



**Deployment and Maintenance of  
Europeana DSI core services -  
SMART 2017/1136**

CONTRACT NUMBER - LC - 00822914

**DELIVERABLE**

**B.2/B.3 Periodic report M28**

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1.1	25-01-2021	Julia Schellenberg	Europeana Foundation	Updates based on EC comments
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Periodic reports can be viewed and accessed online in the document section on the Europeana DSI-4 project page<sup>1</sup>.

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<sup>1</sup> <https://pro.europeana.eu/project/europeana-dsi-4>

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## Highlights

From May to October 2020, our Discovering Europe season used the rich cultural heritage in Europeana to showcase beautiful landscapes and fascinating places, in a virtual journey across the continent. We published 61 editorials in total: 28 blogs and 33 galleries. By the end of October, season editorial had been visited over 150,000 times.

Composed of the 30 best contributions in the 2020 Europeana Education Competition a booklet was produced for teachers and educational stakeholders as a prime example of the use of Europeana items. The booklet is available in Spanish, Italian, Portuguese, Polish, French, Greek (plus the original English) and will be promoted in the EUN's network of Ministries of Education.

In the reporting period, we updated 125 datasets and over 4.3 million records (including newly created and updated datasets and records). This massive publication, from all providers (GS projects, DSI partners, and others) had a big impact on data quality tier metrics. We saw a huge increase of high quality content (tier 2+) by 2.76% and a huge increase of high quality and reusable content (tier 3+) by 2.28%.

Our annual conference 'Europeana 2020 - Crisis, Change and Culture' took place online between 11 and 13 November. It hosted over 70 speakers, covered 50+ sessions and over 900 cultural heritage professionals joined from across the globe. The event received a high average user satisfaction of 82%.<sup>2</sup>

In the reporting period, we saw many activities towards capacity building and digital transformation. EF held 42 events for professionals (while 34 of those sustainable online events/webinars were organised as part of Europeana 2020). Also DSI aggregators were quite active by organising or contributing to 16 capacity building events in the reporting period.

In October, we concluded the membership campaign 2020. About 63% confirmed their membership and 2% decided to leave the ENA. Around 35%, have not responded to the call. These members were given the last chance to re-confirm their interest to remain in the ENA by the end of the year, or will be deregistered in January 2021.

The Europeana conference under the German Presidency on 5 and 6 October explored the role that copyright plays in the digital transformation of the cultural heritage sector. More than 40 DCHE members and copyright advocates and experts from 21 countries participated in the event.

## Introduction

The periodic report describes work carried out under Europeana DSI-4 from 1 October 2020 (M26) until 30 November 2020 (M27) based on the implementation plan (B.1 deliverable M24). The report is organised in four work packages (WP), one work package for each of the three priorities of the Europeana strategy 2020-2025<sup>2</sup>. The three strategic priorities are: Priority #1: Strengthen the infrastructure; Priority #2: Improve data quality; and Priority #3: Build capacity. The fourth work package reports on programme management efforts and the balance of efforts.

All outcomes to be completed as stated in B.1 Implementation plan M24 are included in this periodic report. All outcomes will be completed latest by August 2021<sup>3</sup>. The periodic report might also include additional outcomes not mentioned in the implementation plan. Throughout the year, the consortium may start to work on new outcomes. Also included might be activities/outcomes that deserve to be highlighted along the way even though those feed into an outcome of the implementation plan. All outcomes the consortium worked on in the reporting period are stated in the overview of outcomes tables with completion rate and expected due date. In case an outcome ends in the reporting period a description is added that highlights the objective and result of the outcome and its value for Europeana DSI. Key Performance Indicators (KPIs) as well as other reporting metrics are also presented, and discussed in case of notable occurrences.

For each task associated risks are stated and assessed based on probability of occurrence and severity of impact (note: rating method changed in this period from 3 to 5 levels)<sup>4</sup>. The risk assessment is reviewed and updated bi-monthly, in case changes occurred for a risk (updates or new risks) an explanation is added to the risk assessment.

### Explanatory notes for tables reporting - colour codes

	Outcomes as stated in the implementation plan <sup>5</sup>
	Colour blue indicates the expected timeframe of the outcome
	Colour black indicates that an outcome ended in the reporting period
%	Progress until end of current reporting period

<sup>2</sup> <https://pro.europeana.eu/page/strategy-2020-2025-summary>

<sup>3</sup> Due dates of individual outcomes as stated in the implementation plan are indicative and timing might change based on current priorities.

<sup>4</sup> Probability and impact are rated with 5 levels (very high (5), high (4), medium (3), low (2), or very low (1)). The risk rating is probability multiplied by impact. If probability is medium (3) and impact is high (4), then the rating would be 12 (3 x 4). The rating gives an understanding of the risk and its effects on the operations of the Europeana services. A risk rating above 15 can be seen as high risk while a rating of 25 is devastating.

<sup>5</sup> Outcomes as stated in the implementation plan are marked with light blue background to be able to refer back to the initial implementation plan. Additional outcomes keep a transparent background.

# Abbreviations

## Consortium participants

EF	Europeana Foundation (Coordinator), The Netherlands
AIT-Graz	AIT Angewandte Informationstechnik Forschungsgesellschaft mbH, Austria
AIT-Vienna	AIT Austrian Institute of Technology GmbH, Austria
APEF	Archives Portal Europe Foundation, The Netherlands
AthenaRC	Athena Research and Innovation Center in Information Communication and Knowledge Technologies, Greece
BL	The British Library Board, United Kingdom
CARARE	Connecting Archaeology and Architecture in Europe, Ireland
CLARIN	CLARIN ERIC, The Netherlands
DEN	Stichting Digitaal Erfgoed Nederland, The Netherlands
DFF	Deutsches Filminstitut & Filmmuseum e.V., Germany
DNB	Deutsche Nationalbibliothek, Germany
EFHA	European Fashion Heritage Association, Italy
EUN	EUN Partnership AISBL, Belgium
EuroClio	EuroClio European Association of History Educators, The Netherlands
F&F	Facts & Files Historisches Forschungsinstitut Berlin Drauschke Schreiber Partnerschaftsgesellschaft Archiv-, Geschichts- und Literaturwissenschaftler, Germany
INESC-ID	INESC-ID, Instituto de Engenharia de Sistemas e Computadores - Investigação e Desenvolvimento em Lisboa, Portugal
KL	Stichting Nederland Kennisland, The Netherlands
Lovegrove	James Lovegrove SPRL, Belgium
MCA	Michael Culture AISBL, Belgium
NISV	Stichting Nederlands Instituut voor Beeld en Geluid, The Netherlands
NTUA	National Technical University of Athens, Greece
Photocons	International Consortium for Photographic Heritage Photoconsortium, Italy
PSNC	Instytut Chemii Bioorganicznej Polskiej Akademii Nauk - Poznańskie Centrum Superkomputerowo-Sieciowe, Poland
SPK	Stiftung Preussischer Kulturbesitz, Germany

## Other

CHIs	Cultural Heritage Institutions
DCHE	Digital Cultural Heritage and Europeana
DPS	Data Partner Services
DSI AGG	DSI aggregators
EAF	Europeana Aggregators' Forum
EDM	Europeana Data Model
ELF	Europeana Licensing Framework
ENA	Europeana Network Association
EPF	Europeana Publishing Framework
IIIF	International Image Interoperability Framework
R&D	Research & Development
SEO	Search Engine Optimisation
UI	User Experience

Formal definitions of terms used frequently can be found in [Annex: Glossary of terms](#).

## Work package 1: Strengthen the infrastructure

WP1 maintains and continuously improves Europeana DSI's main services and functionality. WP1 is focused on an easy and rewarding data publishing process (task 1.1.), a satisfying website experience for our users (task 1.2.), and a reliable and high performing platform infrastructure (task 1.3.). The work package also provides engagement activities for users to discover Europeana's digital cultural content (task 1.4.).

### Task 1.1. Easy data publishing

**Partners:** EF, PSNC

Europeana DSI-4 offers a fully functional data and aggregation infrastructure through Metis (<https://metis.europeana.eu/>), which allows EF to import, transform, validate and enrich metadata for aggregators. The focus for the year revolves around implementing part one of the aggregation strategy by speeding up and enhancing the reliability of the publishing process (objective 1.1.1.) and releasing the Metis Sandbox (objective 1.1.2.) which creates new ways of publishing through Europeana.

*Overview of outcomes: easy data publishing*

Partner	Outcomes	Progress	Oct M26	Nov M27	Dec M28	Jan M29	Feb M30	Mar M31	Apr M32	May M33
<b>Objective 1.1.1. Extend and maintain Metis</b>										
EF, PSNC	System upgrades and performance are maintained (bugs fixing, infrastructure upgrades, refinement of existing features) - 60% of effort in M26/M27	Ongoing								
EF	Existing enrichment service upgraded	70%	■	■	■					
EF	Provenance of machine-generated metadata is maintained <sup>6</sup>	20%	■	■	■	■	■			
EF, PSNC	Incremental update process established	10%	■	■	■	■	■	■	■	■
<b>Objective 1.1.2. Enable Metis Sandbox</b>										
EF	Public release of Metis Sandbox	30%	■	■	■	■	■	■	■	■
EF	MS1 Metis Sandbox report on its contribution to the aggregation strategy delivered	Not started								

<sup>6</sup> In collaboration with Europeana XX Generic Services project.

EF, PSNC	Metis Sandbox data sources extended	Not started								
EF, PSNC	Fast track publishing workflow enabled	Not started								

*Risk assessment: easy data publishing*

ID	Risk	Probability of occurrence	Severity of Impact	Rating	Mitigation strategy	Changes
R1.1	The work planned for year 3 of DSI-4 may require more preparation of requirements analysis and design than envisaged which may delay implementation.	High (4)	Medium (3)	12	The work needs to be planned in smaller iterations which means that the products (such as Metis or the Sandbox) may not have all the expected functionalities implemented at once.	-
R1.2	The Generic services are bringing extra requirements for data ingestion that require modifications in Metis.	High (4)	Medium (3)	12	The roadmap needs careful management and amendment if needed. Further discussion will take place with projects to better understand their requirements, and any conflicts with the DSI will be discussed with the Commission.	-

## **Task 1.2. Europeana website experience**

**Partners:** EF, AIT Vienna

The Europeana website ([www.europeana.eu](http://www.europeana.eu)) is the single multilingual access point to digital resources of European heritage. This year we aim to see the website maintain 500,000 visits a month (KPI 1.1) with a 15% user return rate (KPI 1.2). To achieve this, the consortium maintains and continuously improves the website with a focus on a satisfying experience for users. We will add more user engagement features to attract more return visitors (objective 1.2.1.). Improvements to search are a key aspect of website experience



that we will continue to invest in (objective 1.2.2.). The extension of features to support the new multilingual strategy are also critically important for reaching and retaining new audiences (objective 1.2.3.).

*Overview of outcomes: Europeana website experience*

Partner	Outcomes	Progress	Oct M26	Nov M27	Dec M28	Jan M29	Feb M30	Mar M31	Apr M32	May M33
EF	Europeana website usability and performance maintained (bugs fixing, security & software updates) - 20% of efforts in M26/M27	Ongoing								
EF	The blogs no longer exist as a separate platform and are authored and displayed in the same format as the rest of the site	100%								
<b>Objective 1.2.1. Extend user engagement features</b>										
EF, AIT Vienna	Public release of user-created collections (with recommendations) <sup>7</sup>	60%								
EF	Process of automated updates to Collections section in place (topics, centuries)	50%								
EF	Browse by organisations is supported (new entity type)	Not started								
EF	Visitor feedback mechanism upgraded	40%								
EF	Publication of schema.org for item pages	40%								
EF	Item page updated (3D viewer)	100%								
EF	Item page updated (Maps display)	90%								
<b>Objective 1.2.2. Deliver better search experience</b>										
EF	Search relevance and performance maintained	Ongoing								
EF	Public release of search within newspaper pages	90%								
EF	Methodology for evaluating search effectiveness designed	10%								
EF	Search performance evaluation completed	Not started								

<sup>7</sup> Project results from Europeana XX contribute to this outcome.

