- « Digital innovation for culture, higher education & research ». Targeted to 60 attendees

With the collaboration of CVCE

- ASSETS International Workshop at UNESCO premises in Paris, mid March 2012
- Huge event, targeted to more than 100 attendees

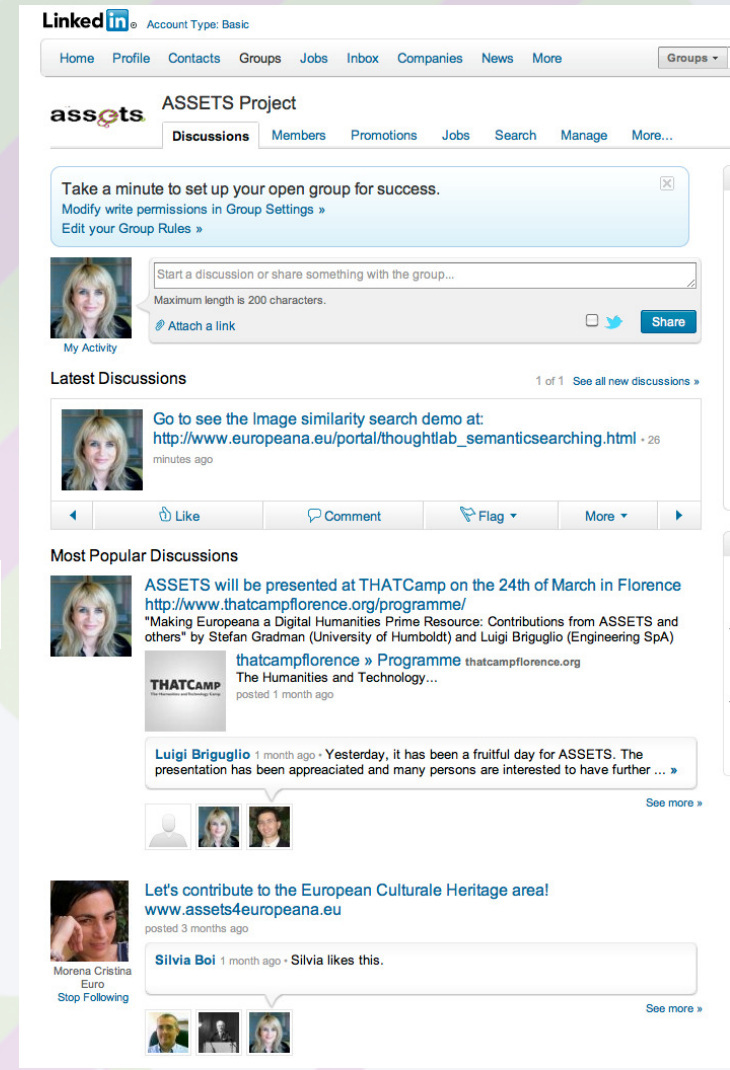
With the collaboration of UNESCO and UPS

Overview

- a. Dissemination objectives
- b. Dissemination strategy
- c. Communication tools
- d. Dissemination initiatives
- e. Community aggregation
- f. Synergy with other initiatives

Community Aggregation (a)

- Contacted around **130 relevant organisations** and experts:
 - cultural organisations
 - content providers,
 - DL professionals,
 - students, citizens, tourists, etc.
 - ICT company and research centre
- Creation of the **ASSETS**  **group** as first step to aggregate Community members
 - **89 members** (39 internal to ASSETS + 60 external)



The screenshot shows the LinkedIn interface for the 'ASSETS Project' group. At the top, there's a navigation bar with 'Home', 'Profile', 'Contacts', 'Groups', 'Jobs', 'Inbox', 'Companies', 'News', and 'More'. Below this, the group name 'ASSETS Project' is displayed with tabs for 'Discussions', 'Members', 'Promotions', 'Jobs', 'Search', 'Manage', and 'More...'. A blue notification box prompts the user to 'Take a minute to set up your open group for success.' with links to 'Modify write permissions in Group Settings' and 'Edit your Group Rules'. Below the notification is a text input field for starting a discussion, with a character limit of 200 and an 'Attach a link' option. The 'My Activity' section shows a recent discussion titled 'Go to see the Image similarity search demo at: http://www.europeana.eu/portal/thoughtlab_semanticsearching.html' posted 'minutes ago'. The 'Latest Discussions' section shows a post from 'THATCAMP' about 'ASSETS will be presented at THATCamp on the 24th of March in Florence' with a link to the program page. Below this is a comment from 'Luigi Briguglio' stating 'Yesterday, it has been a fruitful day for ASSETS. The presentation has been appreciated and many persons are interested to have further...'. The 'Most Popular Discussions' section shows a post from 'Morena Cristina Euro' titled 'Let's contribute to the European Culturale Heritage area!' with a link to 'www.assets4europeana.eu'. Below this is a comment from 'Silvia Boi' stating 'Silvia likes this.'.

- **ASSETS User Community** at: www.assets4europeana.eu
- **Registration Form** to collect members info.
- **Members can access to:**
 - Technical documentation
 - Tools, DEMOs
 - Communication Material
 - Invitation to ASSETS events

Currently we are waiting for the approval of the 1^o year deliverables to officially open the ASSETS Web Community

Welcome Why ASSETS Activities & Impact Partners Get Involved!

**Are you interested in ASSETS?
Join the ASSETS community!**

Welcome Why ASSETS Activities & Impact Partners Get Involved!

