



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

CONTRACT NUMBER - LC - 00822914

**DELIVERABLE**

## **B.2/B.3 Periodic report M44**

<b>Revision</b>	1.1
<b>Date of submission</b>	30 April 2022
<b>Author(s)</b>	Management team and Julia Schellenberg, Europeana Foundation
<b>Dissemination Level</b>	Public



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the European Union

# REVISION HISTORY AND STATEMENT OF ORIGINALITY

## Revision History

Revision No.	Date	Author	Organisation	Description
0.1	22-04-2022	Valentine Charles, Jochen Vermeulen, Dasha Moskalenko, Antoine Isaac, Hugo Manguinhas, Douglas McCarthy, Isabel Crespo, Jolan Wuyts, Henning Scholz, Julia Fallon, Gina van der Linden, Sebastiaan ter Burg, Nicole McNeilly, Zuzana Malicherova, Alba Irollo, Nicholas Jarrett, Ariadna Matas, Shadi Ardalan, Alex Romaniuc, Albert Verhaar, Julia Schellenberg	Europeana Foundation	Draft
1.0	29-04-2022	Julia Schellenberg, Valentine Charles, Hannah Baker Hitzhusen	Europeana Foundation	Final version
1.1	03-05-2022	Alex Romaniuc, Milena Popova	Europeana Foundation	Task 4.2. updated

Periodic reports can be viewed and accessed online in the document section on the Europeana DSI-4 project page<sup>1</sup>.

Europeana DSI-4 is funded by the European Union's Connecting Europe Facility. It is operated by a consortium led by the Europeana Foundation, under a service contract with the European Commission, contract number LC - 00822914.

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

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## Highlights

In this period, we released Metis Sandbox V2. We also completed training resources (V1) for the Metis Sandbox for aggregators, training resources (V1) for the Statistics Dashboard, and training resources (V1) to support the choice of accurate rights statements.

We released new filters on the search and entity collection pages making it easier for people to interact with filters.

In March 2022, we organised and promoted this year's Women's History Month. We also launched and promoted four runs and language versions of the Digital Education with Cultural Heritage MOOC (English, Italian, Croatian and Greek).

We evaluated progress of actions taken to re-engage with inactive partners. In February 2022, about 18 months since we started this strand of work, the number of records that have not been updated since 1 January 2017 has decreased from 18 million to 13.4 million records.

We published the EDM extension for provenance of metadata enrichments and translations which allows the platform to distinguish original metadata from new enrichments and translations, and the confidence level of these additions.

We completed the 2nd cohort of the DEN Leadership programme which was initiated to offer tangible solutions and meaningful knowledge exchange to embed digital transformation in institutions and to research the need and possibilities of a sustainable offering of this (kind of) programme.

In this period, we published the ENA community work plans 2022 as well as ENA and EAF annual work plans for 2022. We also launched a new Europeana Initiative wide working group - the Digital Cultural Heritage of Ukraine Working Group (EF/ENA/EAF).

In this period, we also completed outcomes that aim to harmonise and improve our frameworks: version 1 for the Europeana general framework design and an evaluation of Europeana frameworks compliance with the framework design as well as an updated Europeana Glossary.

Finally, we organised the French Presidency event in collaboration with the Ministry of Culture of France and Mobilier National. It involved 330 participants from across the sector. The conference aimed to stimulate reflection and dialogue around the creation of the common European data space for cultural heritage, the needs, the key challenges and the aspirations for achieving that. The event received a very good average satisfaction of 82%.

## Introduction

The periodic report describes work carried out under Europeana DSI-4 from 1 February 2022 (M42) until 31 March 2022 (M43) based on the implementation plan (B.1 deliverable M36).

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 as well as the integration of other project outcomes (including Generic Services (GS) projects) into Europeana DSI.

All outcomes to be completed as stated in B.1 Implementation plan M36 are included in this periodic report. All implementation plan outcomes 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.<sup>3</sup> The risk assessment is reviewed and updated bi-monthly; in the event of changes (e.g. 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 M36 <sup>4</sup>
	Colour blue indicates the expected timeframe of the outcome
	Colour black indicates that an outcome was completed 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> 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>4</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.

# 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
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
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
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. It focuses 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 and 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. This year, developments will continue to revolve around the implementation of the aggregation strategy<sup>5</sup>. We will speed up and enhance the reliability of the publishing process via Metis (objective 1.1.1.), support data providers in the testing of their data via the Metis Sandbox (objective 1.1.2.) and also invest in a fast-track for publishing data in Europeana (objective 1.1.3.).

*Overview of outcomes: easy data publishing*

Partner	Outcomes	Progress	Due date	Feb M42	Mar M43	Apr M44	May M45	Jun M46
<b>Objective 1.1.1. Extend and maintain Metis</b>								
EF, PSNC	Incremental media processing implemented	10%	Jun '22					
PSNC	eCloud data model reviewed and refactored	20%	Aug '22					
PSNC	Data storage mechanisms in eCloud optimised	30%	Aug '22					
EF, PSNC	System upgrades and performance are maintained (bugs fixing, infrastructure upgrades, refinement of existing features) - 20% of M42/M43	Ongoing	-					
<b>Objective 1.1.2. Enable Metis Sandbox</b>								

<sup>5</sup> <https://pro.europeana.eu/post/europeana-dsi-4-aggregation-strategy>

EF, PSNC	Metis <i>Extended Sandbox</i> supports one additional data source for conversion to EDM <sup>6</sup>	Done	Dec '21						
EF	Tiers calculation module in Metis <i>Extended Sandbox</i> available	Done	Jan '22						
EF	Training resources (V1) for Metis Sandbox (for Aggregators) developed	100%	Feb '22	■					
EF	Feedback for further development of the Metis <i>Extended Sandbox</i> is collected	30%	Apr '22	■	■	■			
EF, PSNC	Metis <i>Extended Sandbox</i> data sources options for conversion to EDMs extended <sup>7</sup>	Not started	Aug '22						
EF	Metis Sandbox consolidated and maintained (bugs fixing, infrastructure upgrades, refinement of existing features) - 20% of M42/M43	Ongoing	-						
EF	Release of Sandbox V2	100%	Mar '22	■	■				
<b>Objective 1.1.3. Enable fast track publishing workflow</b>									
EF, PSNC	Report on review and proposed amendments to the Aggregation Strategy roadmap (including progress update)	Not started	Apr '22						
EF, PSNC	Validated Aggregation Strategy roadmap actions implemented	Not started	Jul '22						
EF	MS1 Report on progress on the aggregation strategy delivered (internal)	Not started	Aug '22						

*Incremental Media Processing Implemented (intermediate update)* - we have completed the functional design phase for this outcome. We will implement a throttling mechanism by which we can force media processing to happen in a more incremental way, by limiting the number of concurrent processes that can query media resources for a given dataset. In this way we avoid hammering the provider's data servers, in turn preventing media processing errors as well as wrongfully assigning low record tiers (tiers 0 mostly). Even though the duration of an individual media processing job increases as a result, this solution will allow us to scale up the media processing component and thus achieve a higher overall throughput.

*Data storage mechanisms in eCloud optimised (intermediate update)* - over the past months we have been focusing on upgrading our Cassandra servers (in eCloud) to the next major version (version 3). First on our test/acceptance environments, and now it is being rolled out to the production

<sup>6</sup> Final outcome is planned for completion by the end of DSI-4 Y4 but several iterations will be released throughout the year.

<sup>7</sup> Final outcome is planned for completion by the end of DSI-4 Y4 but several iterations will be released throughout the year.



environment as well. This upgrade is expected to increase the performance (throughput), but the main benefit that we're expecting is that it requires much less storage space (disk space on our servers) for the same amount of data. Calculations show that we may anticipate a 30% reduction in disk space, which is quite substantial.

*Training resources (V1) for Metis Sandbox (for Aggregators) developed* - the Metis Sandbox allows data suppliers to get insight into potential problems in their datasets before they offer them for ingestion. Training resources were developed that can be used for instructor-led and self paced training. The training resources are based on the scripted user tests that took place in December 2021. An extensive user guide was developed too.

*Release of Sandbox V2* - this version contains the full tier calculation module, a deliverable that is much anticipated by our users. Additionally, we made lots of improvements in terms of usability, which was in a large part based on feedback we received from users. This feedback was mostly collected during training sessions and workshops for the Sandbox.

*Risk assessment: easy data publishing*

ID	Risk	Probability	Impact	Rate	Mitigation strategy	Change
R1.1	The work planned for DSI-4 Y4 may require more preparation of requirements analysis and design than envisaged which may delay implementation.	High (4)	Low (2)	8	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	Too many data providers don't handle their OAI datestamps properly (i.e. according to the intentions behind the OAI standard), thus preventing us from gaining the expected performance benefits of incremental processing.	Medium (3)	Low (2)	6	1) Raising awareness on the OAI specifications with aggregators; 2) An additional feature can be implemented that can detect changed records in a different way. This method would be prone to false positives (i.e. change detected where no change exists), but may perform better.	-
R1.3	The storage space on our Casandra servers runs out before we manage to put a sustainable deletion cycle in place.	Low (2)	Low (2)	4	A combination of emergency cleanups of old data and more (temporary) storage capacity.	-

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

**Partners:** EF and 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 extend 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 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	Due date	Feb M42	Mar M43	Apr M44	May M45	Jun M46
EF	Europeana website usability and performance maintained (bugs fixing, security & software updates) - 20% of M42/M43	Ongoing	-					
<b>Objective 1.2.1. Extend user engagement features</b>								
EF	About us page redesigned (implementation)	Done	Nov '21					
EF	Organisation pages available on Collections hub page	Done	Dec '21					
EF	Delete functionality for user account available	Done	Jan '22					
EF	Classic portal decommissioned	100%	Mar '22					
EF	Homepage redesigned (implementation)	20%	Jun '22					
<b>Objective 1.2.2. Deliver better search experience</b>								
EF	Recommendations service (API and front end) is extended to support entity powered collections and user specific recommendations <sup>8</sup>	Done	Dec '21					
EF	New design for search filters implemented	100%	Feb '22					
EF	Update on Search Strategy roadmap	100%	Feb '22					
EF	New design for entity filters implemented	100%	Mar '22					

<sup>8</sup> The recommendation engine itself is developed by Europeana XX Generic Services project.

EF	Search by location/georeference criteria (indexing implementation) (M-F20)	80%	Apr '22	■	■	■		
EF	Tuning the weight of different fields in ranking (M-F8) (first experiments)	25%	Jun '22	■	■	■	■	■
EF, AIT Vienna	New transcriptions are displayed and searchable live	60%	Aug '22	■	■	■	■	■
EF	Search widget for editorial content implemented similar to how the related entity collections appear in search	10%	Aug '22	■	■	■	■	■
EF	MS2 Report on progress on the search strategy delivered (internal)	Not started	Aug '22					
EF	Search relevance and performance maintained	Ongoing	-					
<b>Objective 1.2.3. Extend multilingual reach</b>								
EF	Multilingual search for the Spanish destination implemented and deployed	Done	Dec '21					
EF	First implementation and evaluation of the metrics and KPIs <sup>9</sup> , focusing on entities	100%	Feb '22	■				
EF	Update on Multilingual Strategy roadmap	100%	Feb '22	■				
EF	Multilingual search for the Spanish destination further evaluated for technical quality and further improved and assessed strategically and technically for transposition to other languages	10%	Apr '22	■	■	■		
EF	Prioritise normalisation of not-yet normalised tags (in original and dereferenced data)	15%	Jun '22	■	■	■	■	■
EF	MS3 Report on progress on the multilingual strategy delivered (internal)	Not started	Aug '22					
EF	Maintain user interface translations in supported languages	Ongoing	-					

*Classic portal decommissioned* - with the recent release of the new filters, the europeana.eu website has all the features that classic.europeana.eu did. We repointed the DNS (Domain Name System) classic.europeana.eu to resolve at europeana.eu making the classic website inaccessible for people outside of Europeana Foundation. In one month, we will delete the old environment.

<sup>9</sup> KPIs here stand for targets for data quality or multilinguality we will start measuring and not KPIs we will report on.

*New design for search filters implemented AND New design for entity filters implemented* - we released the new filters on the search<sup>10</sup> and entity collection<sup>11</sup> pages. People can now see all the filters at once and search for values within facets, making it easier for people to interact with them. We also introduced two new filters, 'item quality' and the 'rights statement' filter. The 'item quality' filter allows people to filter items by individual tiers. We introduced the rights statement filter to address the need of Europeana Foundation employees to filter by individual rights statements.

*Update on Search Strategy roadmap* - in February 2022, we completed a document that reports on progress of actions of the Search Improvement Strategy<sup>12</sup>.

*First implementation and evaluation of the metrics and KPIs, focusing on entities* - this document reports on the implementation and results obtained from the indicators to measure the impact of the Europeana DSI-4 Multilingual Strategy that are related to the Entity Collection (EC). These indicators focus specifically on the completeness of the EC in terms of languages, as well as on its accessibility from the Metadata collection, specially to help navigation in any language. As a first implementation, it lays a baseline to which further progress can be compared.

*Update on Multilingual Strategy roadmap* - in February 2022, we completed a document that reports on progress of actions of the Multilingual Strategy<sup>13</sup>.

*Reporting metrics: Europeana website experience*

No.	Description	Measured by	Frequency	Target	Feb 2021	Feb 2022	Mar 2021	Mar 2022
KPI 1.1	Traffic to Europeana website	Number of visits per month	Monthly	<b>500,000</b>	500,946	532,850	580,072	507,493
KPI 1.2	Returning visitors to Europeana website	Percentage of returning visitors	Monthly	<b>15%</b>	14.63%	6.50%	15.37%	7.10%
KPI 1.3	Satisfaction rate for Europeana website	Average satisfaction on a 5-point Likert scale <sup>14</sup>	Bi-annual	<b>75%</b>	-	-	-	75.62%

<sup>10</sup> <https://www.europeana.eu/en/search>

<sup>11</sup> <https://www.europeana.eu/en/collections/topic/156-natural-history>

<sup>12</sup> <https://pro.europeana.eu/post/europeana-search-strategy>

<sup>13</sup> <https://pro.europeana.eu/post/europeana-dsi-4-multilingual-strategy>

<sup>14</sup> The average satisfaction on a 5-point Likert scale is translated into % (e.g. an average of 3.6 stars equals a satisfaction rate of 72%).