EF	MS2 Search strategy delivered (including community feedback)	60%	
<b>Objective 1.2.3. Extend multilingual reach</b>			
EF	UI translations are validated by crowdsource community	Ongoing	
EF	Metrics to measure improvements to the multilingual experience confirmed	50%	
EF	Language detection of metadata is validated (experiment)	Not started	
EF	Multilingual search designs prove to be usable and understood by users (user research)	Not started	
EF	Multilingual item page designs prove to be usable and understood by users (user research)	Not started	
EF	Real-time translation of item page metadata from English validated (experiment)	Not started	
EF	Users can view item pages in language of choice (implementation)	Not started	
EF	Candidate machine translation services for metadata selected	Not started	
EF	Report on the percentage of exhibition and feature translations	Not started	
EF	MS3 Outcomes of multilingual experiments, and their contribution to the multilingual strategy	Not started	

*The blogs no longer exist as a separate platform and are authored and displayed in the same format as the rest of the site<sup>8</sup> - we consolidated a number of different platforms which makes maintenance a lot easier and additionally ensures that we retain the visitors on the Europeana website. Now that the blog posts are created in the contentful cms we can start exploring creating connections between the blog posts and the other content on the website.*

*Item page updated (3D viewer) - we returned the Sketchfab 3D viewer on the item page to optimise the experience of exploring 3D content (example here<sup>9</sup>).*

<sup>8</sup> <https://www.europeana.eu/en/blog>

<sup>9</sup> [https://www.europeana.eu/en/item/181/share3d\\_10](https://www.europeana.eu/en/item/181/share3d_10)

Reporting metrics: Europeana website experience

No.	Description	Measured by	Frequency	Target	Sep 2020	Oct 2020	Nov 2020
KPI 1.1	Traffic to Europeana website	Number of visits per month	Monthly	<b>500,000</b>	395,430	433,000	462,700
KPI 1.2	Returning visitors to Europeana website	Percentage of visitors returning	Monthly	<b>15%</b>	12.30%	12.69%	12.80%
KPI 1.3	Satisfaction rate for Europeana website	Average satisfaction on a 5-point Likert scale <sup>10</sup>	Three times a year	<b>75%</b>	-	-	72%
KPI 1.4	Downloads on the Europeana website	Total number of downloads (cumulative)	Monthly	<b>240,000</b>	11,160	25,552	37,753
RM 1.1	New visitors to the Europeana website	Total number of new visitors per month	Monthly	-	292,203	350,073	368,631
RM 1.2	Visit duration on the Europeana website	Average time spent per visit	Monthly	-	01:40	01:45	01:44
RM 1.3	Page views on Europeana website	Average amount of pages viewed per visit	Monthly	-	2.75	2.85	2.83
RM 1.4	Click-throughs to partner websites	Total number of click-throughs (cumulative)	Bi-monthly	-	11,878	27,294	45,242

<sup>10</sup> The average satisfaction on a 5-point Likert scale is translated into % (e.g. an average of 3.6 stars equals to a satisfaction rate of 72%).

RM 1.5	User feedback for the Europeana website	Total number of user feedback received via feedback button (cumulative)	Bi-monthly	-	66	-	- <sup>11</sup>
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In the reporting period, we saw an increase in traffic to the Europeana website and increase in user return rate. We measured user satisfaction for the website and got a 72% average user satisfaction.

*Risk assessment: Europeana website experience*

ID	Risk	Probability of occurrence	Severity of Impact	Rating	Mitigation strategy	Changes
R1.3	Traffic on Europeana website (KPI 1.1) is below target	High (4)	Medium (3)	12	Continuing our experiments on making record pages more discoverable to Google; expanding editorials with seasons, exhibitions; promotions and activities engaging users; better promotion of APIs to engage with developer and institutional reuse	Yes <sup>12</sup>
R1.4	Returning visitors on Europeana website (KPI 1.2) is below target: product/content not good enough to encourage people to return	High (4)	Medium (3)	12	Optimising the browsing and viewing experiences; optimising the searching experiences; optimising multilingual experience; extending user	-

<sup>11</sup> We are currently updating the user feedback mechanism and the feedback button is temporarily not visible on the website. Therefore, the metric could not be provided in this period. The update is expected to be done in December 2020.

<sup>12</sup> Likelihood of occurrence changed from medium to high as assessment changed from 3 to 5 levels, and the likelihood of occurrence seems to be higher than a previous medium assessment when using 5 level rating.

					engagement features; expanding editorials with seasons, exhibitions; promotions and activities engaging users	
R1.5	Satisfaction rate for the Europeana website is low	Medium (3)	High (4)	12	Review europeana.eu user feedback and behaviour and take appropriate actions; monitor website performance; constant improvement of the Europeana website	Yes <sup>13</sup>
R1.6	Expectations regarding multilingual strategy are higher than what available language technology enables us to implement	High (4)	Low (2)	8	Regularly evaluate and communicate the results of evaluation to stakeholders. Adapt plans to the performance level of technology.	Yes <sup>14</sup>

### **Task 1.3. Reliable platforms**

**Partners:** EF, AIT Vienna

High availability and performance (objective 1.3.1.) is an important priority for the Europeana services. With a high-availability architecture design, we aim for our main products to be available 24/7 with an uptime of 99.5% (excluding scheduled outages). We will monitor the quality of our services (uptime and response time) and report on them regularly.

*Overview of outcomes: reliable platforms*

Partner	Outcomes	Progress	Oct M26	Nov M27	Dec M28	Jan M29	Feb M30	Mar M31	Apr M32	May M33
<b>Objective 1.3.1. APIs and infrastructure are high-performing</b>										

<sup>13</sup> Severity of impact changed from medium to high as assessment changed from 3 to 5 levels, and the severity of impact seems to be higher than a previous medium assessment when using 5 level rating.

<sup>14</sup> Probability of occurrence and severity of impact changed as assessment changed from 3 to 5 levels, the updated rating better assesses the risk when using a 5 level rating.

EF	Infrastructure is maintained (bugs, attacks, clean-ups, upgrades, back-ups) - 50% of effort in M26/M27	Ongoing										
EF, AIT Vienna	Core APIs are maintained (incidents, bugs, technical debt improvements, software updates, releases) - 40% of effort in M26/M27	Ongoing										
EF	Solr and Mongo reindexed	25%										
EF	Full failover environment established	30%										
EF, AIT Vienna	Full disaster recovery test completed <sup>15</sup>	Not started										
EF	Production hosting environment reconfirmed [IBM]	20%										

*Reporting metrics: reliable platforms*

No.	Description	Measured by	Frequency	Sep 2020	Oct 2020	Nov 2020
RM 1.6	Response time of Europeana website	Average time (seconds) for single record per month	Monthly	1.49	1.38	1.52
RM 1.7	Uptime of Europeana website	Average in % for single records per month	Monthly	99.12	99.49	99.77
RM 1.8	Response time of APIs (all)	Average response time (seconds) per month	Monthly	0.28	0.22	0.22
RM 1.9	Uptime of APIs (all)	Average in % per month	Monthly	100	100	99.99
RM 1.10	Response time of Europeana Pro	Average response time (seconds) per month	Monthly	0.89	0.86	0.84
RM 1.11	Uptime of Europeana Pro	Average in % per month	Monthly	100.00	99.99	99.99
RM 1.12	Uptime of Metis	Average in % per month	Monthly	100.00	100.00	100.00

<sup>15</sup> This outcome will feed into C.4 Stress and disaster recovery test reports (March 2021).

*Risk assessment: reliable platforms*

ID	Risk	Probability of occurrence	Severity of Impact	Rating	Mitigation strategy	Changes
R1.7	High traffic in form of attacks can cause interruptions in the service	Low (2)	High (4)	8	Anti-flooding mechanism to limit the traffic to real users;	-

**Task 1.4. Discoverability of digital cultural content**

**Partners:** EF, DSI AGG (EFHA, NISV, DFF, CARARE, MCA), EUN, and EuroClio

Our efforts to publish digital cultural content can only be valued when material is found and consumed. Therefore, the ability for European citizens, educational audiences and API consumers to discover content is critical to the success of the Europeana Initiative. The foundation of our discoverability efforts are Europeana’s high-quality editorial features that will highlight captivating materials and stories (objective 1.4.1.). Through communication and promotion, EF will bring this material to the attention of our audiences to drive traffic to the Europeana website and engagement with digital culture (objective 1.4.2.). Activities with educational communities will foster partnerships for teaching and learning (objective 1.4.3.). Efforts to support third-party developers use of the Europeana APIs will help to diversify the usage of digital cultural content (objective 1.4.4.).

*Overview of outcomes: discoverability of digital cultural content*

Partner	Outcomes	Progress	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
			M26	M27	M28	M29	M30	M31	M32	M33
<b>Objective 1.4.1. Deliver high-quality editorial features</b>										
EF, DSI AGG, GS <sup>16</sup>	Editorial activities published (exhibitions, blogs and galleries)	Ongoing								
EF, GS <sup>17</sup>	Discovering Europe season completed	100%								
EF	Exhibition: Discovering Danube (CENL) published	10%								

<sup>16</sup> Europeana Common Culture, LinBi, Europeana Archaeology, Europeana XX, Pagode - Europeana China, Europeana Sport, The Art of Reading in the Middle Ages - ARMA, Europeana Media and Europeana Judaica 2.0 (tbc) contribute to this outcome.

<sup>17</sup> Editorials from Europeana Common Culture, Europeana Archaeology, Europeana XX, Europeana Media contribute to this outcome.

EF	Exhibition: The Beaver's Journey (Aust-Agder museum og arkiv) published	70%	
EF	Women's History Month organised	Not started	
EF	Exhibition: 200th anniversary of the death of Napoleon (Fédération Européenne des Cités Napoléoniennes) published	15%	
EF	Sport season initiated	Not started	
EF	Autumn season (TBC) initiated	Not started	
<b>Objective 1.4.2. Communication and dissemination to European citizens</b>			
EF	Newsletter and social media posts (Facebook, Twitter, Instagram, Pinterest) published <sup>18</sup>	Ongoing	
EF	GIF IT UP organised	95%	
EF	Women's History Month organised	Not started	
EF	MuseumWeek on Twitter organised	Not started	
<b>Objective 1.4.3. Engage with educational communities</b>			
EF	Blogs and social media posts (LinkedIn, Facebook, Twitter) published	Ongoing	
EuroClio	Online course for beginners at an eTwinning eLearning event (Europeana training for educators) organised	30%	
EuroClio	PR package targeting the cultural heritage sector available	70%	
EUN	MOOC for educators (English) launched	20%	
EuroClio	Train-the-trainers session during the EuroClio annual conference	Not started	

<sup>18</sup> Editorial outcomes of GS projects are promoted.



	(Europeana training for educators) organised									
EF	Annual Open Education Week: contribution added	Not started								
EF	All Digital Week campaign: contribution added	Not started								
NISV	Task Force recommendations on making A/V more available in education available	10%	■	■	■	■	■	■	■	■
EUN	Best case examples for reuse completed (learning scenarios and stories of implementation) 2020	100%	■	■						
EUN	Best case example booklet (learning scenarios and stories of implementation) for Secondary schools in six different languages published	Not started								
EuroClio	Advanced webinar series (Europeana training for educators) organised	25%	■	■	■	■	■	■	■	■
EuroClio	Five new partner pages on Historiana with one Exemplary Source Collection and five eLearning activities per partner available	10%	■	■	■	■	■	■	■	■
EUN	Online kick-off meeting with Ambassadors	100%	■	■						
EUN	Communication plan for education	90%	■	■	■					
EF/EuroClio	Source Collection about Beethoven on Historiana	100%	■	■						
<b>Objective 1.4.4. Attract API users and grow data usage</b>										
EF	API developer community mailing list re-established	90%	■	■	■					
EF	Feedback on API strategy from developer community	50%	■	■	■					
EF	Current libraries, documentation, and tools reviewed and updated	30%	■	■	■	■	■			

EF	New libraries, FAQs, and tutorials created	Not started								
EF	Reuse package for CHIs created	Not started								

*Discovering Europe season completed* - From May to October 2020, our Discovering Europe season used the rich cultural heritage in Europeana to showcase beautiful landscapes and fascinating places, in a virtual journey across the continent. We published 61 editorials in total: 28 blogs and 33 galleries. These stories included contributions from 10 cultural heritage organisations and four Generic Services projects. By the end of October, season editorial had been visited over 150,000 times. For further information, please read this Pro article<sup>19</sup>.

*Best case examples for reuse completed (learning scenarios and stories of implementation) 2020*<sup>20</sup> - Composed of the 30 best contributions in the 2020 Europeana Education Competition (DSI-4, Y2)<sup>21</sup>. This booklet was produced for teachers and educational stakeholders as a prime example of the use of Europeana items. Curated by EF and EUN, the learning scenarios and the story of implementation composing this resource are the results of teachers' hard work in highlighting the importance of cultural heritage in their teaching. The booklet is available in Spanish, Italian, Portuguese, Polish, French, Greek (plus the original English) and will be promoted in the EUN's network of Ministries of Education. These 6 booklets represent a total of 180 individual learning resources (30 x 6) in different official European languages and contribute to Europeana's effort towards multilingual content.

*Online kick-off meeting with Ambassadors*<sup>22</sup> - On 7 November the Europeana Ambassadors (teachers and museum educators) met with EUN and EF representatives to organise the tasks for the next school year. During this one day workshop, we welcomed and updated the new Museum Ambassadors and explained the new strategy to all the attendees, focusing on curation of existent resources, multilingualism, diversity & inclusion and connecting formal and informal education. The main tasks will be around the development of a new MOOC in March 2021 and reorganisation of the Teaching with Europeana blog to curate the best materials, make it easier to search and prepare the transition to the Europeana Classroom<sup>23</sup>.

<sup>19</sup> <https://pro.europeana.eu/post/discovering-europe-looking-back-at-our-summer-season>

<sup>20</sup> <https://pro.europeana.eu/post/teaching-with-europeana-best-practices-2019-2020>

<sup>21</sup> <https://teachwitheuropeana.eun.org/europeana-education-competition-2020/>

<sup>22</sup> <https://teachwitheuropeana.eun.org/updates/europeana-workshop-in-the-cloud/>

<sup>23</sup> <https://www.europeana.eu/en/europeana-classroom>

Source collection about Beethoven on Historiana<sup>24</sup> - To celebrate the 250 anniversary of Beethoven's birthday EF and EuroClio have developed a new source collection on Historiana about the life and work of this historical figure. This is the first music and diversity & inclusion related source collection on Historiana.