1 - Organization details

Name of organization: Name of Department/ Institute/ Laboratory/ Unit:

Nation: Address:

Web site: Organisation email address:

Phone number:

Type of organization: (Please select your type of organization)

Public Private

University/Research center University/Research center

Education establishment Education establishment

National/ Regional/ Local authority Cultural Heritage Organization/ Association/Foundation

Governmental body Museum/Archive/Gallery/Library

Cultural Heritage Organization/ Association/Foundation Tourism Promotion

Museum/Archive/Gallery/Library Enterprise

Tourism Promotion Tourism Company

Broadcast Broadcast

Publications Publications

Digital Library organization Digital Library organization

Non-Profit Individual

2- Contact person details

First name: Last name:

Phone: E-mail:

3 Sector of Interest and Activity

Cultural Heritage sector

Archeology Architecture

Architecture Geography

History Science and Technology

Travel/Tourism/ Migration Music/Instruments

Cinema/ Video/Film/Television Photography

Arts: Paintings/Sculptures/ Drawings/ Maps Books/ Newspapers/ Archives /Manuscripts

Dance Folk/Traditions

Religion Languages and Literature

Other (please specify):

Activity

Content Collection Content Promotion

Content Preservation Content Digitization

Content Aggregation Content provision

Final End user Archiver

Other (please specify):

Interest to be involved in ASSETS and Europeana Projects as:

Content Aggregator Content provider

Final End User Technology services adopter

Technology services contributor

ASSETS SW services you are interested in:

Metadata Clearing Multidimensional indexing and retrieval

Knowledge Extraction from metadata records Risk Management service

Metadata Classification Normalization service

Ingestion workflow Notification service

Data Repository/post querying processing Semantic cross-linking browsing

Metadata based ranking Interfaces for Ingestion and Query Log analysis

Text indexing and retrieval Multimedia characterisation tool

Images indexing and retrieval User interface improvements

3-D Model Indexing and Retrieval Content creation by reuse / EDM prototype

Audio Model Indexing and Retrieval Taxonomy based notification

Video summarization, adaptation, indexing, retrieval Personalisation services

Description of organizations activities, products and services (max. 1,000 characters)

Engineering is the biggest Italian ICT service provider. The R&D department boasts tens of funded projects and proposes innovation to the Company business unit

Does your Organization already contribute to the Europeana portal? Yes - No

Do you already use Europeana portal? Yes - No

Do you want to supply content to the Europeana portal? Yes - No

How did you learn about ASSETS?

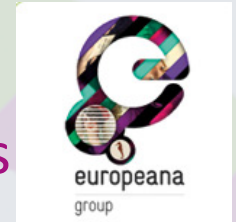
I'm the coordinator. Stupid!

ASSETS is cofunded by the European Commission under the ICT Policy Support Programme

Overview

- a. Dissemination objectives
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- ASSETS is part of Europeana Group of Projects
- Coordination is guaranteed by periodic ECAB meetings
- Project SHARE:
 - Provide integrated open access to Europeana project results by topic for all.
 - Archive the products of projects that have come to the end of their life-cycle.
 - Information provided will be made open access to all.
 - The key benefits identified were also twofold:
 - Increase visibility of the work done, also to increase standing in the cultural heritage community
 - Promote the broader re-use of project results by the cultural heritage community
- CARARE: provision of 3D models for 3D similarity search
- Europeana Connect: dissemination group



THANKS FOR YOUR ATTENTION!



CIAOTECH Srl (CTECH)
Morena Cristina Europa RIZZO
m.rizzo@ciaotech.com
Tel: +39 06 33268972

assets

WP1.1 Networking dissemination and exploitation

Exploitation Plan

Morena Rizzo, Ciaotech Srl

Luxembourg

10th of June, 2011

EXPLOITATION PLAN

Overview

- Objectives and Pillars
- Current status
- Pay for use services
- Targeted Users
- Business Models
- Individual exploitation
- Next steps

Objectives:

- Definition of a strategy for the commercial exploitation of project outputs and developed services....

To

- Make ASSETS viable after EC funding

Pillars:

- Identification of ASSETS' offer: pay for use services
- Identification of ASSETS' targeted markets and users
- Analysis of business and technological framework
- Existing Competitors
- Suitable business models: pricing policies
- Partners' Individual exploitation

ASSETS Business Plan: due at M24

EXPLOITATION PLAN

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ASSETS Exploitation Plan

Current Status:

- **Identification of pay-for-use services;**

Main exploitable services already identified. Discussion with partners during meetings and confcalls

- **Identification of targeted markets and users;**

Macro categories already identified.

- **Identification of Business Model;**

Discussion within the consortium about applicable pricing policies to different services. Identification of main pricing strategies

- **ASSETS partners' individual exploitation.**

Questionnaire about benefits and exploitation plans already filled in by each partner

EXPLOITATION PLAN

Overview

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ASSETS Exploitation Plan

Pay for use services

Services for markets/industries, considered as final end users

1) Advanced Search services

SW and tools to support indexing, retrieving, aggregating, and creatively exploiting of different textual, non-textual, multimedia and complex objects

2) Ingestion Services

Allowing Normalization, cleaning, knowledge extraction and mapping to generate enriched, clean and classified metadata

3) Digital Preservation services

Preservation assessment. Identification of Risks. Preservation plans.
Preservation implementation

ASSETS Exploitation Plan

Pay for use services

Services for markets/industries, considered as final end users

4) Community Services supporting user generated content

Exchange of information between users and database owner, personalized contents.

5) ASSETS as Aggregator

- ASSETS aggregates content and makes it available with search services to targeted end users through yearly fees, subscription, etc.
- Direct services towards citizens or SMEs (pharma, medical, legal etc).

6) Consultancy Services

- Small Cultural Heritage organisations without IT departments will be interested in support but also consultancy, advice, system integration and customisation services.

7) Training Services

- These tailored services concern IT Systems to be provided to the customers: use and maintenance of the provided IT tools, usage of the services.

EXPLOITATION PLAN

Overview

- Objectives and Pillars
- Current status
- Pay for use services
- Targeted Users
- Business Models
- Individual exploitation
- Next steps

ASSETS Exploitation Plan

Targeted Users' features

- Large Content database
- Make available to External users this content through advanced search services
- Internal users make advanced multimedia content search
- Need to offer customized services and content
- Need for digital preservation

ASSETS Exploitation Plan

Main Customers

- Museums/ CH Institutions (GLAM)
- Content Providers for Digital Media
- Technology Service Providers
- Ministries and Government Institutions
- Educational/Tourism Institutions
- Virtual Archaeological Sites

...any organization concerned with managing scientific and cultural information...