KPI 1.4	Downloads on the Europeana website	Total number of downloads (cumulative)	Monthly	240,000	70,296	94,553	82,306	109,960
RM 1.1	New visitors to the Europeana website	Total number of new visitors per month	Monthly	-	364,361	498,381	416,944	471,470
RM 1.2	Visit duration on the Europeana website	Average time spent per visit	Monthly	-	01:33	02:10	01:40	02:14
RM 1.3	Page views on Europeana website	Average amount of pages viewed per visit	Monthly	-	2.85	2.2	2.98	2.1
RM 1.4	Click-throughs to partner websites	Total number of click-throughs (cumulative)	Bi-monthly	-	-	-	117,682	105,488
RM 1.5	User feedback for the Europeana website	Total number of user feedback received via feedback button (cumulative)	Bi-monthly	-	-	-	511	468

In February/March 2022, we continue to surpass our target of 500,000 visits/month. We continue to see a lower user return rate (compared to previous year) as a result of reduced tracking capabilities. More information is available in the C.2/C.3 Users and usage report M40<sup>15</sup>. In March 2022 we also completed a satisfaction survey on the Europeana website which a good average satisfaction of 75.6% which is a bit higher than last year (in comparison to April 2021 which had an average satisfaction rate of 73.7%).

#### *Risk assessment: Europeana website experience*

ID	Risk	Probability	Impact	Rate	Mitigation strategy	Change
R1.4	Traffic on Europeana website (KPI 1.1) is below target	Low (2)	Medium (3)	3	Continuing our experiments on making record pages more discoverable to Google; expanding editorials with seasons, exhibitions;	-

<sup>15</sup> Available on the Europeana DSI-4 project page in the document section.  
<https://pro.europeana.eu/project/europeana-dsi-4>

					promotions and activities engaging users; better promotion of APIs to engage with developer and institutional reuse; and improving the multilingual experience on the website	
R1.5	Returning visitors on Europeana website (KPI 1.2) is below target: product/content not good enough to encourage people to return	Very low (1)	Very low (1)	1	Optimising the browsing and viewing experiences; optimising the searching experiences; optimising multilingual experience; extending user engagement features; expanding editorials with seasons, exhibitions; promotions and activities engaging users	-
R1.6	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	-
R1.7	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.	-







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

**Partners:** EF and 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).

*Overview of outcomes: reliable platforms*

Partner	Outcomes	Progress	Due date	Feb M42	Mar M43	Apr M44	May M45	Jun M46
<b>Objective 1.3.1. APIs and infrastructure are high-performing</b>								

EF, AIT Vienna	Full disaster recovery test completed <sup>16</sup>	100%	Mar '22					
EF	Recommendation service is fine-tuned and production ready	50%	Jun '22					
EF	Alternative hosting platforms investigated	50%	Jun '22					
EF	Solr and Mongo reindexed <sup>17</sup>	Ongoing	-					
EF, AIT Vienna	Core APIs are maintained (incidents, bugs, technical debt improvements, software updates, releases) - 25% of M42/43	Ongoing	-					
EF	Infrastructure is maintained (bugs, attacks, clean-ups, upgrades, back-ups) - 30% of M42/43	Ongoing	-					

*Full disaster recovery test completed* - we updated the deployment specifications for the whole Europeana infrastructure as part of the C.4 - Part 2 Disaster recovery and transfer procedure report M43 and performed accordingly the stress, performance, and disaster recovery tests as part of C.4 - Part 1 Stress test report M43. We are currently in the process of transferring part of infrastructure (website and APIs) to a new hosting service within our current hosting environment and have not finalised the deployment specifications and disaster recovery tests for these yet. Updates about the new Kubernetes cluster will be added as part of a resubmission of the reports C.4 Part 1 and 2 before the end of the contract (August 2022).

*Reporting metrics: reliable platforms*

No.	Description	Measured by	Frequency	Feb 2021	Feb 2022	Mar 2021	Mar 2022
RM 1.8	Response time of Europeana website	Average time (seconds) for single record per month	Monthly	1.25	0.8	1.33	0.9
RM 1.9	Uptime of Europeana website	Average in % for single records per month	Monthly	99.83	99.99	99.6	99.95
RM 1.8	Response time of APIs (all)	Average response time (seconds) per month	Monthly	0.27	0.16	0.21	0.18
RM 1.9	Uptime of APIs (all)	Average in % per month	Monthly	99.96	100	99.83	100

<sup>16</sup> This outcome will feed into C.4 Stress and disaster recovery test reports (March 2022).

<sup>17</sup> Outcomes in other tasks require a reindexing activity. The planning will be aligned with those outcomes.

RM 1.10	Response time of Europeana Pro	Average response time (seconds) per month	Monthly	0.85	1.12	0.86	1.08
RM 1.11	Uptime of Europeana Pro	Average in % per month	Monthly	99.99	99.99	100	100
RM 1.12	Uptime of Metis	Average in % per month	Monthly	100	100	100	100

*Risk assessment: reliable platforms*

ID	Risk	Probability	Impact	Rate	Mitigation strategy	Change
R1.8	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, 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 collections and stories (objective 1.4.1.). Through communication and promotion, EF will bring this material to the attention of our audiences, drive traffic to the Europeana website, and engage with digital culture (objective 1.4.2.). Activities with educational communities will cultivate 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	Due date	Feb M42	Mar M43	Apr M44	May M45	Jun M46
<b>Objective 1.4.1. Deliver high-quality editorial features</b>								
EF	Europeana Sport season content <sup>18</sup> published and promoted	Done	Sep '21					
EF	Black History Month (autumn season)	Done	Oct '21					
EF	Women’s History Month	100%	Mar '22					

<sup>18</sup> Editorials from the Europeana Sport Generic Services project contributed to this outcome <https://pro.europeana.eu/project/europeana-sport>



EF, DSI AGG	Editorial content (exhibitions, blogs and galleries) <sup>19</sup> published and promoted	Ongoing	-						
EF, DSI AGG	Stories page <sup>20</sup> and new feature pages <sup>21</sup> published and promoted	Ongoing	-						
EF	New European Bauhaus <sup>22</sup> content published	Ongoing	-						
EF	European Year of Youth content published	Ongoing from Jan 2022	-						
EF	Exhibition: 'Heroes of the Olympic Games'	100%	Feb '22	■					
EF	Exhibition: 'The pill'	100%	Mar '22	■	■				
<b>Objective 1.4.2. Communication and dissemination to European citizens</b>									
EF	GIF IT UP organised	Done	Oct '21						
EF	Black History Month promoted	Done	Oct '21						
EF	Women's History Month promoted	100%	Mar '22	■	■				
EF	Digital Storytelling Festival promoted <sup>23</sup>	40%	May '22	■	■	■	■		
EF	Newsletter and social media posts (Facebook, Twitter, Instagram, Pinterest) published <sup>24</sup>	Ongoing	-						
<b>Objective 1.4.3. Engage with educational communities</b>									
EuroClio	Historiana learning resources support different media types (including audio and audiovisual sources)	Done	Dec '21						
EF	Annual Open Education Week: contribution added	100%	Mar '22	■	■				
EF	All Digital Week campaign: contribution added	100%	Mar '22	■	■				
EUN	4 runs and language versions of the Digital Education with Cultural Heritage MOOC launched	100%	Mar '22	■	■				

<sup>19</sup> Editorials from (Europeana) Generic Services projects contribute to this outcome.

<sup>20</sup> <https://www.europeana.eu/stories>

<sup>21</sup> For example: <https://www.europeana.eu/pandemics>

<sup>22</sup> <https://www.europeana.eu/new-european-bauhaus>

<sup>23</sup> The festival will start on 10 May and will run until 12 June 2022. We will report on the completed festival in June 2022.

<sup>24</sup> Editorial outcomes of GS projects are promoted.

EuroClio	Training session on partner pages organised	50%	Apr '22	■	■	■		
EUN	Europeana Education competition finalised	60%	May '22	■	■	■	■	
EuroClio	Webinar series for Historiana users (4 webinars organised)	75%	May '22	■	■	■	■	
EuroClio	Train-the-trainers sessions organised	50%	Jul '22	■	■	■	■	■
EuroClio	15 multilingual Historiana eLearning activities produced	50%	Aug '22	■	■	■	■	■
EUN	55 new multilingual learning scenarios produced and curated to publish in the Teaching with Europeana blog	40%	Aug '22	■	■	■	■	■
EuroClio	Dashboard on Historiana for partners to gain insights into usage available	Not started	Aug '22					
EF	Blogs and social media posts (LinkedIn, Facebook, Twitter) published	Ongoing	-					
EF	Europeana Education community <sup>25</sup> supported	Ongoing	-					
<b>Objective 1.4.4. Attract API users and grow data usage</b>								
EF	API outreach strategy updated (internal)	Done	Jan '22					
EF	API libraries, FAQs, and tutorials maintained and updated	60%	Aug '22	■	■	■	■	■
EF	Europeana API services presented at relevant CH events	Ongoing	-					
EF	1:1 support and changes/improvements of Europeana API services communicated to users	Ongoing	-					

*Women's History Month* - during this year's Women's History Month, twenty new stories about women including the exhibition 'The Pill' (published in seven languages) were published, including twelve stories written by partners. Four news articles were published on Europeana Pro: 'Introducing Women's History Month<sup>26</sup>', an interview with The Women's Museum in Norway, 'Behind the scenes of the Pill exhibition<sup>27</sup>' and 'Marking Irish women's history with the website

<sup>25</sup> <https://pro.europeana.eu/page/europeana-education>

<sup>26</sup> <https://pro.europeana.eu/post/marking-women-s-history-month-with-the-women-s-museum-of-norway>

<sup>27</sup> <https://pro.europeana.eu/post/heritage-history-and-contraception-behind-the-scenes-of-the-pill-exhibition>

Mná 100<sup>28</sup>. In an Instagram take-over, six museums and organisations took over our Instagram stories to present historical women as well as to showcase their work bringing more visibility to women's history.

*Exhibition: 'Heroes of the Olympic Games'<sup>29</sup>* - [EN, FR, ES] histories of the Olympics and Paralympics' shines a spotlight on around fifty different sportspeople from across Europe and beyond. Although they are just a small fraction of those who have taken part, we told the stories of men and women from all across Europe and beyond, focusing on their lives and sporting achievements.

*Exhibition: The pill<sup>30</sup>* - [EN, ES, FR, DE, IT, PL, RO] this exhibition was created in the framework of the CEF-project Europeana XX<sup>31</sup>. A Century of Change which focuses on the 20th century and its social, political and economic changes. It is based on The Pill Expo<sup>32</sup>: an exhibition project developed by a group of KU Leuven university students.

*Women's History Month promoted* - please see reporting for Women's History Month above.

*Annual Open Education Week: contribution added* - This year's edition took place between 7 and 11 March and they celebrated the 10th anniversary of the initiative<sup>33</sup>. Over the last 10 years, through OE Week, 73,007 people have attended events or gained access to Open Education resources, assets, and repositories from 192 countries in 34 languages. Europeana Education contributed to the 2022 edition with four resources: 1) Exploring reuse of audiovisual content for education FAQ<sup>34</sup>, 2) How to set up a Subtitle-a-thon - a guide for educators<sup>35</sup>, 3) Built with Bits<sup>36</sup> and 4) Digital learning in the pandemic - cultural heritage resources by and for educators<sup>37</sup>. Additionally, the University of Leiden, partners of Europeana in the ARMA Generic Services<sup>38</sup>, also published the Europeana blog 'Video Series: Exploring the Medieval Manuscript Book'<sup>39</sup>.

*All Digital Week campaign: contribution added* - Once again Europeana has been a strategic partner<sup>40</sup> in the All Digital Week, held between 14 March and 14 April, publishing resources on their website but also promoting it on Europeana Pro<sup>41</sup> and other relevant events on our social media

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<sup>28</sup> <https://pro.europeana.eu/post/marking-irish-women-s-history-with-website-mna100>

<sup>29</sup> <https://www.europeana.eu/exhibitions/heroes-of-the-olympic-games>

<sup>30</sup> <https://www.europeana.eu/exhibitions/the-pill>

<sup>31</sup> <https://pro.europeana.eu/project/europeana-xx>

<sup>32</sup> <https://culturalstudiesleuven.net/2021/03/19/the-pill-expo-the-contraceptive-pill-a-20th-century-game-changer/>

<sup>33</sup> <https://www.oeglobal.org/activities/about-oe-week/>

<sup>34</sup> <https://oeweek.oeglobal.org/resources/2022/exploring-reuse-of-audiovisual-content-for-education-faq/>

<sup>35</sup> <https://oeweek.oeglobal.org/resources/2022/how-to-set-up-a-subtitle-a-thon-a-guide-for-educators/>

<sup>36</sup> <https://oeweek.oeglobal.org/resources/2022/built-with-bits/>

<sup>37</sup>

<https://oeweek.oeglobal.org/resources/2022/digital-learning-in-the-pandemic-cultural-heritage-resources-by-and-for-educators/>

<sup>38</sup> <https://pro.europeana.eu/project/the-art-of-reading-in-the-middle-ages-arma>

<sup>39</sup>

<https://oeweek.oeglobal.org/resources/2022/digital-learning-in-the-pandemic-cultural-heritage-resources-by-and-for-educators/>

<sup>40</sup> <https://www.alldigitalweek.eu/partners/>

<sup>41</sup> <https://pro.europeana.eu/event/all-digital-weeks-2022>

channels. This year we contributed to the event with the Digital Education with Cultural Heritage MOOC in Italian<sup>42</sup>, Croatian<sup>43</sup> and Greek<sup>44</sup>.