#### Communication and dissemination activities

Partner	Name of event	Activity	Location	Date
EF	Universal Access to Documentary Heritage in Asia and the Pacific <sup>25</sup>	Presentation of Europeana and open access perspectives for this UNESCO Bangkok webinar series on Open GLAM	Online	9/10/2020
EF	Creative Commons: Hack4OpenGLAM <sup>26</sup>	Presentation of Europeana API suite at creative commons hackathon, collaboration with hackathon teams, dissemination of hackathon results with API community	Online	19-23/10/2020
EF	eTwinning Annual Conference 2020 <sup>27</sup>	'Europeana and sustainable development through citizenship' workshop	Online	23/10/2020
EF	EUScreen Annual meeting <sup>28</sup>	Europeana Classroom presentation and breakout session	Online	3/11/2020
EF	International Symposium Mexico-EU	Presentation on Europeana as part of session on strategies for preservation of Cultural Heritage in pandemic situations	Online	10/11/2020
EF	School Education Gateway (SEG) <sup>29</sup>	Article published to present our new education strategy and to connect formal and informal education with digital cultural heritage.	Online	23/11/2020

#### Reporting metrics: discoverability of digital cultural content

No.	Description	Measured by	Frequency	Target	Sep 2020	Oct 2020	Nov 2020

<sup>24</sup>

<https://historiana.eu/partners/europeana/ludwig-van-beethoven-1770-1827-the-9th-symphony-and-the-european-values>

<sup>25</sup> <https://events.unesco.org/event?id=3461048534&lang=1033>

<sup>26</sup> <https://summit.creativecommons.org/hack4openglam/>

<sup>27</sup> <https://www.etwinning.net/en/pub/newsroom/highlights/annual-conference-2020--class.htm>

<sup>28</sup> <http://blog.euscreen.eu/events/euscreen-network-meeting-2020/>

<sup>29</sup>

<https://www.schooleducationgateway.eu/en/pub/latest/news/designing-hybrid-spaces.htm?fbclid=IwAR1LH12HRpOKoMB2vh4mTYvjYDsExL0luPfkT3cy0QbbR0I5w4-67HNpR98>

KPI 1.5	Satisfaction rate for exhibitions	Average satisfaction on a 5-point Likert scale <sup>30</sup>	Monthly	<b>75%</b>	90%	89%	89%
KPI 1.6	Reach on social media	Total number of impressions on social media (cumulative)	Monthly	<b>250 million</b>	40,666,847	81,284,593	122,361,354
KPI 1.7	Learning resources for education	Total number of resources using Europeana data <sup>31</sup> (cumulative)	Monthly	<b>50</b>	4	10	11
KPI 1.8	External learning environments for education	Total number of integrations of Europeana educational offers <sup>32</sup> (cumulative)	Monthly	<b>5</b>	-	-	Expected Aug 2021
KPI 1.9	Satisfaction rate of educational communities	Average satisfaction on a 5-point Likert scale	Monthly	<b>75%</b>	-	77%	77%
RM 1.13	Editorial outcomes: exhibitions	Number of exhibitions created (cumulative)	Bi-monthly	-	2	-	4
RM 1.14	Editorial outcomes: blogs	Number of blogs created (cumulative)	Bi-monthly	-	15	-	22
RM 1.15	Newsletter subscribers	Total number of subscribers	Bi-monthly	-	49,372	-	49,335

<sup>30</sup> The average satisfaction on a 5-point Likert scale is translated into % (e.g. an average of 3.6 stars equals to an average of 72%).

<sup>31</sup> Metric excludes multilingual resource variations.

<sup>32</sup> Integration into third party platforms highly depend on the other party. Therefore expected due dates can not be given accurately. We aim for 5 new integrations by August 2021 and will add progress once an integration is completed.

RM 1.16	Social media engagement	Total number of likes, shares, comments per month	Monthly	-	395,197	574,900	391,893
RM 1.17	Social media followers/fans	Total number on social media	Monthly	-	217,499	218,153	219,849
RM 1.18	Educators actively involved in creating learning resources (EUN)	Total number of educators (cumulative)	Once a year	-	-	-	Expected Aug 2021
RM 1.19	Countries coverage of contributing educators (EUN)	Total number of countries (cumulative)	Once a year	-	-	-	Expected Aug 2021
RM 1.20	Participants completing the MOOC	Total number of participants (cumulative)	Upon occasion	-	-	-	Expected May 2021
RM 1.21	Reach to Europeana Education community	Number of people reached per month (mailing list, LinkedIn, Facebook)	Bi-monthly	-	6,093	-	6,729
RM 1.22	API usage (REST API)	Number of API users that exceeded the average of 5 calls a day per month	Monthly	-	63	59	55
RM 1.23	API usage (REST API)	Number of API users that were active for more than 5 days in each month	Monthly	-	56	56	51

RM 1.24	API usage (REST API)	Total number of requests per month	Monthly	-	87,640,300	72,501,254	97,070,769
RM 1.25	API users (REST API)	Total number of API users per month	Monthly	-	209	184	177
RM 1.26	API sign-ups (REST API)	Number of API sign-ups per month	Monthly	-	89	77	67

In the reporting period we published 2 exhibitions (e.g. 'Family Matters': How the 20th century changed family life<sup>33</sup>) and 7 blogs (e.g. 'Writing in exile: Hungarian authors in Paris and Berlin'<sup>34</sup>). We had a very good average satisfaction rate for exhibitions reaching 89%.

In October, we saw a high engagement on social media with about 575,000 likes, shares, and comments. This high number was mainly achieved with activities promoting the GIF IT UP 2020 competition<sup>35</sup>.

In the reporting period, we completed 7 new learning resources for education (6 language variations of a booklet with best case examples for reuse and one source collection). We measured the satisfaction rate of educational communities and received a very good average satisfaction of 77% (exceeding our target of 75%). We also saw a high increase in the number of people reached within the education community (+10.4% in two months). We expect this is related to the beginning of the school year. Also the Europeana Education Facebook<sup>36</sup> channel is growing quite consistently since we started with this channel in 2018.

*Risk assessment: discoverability of digital cultural content*

ID	Risk	Probability of occurrence	Severity of Impact	Rating	Mitigation strategy	Changes
R1.8	Editorials which depend on third party	Medium (3)	Medium (3)	9	Frequent communication with	Yes <sup>37</sup>

<sup>33</sup> <https://www.europeana.eu/en/exhibitions/family-matters>

<sup>34</sup> <https://www.europeana.eu/en/blog/writing-in-exile-hungarian-authors-in-paris-and-berlin>

<sup>35</sup> <https://gfitup.net/>

<sup>36</sup> <https://www.facebook.com/groups/EuropeanaEducation/>

<sup>37</sup> This risk was added to acknowledge third party dependencies for editorial contributions.

	contributions might not progress as planned				third party contributors; provide support and advice as required.	
R1.9	Reach of Europeana data on social media: changes to the algorithms and pricing on social media platforms	Medium (3)	Medium (3)	9	Adaptation and diversification of channels, tools and platforms used	-
R1.10	School lockdowns for COVID	High (4)	Medium (3)	12	Most of the activities with teachers are planned for the digital environment but some necessary implementations with students might be hampered.	-
R1.11	Complete new strategy involving CHIs professionals in the education initiative (e.g new partner pages on Historiana). There is a risk of not reaching all the expected outcomes in 12 months (strategy initially planned for two years)	Medium (3)	Low (2)	6	Continuation of the tasks during Europeana DSI-4 (Y4)	Yes <sup>38</sup>
R1.12	Outdated contact info of API key holders can mean loss of contact with valuable members of the API community, decreasing Europeana's impact on this important user group.	Medium (3)	Medium (3)	9	Update API key signup form, follow up with current API key holders to update information.	Yes <sup>39</sup>
R1.13	Outreach to new developers does not generate interest and might prevent growing Europeana API community	Medium (3)	Medium (3)	9	Review documentation, improve API user experience.	Yes <sup>40</sup>

<sup>38</sup> Probability of occurrence and severity of impact changed as assessment changed from 3 to 5 levels, the updated rating better assesses the risk when using a 5 level rating.

<sup>39</sup> Risk added new.

<sup>40</sup> Risk added new.

## Work package 2: Improve data quality

WP2 will increase high-quality content and metadata (task 2.1) to improve access and reusability of digital content. This will include new technological approaches of enriching data, such as crowdsourcing and machine-learning (task 2.2). These efforts will contribute to a more satisfying user experience on the Europeana website.

### **Task 2.1. Quality assured data**

**Partners:** EF, SPK, and DSI AGG (APEF, BL, CARARE, MCA, EFHA, DFF, NISV, AIT-Graz, Photocons, NTUA)

The data issues that have developed over the past decade can only be resolved through a multi-year effort. In the next year, we will continue to work with aggregators and data providers to raise the quality of content and metadata (objective 2.1.1). As part of this effort, we will further develop our data and publishing frameworks, standards and documentation for partners (objective 2.1.2) and influence global interoperability through our networks (objective 2.1.3).

#### *Overview of outcomes: quality assured data*

Partner	Outcomes	Progress	Oct M26	Nov M27	Dec M28	Jan M29	Feb M30	Mar M31	Apr M32	May M33
<b>Objective 2.1.1. Raise the quality of content and metadata</b>										
EF	Data partners supported with data quality improvements and data publication (DSI, Generic services <sup>41</sup> , and others)	Ongoing								
DSI AGG	Data quality improvements and new content delivered	Ongoing								
EF	Aggregators under development reviewed for accreditation	Ongoing								
EF, DSI AGG	Working Groups (Data Quality Committee <sup>42</sup> ; IIF & Europeana <sup>43</sup> )	Ongoing								
EF	Strategy for reviving records from inactive data partners delivered	70%								

<sup>41</sup> Europeana Common Culture, Linking Biodiversity and Culture Information-LinBi, Europeana Archaeology, Judaica Europeana 2.0, Europeana XX, Pagode - Europeana China, Europeana Sport and The Art of Reading in the Middle Ages- ARMA (delivery date tbc).

<sup>42</sup> <https://pro.europeana.eu/project/data-quality-committee>

<sup>43</sup> <https://pro.europeana.eu/project/iif-europeana-working-group>



EF, DSI AGG	MS4 Review of individual data quality plans with respective DSI partners	Not started																
EF	Outreach campaign to inactive data partners initiated	Not started																
EF	Regular link resolution process implemented	30%																
EF, DSI AGG	Individual data quality plans for the following DSI year created	Not started																
EF, SPK	Plan for growing fulltext newspaper content is developed	5%																
<b>Objective 2.1.2. Maintain data and publishing frameworks, standards and documentation</b>																		
EF	EDM updated and documented	Ongoing																
EF	Update of the Statistics Dashboard V2 <sup>44</sup>	Not started																
EF	Recommendations for how to improve the usefulness of guidance materials	70%																
EF, DSI AGG	Case studies that document impact of publishing digital collections online	10%																
EF	EPF amendment to integrate problem patterns from long-tail data issues	10%																
EF, DSI AGG	MS5 EPF 3.0 delivered with case studies and integrated problem patterns	10%																
EF	Design and technical plan for Statistics dashboard (including review of the mock-up)	80%																
EF	Statistics dashboard mock-up developed	100%																
<b>Objective 2.1.3. Influence global interoperability and technological innovation</b>																		
EF, ENA, EAF	EuropeanaTech community <sup>45</sup> , Data Quality Committee <sup>46</sup> , IIF Discovery	Ongoing																

<sup>44</sup> Note: this outcome was expected to be completed by October 2020. Plans for the Statistics Dashboard need to be reviewed in the context of the published Aggregation Strategy and more specifically the Sandbox. The dashboard shouldn't be seen as an individual product but as a specific component of the Sandbox. We therefore need to spend more time in writing new technical and design requirements based on the experience of the first version of the dashboard.

<sup>45</sup> <https://pro.europeana.eu/page/europeanatech>

<sup>46</sup> <https://pro.europeana.eu/project/data-quality-committee>

	Technical Specification Group <sup>47</sup> , IIF & Europeana Working Group <sup>48</sup> supported								
EF	Data mapping and conversions with stakeholders is supported	Ongoing							
EF	Interoperability of annotations and user sets <sup>49</sup> Task Force is supported	80%							
EF, NISV	AI in relation to GLAMs <sup>50</sup> Task Force is supported	75%							

*Statistics dashboard mock-up developed* - The requirements for a new version of the Statistics Dashboard have been reviewed and used to develop a mock-up for the application (<https://statistics-dashboard-test.eanadev.org/>). This mock-up is currently tested by various teams within Europeana. The requirements will be further refined based on the feedback. The main objective of the Statistics dashboard is to support Europeana and data partners in their data reporting activities.