Final Consumers

- Curators, researchers, professors, experts and professionals people involved with cultural activities, Customers' clients
- Citizens and Tourists

ASSETS Exploitation Plan

Targeted Users Matrix: example

	Museum/Library/Foundation	Archives	Education/Learning	Tourism	Entertainment
Large Content database	5	5	5	5	3
External users use adv. search services	5	5	5	5	5
Internal users use adv. search services	5	5	3	2	3
Digital preservation needs	5	5	2	5	2

Once identified in detail, targeted users will be mapped and ranked against offered services and applicable business model

EXPLOITATION PLAN

Overview

- Objectives and Pillars
- Current status
- Pay for use services
- Targeted Users
- **Business Models**
- Individual exploitation
- Next steps

ASSETS Exploitation Plan

Business Model

1. Revenues related to sw platform set up and customization+ (licensing as an option)
2. SaS: Yearly fee
3. Revenues linked to subscription to use the advanced search services
4. Revenues linked to the acquisition of specific information packages
5. Revenues linked to advertisement
6. Consultancy Services
7. Training services. Packages.

EXPLOITATION PLAN

Overview

- Objectives and Pillars
- Current status
- Pay for use services
- Targeted Users
- Business Models
- Individual exploitation
- Next steps

Partners' Individual Exploitation

Individual Exploitation Questionnaire

<p>Overview of ASSETS partner and its involvement in the project.</p>	<p>Description</p>
<p>Name of your Company or Institution</p>	
<p>What is the main reason for your participation in the ASSETS project</p>	<p><i>1 -2 sentences</i></p>
<p>What is the future strategy of your company/institution in the field of digital libraries</p>	<p><i>2-3 sentences</i></p>
<p><u>Direct</u> Exploitation of outcomes of ASSETS project</p>	<p>Description <i>(Please describe how do you plan to exploit the main results of the ASSETS project – on the level of your institution, but also on the national/EU level).</i> PLEASE REFER TO SPECIFIC SERVICES AND TOOLS DEVELOPED WITHIN ASSETS</p>

Partners' Individual Exploitation

Individual Exploitation Questionnaire

Indirect ways of exploitation of ASSETS results	Description <i>Please indicate if you plan to perform some of the listed activities and <u>if yes, describe how and in what extent</u></i>
Disseminate the knowledge acquired for example by training of your employees or external persons	
Create new jobs or safeguard the existing ones based on the ASSETS project output	
Incorporate the developed technology or its part into your company/institution offer/asset	
Provide consultancy	
Realize follow-up activities or projects	
Is there any other way you plan to exploit the results and know how gained during the realization of the ASSETS project?	<i>Please highlight here other ideas on how the results of ASSETS could be exploited.</i>

EXPLOITATION PLAN

Overview

- Objectives and Pillars
- Current status
- Pay for use services
- Targeted Users
- Business Models
- Individual exploitation
- Next steps

ASSETS Exploitation Plan

Next Steps

- Pisa (IT), September 2011:
Specific Assets **Workshop on Exploitation**, with partners responsible for services development;
- End September 2011:
Marketing **survey** among ASSETS content providers and ASSETS community about developed services
- Within end of 2011
Draft of the Business Plan
- M24:
Business Plan final version.

ASSETS Exploitation Plan

Next Steps

Business Plan Focal points

- Description of ASSETS services: offer
- Analysis of technical and business frameworks; ★
- Description of usage scenario: market segments and requirements
- Competitors and existing reference services ★
- Partners' Individual exploitations
- Business Models: Strategy and Revenues
- Pricing Policies

THANKS FOR YOUR ATTENTION!



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assets

1st YEAR PROJECT OVERVIEW

Author: Maria Luisa Porro
Engineering Ingegneria Informatica S.p.A.
Date: June 10th 2011
Location: Luxembourg

Participant n.	Legal name	Short name
1	Engineering Ingegneria Informatica S.p.A	ENG
2	Athens Technology Center S.A.	ATC
3	AIT Austrian Institute of Technology GmbH	AIT
4	Exalead	EXALEAD
5	Consiglio Nazionale delle Ricerche	CNR
6	Stichting European Digital Library	EDLF
7	BMAT Licensing S.L.	BMAT
8	Fundacion Robotiker	ROBOTIKER-TECNALIA
9	SICS Swedish Institute of Computer Science AB	SICS
10	Institut National de l'Audiovisuel	INA
11	Universidad Autonoma de Madrid	UAM
12	Centre for Research and Technology Hellas	EKETA CERT
13	Universite Paris-Sud XI	UPS
14	Centre Virtuel de la Connaissance sur l'Europe	CVCE
15	Deutsche Welle	DW
16	Fondazione Accademia Nazionale di Santa Cecilia	ANSC
17	Liberis Publications	LIBERIS
18	Hellenic Archive of Scientific Culture	HASC
19	Dias Publishing Public Ltd	DIAS
20	Fundacion Albeniz	ALBENIZ
21	Ciaotech S.r.l.	CIAOTECH
22 (*)	United Nations Educational, Scientific and Cultural Organization - UNESCO	UNESCO
23	Fondazione Biblioteca Archivio Luigi Micheletti	FLM
24 (*)	National University Corporation Hokkaido University	MMLHU

(*) no EC contribution

– Reporting Period 1: Administrative Issues

- **Effort**

- **Effort Overview**

- » spent EFFORT PER W.P. in comparison with Total Planned
 - » EFFORT DISTRIBUTION PER PARTNER (PM)
 - » spent EFFORT PER PARTNER in comparison with Total Planned

