CNECT/LUX/2021/OP/0070
Deployment of a common European data space for cultural heritage

PM. Periodic report M09

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REVISION HISTORY AND STATEMENT OF ORIGINALITY

Revision History

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1.0	31-05-2023	Valentine Charles, Jochen Vermeulen, Dasha Moskalenko, Antoine Isaac, Hugo Manguinhas, Hannah Baker Hitzhusen, Isabel Crespo, Jolan Wuyts, Henning Scholz, Julia Fallon, Ariadna Matas, Gina van der Linden, Sebastiaan ter Burg, Nicole McNeilly, Zuzana Malicherova, Alba Irollo, Nicholas Jarrett, Shadi Ardalan, Michelle Lewis, Albert Verhaar, Julia Schellenberg	Europeana Foundation	Final version
1.1	13/06/2023	Julia Schellenberg, Valentine Charles, Hannah Baker Hitzhusen	Europeana Foundation	Updates based on agreed requests for adjustments
1.1.1	14/06/2023	Julia Schellenberg, Hannah Baker Hitzhusen	Europeana Foundation	Updates based on agreed requests for adjustments

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Abbreviations

Consortium participants

EF	Europeana Foundation, The Netherlands (Coordinator)
AIT-Graz	AIT Angewandte Informationstechnik Forschungsgesellschaft mbH, Austria
AIT-Vienna	AIT Austrian Institute of Technology GmbH, Austria
APEF	Archives Portal Europe Foundation, The Netherlands
CAPG	Capgemini Nederland BV, The Netherlands
CARARE	Connecting Archaeology and Architecture in Europe, Ireland
DARIAH	Digital Research Infrastructure for the Arts and Humanities, France
DATO	Datoptron P.C., Greece
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 Digital Services GmbH, Germany
INCEPTION	Inception s.r.l, Italy
MCA	Michael Culture AISBL, Belgium
NISV	Stichting Nederlands Instituut voor Beeld en Geluid, The Netherlands
Photocons	International Consortium for Photographic Heritage Photoconsortium, Italy
PSNC	Instytut Chemii Bioorganicznej Polskiej Akademii Nauk - Poznańskie Centrum Superkomputerowo-Sieciowe, Poland
TMO	Time Machine Organisation, Austria

Other

CHIs	Cultural Heritage Institutions
DS AGG	Data space aggregators
EAF	Europeana Aggregators' Forum
EDM	Europeana Data Model
ECBF	Europeana Capacity Building Framework
EIF	Europeana Impact Framework
ELF	Europeana Licensing Framework
ENA	Europeana Network Association
EPF	Europeana Publishing Framework
IIIF	International Image Interoperability Framework

Please see glossary available on Europeana Pro for more formal definitions of terms used frequently.

Highlights

In this period, we completed an analysis of the usage of persistent identifiers (PIDs) for cultural heritage objects, focusing on the metadata delivered by Europeana's data providers. We also made an assessment of the aspects of the data space ecosystem that can influence the stability and persistence of references to objects made available on Europeana.eu and raised the requirements for their improvement. Additionally, we developed a prototype framework for a post publication enrichment pipeline.

We reported on progress towards the data governance strategy (e.g. creation of a data governance stakeholder working group). We progressed with the review of the Europeana Data Model (EDM) for the support of 3D. We also made progress towards various facets of a 3D campaign (e.g. engaging Members States with the topic of 3D via events and developing capacity building webinars and resources).

In support of efficient data acquisitions and data improvements, we refined the prioritisation process for managing the data ingestion backlog and improved the user experience in the Metis Sandbox.

We evaluated an approach to creating a rewarding experience for CHIs which will further feed into an improved model of cooperation across the data space ecosystem, and we created a thematically curated overview of a selection of activities across the data space ecosystem which can contribute to better cooperation and collaboration.

In this period, we also reported on several areas of user research undertaken in the past months with professional audiences (e.g. Europeana Pro user survey) and user groups (like education, academia and research, and the cultural/creative sectors).

We completed strategic documents to support activities related to building awareness and engagement (incl. dissemination strategies for key social media channels, Europeana events strategy) and assessed learnings from impact assessments and their implementation for event management.

We progressed shaping capacity building as a service by developing supporting documents (incl. motivation and engagement model for capacity building, impact pathway for training programme, requirements and objectives for training programme which contributed to a training programme (V1). More specifically, to facilitate the provision of high quality data, we identified priorities and primary focus areas for the provision of high quality data and a roadmap for the creation of training. Additionally, we developed an approach to identifying, cataloguing and sharing professional expertise with EAF and ENA.

We facilitated the reuse of high-quality data in education, academia and research and for developer communities and API customers by organising and contributing to events and by sharing capacity-building resources (e.g. English and Romanian version of the Digital Education with Cultural Heritage MOOC and train the trainer events for education; training workshop on Crowdsourcing for academia and research).