*4 runs and language versions of the Digital Education with Cultural Heritage MOOC launched* - The Europeana MOOC rerun in English<sup>45</sup>, Italian<sup>46</sup>, Croatian<sup>47</sup> and Greek<sup>48</sup> have been successfully launched and extensively promoted<sup>49</sup>. The English version started on 7 February, meanwhile the other three additional languages started on 28 March. All courses run for 6.5 weeks, with modules opening one by one each week and a workload of about 25 hours in total. To receive the certificate participants need to submit a learning scenario implementing an innovative pedagogy and using open licensed Europeana content, which is peer-reviewed. The final results will be reported in the next period, when all the language versions have been finalised.

#### *Communication and dissemination activities*

<b>Partner</b>	<b>Name of event</b>	<b>Activity</b>	<b>Location</b>	<b>Date</b>
EF	Heritage Collections Management 2022	Presentation: 'It's yours Democratising cultural heritage with open access'	Online	03/02/22
EuroClio	Bologna and the rise of Medieval Universities	Using Historiana to teach history from different angles (second webinar) <sup>50</sup>	Online	15/02/22
EUN	Audiovisual Content, Copyright and other related rights <sup>51</sup>	Europeana MOOC Webinar	Online	17/02/22
EF	Amici d'Europe <sup>52</sup>	Webinar organised by Europe Direct Trentino to bring open educational resources to educators in the region	Online	21/02/22
EF	Boost your educational activities with an Erasmus+ KA2 partnership <sup>53</sup>	Webinar aimed to help participants to share knowledge and meet partners for the preparation of joint project proposals	Online	22/02/22
EF	SunoikisisDC Digital Approaches to Cultural Heritage	Presentation: 'Reuse of heritage data and open licences' with Dr Andrea Wallace	Online	24/02/22

<sup>42</sup> <https://www.alldigitalweek.eu/event-2022/educazione-digitale-con-il-patrimonio-culturale/>

<sup>43</sup> <https://www.alldigitalweek.eu/event-2022/digitalno-obrazovanje-s-kulturnom-bastinom/>

<sup>44</sup> <https://bit.ly/3r6owTB>

<sup>45</sup> [https://www.europeanschoolnetacademy.eu/courses/course-v1:Europeana+Culture\\_EN+2022/about](https://www.europeanschoolnetacademy.eu/courses/course-v1:Europeana+Culture_EN+2022/about)

<sup>46</sup> [https://www.europeanschoolnetacademy.eu/courses/course-v1:Europeana+Culture\\_IT+2022/about](https://www.europeanschoolnetacademy.eu/courses/course-v1:Europeana+Culture_IT+2022/about)

<sup>47</sup> [https://www.europeanschoolnetacademy.eu/courses/course-v1:Europeana+Culture\\_HR+2022/about](https://www.europeanschoolnetacademy.eu/courses/course-v1:Europeana+Culture_HR+2022/about)

<sup>48</sup> [https://www.europeanschoolnetacademy.eu/courses/course-v1:Europeana+Culture\\_EL+2022/about](https://www.europeanschoolnetacademy.eu/courses/course-v1:Europeana+Culture_EL+2022/about)

<sup>49</sup> <https://bit.ly/3ulAgni>

<sup>50</sup> <https://euroclio.eu/event/using-historiana-to-teach-history-from-different-angles-2/>

<sup>51</sup> <https://www.youtube.com/watch?v=v2o32cbjrOI&t=3237s>

<sup>52</sup> <https://siamoeuropa.provincia.tn.it/Amici-d-Europa>

<sup>53</sup> <https://pro.europeana.eu/event/boost-your-educational-activities-with-an-erasmus-ka2-partnership>

EF	Kick-off of the Subtitle-a-thon Liceo Manzoni, Caserta (Italy) <sup>54</sup> <sup>55</sup>	Event online to kick-off the Subtitle-a-thon held between 14-18 March	Online	04/03/22
EF	Creative Commons Open GLAM platform	Presentation: 'Where are we now? Reflections on Open GLAM today' with Dr Andrea Wallace	Online	17/03/22
EF	Leiden University API tutorial	Presentation of our API offer to Leiden University Museum Studies master students to introduce them to our APIs for academic research, and to encourage reuse of our content in education through our APIs	Leiden, the Netherlands	23/02/22
EuroClio	Paintings of everyday life	Using Historiana to teach history from different angles (third webinar) <sup>56</sup>	Online	22/03/22

*Reporting metrics: discoverability of digital cultural content*

No.	Description	Measured by	Frequency	Target	Feb 2021	Feb 2022	Mar 2021	Mar 2022
KPI 1.5	Satisfaction rate for exhibitions	Average satisfaction on a 5-point Likert scale (cumulative) <sup>57</sup>	Monthly	<b>75%</b>	83%	84%	83%	83%
KPI 1.6	Reach on social media	Total number of impressions on social media (Facebook, Pinterest, GIPHY, Instagram, Twitter) (cumulative)	Monthly	<b>450 million</b>	298.0 million	261.7 million	358.8 million	293.3 million
KPI 1.7	Learning resources for education <sup>58</sup>	Total number of resources using Europeana data (cumulative)	Monthly	<b>50</b>	11	26	24	88

<sup>54</sup> This event was partly supported by the Generic Service [Europeana Subtitle project](#).

<sup>55</sup> <https://fb.watch/cfLh2Xy1f9/>

<sup>56</sup> <https://euroclio.eu/event/using-historiana-to-teach-history-from-different-angles-2/>

<sup>57</sup> The average satisfaction on a 5-point Likert scale is translated into % (e.g. an average of 3.6 stars equals a satisfaction rate of 72%).

<sup>58</sup> Metric excludes multilingual resource variations.

KPI 1.8	External learning environments for education	Total number of integrations of Europeana educational offers (cumulative)	Monthly	<b>5</b>	2	1	3	1
KPI 1.9	Satisfaction rate of educational communities	Average satisfaction on a 5-point Likert scale (cumulative)	Monthly	<b>75%</b>	76.81	83%	76.81	89%
RM 1.13	Editorial outcomes: exhibitions	Number of exhibitions created (cumulative)	Bi-Monthly	-	-	-	5	8
RM 1.14	Editorial outcomes: blogs	Number of blogs created (cumulative)	Bi-Monthly	-	-	-	87	90
RM 1.15	Newsletter subscribers	Total number of subscribers	Bi-Monthly	-	-	-	50,929	49,916
RM 1.16	Social media engagement	Total number of likes, shares, comments per month (Facebook, Twitter, Pinterest, Instagram)	Monthly	-	297,227	167,082	472,668	181,272
RM 1.17	Social media followers/fans	Total number on social media (Facebook, Twitter, Pinterest, GIPHY, Instagram)	Monthly	-	223,293	231,079	225,020	233,243
RM 1.18	Educators actively involved in creating learning resources (EUN)	Total number of educators (cumulative)	Once a year	-	-	-	-	Expected Aug '22

RM 1.19	Countries coverage of contributing educators (EUN)	Total number of countries (cumulative)	Once a year	-	-	-	-	Expected Aug '22
RM 1.20	Participants completing the MOOC	Total number of participants (cumulative)	Upon occasion	-	-	-	-	Expected Apr '22
RM 1.21	Reach to Europeana Education community	Number of people reached per month (mailing list, LinkedIn, Facebook)	Bi-monthly	-	-	-	7,779	9,575
RM 1.22	API usage (REST API)	Number of API users that exceeded the average of 5 calls a day per month	Monthly	-	66	52	69	51
RM 1.23	API usage (REST API)	Number of API users that were active for more than 5 days in each month	Monthly	-	57	49	60	49
RM 1.24	API usage (REST API)	Total number of requests per month (external traffic)	Monthly	-	21.4 million	19.1 million	22.2 million	19.9 million
RM 1.25	API users (REST API)	Total number of API users per month	Monthly	-	192	158	223	162
RM 1.26	API sign-ups (REST API)	Number of API sign-ups per month	Monthly	-	70	67	100	77

In Feb/Mar 2022 we published 38 new blogs<sup>59</sup> and two new exhibitions<sup>60</sup>.

<sup>59</sup> <https://www.europeana.eu/en/blog>

<sup>60</sup> <https://www.europeana.eu/en/exhibitions/a-century-of-technology>

Compared to 2021 we see decreased numbers for social media engagement in 2022. This is due to the newly introduced privacy regulations on the platforms that had an impact on our activities and reporting. More information is available in the C.2/C.3 Users and usage report M40<sup>61</sup>.

In Feb 2022/Mar 2022 we produced 62 new learning resources: 4 different language versions of the Europeana Education MOOC (listed above), 6 eLearning activities on Historiana<sup>62</sup> and 38 Learning Scenarios and 14 Stories of Implementation to be published in the coming weeks on the *Teaching with Europeana* blog.

*Risk assessment: discoverability of digital cultural content*

ID	Risk	Probability	Impact	Rate	Mitigation strategy	Change
R1.9	Editorials which depend on third party contributions might not progress as planned	Medium (3)	Medium (3)	9	Frequent communication with third party contributors; provide support and advice as required.	-
R1.10	Reach of Europeana data on social media: changes to the algorithms and pricing on social media platforms may impact our reach; stronger privacy measures across the EU make targeting on social media challenging, this might lead to a decrease in reach	High (4)	High (4)	16	Adaptation and diversification of channels, tools and platforms used (especially the channels providing direct contact with users such as email are helping to increase independency from platforms)	-
R1.11	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.	<del>-</del> <sup>63</sup>
R1.12	Complete new strategy involving CHIs professionals in the	Medium (3)	Low (2)	6	Continuation of the strategy in DSI-4 Y4	-

<sup>61</sup> Available on the Europeana DSI-4 project page in the document section.

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

<sup>62</sup> [https://historiana.eu/ea/view/b91318ce-0549-4b47-ab7c-e1a0c1716e38/text/bb\\_2](https://historiana.eu/ea/view/b91318ce-0549-4b47-ab7c-e1a0c1716e38/text/bb_2)

<sup>63</sup> We removed this risk because the COVID situation is getting more under control in all Europe and also schools are more resilient and better prepared to move quickly their activities to the digital environment in case new lockdowns need to happen.



	education initiative. Some activities may have lower impact than expected.					
R1.13	Contact info of API key holders is outdated or API key holders are not interested in 1:1 communication and support, leading to loss of contact with API user group	Low (1)	Medium (3)	3	follow up with current API key holders to update information, ensure engaging 1:1 outreach campaigns	-
R1.14	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.	-

## 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, EF and DSI AGG will continue to work with data providers to raise the quality of content and metadata (objective 2.1.1.). We will also maintain and further develop our data and publishing frameworks and standards (objective 2.1.2.) while influencing global interoperability and technological innovation through our networks (objective 2.1.3.).

*Overview of outcomes: quality assured data*

Partner	Outcomes	Progress	Due date	Feb M42	Mar M43	Apr M44	May M45	Jun M46
<b>Objective 2.1.1. Raise the quality of content and metadata</b>								
EF	Publishing guide is updated with additional guidance on 3D requirements for content <sup>64</sup>	Done (Nov '21)	Jan '22					
EF	Report on actions taken to re-engage with inactive partners (internal)	100%	Feb '22 Aug '22					
EF, DSI AGG	MS4 DSI AGG annual work plan review (internal)	100%	Feb '22 Aug '22					
EF	Normalisation of dates in the metadata implemented	35%	Jun '22					
EF	Mislabelled 3D content corrected in the Europeana database	30%	Aug '22					
EF	Precision of the content tier measurement of 3D content in Europeana is improved	10%	Aug '22					
EF, DSI AGG	Recommendations for identifying and managing diversity in cultural heritage data (internal)	40%	Aug '22					

<sup>64</sup> <https://europeana.atlassian.net/wiki/spaces/EF/pages/2059763713/EPF+-+Publishing+guidelines>

SPK, EF	Report on OCR full-text processing and quality improvement and its impact on display and search <sup>65</sup> delivered (internal)	10%	Aug '22	
DSI AGG	Data quality improvements and new content delivered <sup>66</sup>	Ongoing	-	
EF	Data partners supported with data quality improvements and data publication (DSI, Generic services <sup>67</sup> , and others)	Ongoing	-	
EF	Regular link resolution process is maintained	Ongoing	-	
EF	Proposal for refined 3D tier calculation completed	100%	Mar '22	
<b>Objective 2.1.2. Maintain data and publishing frameworks, standards and documentation</b>				
EF	Training resources (V1) for Statistics Dashboard developed	100%	Mar '22	
EF	First implementation of the field warnings concept to flag longtail data issues with titles and descriptions	25%	Jun '22	
EF,DSI AGG	MS5 New recommendations and updated requirements for services and products focusing on content in the EPF developed (including a report of the status of EPF) (internal)	30%	Jul '22	
EF	Statistics Dashboard maintained	Ongoing	-	
EF	EDM updated and documented	Ongoing	-	
EF	Publication of EDM extension for provenance of metadata enrichments and translations	100%	Mar '22	
<b>Objective 2.1.3. Influence global interoperability and technological innovation</b>				
EF, NISV	EuropeanaTech community <sup>68</sup> is supported	Ongoing	-	
EF	Data Quality Committee <sup>69</sup> is supported	Ongoing	-	

<sup>65</sup> Contributes to FT-F3 in the Search Improvement Strategy.

<sup>66</sup> Detailed information on DSI AGG work as well as progress achieved will be provided in the annual review of work plans.

<sup>67</sup> For more information on data quality improvements and data ingestion from the Generic Services projects, please see [Annex 5: GS outcomes integration overview](#).