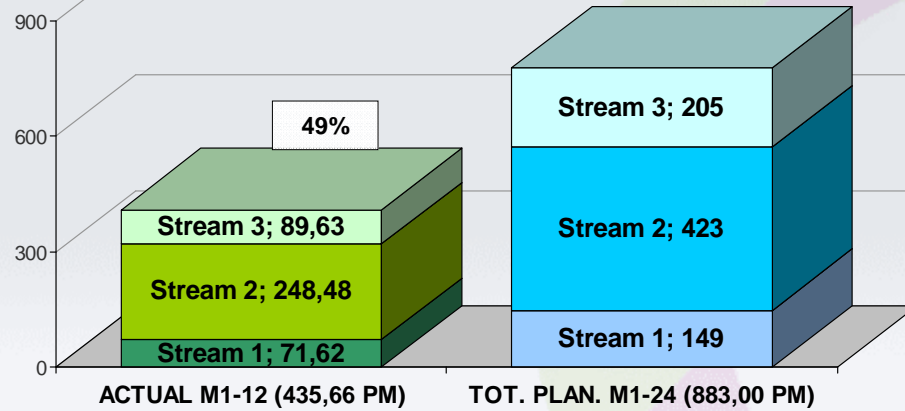
- **Costs**

- **Costs Overview**

- » OTHER EXTERNAL COSTS OVERVIEW
 - » COSTS AND CONTRIBUTION M1-12 PER PARTNER

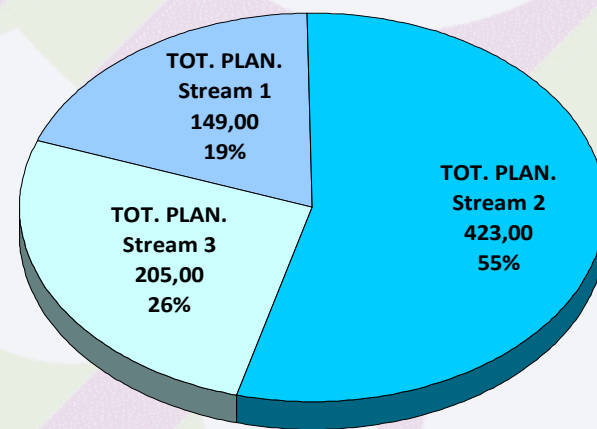
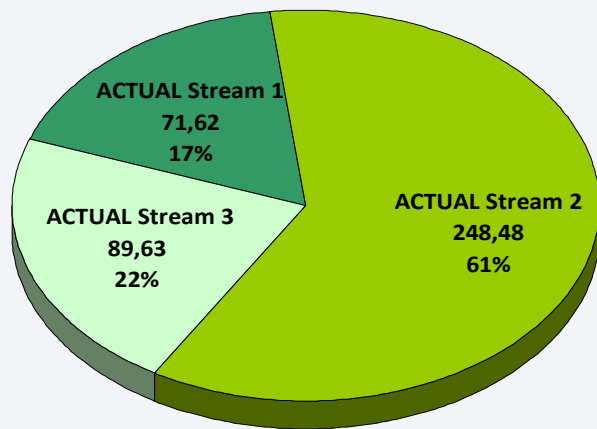
REPORTING PERIODS	
1°RP (01-04-2010	31/03/2011)
2°RP (01-04-2011	31/03/2012)
24 months	

THE EFFORT SPENT DURING MONTHS 1-12 IS 435,66 PM
 THE TOTAL USE OF RESOURCES MONTHS 1-12 REPRESENT THE 49%
 OF THE TOTAL PLANNED OF 883,00 PM