We further developed the Europeana website offer by improving the ranking of search results and by improving the item page and media playout as part of the outcome 'search within transcriptions'.

Finally, we engaged audiences with digital cultural heritage on the website (e.g. with editorials), external platforms and social media.

Introduction

The periodic report describes work carried out under the common European data space for cultural heritage from 1 February 2023 (M06) until 30 April 2023 (M08) based on the implementation plan (PM. Implementation plan M1).

The report is organised in five work packages (WP): WP1) Development and operation of the data space infrastructure; WP2) Integration of high-quality data; WP3) Capacity building and fostering reuse; WP4) Digital services for the public; and WP5) Programme management (including the balance of efforts as well as reporting on integrations of other EU-funded projects).

All outcomes to be completed in Y1 (Sep 2022 - Aug 2023, as stated in PM. Implementation plan M1) are included in this periodic report with % of completion and expected due date. For outcomes completed in the reporting period a description is added that highlights the objective and result of the outcome and its value for the data space. Additionally, the consortium will report on all outcomes marked as "ongoing" bi-annually (Feb and Aug 2023).

Key Performance Indicators (KPIs) as well as other reporting metrics are provided and discussed in case of notable occurrences.

Annex: Risk log includes an assessment of foreseen and observed risks with risk responses and other relevant details. The Risk log will be updated periodically and an updated version is attached to this report.

Explanatory notes for tables reporting - colour codes

	Outcomes as stated in the implementation plan[1]
%	Progress until end of current reporting period

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[1] Outcomes as stated in the implementation plan are marked with light blue background to be able to refer back to the initial implementation plan. Additional outcomes we report on have a transparent background.

Work package 1: Development and operation of the data space infrastructure

This work package aims to provide a reliable data space infrastructure and quality of service (Task 1.1.), as well as foster innovation, interoperability and compliance with other data spaces (Task 1.2.).

Task 1.1. Provide reliable data space infrastructure and quality of services

Partners: EF, AIT-Vienna, PSNC, DATO, and AIT Graz

The data space infrastructure will build upon the current Europeana Digital Service Infrastructure (Europeana DSI). Europeana DSI consists of four digital products: the Europeana website, Europeana Pro website, APIs, and aggregation systems. Underlying all of these products is the infrastructure to host, monitor, and recover systems.

Under this task, the Europeana DS consortium will extend and maintain the overarching platform infrastructure and services (Activity 1.1.1.), aggregation systems (Activity 1.1.2.), and APIs (Activity 1.1.3.). The Europeana website will be further developed as part of WP4: Digital services for the public and the Europeana Pro website as part of WP3: Capacity building and fostering reuse.

Overview of outcomes: provide reliable data space infrastructure and quality of services

Partner	Outcomes	Progress	Due date
Activity 1.1.1. Extend and maintain platform infrastructure and services			
EF	Inventory of the current identifications schemes used in the data repository delivered	Completed	Feb 2023
EF	Requirements for improved persistence and unique identification system in the core platform gathered	Completed	Feb 2023
PSNC	eCloud processing model reviewed and refactored	70%	Jun 2023
EF	Report on one selected area for experimentation and assessment of permanent and unique identifiers completed (including recommendations for future work)	20%	Jul 2023
EF	Logging infrastructure further extended	Not started	Aug 2023
EF, AIT Vienna	Prototype framework for post publication enrichment pipeline delivered	Completed	Apr 2023 (Aug 2023)
EF	New metrics to assess the performance of the Metis aggregation infrastructure defined and implemented	30%	Aug 2023

EF	Full disaster recovery test completed[2]	-	Ongoing
EF	Europeana database reprocessing activities[3]	-	Ongoing
EF	Infrastructure supporting products and services are maintained - 80% in M06 - M08	-	Ongoing
EF	Compliance with data protection maintained[4]	-	Ongoing
Activity 1.1.2. Extend and maintain aggregation systems and services			
EF	API allowing the integration of the Metis service(s) decided and validated for implementation	Completed	Jan 2023
EF	Metis infrastructure migrated to Kubernetes	90%	Jun 2023
EF, DATO	API allowing the integration of one of the Metis services developed	Not started	Aug 2023
PSNC	IIIF image service updated to use a more openly licensed software	60%	Aug 2023
DATO	MINT based infrastructures upgraded to support incremental harvesting	25%	Aug 2023
AIT-Graz	Use of IIIF within aggregators' infrastructure supported	50%	Aug 2023
EF	Field warnings mechanism in the Metis Suite extended with new problem patterns	-	Ongoing
EF, PSNC	The Metis applications are maintained and kept up-to-date - 20% in M06 - M08	-	Ongoing
Activity 1.1.3. Extend and maintain Application Programming Interfaces (APIs)			
EF	Record API is redesigned	5%	Aug 2023[5] (May 2023)
EF, AIT Vienna	All APIs migrated to Kubernetes	85%	Jun 2023
EF	Satisfaction survey for the alpha version of the Record API completed	Not started	Year 2[6] (Jul 2023)
EF	Recommendation service redeveloped	5%	Aug 2023

[2] This outcome will feed into DS. Stress test reports.
[3] Outcomes in other tasks might require a reprocessing activity. The planning will be aligned with those outcomes.
[4] According to the Regulation (EU) 2018/1725 concerning the processing of personal data by the EU institutions (IDPR)
[5] Outcome adjusted with EC.
[6] Outcome adjusted with EC.