<sup>68</sup> <https://pro.europeana.eu/page/europeanatech>

<sup>69</sup> <https://pro.europeana.eu/project/data-quality-committee>

EF	IIIF Discovery Technical Specification Group <sup>70</sup> is supported	Ongoing	-					
EF	Data mapping and conversions with stakeholders is supported	Ongoing	-					
EF	Publication of the Europeana (aggregated) dataset on the data.europa.eu portal	100%	Mar '22					

*Report on actions taken to re-engage with inactive partners (internal)* - about 18 million records out of the total of 62 million records were identified in autumn 2020 as coming from data partners that are not active at the moment. In February 2022, about 18 months since we started this strand of work, the number of records that have not been updated since 1 January 2017 has decreased to 13.4 million records. Details on the actions that were taken are available in a dedicated report.<sup>71</sup>

*MS4 DSI AGG annual work plan review (internal)* - we assessed progress of aggregators against the timeline made for DSI-4 Y4. Overall progress is positive.

*Proposal for refined 3D tier calculation completed* - we drew up a proposal that would prevent 2D content in images and PDFs from being awarded a 3D content tier higher than 0. Furthermore, it would bring the tier 1 criteria for this content type a bit more in line with those for sound and video content. With this we will achieve a more accurate tier calculation for these types of records. We're currently discussing the proposal with aggregators.

*Training resources (V1) for Statistics Dashboard developed* - a self paced training resource for the Data Statistics Dashboard is available on Europeana Pro<sup>72</sup> and a package for instructor-led training is available internally. The training material has been tested and validated during two internal training sessions. The learning goals of the training are not only to teach stakeholders how to use the dashboard, but also to describe their own use case(s) and produce the reports for their use case(s).

*Publication of EDM extension for provenance of metadata enrichments and translations* - aggregators increasingly apply fully automated or user-assisted metadata enrichments and translations to improve the quality of the metadata provided to Europeana. This EDM extension, originally developed for Europeana XX but now made available<sup>73</sup> for other projects to use, supports the representation of relevant provenance information about these processes. It especially allows the platform to distinguish original metadata from new enrichments and translations, and the confidence level of these additions.

<sup>70</sup> <https://iiif.io/community/groups/discovery/>

<sup>71</sup> Available on request.

<sup>72</sup> <https://pro.europeana.eu/page/europeana-data-statistics-dashboard-training>

<sup>73</sup> <https://pro.europeana.eu/page/edm-profiles#enrichments-provenance-profile>

Publication of Europeana (aggregated) dataset on the data.europa.eu portal - in the Saint George on a Bike project<sup>74</sup>, Europeana Foundation leads a task on publishing the project's results on the European Union data portal, data.europa.eu. During discussion with the EC team responsible for the development of the portal, it appeared that some of the lessons learnt there could be leveraged to also publish Europeana's own data on this portal. This is now done<sup>75</sup>, which allowed Europeana dataset to be included in the EU Datathon 2022 via its presence on the portal<sup>76</sup>.

*Reporting metrics: quality assured data*

No.	Description	Measured by	Frequency	Target	Feb 2021	Feb 2022	Mar 2021	Mar 2022
KPI 2.1	High quality content	Percentage of Tier 2 + material (excluding content Tier 0)	Monthly	>70%	67.80%	70.32%	68.01%	70.31%
KPI 2.2	High quality and reusable content	Percentage of Tier 3+ material (excluding content Tier 0)	Monthly	>50%	45.32%	50.77%	45.61%	50.72%
KPI 2.3	High quality metadata (search, browse and explore)	Percentage of Tier A+ material (excluding content Tier 0)	Monthly	>70%	61.50%	68.87%	61.70%	69.12%
KPI 2.4	Europeana Research and Development contributions	Total number of reference papers or presentations (cumulative)	Monthly	10	7	7	8	7
RM 2.1	Broken links in the repository	Number of broken links (out of total)	Quarterly	-	-	-	721,719	283,259
RM 2.2	Non-EPF compliant content (Tier 0)	Percentage of Tier 0 content	Monthly	-	16.69%	14.84%	15.93%	14.62%
RM 2.3	Updates to datasets	Total number of newly created and updated datasets per	Monthly	-	35	61	48	52

<sup>74</sup> <https://pro.europeana.eu/project/saint-george-on-a-bike>

<sup>75</sup> <https://data.europa.eu/data/datasets/europeana-aggregated-dataset>

<sup>76</sup> <https://pro.europeana.eu/post/europeana-datasets-available-for-reuse-in-eu-datathon-competition>

		month (out of total)						
RM 2.4	Updates to records	Total number of newly created and updated records per month (out of total)	Monthly	-	866,278	1,152,089	721,145	987,807
RM 2.5	New CHIs published on Europeana website	Total number of new CHIs (cumulative)	Once a year	-	-	-	-	Expected Aug 2022
RM 2.6	New content on the Europeana website	Total number of new datasets published (cumulative)	Bi-monthly	-	NEW	-	NEW	83
RM 2.7	Records in the data repository	Total number of records (excluding content tier 0)	Monthly	-	52.3 million	51.4 million	52.1 million	51.7 million
RM 2.8	Records in the data repository by accredited aggregators	Total number of records (excluding content tier 0)	Bi-monthly	-	-	-	33.9 million	36.5 million
RM 2.9	Reach to EuropeanaTech community	Number of people reached per month (Mailing list, Twitter)	Bi-monthly	-	-	-	6,149	6,425

In Feb/Mar 2022, we updated 113 datasets and over 2.1 million records which led to an increase of high quality content and metadata. We also reached our target for KPI 2.1 (Tier 2+ material) of >70%.

In Mar 2022, we concluded another quarterly cycle to resolve broken media links. Out of the 637,554 records identified in the previous quarter with broken links, we have fixed 198,476 records in 8 datasets and depublished 200,057 records in 20 datasets. Analysing the link quality in the last quarter has surfaced 283,259 new records in 21 datasets that will be worked on in Q2 of 2022 to resolve the broken links.

*Risk assessment: quality assured data*

ID	Risk	Probability	Impact	Rate	Mitigation strategy	Change
R2.1	Data partners don't control content quality and have difficulties to incentivise the improvement of content quality.	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.	-

**Task 2.2. Enriched data**

**Partners:** EF, AIT Vienna, F&F, and DSI AGG (AIT Graz, APEF, 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 will help categorise items more usefully for website visitors (objective 2.2.1.). The use of crowdsourcing will see data quality enriched before it is ingested by Europeana while Artificial Intelligence (AI) technologies will support multilinguality, search and data quality (objective 2.2.2.).

*Overview of outcomes: enriched data*

Partner	Outcomes	Progress	Due date	Feb M42	Mar M43	Apr M44	May M45	Jun M46
<b>Objective 2.2.1. Extend entities to support better browsing</b>								
EF	Enrichment with new entities for new/updated items available	100%	Mar '22					
EF, AIT Vienna	Curation pilot within entity pages completed	Not started	Aug '22					
EF	Representation of organisation entities is improved	40%	Aug '22					
EF, AIT Vienna	Entity collection is maintained, improved and expanded	Ongoing	-					

EF	Data enrichments reviewed, assessed and integrated (DSI, Generic Services, and others)	Ongoing	-						
<b>Objective 2.2.2. Use of crowdsourcing and AI to enrich metadata</b>									
EF	Agreement on further AI/ML experiments and assessments	Done	Jan '22						
EF	Report on two selected areas for experimentation and assessment of AI (including assessment of relevant work in GS projects) (internal)	Not started	Jul '22						
AIT Graz	Curated metadata enrichment and curated content clustering through expert crowdsourcing	50%	Aug '22						
APEF	Tool for automated topic detection updated to beta version	50%	Aug '22						
APEF	2 projects on enriching metadata via crowdsourcing completed	50%	Aug '22						
Photoco ns	2 crowdsourcing campaigns to enrich data completed	50%	Aug '22						
F&F, EF	Transcribathon runs/events organised and transcriptions transferred to Europeana	Ongoing	-						
F&F	Transcribathon.eu maintained	Ongoing	-						

*Enrichment with new entities for new/updated items available* - A new implementation of the Metis enrichment service has been made using the new Entity Management Service as source. By doing so, it will allow new or updated datasets to be enriched with the most up-to-date version of entities as well as any newly added entity. As a result of the functional testing performed with the new service, we have realised that there was a noticeable difference in the enrichments published on the website. This difference results from the fact that the Entity Management Service has been updated with richer and more up-to-date data. We would like the whole Europeana Dataset to benefit from this positive side-effect and we would like to perform a re-enrichment of the complete Europeana database to make sure that there aren't any unwanted enrichments resulting from it. For this reason, we will not yet replace the Metis enrichment with the new implementation and will only do so after a reindex is made which is scheduled to happen in June 2022. Finally, preliminary results show a significant performance improvement with the new implementation which we will report on in the periodic report.

*Representation of organisation entities is improved (intermediate update)* - during the first enrichment with organisation entities, about 13 million records were not assigned to one of the



organisation entities stored in our CRM system. In the last reporting period, we have completed the identification of organisations these 13 million records belong to. We are now progressing to update the organisation details for these 13 million records in our CRM system. With this update we will also make sure that every organisation name is available in its original language and were possible in English. Name variations and typos in organisation names will also be addressed at the same time.

*Data enrichments reviewed, assessed and integrated (DSI, Generic Services, and others) (intermediate update)* - during the past months, EF has made an assessment of the enrichments and translations that were provided by the Europeana XX GS project. This assessment will be shared with the project partners and is expected to help ongoing projects such as Europeana Translate on improving the quality of their results.

*Risk assessment: enriched data*

<b>ID</b>	<b>Risk</b>	<b>Probability</b>	<b>Impact</b>	<b>Rate</b>	<b>Mitigation strategy</b>	<b>Change</b>
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.	-
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)	-

## Work package 3: Build capacity

WP3 will support professionals and partners to build capacity for digital transformation in three principal areas. We will engage with professionals and partner organisations by organising and supporting events and by providing training and professional development resources (task 3.1.). Secondly, we will nurture our networks, in particular by supporting the governance and operations of the Europeana Network Association (ENA) and Europeana Aggregators' Forum (EAF). This will also 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 within the cultural sector. We will continue to develop a programme of high quality events and raise the standards of practices and knowledge building activities (objective 3.1.1.). As part of our capacity building activities we will continue to deliver a variety of events for professionals (objective 3.1.2.). To be able to increase the knowledge in the sector we will also organise and support training activities and provide professional development resources (objective 3.1.3.).

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

Partner	Outcomes	Progress	Due date	Feb M42	Mar M43	Apr M44	May M45	Jun M46
<b>Objective 3.1.1. Develop event programming and training practices</b>								
EF	Method for assessing satisfaction of training resources implemented	Done	Jan '22					
EF	Impact assessment of Europeana 2021 conference delivered (internal)	70%	Apr '22					
EF	Guidelines for delivering training and development activities developed (public)	30%	Jun '22					
EF	Events Toolkit updated (public)	Not started	Jul '22					
EF	Report on the evaluation of CHI satisfaction with capacity building services and tools delivered (internal)	10%	Jul '22					

EF	Events programme supported and improved (events calendar, formats, tools)	40%	Aug '22					
EF	Activities of the international Events Manager Group coordinated <sup>77</sup>	Ongoing	-					
<b>Objective 3.1.2. Deliver events for professionals and partners</b>								
EF	Europeana Annual Conference 2021 organised	100%	Nov '21					
EF	Europeana Aggregators' Forum Fall meeting organised	100%	Nov '21					
EF	Europeana Aggregators' Forum & annual outreach event organised	30%	Jul '22					
EF	Themed programme of events supported and delivered (ENA and communities, EAF, DSI AGG and others)	Ongoing	-					
<b>Objective 3.1.3. Deliver training and professional development resources</b>								
EF	Version 1 of Europeana Knowledge Base for aggregators released (public)	Done	Jan '22					
EF	Report on the assessment of training needs for Europeana technical tools and services completed (internal)	Done	Jan '22					
DEN	DEN Leadership programme 2nd Cohort completed	100%	Jun '22					
EF, DEN	Feasibility report for DEN Leadership programme for Europeana completed (internal)	50%	Jul '22					
EF	Knowledge sharing activities, training and resources delivered and published	Ongoing	-					
EF	Crowd-sourced open inventory of training opportunities maintained	Ongoing	-					
DSI AGG, F&F	Training workshops, webinars and/or one-to-one support provided	Ongoing	-					

*DEN Leadership programme 2nd Cohort completed* - the DEN Leadership programme was initiated to offer tangible solutions and meaningful knowledge exchange to embed digital transformation

<sup>77</sup> The Events Managers Group includes several partner organisations including: Liber, Creative Commons, RightsConn, NEMO, Museum Computer Network, GIJN, Accessnow, IFLA, EuropaNostra and Wikimedia Foundation.

in institutions and to research the need and possibilities of a sustainable offering of this (kind of) programme. Over 80 people applied for this second cohort. 16 selected participants from across Europe (Belgium, Denmark, Finland, France, Germany, Italy, Ireland, the Netherlands, Norway, Poland, and Serbia) and different types of cultural heritage institutions participated in this second cohort of the Leadership programme. The programme consisted of reading material, guest speakers, individual exercises, close cooperation with fellow participants and group discussions. These took place in 3 modules spread out over 6 online meetings in 3 months. The participants have indicated that this programme has helped them to work on the digital transformation of their organisation<sup>78</sup>. All agreed that there is a need for a continued offering of this kind of training on management level, but also indicated that the reach of such a programme should be extended beyond the coalition of the willing. More qualitative feedback will be included in the feasibility report (due July 2022).

*Reporting metrics: build capacity of aggregators and professionals*

No.	Description	Measured by	Frequency	Target	Feb 2021	Feb 2022	Mar 2021	Mar 2022
KPI 3.1	Aggregator satisfaction with Europeana (accredited aggregators)	Average satisfaction on a 5-point Likert scale <sup>79</sup>	Once a year	75%	-	-	-	Expected Aug '22
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 '22
RM 3.1	Events organised for professionals	Number of events (cumulative)	Bi-monthly	-	-	-	20	16
RM 3.2	Participants attending events for professionals	Number of participants (cumulative)	Bi-monthly	-	-	-	1,878	1,902
RM 3.3	Satisfaction rate for events for professionals <sup>80</sup>	Average satisfaction on a 5-point Likert scale (cumulative)	Bi-monthly	-	NEW	-	NEW	84%

<sup>78</sup> A public review of the programme by one of the participants:

[https://www.linkedin.com/posts/miskostanisc\\_museums-archives-libraries-activity-6902953820029337600-D\\_pw/](https://www.linkedin.com/posts/miskostanisc_museums-archives-libraries-activity-6902953820029337600-D_pw/)

<sup>79</sup> The average satisfaction on a 5-point Likert scale is translated into % (e.g. an average of 3.6 stars equals a satisfaction rate of 72%).