#### Reporting metrics: quality assured data

No.	Description	Measured by	Frequency	Target	Sep 2020	Oct 2020	Nov 2020
KPI 2.1	High quality content	Percentage of Tier 2 + material (excluding content Tier 0)	Monthly	>65%	64.05%	64.36%	66.81%
KPI 2.2	High quality and reusable content	Percentage of Tier 3+ material (excluding content Tier 0)	Monthly	>40%	42.39%	42.70%	44.67%
KPI 2.3	High quality metadata (search, browse and explore)	Percentage of Tier A+ material (excluding content Tier 0)	Monthly	>60%	56.29%	57.05%	57.94%
KPI 2.4	Europeana Research and Development contributions	Total number of reference papers or presentations (cumulative)	Monthly	10	2	2	2

<sup>47</sup> <https://iif.io/community/groups/discovery/>

<sup>48</sup> <https://pro.europeana.eu/project/iif-europeana-working-group>

<sup>49</sup> <https://pro.europeana.eu/project/interoperability-of-annotations-and-user-sets>

<sup>50</sup> <https://pro.europeana.eu/project/ai-in-relation-to-glams>

RM 2.1	Broken links in the repository	Number of broken links (out of total)	Quarterly	-	-	-	1.1 million
RM 2.2	Non-EPF compliant content (Tier 0)	Percentage of Tier 0 content	Monthly	-	17.18%	16.86%	17.10%
RM 2.3	Updates to datasets	Total number of newly created and updated datasets per month (out of total)	Monthly	-	40	42	83
RM 2.4	Updates to records	Total number of newly created and updated records per month (out of total)	Monthly	-	1,728,100	1,390,802	2,934,640
RM 2.5	New CHIs published on Europeana website	Total number of new CHIs (cumulative)	Once a year	-	-	-	Expected Aug 2021
RM 2.6	Records in the data repository	Total number of records (excluding content tier 0)	Monthly	-	51,341,446	52,063,317	50,979,148
RM 2.7	Records in the data repository by accredited aggregators	Total number of records (excluding content tier 0)	Quarterly	-	32,320,906	-	33,006,731
RM 2.8	Reach to Europeana Tech community	Number of people reached per month (Mailing list, Twitter)	Bi-monthly	-	5,998	-	5,951

In the reporting period, we updated 125 datasets and over 4.3 million records (including newly created and updated datasets and records). This massive publication, from all providers (GS projects, DSI partners, and others) had a big impact on data quality tier metrics. We saw a huge increase of high quality content (tier 2+) by 2.76% and a huge

increase of high quality and reusable content (tier 3+) by 2.28%. The biggest contributor was the German Digital Library who published 1.2 million records<sup>51</sup> (as a contribution of the Europeana Common Culture project). Another example is Theatermuseum Wien<sup>52</sup> (updated significantly).

Our latest measurement on the number of broken links (out of total) resulted in a total of 1.1 million records containing one or more broken links. In the next three months data partners have time to fix the datasets with broken links. Every dataset that is still broken after this period will be removed from the Europeana website in early April 2021.

*Data quality improvements per aggregator based on the EPF<sup>53 54</sup>*

Metric	End Aug 2020 (M24)	End Sep 2020 (M25)	End Nov (M27)
<b>APEF</b>			
Percentage of Tier 2+ material	12.81%	12.81%	12.81%
Percentage of Tier 3+ material	8.65%	8.65%	8.65%
Percentage of Tier A+ material	1.45%	1.45%	1.45%
Number of records updated (M26/M27)		-	-
Number of datasets updated (M26/M27)		-	-
Number of contributing data providers (M26/M27)		-	-
Number of new datasets (M26/M27)		-	-
Type of new datasets	-		
<b>BL (Europeana Sounds)</b>			
Percentage of Tier 2+ material	40.46%	40.46%	40.46%
Percentage of Tier 3+ material	9.27%	9.27%	9.27%

<sup>51</sup>

[https://www.europeana.eu/en/search?page=1&qf=PROVIDER%3A%22Deutsche%20Digitale%20Bibliothek%22&qf=DATA\\_PROVIDER%3A%22Bayerische%20Staatsbibliothek%22&query=&view=grid](https://www.europeana.eu/en/search?page=1&qf=PROVIDER%3A%22Deutsche%20Digitale%20Bibliothek%22&qf=DATA_PROVIDER%3A%22Bayerische%20Staatsbibliothek%22&query=&view=grid)

<sup>52</sup> [https://www.europeana.eu/en/search?page=12&view=grid&query=edm\\_datasetName%3A15503\\_%2a](https://www.europeana.eu/en/search?page=12&view=grid&query=edm_datasetName%3A15503_%2a)

<sup>53</sup> The table states ingestion activities to Europeana per aggregator in the current reporting period. Data quality improvements are prepared by aggregators and CHIs based on data quality improvement plans while ingestion is the last step of the workflow. This is an ongoing process and progress per aggregator will become visible with the publication on the Europeana website. Progress per aggregator also reflects data ingestion activities done as part of other projects (e.g. Generic Services projects). Those activities affect the tier statistics of the aggregator as a whole and are therefore included in the table. If aggregator contributions were done fully or partly as part of another project this is indicated with a footnote.

<sup>54</sup> All numbers stated here are excluding content Tier 0. Currently, all our reporting is based on EPF compliant content (excluding Tier 0). Tier 0 content per partner is available on request.

Percentage of Tier A+ material	70.62%	70.62%	70.62%
Number of records updated (M26/M27)		-	-
Number of datasets updated (M26/M27)		-	-
Number of contributing data providers (M26/M27)		-	-
Number of new datasets (M26/M27)		-	-
Type of new datasets		-	
<b>CARARE / AthenaRC<sup>55</sup></b>			
Percentage of Tier 2+ material	75.59%	72.26%	73.47%
Percentage of Tier 3+ material	60.51%	57.85%	58.83%
Percentage of Tier A+ material	99.45%	99.48%	99.47%
Number of records updated (M26/M27)		113,700	107,502
Number of datasets updated (M26/M27)		5	9
Number of contributing data providers (M26/M27)		6	12
Number of new datasets (M26/M27)		-	4
Type of new datasets	Archaeological content	<i>Contributions to the Europeana Archaeology project from the <a href="#">National Archaeology Museum of France</a>, the <a href="#">University of Bologna</a>, <a href="#">Cyprus Technical University</a> and <a href="#">DANS-KNAW</a>.</i>	
<b>MCA<sup>56</sup></b>			
Percentage of Tier 2+ material	44.83%	44.83%	45.10%
Percentage of Tier 3+ material	7.16%	7.16%	7.59%
Percentage of Tier A+ material	75.02%	75.02%	75.13%
Number of records updated (M26/M27)		-	24,400
Number of datasets updated (M26/M27)		-	4
Number of contributing data providers (M26/M27)		-	4
Number of new datasets (M26/M27)		-	2
Type of new datasets	Archaeological	<i>Contributions for the Europeana</i>	

<sup>55</sup> Content improvements as stated here were done under the GS project Europeana Archaeology.

<sup>56</sup> Content improvements as stated here were done under the GS project Europeana Archaeology.

	content	<i>Archaeology project from the <a href="#">Archaeology and Art History library Rome</a>, and <a href="#">La Civitella Museum</a>.</i>	
<b>eFashion</b>			
Percentage of Tier 2+ material	89.51%	89.51%	89.51%
Percentage of Tier 3+ material	2.70%	2.70%	2.70%
Percentage of Tier A+ material	100%	100%	100%
Number of records updated (M26/M27)		-	492,370
Number of datasets updated (M26/M27)		-	2
Number of contributing data providers (M26/M27)		-	2
Number of new datasets (M26/M27)		-	-
Type of new datasets	-	-	-
<b>DFF (EFG - The European Film Gateway)</b>			
Percentage of Tier 2+ material	22.60%	22.59%	22.61%
Percentage of Tier 3+ material	0.20%	0.20%	0.19%
Percentage of Tier A+ material	43.73%	43.78%	99.91%
Number of records updated (M26/M27)		4,089	546,031
Number of datasets updated (M26/M27)		7	15
Number of contributing data providers (M26/M27)		6	15
Number of new datasets (M26/M27)		1	-
Type of new datasets	-	-	-
<b>NISV (EUscreen)</b>			
Percentage of Tier 2+ material	22.44%	20.92%	20.92%
Percentage of Tier 3+ material	0.25%	0.23%	0.23%
Percentage of Tier A+ material	26.09%	24.32%	24.32%
Number of records updated (M26/M27)		81,983	59
Number of datasets updated (M26/M27)		1	1
Number of contributing data providers (M26/M27)		1	1

Number of new datasets (M26/M27)		-	1
Type of new datasets	-	<i>A new dataset from <a href="#">Royal Holloway, University of London</a>.</i>	
<b>AIT-Graz (OpenUp!)<sup>57</sup></b>			
Percentage of Tier 2+ material	98.26%	98.28%	98.27%
Percentage of Tier 3+ material	87.61%	87.49%	87.32%
Percentage of Tier A+ material	42.90%	43.53%	43.53%
Number of records updated (M26/M27)		140,641	121,511
Number of datasets updated (M26/M27)		2	4
Number of contributing data providers (M26/M27)		3	5
Number of new datasets (M26/M27)		-	1
Type of new datasets	-	<i>A set from <a href="#">Rundfunk Berlin- Brandenburg</a>.</i>	
<b>PhotoCons</b>			
Percentage of Tier 2+ material	66.76%	66.76%	66.76%
Percentage of Tier 3+ material	23.74%	23.74%	23.74%
Percentage of Tier A+ material	99.64%	99.64%	99.64%
Number of records updated (M26/M27)		-	-
Number of datasets updated (M26/M27)		-	-
Number of contributing data providers (M26/M27)		-	-
Number of new datasets (M26/M27)		-	-
Type of new datasets	-	-	

*Risk assessment: quality assured data*

ID	Risk	Probability of occurrence	Severity of Impact	Rating	Mitigation strategy	Changes
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<sup>57</sup> Content improvements as stated here were partly done under the GS project LinBi.

R2.1	Data partners don't control content quality and have difficulties to incentivise the improvement of content quality, which is a risk for Tier 2 and Tier 3 and above to be achieved.	High (4)	Medium (3)	12	The new Europeana website is much better featuring high quality content related to specific themes, subjects, and people. This can help to have a motivation for CHIs to invest in content quality. In parallel, training on the real message 'the more you give the more you get' of the EPF can help to focus more on publishing with a purpose.	Yes <sup>58</sup>
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## Task 2.2. Enriched data

**Partners:** EF, AIT Vienna, F&F, DSI AGG (APEF, AIT Graz, BL, CARARE, EFHA, NISV, Photocons)

The focus on enriched data is vitally important to the future of the Europeana Initiative. As the scale of data publishing grows, new technological approaches are needed to improve the accessibility and use of cultural heritage data. The extension of entities to support better browsing (objective 2.2.1) will help categorise items more usefully for website visitors, while the use of crowdsourcing and machine-learning tools by partners (objective 2.2.2) will see data quality enriched before it is ingested by Europeana. Importantly, this year EF will also begin researching and experimenting with machine-learning platforms (Objective 2.2.3) in an effort to determine where to invest.

### Overview of outcomes: enriched data

Partner	Outcomes	Progress	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
			M26	M27	M28	M29	M30	M31	M32	M33
<b>Objective 2.2.1. Extend entities to support better browsing</b>										
EF, AIT Vienna	Entity framework for data ingestion and updating is redeveloped	5%	■	■	■	■	■	■		
EF, AIT Vienna	Entities can be manually added and removed	Not started								
EF, AIT Vienna	Entities to support browsing by organisation are available	Not started								

<sup>58</sup> Probability of occurrence changed as assessment changed from 3 to 5 levels, the updated rating better assesses the risk when using a 5 level rating.



EF, AIT Vienna	Entities are extended to support high quality people relationships	Not started																		
<b>Objective 2.2.2. Use crowdsourcing and machine learning to enrich metadata</b>																				
EFHA	Validation of automatic enrichments for the Fashion Heritage collection is completed through crowdsourcing campaigns	20%																		
AIT Graz	Curated metadata enrichment and curated content clustering through expert crowdsourcing	20%																		
NISV	Crowdsourcing toolkit on subtitling videos, translating and correcting is published on Europeana Classroom	20%																		
APEF	Contextual classes are tagged through the use of metadata evaluation and crowdsourcing	20%																		
APEF	Automatic topic detection proof-of-concept developed	20%																		
BL	Conversion of placenames and wikidata links using OpenRefine	20%																		
CARARE	Enrichment services on MORE are extended	20%																		
Photoc ons	3 crowdsourcing campaigns to enrich data completed	20%																		
F&F	Enrichments from Transcribathon.eu transferred to Europeana	20%																		
<b>Objective 2.2.3. Establish machine-learning platforms</b>																				
EF	Machine learning discussion paper delivered to AI in relation to GLAMs Task Force	100%																		
EF	Jupyter notebook proof-of-concept is shared with Network	50%																		
EF	Training data is shared on pilot platforms (max six platforms)	40%																		
EF	Learnings from SGoaB project <sup>59</sup> incorporated into 2021/22 plans	Not started																		

<sup>59</sup> <https://pro.europeana.eu/project/saint-george-on-a-bike>

*Machine learning discussion paper delivered to AI in relation to GLAMs Task Force*<sup>60</sup>- In the Europeana Strategy 2020-2025, Machine Learning is mentioned as one of the key developments for future work at Europeana. We have written a document that outlines a high-level Machine Learning strategy and some first actions that EF can undertake within this framework, organized along the following areas: data access and developer interfaces, datasets for Machine Learning, data sharing, knowledge sharing and capacity building, and an in-house machine learning pilot. We are currently beginning to carry out some of these actions.