EF, AIT Vienna	First version of a Translation API is established	20%	Aug 2023
EF, AIT Vienna	Europeana APIs are maintained and well performing - 30% in M06 - M08	-	Ongoing

Inventory of the current identifications schemes used in the data repository delivered - the report *Inventory of persistent identifiers for cultural heritage objects and web resources provided to Europeana*[7] presents the results of an analysis of the usage of persistent identifiers for cultural heritage objects and their digital representations, focusing on the metadata delivered by Europeana's data providers. The analysis was conducted on a data dump of the Europeana dataset from Feb 2023. This inventory shows that PIDs are already being delivered to Europeana. 13% of the records in Europeana contain a possible PID. Three of the candidate PID Schemes in use are known to be supported by reliable persistent identifier policies and resolution systems: ARK, HANDLE and DOI.

Requirements for improved persistence and unique identification system in the core platform gathered - we have made an assessment of the aspects of the data space ecosystem that can influence the stability and persistence of references to objects made available on Europeana.eu and lifted the requirements for their improvement which take into consideration the availability and implementation of persistence identifiers. Following this assessment, we have started to prepare an implementation plan that can progressively improve the present situation.

Prototype framework for post publication enrichment pipeline delivered - a first prototype for a framework that can run over the Europeana database has been developed. We have used it to help us with the translation of the metadata records to English as part of the Europeana Translate GS project. This way, we were able to put it to the test with a concrete scenario and also validate it under unstable situations which is the case of the Europeana Translate project where it would rely on an external service which may have downtimes and experience failures for which the framework would have to recover and resume from. This prototype and exercise have proven to be successful and we expect to bring it into our operations in Y2.

Reporting metrics: provide reliable data space infrastructure and quality of services

No.	Description	Measured by	Frequency	Target	Jan 2023	Feb 2023	Mar 2023	Apr 2023
KPI 1.1 [8]	Records with identifiers using a recognizable persistent	Total number of records in the data repository (incl. Tier 0)	Annually	**N/A**[9]	-	7.39 million	-	-

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[7] Available on request.
[8] Metric description changed (Mar 2023) to better describe the metrics and how it is measured.
[9] The associated technology and processes first need to be established. EF will identify the baseline in Feb2023 and a future target by Aug 2023 (a target will be added to the Y2 metrics framework).

	identifier scheme							
KPI 1.2	Response time of Europeana website	Average time (seconds) for single record per month	Monthly	**1.5s**	1	1	0.97	0.98
KPI 1.3	Uptime of Europeana website	Average in % for single record per month	Monthly	**99.90**	99.96	99.96	99.73	99.96
KPI 1.4	Uptime of public APIs (all)	Average in % per month	Monthly	**99.90**	99.98	99.98	99.75	100
KPI 1.5	Uptime of Europeana Pro	Average in % per month	Monthly	**99.90**	100.00	100	99.78	100
RM 1.1	Europeana website meets the WCAG 2.1 conformance level AA	Homepage and item pages (except for the media) meet the WCAG 2.1 conformance level AA accessibility standard	Annually	-	-	-	-	Expected Jul 2023
RM 1.2	Response time of all public APIs	Average response time (seconds) per month	Monthly	-	0.21	0.15	0.14	0.14
RM 1.3	Response time of Europeana Pro	Average response time (seconds) per month	Monthly	-	0.93	0.92	0.84	0.83
RM 1.4	Europeana Pro meets the WCAG 2.1 conformance level AA	Homepage and main landing pages in IA meet the WCAG 2.1 conformance level AA accessibility standard	Annually	-	-	-	-	Expected Jul 2023

RM 1.5	Uptime of Metis	Average in % per month	Monthly	-	100%	100	100	100
RM 1.6	Data publication in Metis	Average time required for publication of datasets in Metis	Bi-annually	-	-	-	-	Expected May 2023

Task 1.2. Foster innovation, interoperability and compliance with other data spaces

Partners: EF, NISV, DATO, AIT Vienna, CAPG

Under this task, the Europeana DS consortium will continue to innovate the core service infrastructure to make it interoperable with the data spaces ecosystem. More specifically, the partners will review the aggregation operational model in light of the data governance model for the data space and the new technologies available to support the exchange of semantic data (Activity 1.2.1.). The consortium will also run investigations to become fully compliant with the Data Spaces Technical Framework and the Data Space Support Centre recommendations (Activity 1.2.2.). For this purpose, the consortium will gather and communicate the needs and requirements of the data space for cultural heritage to the Data Space Support Centre and, reciprocally, follow the Centre's procedures and requirements to ensure seamless and sustainable operation of the data space for cultural heritage.