<sup>80</sup> We measure the satisfaction at a selected number of events and acknowledge the survey as valid once it reaches a minimum number of respondents.

RM 3.4	Satisfaction rate for annual conference (Europeana 2021)	Average satisfaction on a 5-point Likert scale	Once a year	-	-	-	-	<sup>81</sup>
RM 3.5	CHIs supported by DSI aggregators	Total number of CHIs supported by individual consultation (cumulative)	Bi-annual	-	-	144	157	Expected Aug '22
RM 3.6	Coverage of CHIs supported by DSI aggregators	Total number of countries that received support by individual consultation (cumulative)	Bi-annual	-	-	31	29	Expected Aug '22
RM 3.7	Outreach to CHIs	Total number of new CHIs collaborating with DSI aggregators (cumulative)	Bi-annual	-	-	28	37	Expected Aug '22
RM 3.8	Events delivered through the EAF training programme	Number of events delivered by DSI AGG and EF (cumulative)	Bi-monthly		-	-	36	16 <sup>82</sup>
RM 3.9	Participants attending EAF training programme	Number of participants in events delivered by DSI AGG and EF (cumulative)	Bi-monthly		NEW	-	NEW	744

During DSI-4 Y4 so far DSI aggregators supported in total 144 CHIs from 31 countries with individual consultation. This includes 28 new CHIs collaborating with DSI aggregators.

<sup>81</sup> Measured in November 2021 with 82%.

<sup>82</sup> In 2021 also presentations, in general, were counted in the number, now only events that have a clear training focus are counted.

In Feb/Mar 2022, EF held four events for professionals<sup>83</sup> with 422 participants attending in total. Events organised in Europeana DSI-4 Y4 so far received a high average satisfaction of 84%. DSI AGG (co)organised eight training events with 391 people attending in the period (such as workshops, webinars or presentations at an outreach event).

*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 Research Community Café - Collections as Data <sup>84</sup>	Meeting	online	23-02-2022
EF	Europeana French Presidency event - Building the common European data space for cultural heritage together <sup>85</sup>	Webinar	online	01-03-2022
EF	Copyright office hours: dealing with different copyright durations <sup>86</sup>	Meeting	online	01-03-2022
EF	Copyright office hours: using copyright material for content creation <sup>87</sup>	Meeting	online	16-03-2022
<b>Events organised by EAF</b>				
eFashion	Challenge with the Erasmus University Master students	Introduction to the Europeana Initiative and to the fashion aggregator and kick-off of a challenge in defining new projects for EFHA that exploit digital cultural heritage	online	07-02-2022
APEF	Automated search in the archives: testing a new tool <sup>88</sup>	Using automated topic detection in archival metadata as a precursor to enrich the data with subject-based LOD - workshop aimed at researchers and other end-users	online	07-02-2022
BL	Doctoral Open Day Webinars	A brief introduction to music	online	09-02-2022

<sup>83</sup> <https://pro.europeana.eu/page/webinars>

<sup>84</sup> <https://pro.europeana.eu/event/europeana-research-community-cafe-collections-as-data>

<sup>85</sup> <https://pro.europeana.eu/event/building-the-common-european-data-space-for-cultural-heritage-together>

<sup>86</sup> <https://pro.europeana.eu/event/copyright-office-hours-dealing-with-different-copyright-durations>

<sup>87</sup> <https://pro.europeana.eu/event/copyright-office-hours-using-copyright-material-for-content-creation-research>

<sup>88</sup> <https://www.eventbrite.co.uk/e/automated-search-in-the-archives-testing-a-new-tool-tickets-247086200477>

	Module 5: Music Collections <sup>89</sup>	collections on Europeana, embedded within webinar about music collections at the BL		
BL	Doctoral Open Day Webinars Module 6: Not Just Books - Digital Collections and Resources <sup>90</sup>	A deeper dive into researching Europeana, as well as other digital resources such as the UK Web Archive	online	16-02-2022
CARARE	3D reconstructions for story-telling and understanding <sup>91</sup>	This webinar explores some of the ways that 3D reconstructions are being used for story telling and to aid understanding.	online	17-02-2022
APEF	Archives Portal Europe and its connection to Europeana: archival metadata in a cross-domain context	Presentation to students and new professionals at local archival institutions with regard to data processing, benefits of high metadata and content quality, and APE's connection with Europeana as an additional way to make their institutions' collections known	Hybrid (on-site in Valletta, Malta and online)	14-03-2022
CARARE	Multidimensional visual datasets in the Arts and Humanities: workshop on digital infrastructure and user requirements <sup>92</sup>	3D content in Europeana	London, UK	29-03-2022
MCA	Museum Connections <sup>93</sup>	Round table organized by MCA/MUSEU-HUB: why and how publish & valorize your digitalize collection	Paris, France	31-03-2022

*Risk assessment: build capacity of aggregators and professionals*

ID	Risk	Probability	Impact	Rate	Mitigation strategy	Change
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	-

<sup>89</sup> <https://www.bl.uk/news/2021/november/doctoral-open-days-2022---get-started-with-the-british-library>

<sup>90</sup> <https://www.bl.uk/news/2021/november/doctoral-open-days-2022---get-started-with-the-british-library>

<sup>91</sup> <https://www.eventbrite.com/e/3d-reconstructions-for-story-telling-and-understanding-tickets-256857988157>

<sup>92</sup> <https://blogs.brighton.ac.uk/3ddataservice/workshop-visual-data-repositories-for-arts-and-humanities/>

<sup>93</sup> <https://www.museumconnections.com/en/>

					regularly review feedback from participants, and implement a holistic approach to promoting these activities to reach a wide audience.	
R3.2	Capacity Building Framework does not meet partner expectations or needs	Low (2)	High (4)	8	Ensure the framework is developed and implemented collaboratively with stakeholders, and an effective feedback cycle is established.	-

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

**Partners:** EF, CLARIN and NISV

Under this task we will maintain and develop effective governance as well as the operational activities of the Europeana Network Association (ENA)<sup>94</sup> and Europeana Aggregators' Forum (EAF)<sup>95</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.). We will continue to improve our offers by undertaking user and market research (objective 3.2.4.) and we will communicate and promote the value of the Europeana Initiative to our networks and beyond (objective 3.2.5.).

*Overview of outcomes: nurture networks*

Partner	Outcomes	Progress	Due date	Feb M42	Mar M43	Apr M44	May M45	Jun M46
<b>Objective 3.2.1. Effective governance of Network services (ENA/EAF)</b>								
EF	ENA General Assembly organised	Done	Nov '21					
EF	ENA Governance renewed (MC election and MB appointment)	Done	Jan '22					
EF	ENA Governance working group <sup>96</sup> supported	Ongoing	-					
EF	ENA and EAF periodic meetings organised (incl. ENA MB and MC, and EAF Steering Group and Forum)	Ongoing	-					
EF	MC meeting	100%	Mar '22					

<sup>94</sup> <https://pro.europeana.eu/network-association/sign-up>

<sup>95</sup> <https://pro.europeana.eu/page/aggregators>

<sup>96</sup> <https://pro.europeana.eu/project/governance-working-group>



Objective 3.2.2. Maintain and develop operational activities of ENA/EAF								
EF	Climate Action Community launched	Done	Nov '21					
EF	ENA community work plans 2022 published	100%	Feb '22	■				
NISV, EF	Annual reports 2021 (ENA and EAF) published	100%	Feb '22	■				
NISV, EF	Annual work plans 2022 (ENA and EAF) published	100%	Feb '22	■				
EF	Recommendations on how to feedback task force recommendations to wider community (internal)	100%	Feb '22	■				
EF	Report of Diversity & Inclusivity Task Force published	15%	Jun '22	■	■	■	■	■
EF	Reporting model for network engagement extended	15%	Jul '22	■	■	■	■	■
EF	New aggregators reviewed for accreditation	Ongoing	-					
EF	General management support for Task Forces, Working Groups and communities (ENA/EAF/Europeana Initiative)	Ongoing	-					
EF	Climate Action Community Steering group elected	100%	Mar '22	■	■			
EF	Supporting the Digital Cultural Heritage of Ukraine Working Group (EF/ENA/EAF)	Ongoing	-					
Objective 3.2.3. Reach out and engage with other communities and networks								
EF	Events of Research Grants Programme 2021 completed	40%	Aug '22	■	■	■	■	■
EF, CLARIN	Outreach outcomes to research communities published	Not started	Aug '22					
EF	Europeana Research community <sup>97</sup> and Research Advisory Board <sup>98</sup> supported	Ongoing	-					
EF	Partnerships supporting the digital transformation of the cultural sector nurtured	Ongoing	-					

<sup>97</sup> <https://pro.europeana.eu/page/europeana-research>

<sup>98</sup> <https://pro.europeana.eu/page/research-advisory-board>

EF	Partnership with Europeans Students Association for Cultural Heritage developed	Ongoing	-					
EF	Europeana Research community videos published	100%	Feb '22	■				
CLARIN	Adding high-level resources to resource families in the VLO	75%	May '22	■	■	■	■	
CLARIN	Organise training on how to use Europeana data sets for processing with Natural Language Processing tools	50%	Jun '22	■	■	■	■	■
EF	Partnership to foster engagement with cultural heritage and academic communities (LIBER <sup>99</sup> , GLAM LABS <sup>100</sup> )	Ongoing	-					
<b>Objective 3.2.4. Develop user and market research</b>								
EF	Pro user survey completed	100%	Mar '22	■	■			
EF	Report on improved offers for professional audiences in the cultural sector completed (internal)	50%	Apr '22	■	■	■		
EF	Marketing, communications and product development benchmarking and insight developed	Ongoing	-					
<b>Objective 3.2.5. Communicate and promote activities to professionals and partners</b>								
EF	Dissemination strategies for key channels (Twitter, LinkedIn, Europeana Pro) delivered (internal)	100%	Feb '22	■				
EF	Europeana Pro maintained and improved (technical infrastructure, user journeys, accessibility)	Ongoing	-					
EF	Pro editorials published (e.g. Pro News and themes)	Ongoing	-					
EF	Promotional activities promoted (Newsletter, Twitter, LinkedIn) <sup>101</sup>	Ongoing	-					
EF	Europeana Communicators community <sup>102</sup> supported	Ongoing	-					

<sup>99</sup> <https://libereurope.eu/working-group/digital-scholarship-and-digital-cultural-heritage-collections-working-group/>. The LIBER WG had its first meeting on 15 November 2021.

<sup>100</sup> <https://glamlabs.io/>

<sup>101</sup> Including GS editorials published on Europeana Pro.

<sup>102</sup> <https://pro.europeana.eu/page/europeana-communicators-group>

EF	Accessibility review on Europeana Pro	70%	May '22	
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*MC meeting* - the first ENA MC meeting<sup>103</sup> of 2022 took place on 10-11 March. The meeting revolved around the current Europeana Initiative priorities (crisis in Ukraine, tender preparations for the Common European data space), community activities in 2022, ENA governance, and participatory and decision-making tools for ENA shaping place in the form of a future task force. Councillors engaged in a community building exercise and discussed work of Initiative-wide Task Forces & ENA Working Groups. A new Copyright Working Group was approved and will launch its work shortly.

*ENA community work plans 2022 published* - The 2022 community work plans were formally endorsed by the ENA Members Council in January 2022. They present activities for the ENA communities set to carry out in 2022<sup>104</sup>.

- Copyright community work plan 2022<sup>105</sup>
- Communicators community work plan 2022<sup>106</sup>
- EuropeanaTech community work plan 2022<sup>107</sup>
- Impact community work plan 2022<sup>108</sup>
- Research community work plan 2022<sup>109</sup>
- Education community work plan 2022<sup>110</sup>

*Annual reports 2021 (ENA and EAF) published* - ENA 2021 Annual Report<sup>111</sup> and EAF 2021 Activity Report<sup>112</sup> explore highlights from all of the ENA and EAF 's activities in 2021.

*Annual work plans 2022 (ENA and EAF) published* - ENA 2022 Activity Plan<sup>113</sup> and EAF 2022 Activity Plan<sup>114</sup> outline priorities and activities of the ENA and EAF planned for 2022.

*Recommendations on how to feedback task force recommendations to wider community (internal)* - the main aim of this paper is to provide an insight into how the added value of the recommendations and outputs from Task Forces can be enhanced for the wider community, meaning all pillars of the Europeana Initiative. It analysed the use of results of Task Forces from the previous 4 years (from January 2018). And explored specific aspects such as the process of

<sup>103</sup>

[https://pro.europeana.eu/files/Europeana\\_Professional/Event\\_documentation/Events/MC/MC-meeting-Programme-March-2022.pdf](https://pro.europeana.eu/files/Europeana_Professional/Event_documentation/Events/MC/MC-meeting-Programme-March-2022.pdf)

<sup>104</sup> The Climate Action community work plan is missing here since the steering group was only launched in March '22.