*Risk assessment: enriched data*

ID	Risk	Probability of occurrence	Severity of Impact	Rating	Mitigation strategy	Changes
R2.2	Some entity relations are currently of low quality.	High (4)	Low (2)	8	Work to improve the quality of the entity relationships is underway in the API team. This includes offering explicit relations coming directly from the entities.	Yes <sup>61</sup>
R2.3	The existence of plans with regards to employing AI in Europeana raise wrong expectations on the capacity of the technology to fix all of Europeana's data problems	Medium (3)	Low (2)	6	Clearly position Europeana's current effort as being experimental. Regularly report on evaluation and observed limitations of the available technology (especially with respect to scarcity of data to correctly train AI systems)	-

<sup>60</sup> Available on request.

<sup>61</sup> Severity of impact changed as assessment changed from 3 to 5 levels, the updated rating better assesses the risk when using a 5 level rating.

## Work package 3: Build capacity

WP3 will support professionals and partners in three principle areas to build capacity for digital transformation. We will engage professionals and partner organisations (both large and small) in capacity-building activities by running events, training and workshops (task 3.1.). Secondly, we will nurture our networks, in particular by supporting operations of the Europeana Network Association (ENA) and Europeana Aggregators' Forum (EAF). This will include communication and promotion of activities and resources to our networks (task 3.2.). Finally, we will strengthen national infrastructures by supporting the adoption of Europeana standards and frameworks and by reinforcing the value delivered by the Europeana Initiative towards digital transformation of the cultural heritage sector (task 3.3.).

### Task 3.1. Build capacity of aggregators and professionals

**Partners:** EF, F&F, DEN, and DSI AGG (APEF, BL, CARARE, MCA, EFHA, DFF, NISV, AIT-Graz, Photocons, NTUA)

Under this task we will build capacity to support the digital transformation of the cultural sector. This will be done by developing and delivering events, workshops and training formats addressing the needs of professionals (objective 3.1.1) as well as aggregators and CHIs (objective 3.1.2). We will establish professional education for management in the cultural sector by sharing good practices, knowledge and training across our networks (objective 3.1.3). We will also develop a capacity-building framework to facilitate the structural adoption of our capacity-building initiative (objective 3.1.4).

*Overview of outcomes: build capacity of aggregators and professionals*

Partner	Outcomes	Progress	Oct M26	Nov M27	Dec M28	Jan M29	Feb M30	Mar M31	Apr M32	May M33
<b>Objective 3.1.1. Deliver rewarding events for professionals</b>										
EF	Programme of events for professionals, published on Europeana Pro	Done								
EF	Method of events evaluation implemented	75%	█	█	█	█				
EF	Annual Conference: Europeana 2020	100%	█	█						
EF	Value and impact of events evaluated	50%	█	█	█	█	█	█		
EF	Events Management toolkit	60%	█	█	█	█	█	█		
EF	Analysis of impact of Annual conference: Europeana 2020	10%	█	█	█	█	█	█		

<b>Objective 3.1.2. Deliver scalable training for aggregators and CHIs</b>									
EF	Enriched training resources for aggregators on Pro	Ongoing							
EF, F&F	Transcribathon strategy and plan	90%							
EF/EAF, DSI AGG	EAF Training Programme 2020-2021	20%							
EF, DSI AGG	Train the Trainer events (two events)	20%							
EF, F&F, DSI AGG	Training workshops, webinars and one-to-one support for CHIs to share knowledge and develop skills (six events)	30%							
<b>Objective 3.1.3. Develop Europeana Managers Academy</b>									
DEN	Deliver Pilot Managers Academy	20%							
DEN	MS6 Preliminary results and feasibility study	Not started							
<b>Objective 3.1.4 Develop a capacity-building framework</b>									
EF	Strategy for building and implementing a capacity building framework published	60%							
EF	Preliminary reporting indicators for capacity building developed	10%							
EF/DEN	Report on inventorisation of existing training courses created	50%							
EF	Approach for measuring impact of capacity building developed	5%							
EF	MS7 Capacity-Building Framework V1 developed	10%							

*Annual Conference: Europeana 2020 - 'Crisis, Change and Culture'*<sup>62</sup> hosted online with over 70 speakers covering 50+ sessions and over 900 cultural heritage professionals joined from across the globe (Europe, India, Australia, Brazil, USA, Philippines, Mexico etc.). Europeana 2020 was designed to look at three specific areas - digital divides, agency for change and collaboration. The event received a high average user satisfaction of 82%.

*Reporting metrics: build capacity of aggregators and professionals*

<sup>62</sup> <https://pro.europeana.eu/page/conference>

No.	Description	Measured by	Frequency	Target	Sep 2020	Oct 2020	Nov 2020
KPI 3.1	Aggregator satisfaction with Europeana (accredited aggregators)	Average satisfaction on a 5-point Likert scale <sup>63</sup>	Once a year	75%	-	-	Expected Jul 2021
KPI 3.2	CHI satisfaction with aggregator (partner in Europeana DSI-4)	Average satisfaction on a 5-point Likert scale	Once a year	75%	-	-	Expected Jul 2021
RM 3.1	Events organised for professionals <sup>64</sup>	Number of events (cumulative)	Bi-monthly	-	4	-	46
RM 3.2	Participants attending events for professionals	Number of participants (cumulative)	Bi-monthly	-	220	-	1,466
RM 3.3	Satisfaction rate for annual conference (Europeana 2020)	Average satisfaction on a 5-point Likert scale	Once a year	-	-	-	82%
RM 3.4	CHIs supported by DSI aggregators	Total number of individual CHIs (cumulative)	Bi-monthly	-	56	-	89
RM 3.5	Coverage of CHIs supported by DSI aggregators	Total number of countries that received support (cumulative)	Bi-monthly	-	21	-	25
RM 3.6	Outreach to CHIs	Total number of new CHIs collaborating with DSI	Bi-monthly	-	23	-	33

<sup>63</sup> The average satisfaction on a 5-point Likert scale is translated into % (e.g. an average of 3.6 stars equals to a satisfaction rate of 72%).

<sup>64</sup> This metric counts events organised by EF. Events can be seen at <https://pro.europeana.eu/page/webinars>.

		aggregators (cumulative)					
RM 3.7	Events delivered through the EAF training programme	Number of events delivered by DSI aggregators and EF (cumulative)	Bi-monthly	-	1	-	17

In the reporting period, EF held 42 events for professionals (while 34 of those sustainable online events/webinars were organised as part of Europeana 2020). The events organised in the period saw 1,246 participants in total. DSI aggregators were involved in 16 capacity building events in the reporting period. The table below shows main events by EF and DSI AGG.

*Overview of communication and dissemination efforts: build capacity of aggregators and professionals*

Partner	Name of event	Activity	Location	Date
<b>Events organised for professionals</b>				
EF	Europeana Sport webinar: Engaging audiences with sport and culture <sup>65</sup>	This webinar explored some of the ways cultural heritage institutions have been engaging audiences through sporting cultural heritage.	Online	01/10/2020
EF	EF conference under the German Presidency <sup>66</sup>	The event explored the role of copyright in the digital transformation of the cultural heritage sector.	Online	05-06/10/2020
EF	#4 Europe's sport heritage <sup>67</sup>	Europeana Lunch Café (ELC) is a monthly online social event.	Online	07/10/2020
EF	Europeana Aggregators' Forum meeting Fall 2020 <sup>68</sup>	The aggregation policy recommendations were concluded in this meeting. The aggregation strategy was presented and discussed as well as the Metis sandbox and new developments of the Europeana website.	Online	15-16/10/2020

<sup>65</sup> <https://pro.europeana.eu/event/europeana-sport-webinar-engaging-audiences-with-sport-and-culture>

<sup>66</sup> <https://pro.europeana.eu/post/copyright-in-the-cultural-heritage-sector-outcomes-of-the-german-presidency-event>

<sup>67</sup> <https://pro.europeana.eu/event/europeana-lunch-cafe-3>

<sup>68</sup> <https://pro.europeana.eu/event/europeana-aggregators-forum-meeting-fall-2020>

EF	Clearing rights in collections, part 1 <sup>69</sup>	This webinar focused on exploring the copyright and licensing issues associated with clearing rights for online use of cultural heritage objects.	Online	20/10/2020
EF	Design your impact: Impact Playbook Phase 1 <sup>70</sup>	This webinar covered the basics, and brought together professionals from across continents and specialisms to discuss the opportunities and challenges we face in demonstrating the impact of cultural heritage.	Online	28/10/2020
EF	Europeana 2020: 'Crisis, Change and Culture' <sup>71</sup>	Europeana 2020 was designed to look at three specific areas - digital divides, agency for change and collaboration. The event offered 34 sustainable webinars <sup>72</sup> which are counted in RM 3.1.	Online	11-13/11/2020
EF	Opening up: approaches from cultural heritage institutions across Europe <sup>73</sup>	In this webinar, guest speakers shared their thoughts on open access to heritage collections from their perspectives as practitioners, advocates and scholars.	Online	18/11/2020

#### Events delivered through the EAF training programme

APEF	Country Managers meeting	Presentation of the updated EDM conversion in APEF including a section about the EPF and the tiers for content and data; Train-the-trainers workshop on rights statements;	Online	24-25/11/2020
BL	Europeana Aggregator Forum	Presentation: 'Making The Most Of Our Music'	Online	15-16/10/2020
Carare	Europeana Archaeology Conference <sup>74</sup>	Presentation 'Background, challenges and semantic possibilities'	Online	8-9/10/2020
Carare	Europeana Aggregator Forum	Lightning talk 'Europeana Archaeology vocabulary service'	Online	15-16/10/2020
Carare	Euromed conference <sup>75</sup> : workshop on 3D research challenges	Presentation '3D content in Europeana: the challenges of providing access'	Online	03/11/2020

<sup>69</sup> <https://pro.europeana.eu/event/clearing-rights-in-collections-part-1>

<sup>70</sup> <https://pro.europeana.eu/event/design-your-impact-impact-playbook-phase-1>

<sup>71</sup> <https://pro.europeana.eu/page/conference>

<sup>72</sup> <https://pro.europeana.eu/page/webinars>

<sup>73</sup> <https://pro.europeana.eu/event/opening-up-approaches-from-cultural-heritage-institutions-across-europe>

<sup>74</sup> <https://www.carare.eu/events/connecting-archaeology-europe/>

<sup>75</sup> [www.euromed2020.com](http://www.euromed2020.com)

Carare	Europeana 2020: 3D in Cultural Heritage panel session	Organiser of panel session on 3D in Cultural heritage	Online	11/11/2020
Carare	EuroWeb Digital Atlas Training Initiative	Training workshop; Presentation on the landscape of databases in Heritage sciences introducing Europeana	Online	11/11/2020
EFG	Meeting with ACMI (Australian Center for the Moving Image)	Presentation of EFG and Europeana aggregation model	Online	21/10/2020
EFG	Rights panel at Film:Restored Festival, Berlin <sup>76</sup>	Copyright clearance and rights <a href="http://statements.org">statements.org</a>	Online	29/10/2020
EFG	University of California (UCLA), Seminar: Media Description and Access	Presentation of EFG and Europeana aggregation model (1h seminar)	Online	24/11/2020
eFashion	EFHA 2020 International Symposium "Is Sharing Always Caring?" <sup>77</sup>	Extensive discussion on open access and cultural appropriation in fashion heritage with 10+ panelists	Online	2-3/11/2020
eFashion	Training workshop "Roads to opening up"	Good practices for rights attribution and clearance for fashion heritage content in collaboration with EF and Creative Commons	Online	2/11/2020
MCA	Europeana 2020	Session on IA // presentation Memex project using Europeana datas	Online	13/11/2020
NISV	EU Screen network meeting	Updates on projects and plans from network members; intro to Europeana Classroom	Online	3-4/11/2020
Photocons	Capacity Building event in the framework of PAGODE technical workshop <sup>78</sup>	Training workshop; Presentations about aggregation routes and semantic enrichment strategies by EKT and NTUA	Online	26/10/2020
Photocons	Digital Transformation for user engagement in cultural heritage,	Training workshop; presentation on copyright and others	Online	5/11/2020

<sup>76</sup> <https://www.deutsche-kinemathek.de/de/besuch/festivals-symposien/filmrestored05#aufzeichnungen>

<sup>77</sup> <https://fashionheritage.eu/reflecting-on-efha2020-symposium-is-sharing-always-caring/>

<sup>78</sup> <https://photoconsortium.net/pagode/2020/09/23/technical-workshop-26-october-2020/>



	workshop in the framework of EUROMED conference <sup>79</sup>			
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*Risk assessment: build capacity of aggregators and professionals*

ID	Risk	Probability of occurrence	Severity of Impact	Rating	Mitigation strategy	Changes
R3.1	Professionals/ Aggregator training and development activities do not meet the needs of the partners, and we do not grow the audience for these	Low (2)	High (4)	8	We work with the ENA and EAF to develop a training and development approach that can be implemented and measured under the capacity building framework. We will regularly review feedback from participants, and implement a holistic approach to promoting these activities to reach a wide audience.	Yes <sup>80</sup>
R3.2	Capacity Building Framework does not meet partner expectations or needs	Low (2)	High (4)	8	Ensure framework is developed and implemented collaboratively with stakeholders, and an effective feedback cycle is established.	-

### **Task 3.2. Nurture networks**

**Partners:** EF, CLARIN, DSI AGG

Under this task we will maintain and develop effective governance as well as the operational activities of the Europeana Network Association (ENA)<sup>81</sup> and Europeana

<sup>79</sup> <https://www.photoconsortium.net/digital-transformation-for-user-engagement-euromed/>

<sup>80</sup> Probability of occurrence changed as assessment changed from 3 to 5 levels, the updated rating better assesses the risk when using a 5 level rating.