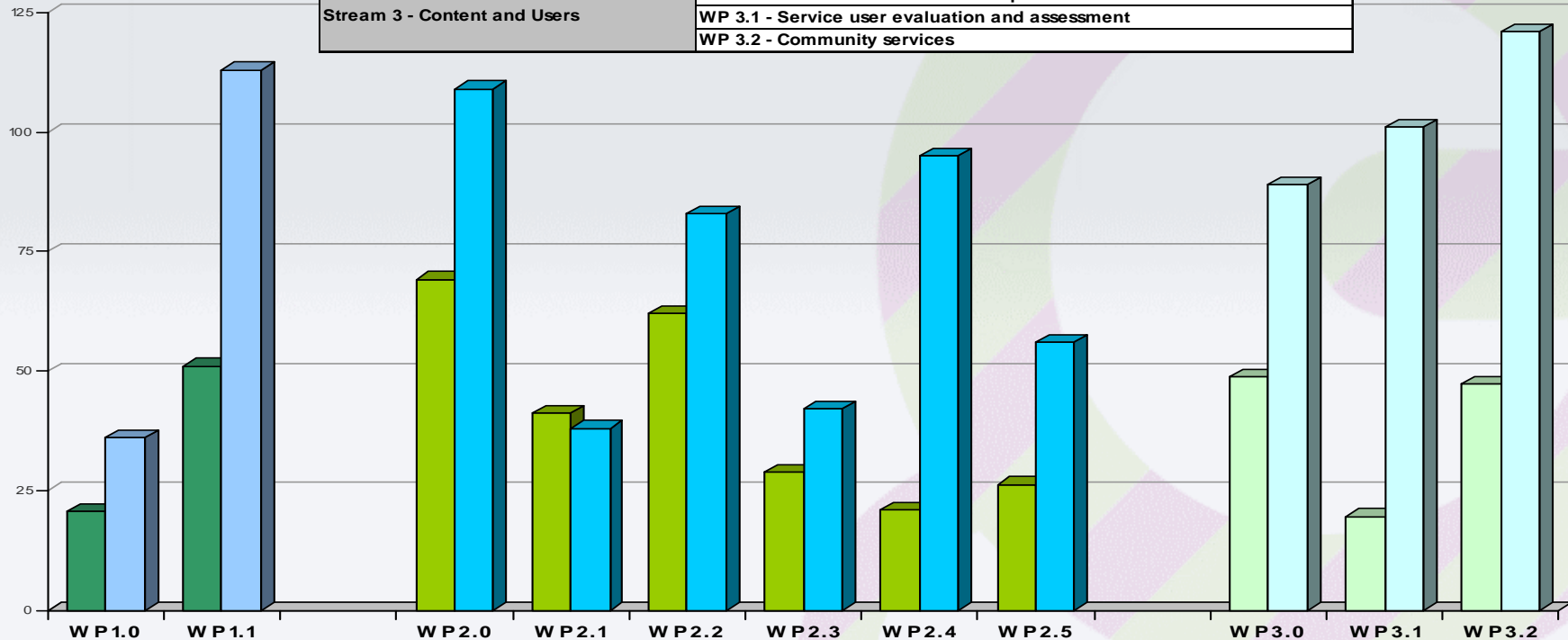


TOTAL ACTUAL M1-M12
PM 435,66

TOTAL PLANNED M1-M24
PM 883,00

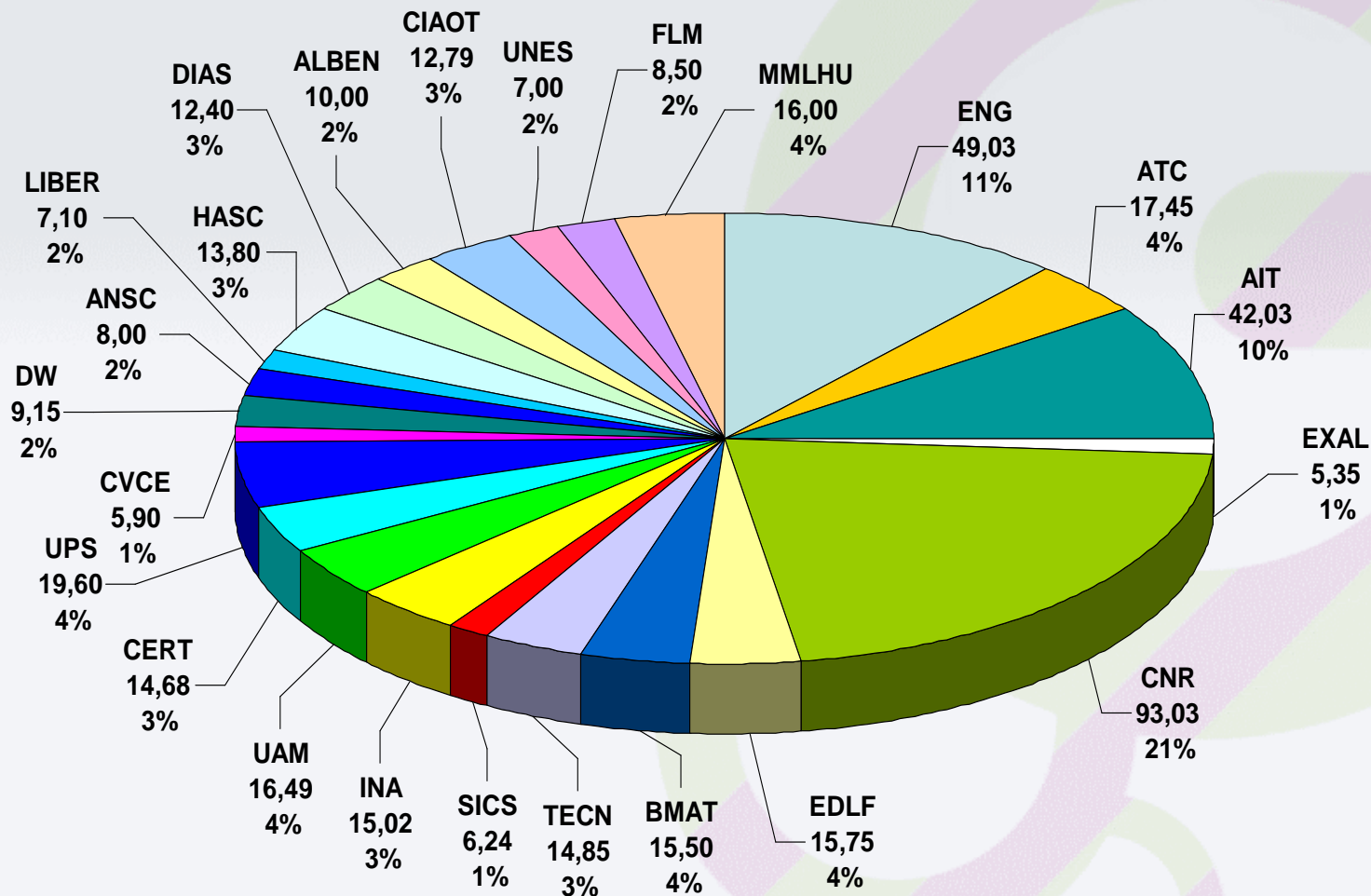


Stream 1 - Management and Networking	WP 1.0 - Coordination and Management
	WP 1.1 - Networking, Dissemination and Exploitation
Stream 2 - Foundation	WP 2.0 - Technical Coordination and Interoperability
	WP 2.1 - Ingestion
	WP 2.2 - Scalable metadata - and similarity - based indexing and retrieval
	WP 2.3 - Preparing the ground for digital preservation
	WP 2.4 - Service integration, testing and deployment
WP 2.5 - Browsing and visual interface	
Stream 3 - Content and Users	WP 3.0 - Content Provision and adaptation
	WP 3.1 - Service user evaluation and assessment
	WP 3.2 - Community services