The consortium will keep supporting the EuropeanaTech community as a space for technological innovation, development and sharing of best practices (notably about interoperability) for digital cultural heritage (Activity 1.2.3.).

Overview of outcomes: foster innovation, interoperability and compliance with other data spaces

Partner	Outcomes	Progress	Due date
Activity 1.2.1. Investigate innovative scenarios for aggregation models			
EF	Roadmap for the Aggregation Strategy reviewed and updated	Completed	Dec 2022
EF	Response to ENA/EAF task force reports[10] from the perspective of the Aggregation Strategy	15%	Jun 2023
EF, NISV, DATO	List of functional requirements for data aggregation in the data space delivered	Not started	Aug 2023

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[10] Including ENA and EAF task forces on the topics on Linked Data and Solid technologies (launched Nov 2022).

Activity 1.2.2. Synergies with other European data spaces			
EF, AIT Vienna, NISV, CAPG	Report to update on synergies with other European data spaces	Not started	Jun 2023
EF	Collaboration with the Data Space Support Center	-	Ongoing
Activity 1.2.3. Support interoperability and technological innovation for digital cultural heritage			
EF, NISV	EuropeanaTech community[11] is supported	-	Ongoing
EF	EDM coordinated and documented	-	Ongoing
EF	Data mapping and conversions with stakeholders is supported	-	Ongoing
EF	Continuous involvement in IIIF community (e.g. IIIF Executive Committee, Technical Review Committee)	-	Ongoing
EF	Data Quality Committee[12] is supported	-	Ongoing

Communication and dissemination activities: foster innovation, interoperability and compliance with other data spaces

Partner	Name of event	Activity	Location	Date
EF	Accelerating 3D in the common European data space for cultural heritage: Why 3D matters	Coordination of the Swedish Presidency event on 3D and presentation on "3D in the data space for cultural heritage"	Stockholm, Sweden	18/04/2023
EF	Triple/DARIAH event on "Use of vocabularies for metadata curation and quality assessment in Social Sciences and Humanities"	Presentation "Multilinguality and the use of vocabularies at Europeana"	Berlin, Germany	27-28/03/2023
EF	University of Twente Master in Computer Science	Lecture "Europeana as a Linked Data case"	Twente, Netherlands	03/04/2023

Reporting metrics: foster innovation, interoperability and compliance with other data spaces

No.	Description	Measured by	Frequency	Jan 2023	Feb 2023	Mar 2023	Apr 2023
RM 1.7	Reach to EuropeanaTech community	Number of people reached per month (Mailing list, Twitter)	Quarterly	6,562	-	-	6,613

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[11] https://pro.europeana.eu/page/europeanatech
[12] https://pro.europeana.eu/project/data-quality-committee

Work package 2: Integration of high-quality data

This work package aims to contribute to a significant and sustained increase of high quality, usable and accessible data in the data space, with a special focus on 3D (Task 2.2.). The efforts will contribute to an increase in high quality tiers by at least 10% each year. The consortium aims, to the best of its capacity, for all new data to be in tier 2 for content and tier A for metadata, as defined by the current Europeana Publishing Framework.

To achieve these objectives, the Europeana DS consortium will integrate the requirements needed to implement the EC recommendations and the Digital Europe programme[13] and will collaborate closely with the cultural heritage community, the member states (in the framework of the CEDCHE) and the European Commission. New and extended data governance mechanisms will also be developed to support the provision and management of data within the data space (Task 2.1.).

Finally, the Europeana DS consortium will work on automated approaches to address data quality issues at scale (Task 2.3.).

Task 2.1. Develop and manage data governance mechanisms

Partners: EF, CAPG, INCEPTION, DS AGG

The Data Space governs data through various organisational tools, principles, processes and standards that are harmonised so that the data is interoperable, manageable, reliable and remains useful in the future. These will progressively evolve to enable new objectives of the data space for cultural heritage, stronger safeguards for privacy and data protection, more and varied partners, more decentralised data systems, and opportunities for cooperation with other data spaces, in the form of a Data Governance Mechanism for the data space. (Activity 2.1.1.)

The Europeana Publishing Framework (EPF), the Europeana Data Model (EDM) and the Europeana Licensing Framework (ELF) will be reviewed to accommodate new activities and areas, for instance, for better representing 3D. (Activity 2.1.2. - Activity 2.1.3.)