<sup>81</sup> <https://pro.europeana.eu/network-association/sign-up>

Aggregators' Forum (EAF)<sup>82</sup> (objective 3.2.1. and objective 3.2.2.). We will facilitate digital change by developing connections with professionals, partners and other networks such as research communities (objective 3.2.3). Our work will be enabled through communicating and promoting the value of the Europeana Initiative (objective 3.2.4.), and by developing the Europeana Pro website (objective 3.2.5.).

*Overview of outcomes: nurture networks*

Partner	Outcomes	Progress	Oct M26	Nov M27	Dec M28	Jan M29	Feb M30	Mar M31	Apr M32	May M33
<b>Objective 3.2.1. Maintain and develop the effective governance of ENA/EAF</b>										
EF/ENA	Periodic meetings organised (incl. Management Board and Members Council)	Ongoing								
EF/ENA	Governance working group <sup>83</sup> (eight members)	Ongoing								
EF/EAF	Periodic meetings of the Steering Group and Forum members organised	Ongoing								
EF/ENA	Membership campaign 2020 concluded	100%								
EF/ENA	Governance renewed (Members Council election, Management Board appointment)	70%								
<b>Objective 3.2.2. Maintain and develop the operational activities of ENA/EAF</b>										
EF/ENA	General management support for Task Forces, Working Groups and communities	Ongoing								
EF/EAF	General management for Task Forces, Working Groups and members	Ongoing								
ENA/EAF, NISV	Annual reports 2020 (ENA and EAF) published	70%								
ENA/EAF, NISV	Annual work plans 2021 (ENA and EAF) developed	50%								
EF	Thematic agenda for Europeana Initiative published	15%								
EF	Strategy and plan to support diversity and growth of ENA and EAF created	Not started								

<sup>82</sup> <https://pro.europeana.eu/page/aggregators>

<sup>83</sup> <https://pro.europeana.eu/project/governance-working-group>

Objective 3.2.3. Engage with research communities									
EF, AthenaRC	Digital Panel on 1940s webinar organised	Done							
EF	Research Grants (2020) launched	60%	■	■	■	■	■	■	
EF, ENA	Research Community: Research Community blog series on Europeana Pro launched	70%	■	■	■	■			
EF, ENA	Research Community: Research Requirements TF's recommendations on researchers' needs <sup>84</sup> available	85%	■	■	■	■	■		
EF	Europeana Research: new strategic plan developed	Not started							
EF	Research Grants (2019) <sup>85</sup> : Events and outputs completed	40%	■	■	■	■	■	■	■
EF, CLARIN	Ingestions into VLO completed	10%	■	■	■	■	■	■	■
EF	OCLC integration	70%	■	■	■	■	■	■	■
CLARIN	Video on CLARIN services in the EOSC	100%	■	■	■	■	■	■	■
Objective 3.2.4. Communicating and promoting to professionals and partners									
EF, GS <sup>86</sup>	Editorial reviewed and all static content updated (Europeana Pro)	Ongoing							
EF	Pro themes published	Ongoing							
EF, GS <sup>87</sup>	(Periodic) activities promoted (newsletters: ENA, Communities & EAF; social media: Twitter, LinkedIn)	Ongoing							
EF	Public consultation on opportunities offered by digital technologies for the culture heritage sector promoted	Done							
EF	Europeana as a 'powerful platform for storytelling' Task Force recommendations <sup>88</sup> available	50%	■	■	■	■	■	■	

<sup>84</sup> <https://pro.europeana.eu/project/research-requirements>

<sup>85</sup> Research Grants 2019 events and outputs were postponed due to COVID-19 pandemic and will still be delivered throughout 2020/2021.

<sup>86</sup> Including all GS projects.

<sup>87</sup> Including GS editorials published on Europeana Pro.

<sup>88</sup> <https://pro.europeana.eu/project/europeana-as-a-powerful-platform-for-storytelling>

Objective 3.2.5. Maintain and develop the Europeana Pro website									
EF	Europeana Pro developed and maintained (bugs, user journeys, software updates)	Ongoing							
EF	More flexible solution for event display on Pro implemented	Done							
EF	FAQ Europeana Pro available	100%	█						
EF	oEmbed for images available	90%	█	█	█				
EF	Code quality and accessibility improvements implemented	20%	█	█	█	█	█	█	█

*Membership campaign 2020 concluded* - The membership campaign<sup>89</sup> started in April 2020 with an aim to provide a better service, update membership-related information and encourage an active network. ENA members were asked to renew their membership by 1 October 2020, and to indicate which community they wished to join. We only asked people who registered before January 2020 to confirm their membership (2,684 members). Out of 2,684 members, more than 1,700 members (about 63%) confirmed their membership and 57 (2.1%) decided to leave the ENA. Around 950 members (around 35%), have not responded to the call. These members were given the last chance to re-confirm their interest to remain in the ENA by the end of the year, or will be deregistered in January 2021. However, even after deregistering those members, we expect the membership count to be around 2,400 due to the intake of over 600 new members since January 2020.

*Video on CLARIN services in the EOSC* - CLARIN published a video to explain how it contributes language resources to the European Open Science Cloud.<sup>90</sup> The video takes the example of the Europeana resources in the CLARIN Virtual Language Observatory. One of the objectives of the partnership with CLARIN is to strengthen Europeana's presence in the EOSC's ecosystem.

*FAQ Europeana Pro available*<sup>91</sup> - In October 2020 we published a set of frequently asked questions related to copyright, aimed at professionals who work at CHIs that share data with Europeana. These questions were selected based on users' needs identified by experts on the topic at EF. The questions point users to relevant resources, information and guides on Europeana Pro to help users navigate a complex topic. We will use this section to help guide visitors to Europeana Pro interested in copyright, promote via the

<sup>89</sup>

<https://pro.europeana.eu/post/renew-your-membership-and-keep-working-with-us-in-the-europeana-network-association>

<sup>90</sup> [https://youtu.be/YvZ9Y\\_uyr7M](https://youtu.be/YvZ9Y_uyr7M)

<sup>91</sup> <https://pro.europeana.eu/page/rights-statements-faq>

Europeana Aggregators Forum and plan to keep refining it to meet user needs and reflect the questions we get.

*Overview of communication and dissemination efforts: Nurture networks*

Partner	Name of event	Activity	Location	Date
EF	Cultural Heritage in a European perspective. Europeana and the digital challenges.	Lecture at the Centre for Digital Humanities at University of Modena and Reggio Emilia. It focused on Europeana resources and tools and their reuse in fields such as History and Language studies; the partnerships with research infrastructures and EF's approach to the European Open Science Cloud (EOSC).	Online	26-10-20
EF	Technological Revolution and Art History	Paper 'Cultural Heritage Reuse Data in Research. The Art Historians' perspective'. EF presented the results of the TF on Research Requirements with a domain-specific approach.	Online	13/11/2020
CLARIN	CLARIN Annual Conference <sup>92</sup>	Update about the status of the infrastructure.	Online	5-7/10/2020

*Reporting metrics: nurture networks*

No.	Description	Measured by	Frequency	Target	Sep 2020		
KPI 3.3	Growth of Europeana Network Association members	Number of members in the ENA	Bi-monthly	2,250	3,208	-	3,344
KPI 3.4	Satisfaction of the Europeana Network Association members with the ENA	Average satisfaction on a 5-point Likert scale <sup>93</sup>	Once a year	75%	-	-	Expected Jun 2021
KPI 3.5	Communities in the Europeana	Number of active communities	Once a year	4	-	-	Expected Aug 2021

<sup>92</sup> <https://www.clarin.eu/event/2020/clarin-annual-conference-2020-virtual-event>

<sup>93</sup> The average satisfaction on a 5-point Likert scale is translated into % (e.g. an average of 3.6 stars equals to an average of 72%).

	Network Association						
KPI 3.6	Task forces in the Europeana Network Association	Number of active task forces per month	Monthly	5	8	8	8
RM 3.8	Retention rate of Europeana Network Association Members	% of members who renewed their membership in 2020	Upon occasion	-	-	-	Expected Jan 2021
RM 3.9	Working groups in the Europeana Network Association	Number of active working groups per month	Bi-monthly	-	2	-	2
RM 3.10	Active members in the Europeana Network Association	Number of members participating in task forces and working groups per month	Bi-monthly	-	125	-	130
RM 3.11	Research Grants events	Total number of events organised (cumulative) <sup>94</sup>	Bi-monthly	-	1	-	1
RM 3.12	People reached with research Grants events	Total number of people participating in events (cumulative)	Bi-monthly	-	120	120	120
RM 3.13	Research Grants outcomes	Total number of outcomes delivered (cumulative)	Bi-monthly	-	-	-	Expected Aug 2021

<sup>94</sup> Note: due to the COVID pandemic some events of the Research Grants programme 2019 are still due to be completed in 2020/2021.

RM 3.14	Reach to Europeana Research community	Number of people reached per month (Mailing list, Twitter)	Bi-monthly	-	5,013	-	5,339
RM 3.15	Traffic to Europeana Pro	Number of visits per month	Monthly	-	27,316	28,643	40,631
RM 3.16	Returning visitors to Europeana Pro	Percentage of visitors returning	Monthly	-	38.20%	38.50%	45.70%
RM 3.17	New visitors to Europeana Pro	Total number of new visitors per month	Monthly	-	16,882	17,622	22,052
RM 3.18	Satisfaction rate for Europeana Pro	Average satisfaction on a 5-point Likert scale	Once a year	-	-	-	Expected Jul 2021
RM 3.19	Reach to Europeana Communicators community	Number of people reached per month (Newsletter, LinkedIn, mailing list)	Bi-monthly	-	1,465	-	1,642

*Engagement on Europeana Pro* - In November, Europeana Pro hit an all time high for traffic (40,631 visits). We recorded over 10,000 more visits in a single month than ever before, and whilst the most visited page was the Europeana 2020 conference page (with 7,500 visits). All sections saw a large increase in traffic, which highlights the positive impact of a digital conference in raising awareness of the Europeana Initiative. More generally both months saw an increase vs. 2019 which reflects the continued success of the new Europeana Pro website, and the increased and improved promotion of our tools and services. An example of this is our newly created webinar section, which rose from 71 visits in its first month (August 2020) to over 1,000 in November.

*Risk assessment: nurture networks*

ID	Risk	Probability of	Severity of	Rating	Mitigation strategy	Changes
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		<b>occurrence</b>	<b>Impact</b>			
R3.3	Losing a high number of ENA members: membership campaign planned for 2020 will ask members to re-confirm their membership	High (4)	Low (2)	8	Encourage re-confirmation by sending reminders, communicating the value of being an ENA member	Yes <sup>95</sup>
R3.4	Task forces do not finish recommendations on time	Medium (3)	Low (2)	6	Manage expectations and be aware of potential impact for Europeana DSI; accommodate extension of task force work	-
R3.5	Community members show little activity and engagement	Medium (3)	Low (2)	6	Provide calls to action, meeting and webinars, useful tools and material, active information flow	Yes <sup>96</sup>
R3.6	CHIs are not aware of research development contributions	Medium (3)	Low (2)	6	All research developments should benefit CHIs, benefits should be communicated to CHIs, initiatives (conferences/works hops) to improve digital skills and literacy of CHI professionals	-
R3.7	Digital collections do not comply with the FAIR principles <sup>97</sup> and are not considered to meet the quality criteria to be used in academic research	High (4)	Low (2)	8	Create awareness of the importance of the FAIR principles in the GLAM sector.	Yes <sup>98</sup>

<sup>95</sup> Probability of occurrence and severity of impact changed as assessment changed from 3 to 5 levels, the updated rating better assesses the risk when using a 5 level rating.

<sup>96</sup> Severity of impact changed from high to low as we assessed the impact as less severe.

<sup>97</sup> [Http s://www.go-fair.org/fair-principles/](http://www.go-fair.org/fair-principles/)

<sup>98</sup> Severity of impact changed as assessment changed from 3 to 5 levels, the updated rating better assesses the risk when using a 5 level rating.