<sup>105</sup> <https://pro.europeana.eu/post/copyright-community-work-plan-2022>

<sup>106</sup> <https://pro.europeana.eu/post/communicators-community-work-plan-2022>

<sup>107</sup> <https://pro.europeana.eu/post/europeanatech-community-work-plan-2022>

<sup>108</sup> <https://pro.europeana.eu/post/impact-community-work-plan-2022>

<sup>109</sup> <https://pro.europeana.eu/post/research-community-work-plan-2022>

<sup>110</sup> <https://pro.europeana.eu/post/education-community-work-plan-2022>

<sup>111</sup> <https://pro.europeana.eu/post/europeana-network-association-annual-report-2021>

<sup>112</sup> <https://pro.europeana.eu/post/europeana-aggregators-forum-activity-report-2021>

<sup>113</sup> <https://pro.europeana.eu/post/europeana-network-association-activity-plan-2022>

<sup>114</sup> <https://pro.europeana.eu/post/europeana-aggregators-forum-activity-plan-2022>

managing Task Forces, dissemination of results and the resources needed to run them. Making recommendations on how to improve each aspect such as increasing transparency of decision making, improving pre-approval stages explores feasibility and connection with the EI goals. The recommendations will be the basis of discussion with the pillars of EI, to identify tangible steps to improve the process for dissemination, and ultimately use of the TF results.

*Climate Action Community Steering group elected* - on 30 March the Climate Action Community formed its first Steering Group<sup>115</sup>. The 11 members of the Group come from a diverse range of backgrounds bringing myriad knowledge, experience, expertise, culture and network to the community and its work around climate action. The Steering Group is currently firming up its working methods and establishing roles and responsibilities. The Group will soon start ideating the community's work plan. The community aims to drive collective, collaborative and sustainable change and action to reduce the climate emergency and our environmental impact. The community aims for wider systemic change within our organisations and networks. It currently has 125 members.

*Supporting the Digital Cultural Heritage of Ukraine Working Group (EF/ENA/EAF) (new ongoing outcome added)* - The Working Group aims to establish and facilitate actions that apply the Europeana Initiative's collective capacity and capability to support the preservation and development of the Ukrainian digital cultural heritage sector. It is a joint Task Force from the Europeana Foundation, Europeana Network Association and Europeana Aggregators' Forum.

*Europeana Research community videos published* - in 2021 the Research Community launched a call to support the making of research videos. The call aimed to encourage academics and researchers making use of digital cultural heritage field to explore the potential of the audiovisual, presenting their projects to an audience of non-specialists. The best videos were published on Europeana Pro.<sup>116</sup> The initiative was framed under the Capacity Building pillar, and applicants were provided with a small financial support, production guidelines and, where possible, a tailored support.

*Pro user survey completed* - between January and March 2022 we ran the second annual Pro user survey. To keep the survey low barrier to complete and to ensure consistency with 2021, we wrote seven questions designed to understand: who users are (sector); what users want (motivations, things to improve, multilinguality); and how well users know us (relationship to Europeana, awareness and use of the Europeana website). We have written up full analysis<sup>117</sup> but headlines results suggest many results remain consistent year on year. Looking at the two major surveys of both Europeana.eu and Europeana Pro over the last year it's clear that both are largely serving the same audiences. In terms of what our audiences are looking for nearly 50% of respondents were looking for professional development showing the importance of our capacity building activities. Multilinguality is important to our users with about 65% saying it was

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<sup>115</sup> <https://pro.europeana.eu/page/climate-action-community>

<sup>116</sup> <https://pro.europeana.eu/page/europeana-research>

<sup>117</sup> Available on request

important, and we'll aim to explore more options around our multilingual offer in 2022 and beyond, and 50% of respondents were aware of the Europeana website, suggesting there is opportunity to grow awareness.

*Dissemination strategies for key channels (Twitter, LinkedIn, Europeana Pro) delivered (internal)* - in January and February 2022 we evaluated 2021 promotional activity and used it to inform our strategies for key promotional channels, namely Europeana Pro, LinkedIn and Twitter (for professionals).<sup>118</sup> Some headline areas include accessibility, evidence-based suggestions to improve engagement and new things to test. We will work to these strategies in 2022 to keep attempting to improve our promotional activity and offer for cultural heritage professionals, and will report more about this process in D.1 Communication and dissemination plan (due May 2022).

*Communication and dissemination activities*

Partner	Name of event	Activity	Location	Date
EF	SSH - ENRIITC Industry Outreach Event <sup>119</sup>	CLARIN and DARIAH with support from ENRIITC jointly organised an industry outreach online workshop where leading research infrastructures and networks from the social sciences and humanities were invited to exchange on past and present innovation and collaboration activities with non-academic and/or commercial partners. Since CHIs are considered relevant non-academic partners for research infrastructures, EF was invited to represent the sector and took this opportunity to strenght collaborations with academic partners.	Online	11-03-22
ENA	Europeana Research Community Cafe <sup>120</sup>	Kick-off event of a series of cafe organised by the community SG to bring together a community that now counts over 2,250 members. Invited speaker: Thomas Padilla. 150+ people registered, 80+ signed up.	Online	23-02-22

*Reporting metrics: nurture networks*

No.	Description	Measured by	Frequency	Target	Feb 2021	Feb 2022	Mar 2021	Mar 2022
KPI 3.3	Growth of Europeana Network Association	Number of members in the ENA	Monthly	<b>3,000</b>	-	3,454	2,805	3,508

<sup>118</sup> Available on request

<sup>119</sup> <https://www.dariah.eu/2022/02/14/enriitc-your-industry-outreach-workshop-for-social-sciences-and-humanities/>

<sup>120</sup> <https://pro.europeana.eu/event/europeana-research-community-cafe-collections-as-data>

	members								
KPI 3.4	Satisfaction of the Europeana Network Association members with the ENA	Average satisfaction on a 5-point Likert scale <sup>121</sup>	Once a year	<b>75%</b>	-	-	-	-	Expected Jun '22
KPI 3.5	Communities in the Europeana Network Association	Number of active communities	Once a year	<b>6</b>		-	-	-	Expected Aug '22
KPI 3.6	Task forces in the Europeana Initiative	Number of active task forces per month (ENA, EAF, Initiative)	Monthly	<b>5</b>	8	2	8	4	
RM 3.10	Working groups in the Europeana Initiative	Number of active working groups per month (ENA, EAF, Initiative)	Bi-monthly	-	-	-	2	3	
RM 3.11	Active members in the Europeana Initiative	Number of members participating in task forces and working groups per month (ENA, EAF, Initiative)	Bi-monthly	-	-	-	140	150	
RM 3.12	Reach to Europeana Climate Action community	Number of people reached per month (Basecamp, mailing list)	Bi-monthly	-	NEW	-	NEW	125	
RM 3.13	Research events and tutorials	Total number delivered (cumulative)	Bi-monthly	-	-	-	2	3	
RM 3.14	People reached with research events and	Total number of people	Bi-monthly	-	-	-	240	100	

<sup>121</sup> The average satisfaction on a 5-point Likert scale is translated into % (e.g. an average of 3.6 stars equals a satisfaction rate of 72%).

	tutorials <sup>122</sup>	participating (cumulative)						
RM 3.15	Research Grants outcomes	Total number of outcomes delivered (cumulative)	Bi-monthly	-	-	-	2	Expected Jul '22
RM 3.16	Reach to Europeana Research community	Number of people reached per month (Discussion list, Twitter)	Bi-monthly	-	-	-	5,698	6,665
RM 3.17	Traffic to Europeana Pro	Number of visits per month	Monthly	-	27,586	26,923	32,416	31,763
RM 3.18	Returning visitors to Europeana Pro	Percentage of visitors returning	Monthly	-	34.90%	15.00%	35.20%	14.00%
RM 3.19	New visitors to Europeana Pro	Total number of new visitors per month	Monthly	-	17,954	22,890	20,933	27,302
RM 3.20	Satisfaction rate for Europeana Pro	Average satisfaction on a 5-point Likert scale <sup>123</sup>	Once a year	-	-	-	-	Expected Jul '22
RM 3.21	Reach to Europeana Communicators community	Number of people reached per month (Newsletter, LinkedIn, mailing list)	Bi-monthly	-	-	-	2,160	2,750

In Feb/Mar 2022, two new task forces were launched: Impact Lite Training and Community Building Task Force<sup>124</sup>, which builds on the outcomes of the original Impact Lite Task Force and aims to develop an Impact Lite training methodology and introductory course; and an Europeana Initiative wide Task Force on Diversity and Inclusion<sup>125</sup>, which aims to develop and manage a

<sup>122</sup> This only includes people reached with specific events - tutorials are accessible online.

<sup>123</sup> The average satisfaction on a 5-point Likert scale is translated into % (e.g. an average of 3.6 stars equals a satisfaction rate of 72%).

<sup>124</sup> <https://pro.europeana.eu/project/impact-lite-training-community-building-taskforce>

<sup>125</sup> <https://pro.europeana.eu/project/diversity-and-inclusion-task-force>

consultation on behalf of the Europeana Initiative to address Diversity and Inclusion across its operation.

In Feb/Mar 2022, we saw three workshops supported by the Research Grants Programme under the call Crowdsourcing and Research, with a total of 100 participants. While they were open to a wide audience, these workshops contributed to positioning Europeana in Germany, Poland and Estonia. Their interactive sessions saw participants engaging in a proactive exchange of their experiences and in the drafting of the written outputs forseen as results of the ongoing programme cycle.

In Mar 2022, we saw high traffic to Europeana Pro. March is usually a busy month with themes such as Women’s History Month, and in March 2022 we also ran a successful gif making workshop that drew high numbers of traffic to Pro.

*Risk assessment: nurture networks*

ID	Risk	Probability	Impact	Rate	Mitigation strategy	Change
R3.3	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	-
R3.4	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	-
R3.5	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/workshops) to improve digital skills and literacy of CHI professionals	-
R3.6	Digital collections do not comply with the FAIR principles <sup>126</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.	-

<sup>126</sup> <https://www.go-fair.org/fair-principles/>



R3.7	Research grants: format of the events to be adapted on the basis of the pandemic's course	High (4)	Low (2)	⊗	The COVID-19 pandemic may oblige us to change the format (from in-person to digital) for the in person events planned for the first half of 2022. In this case, the amount of the grant will be reduced (per contract). If the grant recipients ask to cancel their events, the contract will be withdrawn.	-
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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 manage and further develop Europeana frameworks and standards (objective 3.3.1.) and we will develop policies and standards that enable open access to digital cultural heritage (objective 3.3.2.). We will also continue to develop the Europeana Impact and Capacity Building Frameworks to enable activity and evidence of digital transformation in the sector (objective 3.3.3.). Finally, we will engage with EU Member States to raise awareness of the Europeana Initiative (objective 3.3.4.).

*Overview of outcomes: strengthen national infrastructures*

Partner	Outcomes	Progress	Due date	Feb M42	Mar M43	Apr M44	May M45	Jun M46
<b>Objective 3.3.1. Manage and develop Europeana frameworks and standards</b>								
EF	Europeana general framework design developed (V1)	100%	Feb '22	■				
EF	Europeana Glossary updated to harmonise framework design and management components (internal)	100%	Feb '22	■				
EF	Europeana frameworks compliance with framework design evaluated	100%	Mar '22	■	■			
EF	EPF updated following the Europeana general framework design (public)	10%	Jul '22	■	■	■	■	■
EF	Europeana Glossary <sup>127</sup> updated and maintained	Ongoing	-					

<sup>127</sup> <https://pro.europeana.eu/page/glossary>

Objective 3.3.2. Develop and maintain an interoperable licensing framework								
EF	Strategy to encourage the accurate assignment of rights information to Europeana material created (internal)	Done	Dec '21					
EF	Data protection guidance for the Europeana Initiative developed (internal)	100%	Feb '22	■				
EF	Training resources (V1) to support the choice of accurate rights statements developed (public)	100%	Feb '22	■				
EF	CB Playbook tested with Europeana Copyright community	30%	Jun '22	■	■	■	■	■
EF	Europeana Copyright community <sup>128</sup> supported	Ongoing	-					
EF	Page <sup>129</sup> with multilingual and multi-jurisdictional copyright tools maintained and developed	Ongoing	-					
EF	RightsStatements.org consortium supported	Ongoing	-					
Objective 3.3.3. Develop processes and enable evidence of digital transformation								
EF	Europeana Capacity Building Framework (V2) developed (internal)	75%	Apr '22	■	■	■		
EF	Enumerate survey completed	25%	Jun '22	■	■	■	■	■
EF	Capacity Building for Digital Transformation Task Force: outcomes published	70%	Jun '22	■	■	■	■	■
EF	Europeana Impact Playbook Phase four published	60%	Jun '22	■	■	■	■	■
EF	Metrics framework to evidence digital transformation developed and implemented	Ongoing	-					
EF	Supportive tools and resources for capacity building developed and made available	Ongoing	-					
EF	Europeana Impact community <sup>130</sup> supported	Ongoing	-					

<sup>128</sup> <https://pro.europeana.eu/page/europeana-copyright>

<sup>129</sup> <https://pro.europeana.eu/page/copyright-tools-and-resources>

<sup>130</sup> <https://pro.europeana.eu/page/europeana-impact-community>

EF	Capacity Building for Transformation Task Force: interim results of consultation published	75%	May '22	
<b>Objective 3.3.4. Engage with Member States</b>				
EF	Slovenian Presidency event organised	Done	Dec '21	
EF	Slovenian Presidency Europeana conference report published	Not started	Mar '22	
EF	French Presidency event organised	100%	Mar '22	
EF	French Presidency Europeana conference report published	Not started	Aug '22	
EF	Country reports <sup>131</sup> updated	Ongoing	-	

*Europeana general framework design developed (V1)* - we completed a document created to standardise the management of Europeana frameworks so all frameworks follow the same approach in their creation, development, refinement and implementation.

*Europeana Glossary<sup>132</sup> updated to harmonise framework design and management components (internal)* - the Glossary of Terms on Europeana Pro was updated to support a coherent use of language across elements of a Europeana framework and across frameworks, also with regards to relevant strategic objectives and activities in Europeana. This helps to ensure that terminology is used consistently, in particular in our activities that support capacity building in the cultural heritage sector.

*Europeana frameworks compliance with framework design evaluated* - relying on the Europeana general framework design, we have evaluated and compared various essential aspects of the four frameworks that Europeana works with in order to help us better understand how each framework relates to the other and collaboratively identify areas for development and impact.