Overview of outcomes: develop and manage data governance mechanisms

Partner	Outcomes	Progress	Due date
Activity 2.1.1. Identify data governance requirements and objectives			
EF, CAPG	Strategy and plan for the development of a Data Governance Mechanism v1 for the data space developed (internal)	Completed	Dec 2022

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[13] https://digital-strategy.ec.europa.eu/en/news/commission-proposes-common-european-data-space-cultural-heritage

EF	Strategy and plan for the Data Governance Mechanism published	Completed	Jan 2023
EF	Enrichment policy v1 developed (internal)	Completed	Jan 2023
EF	Progress report on the strategy and plan for the development of Data Governance Mechanism, including on the cooperation agreement (internal)	Completed	Mar 2023
EF	Enrichment policy v2 validated (public)	30%	Aug 2023
EF, CAPG	Strategy and plan for the development of the Data Governance Mechanism v2 updated (internal)	10%	Aug 2023
EF, CAPG	Report evaluating European and national practices, objectives, requirements and mechanisms on the governance of cultural heritage sector data, including licensing and data protection completed	Not started	Aug 2023

Activity 2.1.2. Develop and expand data governance frameworks and standards

EF	Proposal for EPF as a tool to measure enrichment improvements	Completed	Dec 2022
EF, INCEPTION, CARARE	Initial review of EDM to support 3D completed	Completed	Mar 2023
EF	Validation of the EPF as a tool to measure enrichment improvements	20%	Jun 2023
EF, CARARE	Review EPF for 3D completed	20%	Aug 2023
EF	Review of EPF to support transcriptions & subtitles	Not started	Year 2[14] (Aug 2023)

Activity 2.1.3. Manage data governance frameworks and standards

EF	Ownership models and consultation processes to ensure wider stakeholder involvement in the adoption, development, and implementation of data governance standards and frameworks defined	10%	May 2023
EF	Implementation metrics for ELF and its core elements defined	Not started	Aug 2023
EF	Areas for development, gaps & opportunities of EPF services and products identified and specified using the Framework Management Template	20%	Aug 2023

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[14] Outcome adjusted with EC.

EF, DS AGG	List of metadata and content issues patterns is maintained	-	Ongoing
EF	Data Quality Committee[15] is supported	-	Ongoing
EF	Europeana Copyright Community is supported	-	Ongoing
EF	Rights Statements Consortium is supported	-	Ongoing
EF	Continuous involvement in the Rights Statements Consortium community (e.g. Steering Committee, Statements Working Group)	-	Ongoing

Progress report on the strategy and plan for the development of Data Governance Mechanism, including on the cooperation agreement (internal) - the document describes the progress that has been made within some of the actions in the data governance strategy. It is organised by strategy actions on which notable progress has been made, such as the creation of a data governance stakeholder working group (incl. Europeana DS consortium members, ENA and EAF). Details are available in the DS. Data governance deliverable.[16]

Initial review of EDM to support 3D completed - we progressed with the review of the Europeana Data Model (EDM) for the support of 3D. We completed an initial review and recommendations and shared it with relevant DS consortium partners. We will continue to improve it in the coming weeks by incorporating their feedback as well as that of other (external) stakeholders that we plan to contact. This should especially provide us with insight on, for example, terms to be used in some specific fields (e.g. types of 3D).

Communication and dissemination activities: develop and manage data governance mechanisms

Partner	Name of event	Activity	Location	Date
EF	A Cloud for All event[17]	During the online event, organised by the European Commission, EF delivered a talk on 'Collaboration in the management of copyright and open policies'.	Online	15/03/ 2023

Reporting metrics: develop and manage data governance mechanisms

No.	Description	Measured by	Frequency	Jan 2023	Feb 2023	Mar 2023	Apr 2023
RM 2.1	Reach to Europeana Copyright community	Number of people reached per month (Mailing list, Twitter)	Quarterly	2,969	-	-	3,041

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[15] https://pro.europeana.eu/project/data-quality-committee
[16] Available on request.
[17] https://pro.europeana.eu/event/a-cloud-for-all

Task 2.2. Data acquisition and data improvements

Partners: EF, DATO, INCEPTION, TMO, DS AGG

This task will aim to develop processes and practices to support efficient data acquisitions and data improvements. The Europeana DS consortium will improve the communication mechanism around data quality. Reports and feedback about data quality will be better integrated in the data producers workflows so the communication about data quality issues can be more productive and directly contribute to a quality increase. (Activity 2.2.1.)

EF and the Europeana DS aggregators will work together to improve the quality of data in key areas directly impacting the digital services made available in the data space, for instance, the multilingual accessibility across all services. The consortium will identify opportunities for data cleaning, data conversion or general data quality improvements through clear data quality reports provided by the Metis Suite throughout the data aggregation workflow. EF will proactively contact data aggregators to make sure data issues are solved at source as much as possible. (Activity 2.2.2.)