R3.8	Research grants: events and outputs postponed	High (4)	Low (2)	8	The COVID-19 pandemic has obliged us to postpone all the in person events planned for March - June 2020 to autumn 2020 or summer 2021. This will cause a delay in delivering the related outputs, originally due by December 2020 at the latest.	-
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### **Task 3.3. Strengthen national infrastructures**

**Partners:** EF

Under this task we will maintain and develop activities that demonstrate the value of the Europeana Initiative to national infrastructures. We will facilitate the adoption of our Licensing Framework and reinforce the value in a common legal framework (objective 3.3.1.). We will develop and maintain the Europeana Impact Framework and an evidence base to establish a measure of change and progress across the sector (objective 3.3.2.). We will also engage with EU Member States to raise awareness of the Europeana Initiative and engage in relevant policy areas (objective 3.3.3).

*Overview of outcomes: strengthen national infrastructures*

Partner	Outcomes	Progress	Oct M26	Nov M27	Dec M28	Jan M29	Feb M30	Mar M31	Apr M32	May M33
<b>Objective 3.3.1. Develop and maintain interoperable licensing framework</b>										
EF/ENA	Copyright Community Task Force: rights labelling Task Force completed	70%	■	■	■	■	■	■		
EF	RightsStatements.org strategy and plan 2021 developed	Not started			■	■	■	■		
EF	RightsStatements.org Task Force: Supporting the implementation of statements completed	30%	■	■	■	■	■	■	■	■
EF/ENA	Guidelines on good practice for institutions to manage copyright developed and promoted	50%	■	■	■	■	■	■		

EF	RightsStatements.org: Implementing recommendations of membership model	60%	
EF	Copyright webinar serie for aggregators completed and evaluated	80%	
EF	Key documents translated (Public domain charter <sup>99</sup> , Public domain guidelines <sup>100</sup> )	90%	
<b>Objective 3.3.2. Developing the evidence of digital transformation</b>			
EF	Longitudinal research into impact of EF services supported	Ongoing	
ENA	Impact lite Task Force completed	10%	
EF	Impact question bank published on Europeana Pro	75%	
EF	Phase 3 Europeana Impact Playbook published	10%	
EF	MS8 Report on impact research and development published	Not started	
EF	Phase 3 Europeana Impact Playbook draft for review	20%	
EF	New Professionals Task Force completed	60%	
<b>Objective 3.3.3 Engage with Member States</b>			
EF	German presidency Europeana conference	100%	
EF	German Presidency Europeana conference report published	50%	
EF	Portuguese presidency event/report	Not started	

*German presidency Europeana conference* - The Europeana conference under the German Presidency on 5 and 6 October explored the role that copyright plays in the digital transformation of the cultural heritage sector. The conference was organised in collaboration with the German National Library as part of the cultural programme of the

<sup>99</sup> <https://pro.europeana.eu/post/the-europeana-public-domain-charter>

<sup>100</sup> <https://www.europeana.eu/en/rights/public-domain-usage-guidelines>

German Presidency. More than 40 DCHE members and copyright advocates and experts from 21 countries participated in the event. The conference looked at the background to digital transformation and copyright, where we stand, and what might come next. It was agreed that there is a need to collaborate across the sector. Europeana will explore ways to keep an up-to-date overview of positive initiatives across the Member States, and will continue engaging in discussions on how the copyright in the Digital Single Market Directive can support the sector.<sup>101</sup> Despite a small response rate, the survey respondents indicated a high level of satisfaction with the conference programme and experience.

*Overview of communication and dissemination efforts: build capacity of aggregators and professionals*

Partner	Name of event	Activity	Location	Date
Open GLAM, Europeana Copyright Community, and MCN Intellectual Property Special Interest Group	Open GLAM and impact: Re-using digital cultural heritage <sup>102</sup>	Presentation of Europeana Impact Playbook and contribution to discussion on how to measure the impact of the reuse of digital cultural heritage	Online	29/10/2020

*Reporting metrics: strengthen national infrastructures*

No.	Description	Measured by	Frequency	Target	Sep 2020	Oct 2020	Nov 2020
KPI 3.7	Take up of rs.org	Percentage of active aggregators that integrated rs.org in their infrastructure	Once a year	35%	-	-	Expected Aug 2021
RM 3.20	Use of rs.org by accredited aggregators	Percentage of accredited aggregators that share data using a rights statements from the rs.org	Once a year	-	-	-	Expected Aug 2021
RM 3.21	Use of rs.org rights	Number of objects	Bi-monthly	-	-	-	18,696,409

<sup>101</sup>

<https://pro.europeana.eu/post/copyright-in-the-cultural-heritage-sector-outcomes-of-the-german-presidency-event>

<sup>102</sup>

<https://www.eventbrite.com/ar/e/open-glam-and-impact-re-using-digital-cultural-heritage-registration-124546374559#>

	statements	published on the Europeana website with a rs.org rights statement (excluding content Tier 0)					
RM 3.22	Reach to Europeana Copyright community	Number of people reached per month (Mailing list, Twitter, newsletter)		-	2,874	-	3,027
RM 3.23	Reach to Europeana Impact community	Number of people reached per month (Newsletter, LinkedIn)	Bi-monthly	-	1,352	-	1,442
RM 3.24	Satisfaction with the Europeana EU presidency events	Average satisfaction on a 5-point Likert scale <sup>103</sup>	Upon occasion	-	-	86.6% <sup>104</sup>	-

*Risk assessment: strengthen national infrastructures*

ID	Risk	Probability of occurrence	Severity of Impact	Rating	Mitigation strategy	Changes
R3.9	Rightsstatement.org: Challenge to build a sustainable consortium 2020 - especially more challenging post-covid	Low (2)	Medium (3)	6	The new membership model is operational in 2020, and a revision of services offered by the consortium will together be used to attract new members.	Yes <sup>105</sup>

<sup>103</sup> The average satisfaction on a 5-point Likert scale is translated into % (e.g. an average of 3.6 stars equals to a satisfaction rate of 72%).

<sup>104</sup> Note: the survey had a very low response rate (3 respondents).

<sup>105</sup> Severity of impact changed as assessment changed from 3 to 5 levels, the updated rating better assesses the risk when using a 5 level rating.

					Post-covid we are taking steps to specifically re-review the model and simplify in light of the perceived impact.	
R3.10	Ongoing Impact research cannot be completed or updated in a timely manner due to external factors during the process (e.g. insufficient data collection)	Medium (3)	Medium (3)	9	<p>Involve internal stakeholders and members of the network to provide motivation and opportunity to support this work to ensure a timely completion.</p> <p>Set out work to date and a framework and plan (including surveys, etc) in which impact assessment might be completed at a later date, for those impact assessments where it is felt that communication with the sector is affected.</p>	-
R3.11	Impact toolkit is not being used	Low (2)	Medium (3)	6	Work with the community to help people learn how to use it and to make it more accessible for them to use. We are scheduling webinars to guide professionals through the toolkit and to introduce the resources available. We are also developing a question bank to make the process of using the toolkit	-

					even more accessible.	
R3.12	In an online environment co-creation sessions and workshops as part of the presidency conferences are challenging. There is a risk that the shared understanding is not achieved and the recommendations are not sufficiently implemented.	Medium (3)	Medium (3)	9	Explore and use methods and tools that allow for ideation and collaborative co-creation resulting in shared understanding amongst the participants.	Yes <sup>106</sup>

## Work package 4: Programme management

EF will provide high-quality programme management for Europeana DSI-4 (task 4.1.). We will manage good relations with Europeana DSI Generic services (GS) projects and the integration of GS project outcomes (task 4.2.). We will work closely with the European Commission, the Expert Group on Digital Cultural Heritage and Europeana (DCHE) and its subgroups to review activities and developments of the Europeana Initiative (task 4.3.). Full documentation of Europeana DSI will also be provided to facilitate the transfer processes to a successor supplier (task 4.4.).

### **Task 4.1. Programme management of Europeana DSI-4**

**Partners:** EF

EF will coordinate Europeana DSI-4 as described in the tender and B.1 Implementation plan M24.

#### *Overview of outcomes*

Partner	Outcomes	Progress	Oct M26	Nov M27	Dec M28	Jan M29	Feb M30	Mar M31	Apr M32	May M33
EF	Programme management	Ongoing								
B.2/B.3	Periodic reports M26	100%	■							
D.1	Communication and dissemination plan	100%	■	■						

In the reporting period, we submitted periodic report M26 as well as the communication and dissemination plan to EC. Reports are available on Europeana Pro.<sup>107</sup>

<sup>106</sup> Risk added new.

<sup>107</sup> Available on the Europeana DSI-4 project page. <https://pro.europeana.eu/project/europeana-dsi-4>

### Communication and dissemination activities

Partner	Name of event	Activity	Location	Date
EF	Rethinking Culture and Science <sup>108</sup>	Presentation 'Empowering digital change - the role of Europeana in digital transformation'	Online	7/10/2020
EF	Euromed 2020 <sup>109</sup>	Speaker: Challenges of 'Digital Transformation' including some discussion on 3D.	Online	2/11/2020
EF	'Audiovisual Heritage and its Potential' <sup>110</sup> - Ministry of Culture of the Republic of Lithuania	Presentation 'Covid-19 & digital transformation of (audio-visual) cultural heritage'	Online	5/11/2020
EF	2020 ENCATC Digital Congress <sup>111</sup>	Panel discussion on 'Media convergence and audience development in post-digital context'.	Online	11/11/2020

### Balance of efforts

The balance of efforts table states the foreseen and actual percentages of resources allocated to each of the four work packages and its related tasks.

#### Balance of efforts per Work Package

Work package	Foreseen	Actual Nov 2020
<b>WP 1: Strengthen the infrastructure</b>	<b>49.50%</b>	<b>49.97%</b>
Task 1.1. Easy data publishing	11.60%	12.11%
Task 1.2. Europeana website experience	14.90%	12.71%
Task 1.3. Reliable platforms	8.40%	10.68%
Task 1.4. Discoverability of digital cultural content	14.60%	14.47%
<b>Work package 2: Improve data quality</b>	<b>17.50%</b>	<b>17.10%</b>
Task 2.1. Quality assured data	12.50%	11.50%
Task 2.2. Enriched data	5.00%	5.60%

<sup>108</sup> <https://www.dnb.de/EN/Ueber-uns/EU-Ratspraesidentschaft/rethinkingcultureandscience.html>

<sup>109</sup> <https://www.euromed2020.eu/keynote-speakers>

<sup>110</sup> <https://lrkm.lrv.lt/en/news/invitation-to-the-conference-on-audiovisual-heritage>

<sup>111</sup> <https://encatccongress.org/>

<b>Work package 3: Build capacity</b>	<b>26.50%</b>	<b>25.09%</b>
Task 3.1. Build capacity of aggregators and professionals	10.80%	12.93%
Task 3.2. Nurture networks	9.60%	7.23%
Task 3.3. Strengthen national infrastructures	6.10%	4.93%
<b>Work package 4: Programme management</b>	<b>6.50%</b>	<b>7.84%</b>
Task 4.1. Programme management of Europeana DSI-4	6.00%	6.74%
Task 4.2. Relations with Europeana DSI Generic Services projects	0.20%	0.92%
Task 4.3. Governance (DCHE)	0.10%	0.10%
Task 4.4. Phasing-in and phasing-out periods	0.20%	0.08%
<b>TOTAL</b>	<b>100%</b>	<b>100%</b>

### Major changes in staff, if applicable

No updates for M26/M27.

### Risk assessment: Programme management of Europeana DSI-4

ID	Risk	Probability of occurrence	Severity of Impact	Rating	Mitigation strategy	Changes
R4.1	Individual outcomes require more work than anticipated which might affect other outcomes committed to	Low (2)	Medium (3)	6	Careful planning of efforts and resources needed for individual work, communication and awareness building of challenges, agreeing on priorities	Yes <sup>112</sup>
R4.2	Additional work or extended scope of work is done which	Medium	Medium	9	Management of expectations	Yes <sup>113</sup>

<sup>112</sup> Rating changed as assessment changed from 3 to 5 levels, the updated rating better assesses the risk when using a 5 level rating.

<sup>113</sup> Rating changed as assessment changed from 3 to 5 levels, the updated rating better assesses the risk when using a 5 level rating.



	might affect other outcomes committed to	(3)	(3)		towards individual outcomes, communication and awareness building of challenges, agreeing on priorities	
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## **Task 4.2. Relations with Europeana Generic Services projects**

**Partners:** EF

EF maintains regular contact with the funded Europeana DSI Generic Services (GS) projects (e.g. via Basecamp groups) and supports them with ingestion of content and metadata (if applicable), consultation on the Europeana frameworks, policy and development guidelines, tool integration into Europeana CSP and dissemination of the project results. Specific work undertaken in the reporting period is described in the respective subject areas of this report (e.g. technical developments, editorial contributions).

*Overview of progress: Europeana Generic Services projects*

Partner	Outcomes	Progress	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
			M26	M27	M28	M29	M30	M31	M32	M33
EF	Programme coordination	Ongoing								
<b>Objective 4.2.1. Supporting Europeana Generic Services (CEF-TC-2018-1) call</b>										
EF	Judaica Europeana 2.0 <sup>114</sup>	N/A <sup>115</sup>								
EF	LinBi <sup>116</sup>	100%								
EF	Europeana Archaeology <sup>117</sup>	100%								
EF	Europeana Common Culture <sup>118</sup>	95%								
<b>Objective 4.2.2. Supporting Europeana Generic Services (CEF-TC-2019-1) call</b>										
EF	Europeana XX <sup>119</sup>	50%								
EF	Europeana Pagode <sup>120</sup>	N/A								

<sup>114</sup> <https://www.jhn.ngo/judaica-europeana-20/>

<sup>115</sup> In projects marked with N/A (not applicable) we are not partners and therefore we do not receive progress updates from the projects. A progress indication can not be provided.