*Data protection guidance for the Europeana Initiative developed (internal)* - we have developed guidance to inform Europeana Foundation staff of data protection-related aspects that they might come across or need information on as part of their roles at Europeana Foundation. As such, we seek to ensure that we comply with the GDPR and relevant provisions throughout our activities, and take a consistent approach to specific questions or situations.

*Training resources (V1) to support the choice of accurate rights statements developed (public)* - accurate rights statements are essential to inform users about the reuse possibilities of objects. To improve the accuracy of rights statements we have developed self paced training resources

<sup>131</sup> <https://pro.europeana.eu/page/member-states>

<sup>132</sup> <https://pro.europeana.eu/page/glossary>

that support institutions that share data with Europeana. The resources consist of three different pages on Pro<sup>133</sup> with corresponding exercises and quizzes that individuals can do to self-test their knowledge. These exercises can also be used in instructor-led training sessions. User feedback on these training resources will be collected in the upcoming months.

*Slovenian Presidency Europeana conference report published*<sup>134</sup> - the conference underscored the importance of community participation, as local cultural heritage institutions are typically best positioned to gather local knowledge and exploit local interest in safeguarding that community's heritage. Continuing to encourage local collaboration and community involvement in institutions and communities across Europe is essential while also acknowledging the challenges of sustaining that participation over time - especially in the resources required of people, time, and funding. Further, continuing to ensure tools for participation are user-centred and user-friendly/simple remain primary considerations. This event provided Europeana Foundation and our partners and stakeholders with much food for thought on participatory approaches to digital cultural heritage.

*French Presidency event organised* - the conference<sup>135</sup> was held in collaboration with the Ministry of Culture of France and Mobilier National. It involved 330 participants from across the sector. The conference aimed to stimulate reflection and dialogue around the creation of the common European data space for cultural heritage, the needs, the key challenges and the aspirations for achieving that. It aimed to create a base for collaborative ongoing dialogue among the stakeholders and actors to break silos in their efforts towards creation of the data space. The event explored the vision for the data space for cultural heritage, its building blocks and how they're interconnected, its aims and desired features. It looked at some of the aspects of the European Commission's recommendation for creation of the data space and Europe's support instruments and mechanisms. We learned a data space is a combination of infrastructure, high quality data, rules on access and engagement, governance, multilingualism, and interoperability features. The sector envisions a value driven common European data space for cultural heritage: a safe, democratic, inclusive and reciprocal public digital space. Building a data space is no easy task. It's an ambitious vision by definition, but we are not starting from zero and it is work in progress. We learned all actors and stakeholders need to work collaboratively in the same direction for the success of the data space. It requires the entire sector to be invested in and active. We learned the added value that the data space for cultural heritage can bring to other data spaces is in sharing best practices, models, standards and frameworks as well as sharing the data. We found collaboration among all stakeholders and actors is key, embracing the contribution of other sectors and the public. 97 participants responded to the post event satisfaction survey, with a 82% satisfaction rate.

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<sup>133</sup> The self-paced training can be found on the following pages: [identifying copyright in collection items](#), [how to select an accurate rights statement](#) and [available rights statements](#)

<sup>134</sup> <https://pro.europeana.eu/post/summary-of-the-slovenian-presidency-europeana-conference>

<sup>135</sup> <https://pro.europeana.eu/event/building-the-common-european-data-space-for-cultural-heritage-together>

*Communication and dissemination activities*

Partner	Name of event	Activity	Location	Date
International Federation of Library Associations and Institutions (IFLA)	ResiliArt x Mondiacult: Libraries enabling inclusive and meaningful participation in cultural life <sup>136</sup>	Presentation (conversation with panellists) about how libraries and their policy landscape have the potential to support inclusive and meaningful access to culture.	Online	23-02-2022

*Reporting metrics: strengthen national infrastructures*

No.	Description	Measured by	Frequency	Target	Feb 2021	Feb 2022	Mar 2021	Mar 2022
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 '22
RM 3.22	Use of rs.org by accredited aggregators	Percentage of accredited aggregators that share data on Europeana using a rights statements from the rs.org	Once a year	-	-	-	-	Expected Aug '22
RM 3.23	Use of rs.org rights statements	Number of objects published on the Europeana website with a rs.org rights statement (excluding content Tier 0)	Bi-annual	-	-	17,132,575	18,440,509	Expected Aug '22
RM 3.24	Reach to Europeana Copyright community	Number of people reached per month (Mailing list, Twitter)	Bi-Monthly	-	-	-	3,454	4,033

<sup>136</sup> <https://www.ifla.org/news/resiliart-x-mondiacult-at-ifla-meet-the-panel-and-register-now/>

RM 3.25	Reach to Europeana Impact community	Number of people reached per month (Newsletter, LinkedIn)	Bi-Monthly	-	-	-	1,707	2,352
RM 3.26	Satisfaction with the Europeana EU presidency events	Average satisfaction on a 5-point Likert scale <sup>137</sup>	Upon occasion	-	-	-	-	79%

In February 2022, we recorded about 17.1 million published objects on the Europeana website with a rs.org rights statement (excluding content Tier 0).

We also evaluated the satisfaction rate for the French presidency event (82% average satisfaction) which resulted in an cumulative average satisfaction rate of 79% for the two presidency events organised in DSI-4 Y4.

*Risk assessment: strengthen national infrastructures*

ID	Risk	Probability	Impact	Rate	Mitigation strategy	Change
R3.8	Rightsstatement.org: Challenge to build a sustainable consortium 2021 - 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.  Post-covid we are taking steps to specifically re-review the model and simplify in light of the perceived impact.	-
R3.9	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	Involve internal stakeholders and members of the network to provide motivation and opportunity to support this work to ensure a timely completion.	- <sup>138</sup>

<sup>137</sup> The average satisfaction on a 5-point Likert scale is translated into % (e.g. an average of 3.6 stars equals a satisfaction rate of 72%).

<sup>138</sup> The risk related to the programme of impact assessments in 2019/2020, where we had 10 impact assessments to complete. Also with Covid, there was a chance of data collection not being possible because of cancelled events etc, but now we have pivoted to online (and soon, hybrid) events, and we have this risk under control (e.g. implementing Zoom surveys for satisfaction as an example). We see no risk in this area for the current DSI-4 contract.

					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.	
R3.10	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.	-
R3.11	In online and hybrid environments, co-creation sessions and workshops as part of the presidency conferences are challenging.	Medium (3)	Medium (3)	9	Explore and use methods and tools that allow for ideation and collaborative co-creation resulting in shared understanding and actionable insights amongst the participants.	-

## 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 M36.

#### *Overview of outcomes*

Partner	Outcomes	Progress	Feb M42	Mar M43	Apr M44	May M45	Jun M46
EF	Programme management	Ongoing					
EF	B.2/B.3 Periodic reports M42	100%					
EF	C.4 Stress and disaster recovery test reports M43	100%					

#### **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 Mar 2022
<b>WP 1: Strengthen the infrastructure</b>	<b>49.50%</b>	<b>48.96%</b>
Task 1.1. Easy data publishing	11.60%	12.77%
Task 1.2. Europeana website experience	14.90%	14.25%
Task 1.3. Reliable platforms	8.40%	6.91%
Task 1.4. Discoverability of digital cultural content	14.60%	15.03%
<b>Work package 2: Improve data quality</b>	<b>17.50%</b>	<b>19.00%</b>
Task 2.1. Quality assured data	12.50%	13.80%



Task 2.2. Enriched data	5.00%	5.20%
<b>Work package 3: Build capacity</b>	<b>26.50%</b>	<b>24.68%</b>
Task 3.1. Build capacity of aggregators and professionals	10.80%	10.33%
Task 3.2. Nurture networks	9.60%	8.88%
Task 3.3. Strengthen national infrastructures	6.10%	5.47%
<b>Work package 4: Programme management</b>	<b>6.50%</b>	<b>7.36%</b>
Task 4.1. Programme management of Europeana DSI-4	6.00%	6.24%
Task 4.2. Relations with Europeana DSI Generic Services projects	0.20%	0.85%
Task 4.3. Governance (DCHE)	0.10%	0.20%
Task 4.4. Phasing-in and phasing-out periods	0.20%	0.07%
<b>TOTAL</b>	<b>100%</b>	<b>100%</b>

### Major changes in staff, if applicable

No changes for M42/M43.

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

ID	Risk	Probability	Impact	Rate	Mitigation strategy	Change
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	-
R4.2	Additional work or extended scope of work is done which might affect other outcomes committed to	Medium (3)	Medium (3)	9	Management of expectations towards individual outcomes, communication and awareness building of challenges, agreeing on priorities	-

## **Task 4.2. Relations with Europeana Generic Services projects**<sup>139</sup>

**Partners:** EF

EF maintains regular contact with the funded Europeana and other 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). The table below shows the progress against Annex 5 of the implementation plan of all Generic Services project outcomes that are related to Europeana DSI-4.

*Overview of progress: Generic Services projects against Annex 5 (project start - end of the current reporting period)*

<b>Objective 4.2.2. Supporting Europeana Generic Services (CEF-TC-2019-1) call</b>						
<b>Partner</b>	<b>Outcomes</b>	<b>DSI-4 contribution</b>	<b>Due Date</b>	<b>Progress</b>	<b>Status</b>	<b>Comments</b>
<b>Europeana XX: Century of Change</b> <sup>140</sup>						
GS/DSI	100,000 new high quality objects and	Task 2.1 Quality assured data	Nov 21	100%	Done	With the new records the project significantly overachieved its target.
GS/DSI	15,000 upgraded records	Task 2.1 Quality assured data	Nov 21	60%	Delayed	Several datasets are being reprocessed.
GS/DSI	2.5 million enrichments (semantic and translation enrichments) via EDM ingestion	Task 2.2 Enriched data	Nov 21	100%	Done	The project delivered 2,592,935 enriched records; thus overachieving its target by ca 4%
GS	Extension of the recommendation engine to support entity powered collections	Task 1.2. Europeana website experience	Nov 21	100%	Done	The new version of the recommendation engine is available on the Europeana website.
GS	Improvement in	Task 1.2.	Sep 21	90%	Delayed	EF tests identified

<sup>139</sup> This section also highlights other projects the DSI platform is involved with.

<sup>140</sup> Project officially requested an extension of three months until 30 November 2021.

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

	Europeana Media Player to support the display of subtitles in multiple languages for a single video.	Europeana website experience				ongoing issues with the delivered functionality. EF is discussing their resolution with the project partners.
GS/DSI	Publication of subtitles on Europeana.eu	Task 2.2 Enriched data	Nov 21	70%	Delayed	The remaining subtitles from the two other campaigns are expected by the end of April 22. EF will validate the subtitles from all campaigns before publication.
GS	35 editorials in Europeana.eu	Task 1.4 Discoverability of digital cultural content	Nov 21	100% <sup>141</sup>	Done	By the end of Nov 21, 49 editorials were published. More blogs are expected to be published before the project validation meeting.
GS	16 editorials in Europeana Pro	Task 3.2. Nurture networks	Nov 21	94% <sup>142</sup>	Delayed	15 editorials published The remaining editorial is expected to be published in June 2022.
<b>Europeana Sport</b> <sup>143</sup> <sup>144</sup> requested						
GS/DSI	23.900 new digital objects and 5.050 improved digital objects	Task 2.1 Quality assured data	March 22	98.5%	On track	Project partners were granted an official extension for 3 months to complete the ingestion of content to Europeana.
GS/DSI	250 user-generated content (stories and associated objects)	Task 2.1 Quality assured data	Sept 21 <sup>145</sup>	100%	Done	At the end of Jan 22, the project delivered more user-generated stories; 291 stories are now available on Europeana.

<sup>141</sup> 49 editorials published (22 galleries, 25 blogs, 2 exhibitions)

<sup>142</sup> 15 editorials published (4 event pages, 5 news pieces, 5 pieces about tools, 1 project page)

<sup>143</sup> <https://pro.europeana.eu/project/europeana-sport>.

<sup>144</sup> The project received an official extension for 3 months, the new end date for this activity is 30 April 2022

<sup>145</sup> There is no clear project deadline for aggregation of user-generated content, so we have decided to assign the same deadline as the one for content aggregation.

GS	40 editorials in Europeana.eu	Task 1.4 Discoverability of digital cultural content	Dec 21	100% <sup>146</sup>	Done	During Jan 22 the project worked on a Sport exhibition which was not part of the GA. It was published in Feb 22 <sup>147</sup>
GS/DSI	8 related editorials in Europeana Pro	Task 3.2. Nurture networks and Task 4.2. Relations with Europeana Generic Services projects	April 22	100% <sup>148</sup>	Done	8 editorials were published. One more editorial is expected to be published during Q2 of 2022.
GS	10 collections days events held	Task 3.1. Build capacity of aggregators and professionals	Sep 21	100%	Done	13 collection day events were held, 3 more than promised - as online campaigns (3) and in-person events (9) or hybrid events (1)
GS	2 workshops held	Task 3.1. Build capacity of aggregators and professionals	Dec 21	100%	Done	2 workshops 'Copyright in the aggregation of sports content' <sup>149</sup> and 'Copyright in the user contribution of sports content' <sup>150</sup>
<b>ARMA - The Art of Reading in The Middle Ages<sup>151152</sup></b>						
GS/DSI	21,300 new records (50 of these will be 3D)	Task 2.1 Quality assured data	July 22 <sup>153</sup>	5%	On track	Most of the partners delivered their data to respected aggregators and were informed that the data should be shared with EF no later than the beginning of June in order to meet the publication deadline.

<sup>146</sup> 48 editorials have been published ( 31 blogs, 7 galleries, 10 browse discovery points)

<sup>147</sup> <https://www.europeana.eu/exhibitions/heroes-of-the-olympic-games>

<sup>148</sup> Editorials pieces have been published ( 3 event pages, 4 news pieces, 1 project page)

<sup>149</sup> <https://www.youtube.com/watch?v=h2wEbKuTGtI>

<sup>150</sup> <https://www.youtube.com/watch?v=E0j1xp-KKlw>

<sup>151</sup> <https://pro.europeana.eu/project/pagode-europeana-china>

<sup>152</sup> The project received an official extension for 4 months, which extends all remaining MS deadlines to 31 August 2022.