The data quality increase will be supported by bringing new CHIs in. The consortium will reactivate dormant collaborations with existing aggregators to make new and updated content and metadata available to the data space. A data campaign will also be run by the Europeana DS consortium together with the Europeana Aggregators' Forum to actively seek CHIs owning 3D content and channel the content to the data space for cultural heritage. (Activity 2.2.3. - Activity 2.2.4.)

Overview of outcomes: data acquisition and data improvements

Partner	Outcomes	Progress	Due date
Activity 2.2.1. Develop workflows and practices that support efficient data acquisitions and data improvements			
EF	Selection process for dataset samples in the Sandbox adjusted and optimised	Completed	Dec 2022
EF	Mechanism to prevent the publication of content tier 0 records in Metis implemented	Completed	Dec 2022
EF	Prioritisation process for managing the data ingestion backlog refined	Completed	Feb 2023
EF	User experience in the Metis Sandbox improved	Completed	Apr 2023
EF	Requirements for user account in the Metis Suite collected and prioritised	40%	May 2023

EF	Welcome pack to CHIs developed and disseminated	30%	Aug 2023
EF	Data Quality reports in the Metis Suite improved	Not started	Aug 2023
EF, DS AGG	Status update on usage and engagement of DS aggregators with the Metis Sandbox	50%	Aug 2023
EF	Statistics Dashboard maintained and kept up-to-date	-	Ongoing
EF	Processes for the provision of accurate (or improvement of) rights information reviewed	-	Ongoing
EF	Process for the analysis, notification and take down of materials with personal or sensitive data reviewed	-	Ongoing
Activity 2.2.2. Raise the quality and access to existing content and metadata			
DS AGG	Europeana DS AGG annual work plans including quality objectives and/or targets per aggregator (internal) completed	Completed	Oct 2022
EF	Third iteration of organisation pages delivered	30%	Jul 2023
DS AGG	Europeana DS AGG annual progress report completed	Not started	Aug 2023
EF	Report on the coverage of the entity collection and precision of relationships to items in entity collection	Not started	Aug 2023
DATO	Support to the MINT based infrastructures	-	Ongoing
EF	Data quality improvements and new content delivered	-	Ongoing
EF	Data partners supported with data quality improvements and data publication	-	Ongoing
EF	Regular link resolution process is maintained	-	Ongoing
Activity 2.2.3. Engage with inactive and new data partners			
EF	Report on actions taken and results achieved to re-engage with inactive partners (internal) completed	10%	Aug 2023
Activity 2.2.4. Aggregate 3D content			
EF	3D working group is created	Not started	Aug 2023[18] (Dec 2022)
EF, TMO	Brief for the 3D campaign developed	Completed	Mar 2023[19] (Feb 2023)

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[18] Outcome adjusted with EC.
[19] Outcome adjusted with EC.

EF, CARARE, INCEPTION, TMO	Update on the availability of high quality 3D content available in the data space	Not started	Aug 2023
CARARE, EF	Specifications and guidelines for the provision of 3D content developed	15%	Aug 2023
EF	Knowledge Base pages for 3D available and updated	-	Ongoing

Prioritisation process for managing the data ingestion backlog refined - the increased use of the Metis Suite and more specifically the Metis Sandbox by aggregators will support the increase of high-quality data in the data space. A prioritisation process for managing the data ingestion backlog was developed to increase our capacity in terms of publishing high quality data in line with the Commission Recommendation on a common European data space for cultural heritage. With this new process we can also improve the service for our customers, e.g. to have clearer indications on the timeline of data publication for datasets submitted for publication.

User experience in the Metis Sandbox improved - this outcome can be roughly divided into three parts. The first phase consisted of an iteration of general improvements, mainly to do with bringing the UI of the Sandbox in line with the design and style of the Europeana websites, and also containing some improvements inspired by user feedback that was received earlier. In the second phase, usability testing sessions on the updated UI were conducted with a limited number of users. Feedback was generally quite positive. We gained valuable insight in how the usability could be improved further. In the last phase, we spent time on implementing some of these improvements (e.g. the introduction of a download option for the published version of the record, a consistently applied colour scheme for warnings and errors, a wider availability of tootips and an export function for detected problem patterns).