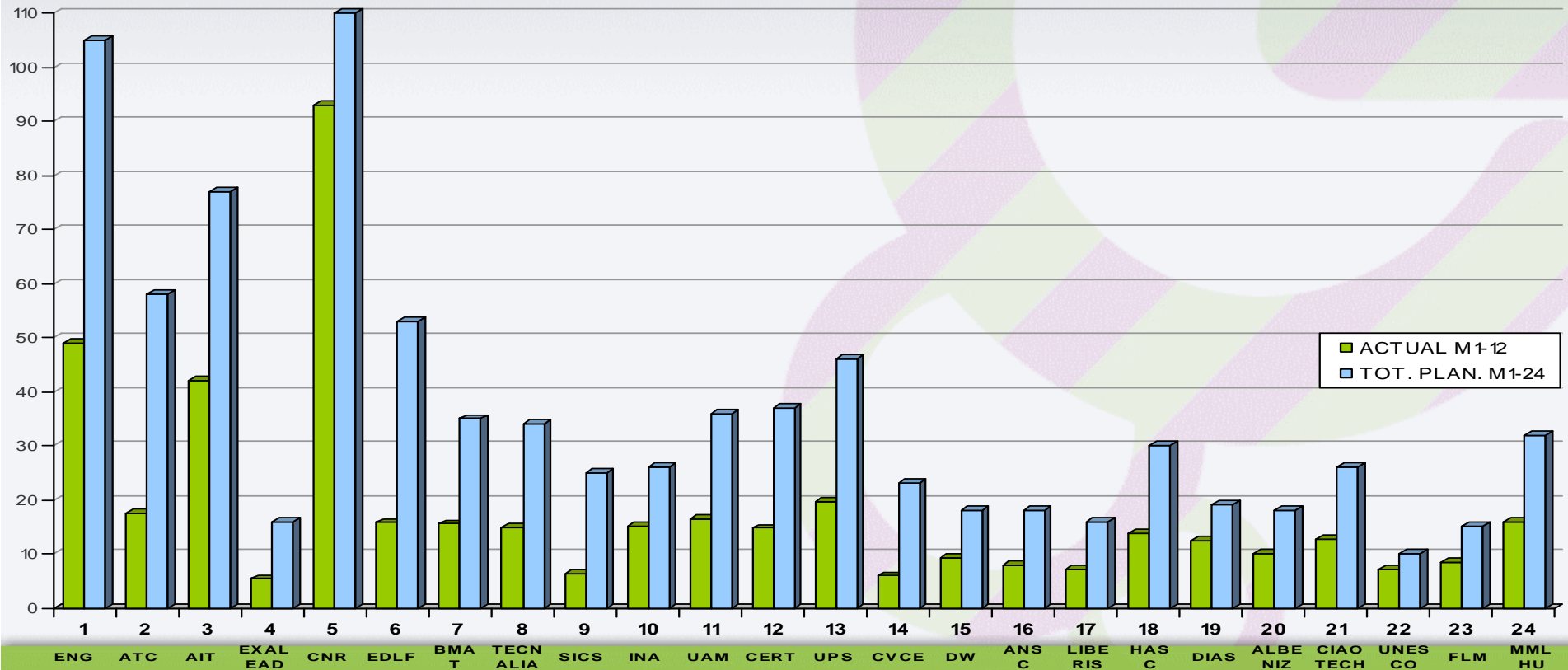


	STREAM 1		STREAM 2						STREAM 3			TOT.
	WP1.0	WP1.1	WP2.0	WP2.1	WP2.2	WP2.3	WP2.4	WP2.5	WP3.0	WP3.1	WP3.2	
ACTUAL M1-12	20,64	50,98	69,15	41,25	62,06	28,92	20,89	26,21	48,81	19,58	47,17	435,66
TOT. PLAN. M1-24	36,00	113,00	109,00	38,00	83,00	42,00	95,00	56,00	89,00	101,00	121,00	883,00
% ACTUAL vs. TOT.PLAN.	57%	45%	63%	109%	75%	69%	22%	47%	55%	19%	39%	49%
remaining	15,36	62,02	39,85	- 3,25	20,94	13,08	74,11	29,79	40,19	81,42	73,83	447,34
WP Start date-End date	1-24	1-24	1-24	3-24	1-24	1-24	1-24	4-24	6-24	1-24	1-24	

TOTAL ACTUAL M1-M12
PM 435,66



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
	ENG	ATC	AIT	EXAL EAD	CNR	EDLF	BMAT	TECN ALIA	SICS	INA	UAM	CERT	UPS	CVCE	DW	ANSC	LIBE RIS	HASC	DIAS	ALBE NIZ	CIAO TECH	UNES CO	FLM	MML HU	
TOT.STREAM 1	21,25	2,24	0,75	0,00	4,94	1,28	1,50	1,80	2,54	0,00	0,00	0,78	3,60	1,10	1,15	2,50	1,00	2,50	1,90	1,00	12,79	5,00	1,00	1,00	71,62
TOT.STREAM 2	26,28	14,28	40,65	5,35	78,19	6,78	12,50	10,30	2,67	10,29	16,49	13,70	5,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	6,00	248,48
TOT.STREAM 3	1,50	0,93	0,63	0,00	9,90	7,69	1,50	2,75	1,03	4,73	0,00	0,20	11,00	4,80	8,00	5,50	6,10	11,30	10,50	9,00	0,00	2,00	7,50	9,00	115,56
ACTUAL M1-12	49,03	17,45	42,03	5,35	93,03	15,75	15,50	14,85	6,24	15,02	16,49	14,68	19,60	5,90	9,15	8,00	7,10	13,80	12,40	10,00	12,79	7,00	8,50	16,00	435,66
TOT PLAN. M1-24	105,0	58,0	77,0	16,0	110,0	53,0	35,0	34,0	25,0	26,0	36,0	37,0	46,0	23,0	18,0	18,0	16,0	30,0	19,0	18,0	26,0	10,0	15,0	32,0	883,0
% ACTUAL	47%	30%	55%	33%	85%	30%	44%	44%	25%	58%	46%	40%	43%	26%	51%	44%	44%	46%	65%	56%	49%	70%	57%	50%	49%



– Reporting Period 1: Administrative Issues

- **Effort**

- **Effort Overview**

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 - » EFFORT DISTRIBUTION PER PARTNER (PM)
 - » spent EFFORT PER PARTNER in comparison with Total Planned