<sup>153</sup> Project received confirmation of the project extension. This activity was granted an extension until 31 July 2022

GS	20 editorials in Europeana.eu.	Task 1.4 Discoverability of digital cultural content	Feb 22	100% <sup>154</sup>	Done	The project created additional editorial pieces that will be published in the upcoming months.
GS	1 online exhibition available in English + additional five languages <sup>155</sup>	Task 1.4 Discoverability of digital cultural content	Oct 21	80%	Delayed	The online exhibition has been published (English). EF received 4 out of 5 translations. The remaining translation in French is expected in May 2022 <sup>156</sup> .
GS	25 curatorial activities in Europeana.eu (11 learning activities - blogs, instructional videos, learning scenarios, 5 instagram stories, 1 online activity pack, 1 multi online learning pack, 1 feature page, 6 topic pages <sup>157</sup> or cards groups <sup>158</sup> )	Task 1.4 Discoverability of digital cultural content	May 22 <sup>159</sup>	65%	On track	16 curatorial activities have been already realised. 3 educational blogs and 2 instagram stories have been published. On the project website 8 videos <sup>160</sup> and 3 Learning scenarios for Postsecondary education were released <sup>161</sup> . EF is investigating how to integrate them in Europeana Classroom
GS	Recommendation on the implementation of IIF	Task 2.1 Quality assured data	July 22 <sup>162</sup>	50%	On track	First draft of the recommendation has been written and shared with partners.
<b>Objective 4.2.3. Supporting Europeana Generic Services (CEF-TC-2020-1) call</b>						
<b>Jewish History Tour<sup>163</sup></b>						
GS/DSI	30,000 new records and 5 updated records without enrichments	Task 2.1 Quality assured data	April 22	8%	On track	The project has delivered and published 3 datasets from the 19 datasets that are

<sup>154</sup> 20 editorials have been published (5 galleries, 15 blogs)

<sup>155</sup> Dutch, German, Czech, Slovenian and French

<sup>156</sup> <https://www.europeana.eu/nl/exhibitions/the-art-of-reading-in-the-middle-ages>

<sup>157</sup> A type of automatically created Collection page that presents items for an entity-defined theme or subject, for example, [music](#).

<sup>158</sup> Cards groups are manually curated subtopics within a feature page.

<sup>159</sup> Activity extended until 31 May 2022

<sup>160</sup> <https://www.medieval-reads.eu/activities/learning/postsecondary-education/video-series>

<sup>161</sup> <https://www.medieval-reads.eu/activities/learning/postsecondary-education/learning-scenarios>

<sup>162</sup> Extended to 31 July 2022

<sup>163</sup> <https://pro.europeana.eu/project/jewish-history-tours>

						expected.
GS	Validation methodology for enrichments is ready	Task 1.2. Europeana website experience	Jun 22	15%	On track	-
GS/DSI	Enhancement of Europeana API with geospatial querying	Task 2.2 Enriched data	Jul 22	30%	On track	Design of the API functionality plus preliminary investigation was done.
GS/DSI	Editorials in Pro	Task 3.2. Nurture networks and Task 4.2. Relations with Europeana Generic Services projects	March 23	20% <sup>164</sup>	On track	More editorials in Pro are foreseen until the end of the project in March 2023.
GS	1 webinar with a series of 3 sessions	Task 3.1. Build capacity of aggregators and professionals	Sep 21	100%	Done	-
<b>WEAVE - Widen European Access to Cultural Communities Via Europeana</b>						
GS/DSI	5,265 new records (165 3D objects, 100 videos and 5000 photographs)	Task 2.1 Quality assured data	Aug 22	18%	On track	WEAVE partners started working on the data and started submitting small sets for publication.
GS/DSI	Integration of the WEAVE toolkit into Europeana CSP	Task 1.4 Discoverability of digital cultural content	Aug 22	5%	On track	-
GS	6 editorials in Europeana Pro <sup>165</sup>	Task 3.2. Nurture networks and Task 4.2. Relations with Europeana Generic Services	Aug 22	65%	On track	Two editorials published in this period to support the Europeana WEAVE event series on diversity and inclusion. More editorials in Pro are foreseen by Aug 22.

<sup>164</sup> 1 project page and 1 event page

<sup>165</sup> To date, four editorial pieces have been published ([one project page](#), one [project news post](#), a [curated event page](#) and an [event workbook](#))

		projects				
GS	Editorials in Europeana.eu	Task 1.4 Discoverability of digital cultural content	Aug 22	5%	On track	Planning of writing editorials has started. Editorials are foreseen to be published periodically in the next months.
GS	1 Europeana WEAVE LabDay <sup>166</sup> and 4 Europeana WEAVE cafés	Task 3.1. Build capacity of aggregators and professionals	Mar 22	100%	Done	A facilitators guide has been produced for professionals interested in replicating the exercises run during the Europeana WEAVE café events. <sup>167</sup>
GS	1 capacity building webinar	Task 3.1. Build capacity of aggregators and professionals	Mar 22	100%	Done	1 webinar as a result of the Europeana WEAVE LabDay.
GS	Best practices in intangible heritage content and recommendations for metadata enrichment of community (and minority) collections	Task 3.1. Build capacity of aggregators and professionals	June 22	10%	On track	Catalogue of best practices and guidelines is currently being drafted.
GS	4 online events for minority communities	Task 3.1. Build capacity of aggregators and professionals	Mar 22	100%	Done	4 events held in Feb and March. <sup>168</sup>
<b>Europeana Enrich+<sup>169</sup></b>						
GS/DSI	100,000 new records	Task 2.1 Quality assured data	Nov 21 <sup>170</sup>	5%	On track <sup>171</sup>	Almost 5,000 records have been published.

<sup>166</sup> <https://pro.europeana.eu/event/europeana-labday>

<sup>167</sup> <https://weave-culture.eu/capacity-building/europeana-events/>

<sup>168</sup> <https://pro.europeana.eu/event/europeana-weave-event-series-on-diversity-and-inclusion>

<sup>169</sup> <https://pro.europeana.eu/project/enricheuropeana>

<sup>170</sup> During Nov 21-Dec21 the project delivered (4.7% or 4,684 records) of the expected 100,000 records. According to the project partners, *MS3 Content aggregation* - first ingestion into Europeana was achieved (due date 30 Nov 21). The partners will ingest the remaining records during the project scope. The progress column will show the updates related to the % of records that have been published in Europeana.

<sup>171</sup> According to the project partners, the respective MS was completed. EF will show in the progress column the & related to the records that have been published in Europeana.

GS/DSI	10 Editorials in Pro <sup>172</sup> and/or Editorials in Europeana.eu	Task 3.2. Nurture networks and Task 1.4 Discoverability of digital cultural content	Aug 22	10%	On track	Editorials are foreseen to be published in the next few months.
<b>Europeana Subtitled<sup>173</sup></b>						
GS/DSI	6,000 AV records	Task 2.1 Quality assured data	May 22	10%	On track	Partners started delivering sample data.
GS/DSI	Enrichments	Task 2.2 Enriched data	Aug 22	0%	On track	-
GS/DSI	Integration of the AI pipeline with the Europeana CSP via de Europeana APIs; adaptations to the Annotation API and Full-text API for subtitles and transcriptions to meet project requirements; support for multilingual subtitles display on the Europeana Media Player	Task 2.2 Enriched data	Mar 22	70%	Delayed	The changes to the Annotations API, the pipeline between Annotations and the Full-text API have been implemented. However, the release into production is on-hold until the Media player is updated to support multiple subtitles.
GS	2 Editorials in Pro <sup>174</sup>	Task 3.2. Nurture networks and Task 4.2. Relations with Europeana Generic Services projects	Aug 22	50%	On track	-
GS	24 editorials in Europeana.eu <sup>175</sup>	Task 1.4 Discoverability of digital	Aug 22	30% <sup>176</sup>	On track	8 editorials published. More editorials will be published periodically

<sup>172</sup> 1 project page has been published

<sup>173</sup> <https://pro.europeana.eu/project/europeana-subtitled>

<sup>174</sup> 1 editorial published (1 project page)

<sup>175</sup> 24 editorials in Europeana.eu (14 blogs, 9 galleries, 1 exhibition)

<sup>176</sup> 9 editorials in Europeana.eu (6 blogs, 3 galleries)



		cultural conte				until the project end.
<b>CRAFTED - Enrich and promote traditional and contemporary crafts<sup>177</sup></b>						
GS	Editorials in Pro	Task 3.2. Nurture networks and Task 4.2. Relations with Europeana Generic Services projects	Aug 22	25% <sup>178</sup>	On track	More editorials will be published in the next few months.
GS	Editorial in Europeana.eu	Task 1.4 Discoverability of digital cultural content	Aug 22	25% <sup>179</sup>	On track	The curatorial plan milestone has been achieved.
<b>Other GS projects with outcomes to be integrated in DSI</b>						
<b>Europeana Translate<sup>180</sup></b>						
GS	Editorials in Pro	Task 3.2. Nurture networks and Task 4.2. Relations with Europeana Generic Services projects	Aug 22	10% <sup>181</sup>	On track	
<b>J-Ark European Jewish Community Archive<sup>182</sup></b>						
GS	Editorials in Pro	Task 3.2. Nurture networks and Task 4.2. Relations with Europeana Generic Services projects	Aug 22	10% <sup>183</sup>	On track	

<sup>177</sup> <https://pro.europeana.eu/project/crafted>

<sup>178</sup> 3 editorials have been published (1 project page, 1 event page, 1 Pro News post)

<sup>179</sup> 4 editorials have been published (1 blog, 2 galleries, a feature page)

<sup>180</sup> <https://pro.europeana.eu/project/europeana-translate>

<sup>181</sup> 1 editorial published (1 project page)

<sup>182</sup> <https://pro.europeana.eu/project/j-ark-european-jewish-community-archive>

<sup>183</sup> 1 editorial published (1 project page)

*Risk assessment: relations with Europeana Generic Services projects*

<b>ID</b>	<b>Risk</b>	<b>Probability</b>	<b>Impact</b>	<b>Rate</b>	<b>Mitigation strategy</b>	<b>Change</b>
R4.3	Several Generic Services projects are extended or requested an extension to fulfil the ingestion work. Therefore, DSI work might be delayed to accommodate the updated ingestion load.	Medium (3)	High (4)	12	<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>	-

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

**Partners:** EF

Under this task EF reports to the European Commission and the Commission expert Group on the common European Data Space for Cultural Heritage (CEDCHE)<sup>184</sup> 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.

No activities in M42/M43.

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

**Partners:** EF

The task provides 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 M42/M43.

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<sup>184</sup> <https://ec.europa.eu/transparency/expert-groups-register/screen/expert-groups/consult?lang=en&groupID=3800>

## Annex: Updates towards milestones

The table states milestones to be delivered in Europeana DSI-4 Y4 (1 September 2021 - 31 August 2022).

<b>MS No.</b>	<b>WP</b>	<b>Description</b>	<b>Verification</b>	<b>Due date</b>	<b>Status</b>
MS1	WP1	MS1 Report on progress on the aggregation strategy delivered (internal)	Milestone document sent to EC	M48 (Aug 2022)	Due
MS2	WP1	MS2 Report on progress on the search strategy delivered (internal)	Milestone document sent to EC	M48 (Aug 2022)	Due
MS3	WP1	MS3 Report on progress on the multilingual strategy delivered (internal)	Milestone document sent to EC	M48 (Aug 2022)	Due
MS4	WP2	MS4 DSI AGG annual work plan review (internal)	Milestone document sent to EC	M42 (Feb 2022) M48 (Aug 2022)	Done Due
MS5	WP2	MS5 New recommendations and updated requirements for services and products focusing on content in the EPF developed (including a report of the status of EPF) (internal)	Milestone document sent to EC	M47 (Jul 2022)	Due

## Annex: Progress on deliverables (M37-M48)

This table states progress on deliverables and what deliverables were submitted to EC (1 September 2021 - 31 August 2022).<sup>185</sup>

ID	Description	Due month	Due	Done
A.1	Platform reports	Every 10 months, starting M10	-	M40 (Dec 2021)
B.1	Implementation Plan	M01 and every 12 months thereafter	-	-
B.2/B.3	Periodic reports	Every 2 months, starting M2	M46 (Jun 2022) - M48 (Aug 2022)	M38 (Oct 2021) - M44 (Apr 2022)
B.4	Annual report	Every 12 months, starting M12	M48 (Aug 2022)	-
B.5	Final report	M48 (Aug 2022) in case of renewals	M48 (Aug 2022)	-
C.1	Technical documentation	Every 12 months, starting M32	-	M44 (Apr 2022)
C.2/C.3	Users and usage report	Every 5 months, starting M5	M45 (May 2022)	M40 (Dec 2021)
C.4	Stress and disaster recovery test reports	Every 12 months, starting M31	-	M43 (Mar 2022)
D.1	Communication and dissemination plan	Every 9 months, starting M9	M45 (May 2022)	-
D.2	Study on impact of digitisation and reuse of cultural heritage	October every second year, starting Y2 <sup>186</sup>	M47 (Jul 2022)	-
E.1	Transfer of assets and liabilities report	4 months before the contract ends: M44 (April 2022) in case of renewals	-	M44 (April 2022)
E.2	Transfer process report			
E.3	Employed staff report			

<sup>185</sup> Note: the schedule of deliverables was updated in January 2020, August 2020 and February 2022. Changes to the schedule have been confirmed by EC.

<sup>186</sup> EF proposed to postpone the deliverable. The change was confirmed by EC.

## Annex: Glossary of terms

Formal definitions of terms used frequently are detailed in the glossary of terms<sup>187</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: IIF image server	The IIF image server allows to efficiently store, share and provide access to IIF 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-mucha.html">https://www.europeana.eu/portal/en/explore/people/61016-alphonse-mucha.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>187</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.