Brief for the 3D campaign developed - EF is developing a brief for a 3D campaign which will engage Members States with the topic of 3D. In this context, EF and the Swedish National Heritage Board co-hosted the conference 'Accelerating 3D in the common European data space for cultural heritage: Why 3D matters'[20] on 18 Apr 2023 at the Museum of Ethnography in Stockholm. The conference explored three-dimensional digitisation of cultural heritage as one of the main aspects of the data space and showcased the work of different cultural heritage actors including aggregators and projects supporting the data space with 3D. In addition, the Europeana DS consortium is developing a series of events and resources which will be made available to support CHIs in their 3D activities. Carare has started a series of webinars, the first one[21] was held in April 2023. TMO is developing guidelines on the use of the Sketchfab import functionality in the Share3D platform, a post was also published on EuropeanaPro about the 3D VIGIE Study[22].

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[20] https://pro.europeana.eu/event/the-europeana-conference-under-the-swedish-presidency-of-the-council-of-the-eu

[21] https://www.carare.eu/en/events/cultural-heritage-in-3d-a-guided-walkthrough-to-publishing-3d-content-on-europeana/

[22] https://pro.europeana.eu/post/eu-funded-study-sheds-light-on-3d-digitisation-of-tangible-cultural-heritage

All resources available on 3D are for now accessible via the 3D tag at
https://pro.europeana.eu/tags/3d . Resources are being organised and structured to better
support Member States and cultural heritage actors in their 3D activities.

Reporting metrics: data acquisition and data improvements

No.	Description	Measured by	Frequency	Target	Jan 2023	Feb 2023	Mar 2023	Apr 2023
KPI 2.1	High quality data	Number of Tier 2+ material in Tier A+ (excl. content Tier 0)	Monthly	**27.15 million**	29.9 million	30.1 million	30.4 million	30.5 million
KPI 2.2	High quality content	Percentage of Tier 2 + material (excl. content Tier 0)	Monthly	**>75%**	72.18	72.23	72.03	72.47
KPI 2.3	High quality and reusable content	Percentage of Tier 3+ material (excl. content Tier 0)	Monthly	**>55%**	54.31%	54.38	54.27	54.89
KPI 2.4	High quality metadata (search, browse and explore)	Percentage of Tier A+ material (excl. content Tier 0)	Monthly	**>75%**	74.19%	74.26	73.85	74.03
KPI 2.5	Broken links in the repository	Percentage of broken links (out of total, incl. content Tier 0)	Quarterly [23]	**<1%**	-	-	-	0.63%
KPI 2.6	Non-EPF compliant content (Tier 0)	Percentage of Tier 0 content	Quarterly	**<10%**	11.62%	11.58	11.21	9.37
RM 2.2	Updates to datasets	Total number of newly created and updated datasets per month (out of total)	Monthly	-	25	33	54	18
RM 2.3	Updates to records	Total number of newly created and updated records per month (out of total)	Monthly	-	2,345,080	648,347	1,232,076	441,063

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[23] Number of broken links are measured quarterly (Sep, Dec, Mar, Jun).

RM 2.4	New CHIs published on Europeana website	Total number of new CHIs (cumulative)	Annually	-	-	-	-	Expected Aug 2022
RM 2.5	New content on the Europeana website	Total number of new datasets published (cumulative)	Quarterly	-	49	-	-	87
RM 2.6	Records in the data repository	Total number of records (excluding content tier 0)	Quarterly	-	56.1 million[24]	-	-	56.8 million
RM 2.7	Records in the data repository by accredited aggregators	Total number of records (excluding content tier 0)	Quarterly	-	41.9 million	-	-	41.7 million
RM 2.8	3D content available in Europeana (items)	Total number of 3D items published (Tier 2+ and Tier A+ material)	Quarterly	-	4,500	-	-	4,613
RM 2.9	3D content available in Europeana (CHIs)	Total number of CHIs sharing 3D content with Europeana (Tier 2+ and Tier A+ material)	Quarterly	-	46	-	-	47
RM 2.10	Coverage of entity collection (items)	Total number of items linked to (at least) one entity collection	Quarterly	-	34.3 million	-	-	33.8 million
RM 2.11	Coverage of entity collection (collections)	Total number of entity collections with items	Quarterly	-	27,275	-	-	27,275

[24] PM. Periodic report M06 included an error (showing the metric incl. Tier 0). This report shows the accurate number (excl. Tier 0).

Between Feb - Apr 2023, we updated 105 datasets (newly created or updated) and over 2.3 million records. The updates contributed to an increase in the data quality (KPI 2.1: 0.6 million items increase in Tier 2+/Tier A+ material; KPI 2.2: 0.29% increase in Tier 2 + material; KPI 2.3: 0.58% increase in Tier 3+ material; KPI 2.4: 0.16% decrease in Tier A+ material).

In Apr 2023, we measured 0.63% of broken links in the data repository (out of total, incl. content Tier 0) less than in Dec 2022 (1.64%).