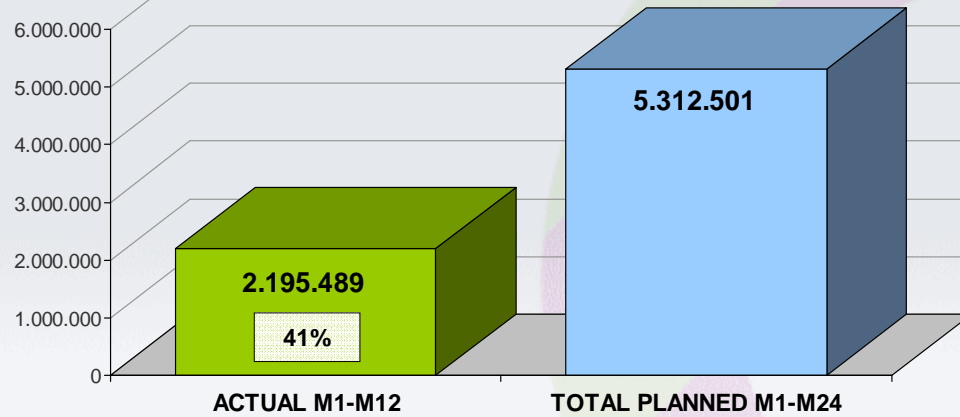
- **Costs**

- **Costs Overview**

- » OTHER EXTERNAL COSTS OVERVIEW
 - » COSTS AND CONTRIBUTION M1-12 PER PARTNER

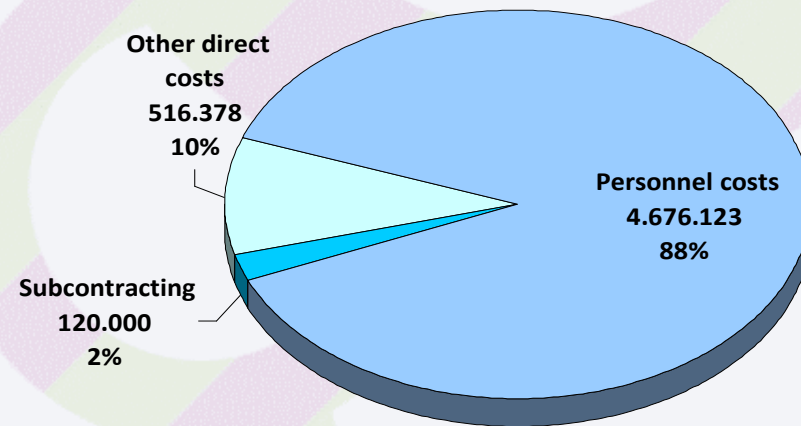
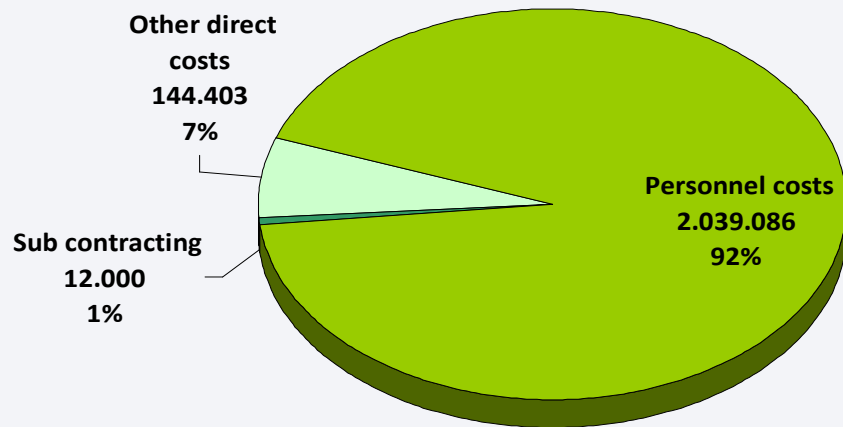
REPORTING PERIODS	
1° RP (01-04-2010	31/03/2011)
2° RP (01-04-2011	31/03/2012)
24 months	