<sup>116</sup> <https://linbi.eu/>

<sup>117</sup> <https://pro.europeana.eu/project/europeana-archaeology>

<sup>118</sup> <https://pro.europeana.eu/project/europeana-common-culture>

<sup>119</sup> <https://pro.europeana.eu/project/europeana-xx>

<sup>120</sup> <https://pro.europeana.eu/project/pagode-europeana-china>

EF	Europeana Sport <sup>121</sup>	10%							
EF	ARMA - the art of reading in the middle ages <sup>122</sup>	10%							
<b>Objective 4.2.3. Supporting Europeana Generic Services (CEF-TC-2020-1) call</b>									
No active work in M26/M27.									

*LinBi*<sup>123</sup> - LinBi aimed at to enrich Europeana Natural History<sup>124</sup> collection and increase its use by non-scientific audiences. The project created the LinBi Simple Vocabulary<sup>125</sup> which links basic terms to scientific biodiversity data, and with this vocabulary the project enriched the metadata of more than 1 million Europeana records. Additionally, LinBi aggregated to Europeana more than 1.5 million records, of which 95% are in the highest content tier 4. The project created a new aggregation pathway to Europeana for biodiversity content: the LinBi enrichment platform<sup>126</sup>, which provides tools for linking, enriching and creating new objects in the EDM format. Lastly, the project created 3 online exhibitions: 'Edible Plants from the Americas'<sup>127</sup>, 'François Crépin and the Study of Wild Roses'<sup>128</sup> and 'Magical, Mystical and Medicinal'<sup>129</sup>, each of which is written in more than 2 EU languages.

*Europeana Archaeology*<sup>130</sup> - the project aimed to increase the amount of high-quality digital content on the Europeana Archaeology collection<sup>131</sup>. The project delivered more than 305,000 records<sup>132</sup>. 50% of the delivered content is of very high quality (Tier 3+) and almost 100% of the metadata is in Tier B+. From these records, 655 are new 3D high-quality records<sup>133</sup>. Furthermore, the project developed a new enrichment pathway - the Europeana Archaeology Vocabulary Services tool<sup>134</sup> which focuses on improving the discoverability and multilinguality of Europeana archaeological content. Lastly, the project created an online

<sup>121</sup> <https://pro.europeana.eu/project/europeana-sport>

<sup>122</sup> <https://pro.europeana.eu/project/the-art-of-reading-in-the-middle-ages-arma>

<sup>123</sup> <https://pro.europeana.eu/project/linbi>

<sup>124</sup> <https://www.europeana.eu/en/collections/topic/156-natural-history>

<sup>125</sup> [http://test113.ait.co.at/tematres/LinBi\\_Simple\\_Voc/index.php](http://test113.ait.co.at/tematres/LinBi_Simple_Voc/index.php)

<sup>126</sup> <https://pro.europeana.eu/page/linbi-enrichment-platform>

<sup>127</sup> <https://www.europeana.eu/en/exhibitions/edible-plants-from-the-americas>

<sup>128</sup> <https://www.europeana.eu/en/exhibitions/francois-crepin-and-the-study-of-wild-roses>

<sup>129</sup> <https://www.europeana.eu/en/exhibitions/francois-crepin-and-the-study-of-wild-roses>

<sup>130</sup> <https://pro.europeana.eu/project/europeana-archaeology>

<sup>131</sup> <https://www.europeana.eu/portal/en/collections/archaeology>

<sup>132</sup>

[https://www.europeana.eu/en/search?query=proxy\\_dcterms\\_isPartOf%3A%22Europeana%20Archaeology%22%2a&view=gri](https://www.europeana.eu/en/search?query=proxy_dcterms_isPartOf%3A%22Europeana%20Archaeology%22%2a&view=gri)

<sup>133</sup>

[https://www.europeana.eu/en/search?page=1&qf=TYPE%3A%223D%22&query=proxy\\_dcterms\\_isPartOf%3A%22Europeana%20Archaeology%22%2a&view=grid](https://www.europeana.eu/en/search?page=1&qf=TYPE%3A%223D%22&query=proxy_dcterms_isPartOf%3A%22Europeana%20Archaeology%22%2a&view=grid)

<sup>134</sup> <https://app-share3d.imsl.athenarc.gr/mappings/login>

exhibition called 'Uncovering hidden stories: an introduction to European Archaeology'<sup>135</sup> and 28 editorial works available on Europeana.

Moreover, on 1 October 2020, two new GS projects from the CEF-TC-2019-1 call<sup>136</sup> started. The two projects were initially in the reserved list and were officially funded in May 2020. Europeana Sport' aims to increase the amount of high-quality content and metadata on the theme of sport in Europeana. The 'ARMA - the art of reading in the middle ages' project aims at showcasing how medieval reading culture evolved and became a fundament of European culture by creating a set of editorials activities as well as bringing newly digitised manuscripts to Europeana.

*Risk assessment: Relations with Europeana Generic Services projects*

ID	Risk	Probability of occurrence	Severity of Impact	Rating	Mitigation strategy	Changes
R4.3	Generic Services projects bring extra requirements (for data ingestion and reingestion, technical updates, editorials, comms). As the GS requirements can be time-sensitive and time consuming, DSI work might be delayed to accommodate and fulfill these requests.	Medium (3)	High (4)	12	<p>Implementation of a new process for better coordination of the respective ingestions of the projects.</p> <p>Raising awareness of the partners early in the project of the importance of ingestion timelines and of the need to comply with the agreed time of submission.</p> <p>Monthly internal GS team meeting for better coordination and risk mitigation.</p> <p>Continuous collaboration with project partners to flag and mitigate possible risks.</p>	Yes <sup>137</sup>

<sup>135</sup> <https://www.europeana.eu/en/exhibitions/uncovering-hidden-stories>

<sup>136</sup> <https://ec.europa.eu/inea/en/connecting-europe-facility/cef-telecom/apply-funding/2019-europeana>

<sup>137</sup> New risk added.

### **Task 4.3. Governance (DCHE)**

**Partners:** EF

Under WP7 EF reports to the European Commission, the Expert Group on Digital Cultural Heritage and Europeana (DCHE)<sup>138</sup> and its sub-groups the status of the Europeana DSI platform, activities and developments as well as re-prioritise developments of the platform based on received feedback and validation with users.

On 28 October 2020 the Expert Group on Digital Cultural Heritage and Europeana (DCHE) met in an online meeting. More information available here<sup>139</sup>.

### **Task 4.4. Phasing-in and phasing-out periods**

**Partners:** EF

The task provides correct and up-to-date information to the European Commission on assets and liabilities related to the Europeana platform and tests phasing-out and transfer processes to a successor supplier.

No activities in M26/M27.

## **Annex: Updates towards milestones**

The table states the status of milestones to be delivered in year 3 of Europeana DSI-4.

<b>MS No.</b>	<b>WP</b>	<b>Description</b>	<b>Verification</b>	<b>Due date</b>	<b>Status</b>
MS1	WP1	Metis Sandbox report on its contribution to the aggregation strategy delivered	Milestone document sent to EC	M32 (Apr 2021)	Due
MS2	WP1	Search strategy delivered (including community feedback)	Milestone document sent to EC	M32 (Apr 2021)	Due
MS3	WP1	Outcomes of multilingual experiments, and their contribution to the multilingual strategy	Milestone document sent to EC	M36 (Aug 2021)	Due

<sup>138</sup> <https://ec.europa.eu/digital-single-market/en/expert-group-digital-cultural-heritage-and-europeana-dche>

<sup>139</sup>

<https://ec.europa.eu/digital-single-market/en/news/eighth-meeting-european-commissions-expert-group-digital-cultural-heritage-and-europeana-dche>

MS4	WP2	Review of individual data quality plans with respective DSI partners	Milestone document sent to EC	M30 (Feb 2021) M36 (Aug 2021)	Due
MS5	WP2	EPF 3.0 delivered with case studies and integrated problem patterns	Framework sent to EC	M36 (Aug 2021)	Due
MS6	WP3	Preliminary results and feasibility study	Milestone document sent to EC	M36 (Aug 2021)	Due
MS7	WP3	Capacity-Building Framework V1 developed	Framework sent to EC	M36 (Aug 2021)	Due
MS8	WP3	Report on impact research and development published	Milestone document sent to EC	M36 (Aug 2021)	Due

## Annex: Progress on deliverables (M25-M36)

This table states progress on deliverables and what deliverables were submitted to EC.<sup>140</sup>

ID	Description	Due month	Done	Due
A.1	Platform reports	Every 10 months, starting M10	-	M30 (Feb 2021)
B.1	Implementation Plan	M01 and every 12 months thereafter	-	M36 (Aug 2021)
B.2/ B.3	Periodic reports	Every 2 months, starting M2	M26 (Oct 2020) and M28 (Dec 2020)	M30 (Feb 2021) - M36 (Aug 2021)
B.4	Annual report	Every 12 months, starting M12	-	M36 (Aug 2021)
B.5	Final report	Last month of the contract M36 (Aug 2021) or M48 (Aug 2022) in case of renewals		
C.1	Technical documentation	Every 12 months, starting M32	-	M32 (Apr 2021)
C.2/ C.3	Users and usage report	Every 5 months, starting M5	M25 (Sep 2020)	M30 (Feb 2021), M35 (Jul 2021)
C.4	Stress and disaster recovery test reports	Every 12 months, starting M31	-	M31 (Mar 2021)

<sup>140</sup> Note: the schedule of deliverables was updated in January 2020.

D.1	Communication and dissemination plan	Every 9 months, starting M9	M27 (Nov 2020)	M36 (Aug 2021)
D.2	Study on impact of digitisation and reuse of cultural heritage	October every second year, starting Y2	-	-
E.1	Transfer of assets and liabilities report	M1, M10 (for E.1 and E.2) and M1, M6, M12 (for E.3) and then for all: 4 months before the contract ends (M20, April 2020) or M32 (April 2021)/44 (April 2022) in case of renewals	-	4 months before the contract ends: M32 (April 2021) or M44 (April 2022) in case of renewals
E.2	Transfer process report		-	
E.3	Employed staff report		-	

## Annex: Glossary of terms

Formal definitions of terms used frequently are detailed in the glossary of terms<sup>141</sup> on Europeana Pro. Additional terms are listed below.

DC	Dublin Core (DC) is a small set of vocabulary terms that can be used to describe digital resources (video, images, web pages, etc.), as well as physical resources such as books or CDs, and objects like artworks.
eCloud	eCloud is a cloud-based infrastructure that allows to efficiently store, share and provide access to digital cultural heritage. The data storage part of eCloud relies on the Cassandra database.
eCloud component: IIIF image server	The IIIF image server allows to efficiently store, share and provide access to IIIF images as one component of eCloud.
ELK	'ELK' is the acronym for three open source projects: Elasticsearch, Logstash, and Kibana. ELK enables the collection, storage, search and visualisation of log data.
Entities	Entities (such as persons, topics and places) are part of the Europeana Entity Collection, a collection of entities in the context of Europeana harvested from and linked to controlled vocabularies, such as Geonames, Dbpedia and Wikidata.
Entity pages	Entity pages showcase related entities towards persons, topics and places. For example: <a href="https://www.europeana.eu/portal/en/explore/people/61016-alphonse-m-ucha.html">https://www.europeana.eu/portal/en/explore/people/61016-alphonse-m-ucha.html</a>
Entity API	The Entities API allows to search on or retrieve information from named entities.
MARC21	Format for Bibliographic Data
Metis	Data and aggregation infrastructure through which allows to import, transform, validate and enrich metadata. <a href="https://metis.europeana.eu/home">https://metis.europeana.eu/home</a>
Metis component: Link Checking service	This service allows the checking of links in the EDM data during the aggregation process (when the data is imported the first time but also after it has been published).
Metis component: Media service	This service is responsible for technical metadata extraction and thumbnail generation.
MINT	Mapping tool to define semantic mappings between source and target

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<sup>141</sup> <https://pro.europeana.eu/resources/standardization-tools/glossary>

	schemas.
Mongo database	MongoDB is a document database that stores the Europeana data in JSON-like documents. The Europeana APIs relies on Solr to search for records while the metadata associated to those data comes from Mongo.
Newspaper full-text service	This service allows to search for a term in the full-text of newspapers .
Schema.org	Webmasters use this shared vocabulary to structure metadata on their websites and to help search engines understand the published content, a technique known as search engine optimization. <a href="https://en.wikipedia.org/wiki/Schema.org">https://en.wikipedia.org/wiki/Schema.org</a>
Solr index	It is the search engine powering the Europeana Collections portal. Apache Solr is an open-source platform used at Europeana for full-text (e.g. metadata) index and search.
UIM infrastructure	The United Ingestion Manager is the suite of tools used to run the data aggregation activities prior to Metis.