THE COSTS INCURRED DURING MONTHS 1-12 IS 2.195.489 EURO
AND REPRESENT THE 41% OF THE TOTAL PLANNED OF 5.312.501 EURO

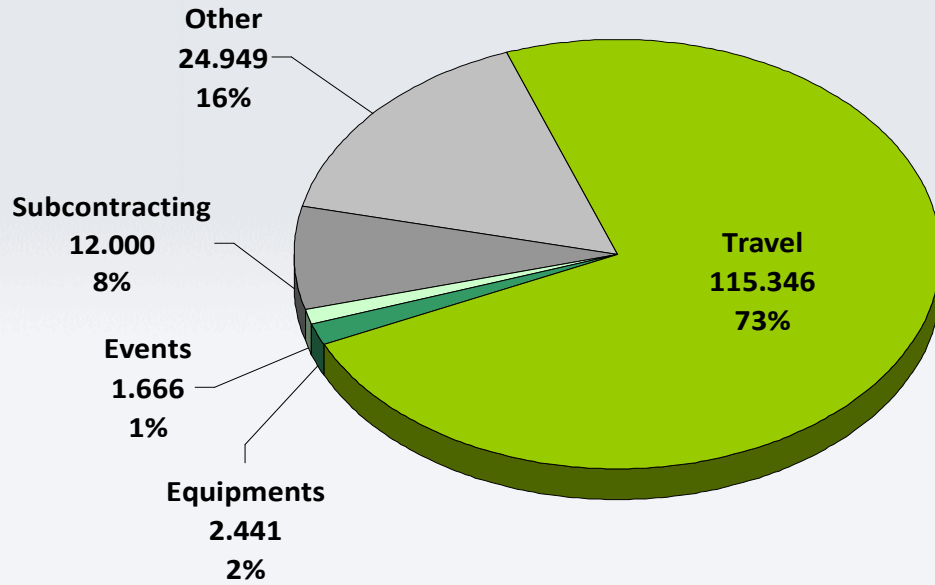


TOTAL ACTUAL M1-M12
EURO 2.195.489

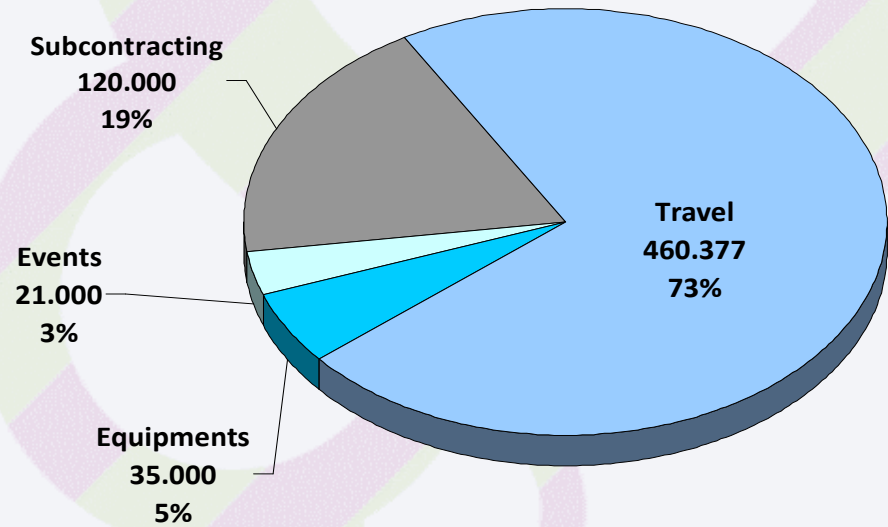
TOTAL PLANNED M1-M24
EURO 5.312.501



TOTAL ACTUAL OTHER EXTERNAL COSTS M1-M12
156.402 EURO (including subcontracting)



TOTAL PLANNED OTHER EXTERNAL COSTS M1-M24
636.377 EURO (including subcontracting)



COSTS											EFFORT (PM)						
Beneficiary n.	short name	ACTUAL M1-M12								TOTAL PLANNED M1-M24		ACTUAL vs. TOTAL PLANNED	Beneficiary n.	ACTUAL M1-M12	TOT. PLANNED M1-M24	ACTUAL vs. TOTAL PLANNED	
		Personnel costs		Sub contracting		Other direct costs		TOTAL ACTUAL		TOT. PLAN.							
		Costs	Requested grant to the budget	Costs	Requested grant to the budget	Costs	Requested grant to the budget	Costs	Requested grant to the budget	Costs	Requested grant to the budget						
1	ENG	287.772	230.217	12.000	9.600	3.034	2.427	302.805	242.244	700.878	560.702	43%	1	49,03	105,00	47%	
2	ATC	87.113	69.690			9.317	7.454	96.430	77.144	408.000	326.400	24%	2	17,45	58,00	30%	
3	AIT	221.104	176.883			10.506	8.405	231.610	185.288	424.900	339.920	55%	3	42,03	77,00	55%	
4	EXALEAD	26.337	21.070			6.236	4.989	32.573	26.058	124.000	99.200	26%	4	5,35	16,00	33%	
5	CNR	373.267	298.614			10.371	8.297	383.638	306.910	630.000	504.000	61%	5	93,03	110,00	85%	
6	EDLF	83.619	66.896			15.002	12.002	98.621	78.897	508.845	407.076	19%	6	15,75	53,00	30%	
7	BMAT	56.648	45.318			2.865	2.292	59.513	47.611	203.750	163.000	29%	7	15,50	35,00	44%	
8	ROBOTIKI	71.023	56.819			7.193	5.755	78.216	62.573	191.224	152.979	41%	8	14,85	34,00	44%	
9	SICS	83.636	66.909			4.737	3.790	88.373	70.698	193.000	154.400	46%	9	6,24	25,00	25%	
10	INA	104.279	83.423			9.570	7.656	113.849	91.079	202.000	161.600	56%	10	15,02	26,00	58%	
11	UAM	63.426	50.741			8.009	6.408	71.435	57.148	171.200	136.960	42%	11	16,49	36,00	46%	
12	EKETA CE	73.598	58.879			1.765	1.412	75.363	60.290	218.500	174.800	34%	12	14,68	37,00	40%	
13	UPS	92.693	74.155			2.735	2.188	95.428	76.343	271.000	216.800	35%	13	19,60	46,00	43%	
14	CVCE	41.300	33.040			8.118	6.494	49.418	39.534	176.000	140.800	28%	14	5,90	23,00	26%	
15	DW	58.560	46.848			4.839	3.871	63.399	50.719	132.700	106.160	48%	15	9,15	18,00	51%	
16	ANSC	42.660	34.128			3.541	2.832	46.201	36.961	100.104	80.083	46%	16	8,00	18,00	44%	
17	LIBERIS	34.070	27.256			1.648	1.318	35.718	28.574	95.000	76.000	38%	17	7,10	16,00	44%	
18	HASC	47.702	38.162			2.380	1.904	50.082	40.066	120.000	96.000	42%	18	13,80	30,00	46%	
19	DIAS	55.941	44.753			24.704	19.763	80.645	64.516	95.500	76.400	84%	19	12,40	19,00	65%	
20	ALBENIZ	36.431	29.144			3.484	2.787	39.915	31.932	87.000	69.600	46%	20	10,00	18,00	56%	
21	CIAOTECH	52.864	42.291			3.270	2.616	56.134	44.907	166.400	133.120	34%	21	12,79	26,00	49%	
22	UNESCO							-	-	-	-	0%	22	7,00	10,00	70%	
23	FLM	45.043	36.034			1.078	863	46.121	36.897	92.500	74.000	50%	23	8,50	15,00	57%	
24	MMLHU							-	-	-	-	0%	24	16,00	32,00	50%	
		2.039.086	1.631.269	12.000	9.600	144.402	115.522	2.195.488	1.756.391	5.312.501	4.250.001	41%			435,66	883,00	49%

- **As soon as the NEF reporting session is opened, we will upload the consolidated version of the periodic report, the financial statements of each beneficiary and the session will be submitted in the shortest time.**

Thank you for your attention!