Task 2.3. Automated approaches towards data quality

Partners: EF, DATO

In this task, we will work on automated approaches to address data quality issues at scale. EF and DATO will continue to improve the data enrichment process to create accurate links between cultural heritage item descriptions and contextual resources. EF will also continue testing and implementing AI technologies. This work will be accompanied by refinement and publication of methodologies to better validate and evaluate the results from automated approaches to data quality. EF will promote the use of AI solutions and the datasets developed for cultural heritage to other data spaces. (Activity 2.3.1.)

Overview of outcomes: automated approaches towards data quality

Partner	Outcomes	Progress	Due date
Activity 2.3.1. Use of AI to enrich metadata and content			
EF, DATO	Enrichment algorithm is improved (e.g. addressing ambiguity)	10%	Aug 2023[25] (Jun 2023)
EF	One AI solution (image resolution enhancement) deployed at scale	25%	Aug 2023
EF	Validation and evaluation methodology of (AI) enrichment results (V1) published	30%	Aug 2023
EF	Report on two new selected areas for experimentation and assessment of AI (including assessment of relevant work in GS projects) completed	40%	Aug 2023

Work package 3: Capacity building and fostering reuse

The overarching objective of WP3 is to strengthen the capacity of professionals and reuse communities working with digital cultural heritage.

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[25] Outcome adjusted with EC.

Specifically, it will develop capacity among cultural heritage professionals to create high quality data that can be used in a wide range of user scenarios. This WP will work with the Europeana Network Association (ENA) and the Europeana Aggregator's Forum (EAF) to develop training, events and interaction programmes that will allow its members, and cultural heritage professionals at large, to learn to use the tools and services provided by the data space and become agents of change in their organisations and in the sector.

Equally, this work package will develop capacity for the use and reuse of high quality data in specified communities such as education, research and the developer communities and it will investigate possibilities for closer collaboration with the Media and Tourism data spaces.

Both of these efforts will be underpinned by a solid user and market research programme, a further development of our tools and services for collaboration that enable the communities to thrive, and an outreach and dissemination strategy to strengthen the position of the data space with key identified professional audiences.

Task 3.1. Enhance cooperation throughout the data space

Partners: EF, DFF, NISV

Under this task the Europeana DS consortium will support, maintain and develop effective coordination of activities of the data space, with specific emphasis on leveraging the synergies of the Europeana Network Association (ENA)[26] and the Europeana Aggregators' Forum (EAF)[27], to identify and manage collective actions that facilitate a rewarding and motivating experience for CHI's. It will support the aims of the data space to enable cross border cooperation and collaboration, utilising the expertise of professionals from the ENA and EAF. (Activity 3.1.1. - Activity 3.1.2.)

EF, together with the Member State holding each presidency of the Council of the EU, will invite the CEDCHE Expert Group members, relevant experts and policy makers to discuss, align visions and expectations, or form a shared understanding of important, challenging, or new topics for the creation and development of the data space. (Activity 3.1.3)

Overview of outcomes: enhance cooperation throughout the data space

Partner	Outcomes	Progress	Due date
Activity 3.1.1. Develop methods of cooperation			
EF	Approach to creating a rewarding experience for CHI evaluated	Completed	Mar 2023
EF	Thematic programme of activity across the data space ecosystem developed	Completed	Apr 2023

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[26] https://pro.europeana.eu/network-association/sign-up
[27] https://pro.europeana.eu/page/aggregators

EF	Improved model of cooperation across the data space ecosystem developed (V1)	20%	May 2023
EF	Pilot for improved model of cooperation completed	35%	Aug 2023
EF	Thematic programme of activity developed and maintained	-	Ongoing

Activity 3.1.2. Provide secretariat for Europeana Aggregators' Forum (EAF) and Europeana Network Association (ENA)

EF	ENA General Assembly organised	Completed	Nov 2022
EF	Annual reporting for ENA and EAF activities published	Completed	Jan 2023
EF	Strategy for ENA/EAF outreach and engagement developed	10%	Jun 2023
EF, DFF, NISV	Evaluation report of accreditation scheme (internal)	10%	Aug 2023
EF	Assessment of connection between ENA and EAF members completed	Not started	Aug 2023
EF	New aggregators reviewed for accreditation	-	Ongoing
EF	EF, ENA and EAF periodic meetings organised (incl. ENA MB and MC, and EAF Steering Group and EAF meeting)	-	Ongoing
EF	General management support for Task Forces, Working Groups and communities (ENA/EAF/Europeana Initiative)	-	Ongoing
EF	EAF meeting	Completed	Apr 2023

Activity 3.1.3. Support national digital strategies to increase high quality data

EF	Czech Republic Presidency Europeana activity organised	Completed	Dec 2022
EF	Czech Republic Presidency Europeana activity evaluated and reported	Completed	Mar 2023
EF	Swedish Presidency Europeana activity organised	Completed	Jun 2023
EF	Develop and implement mechanisms to engage and inform Member States	-	Ongoing

Approach to creating a rewarding experience for CHI evaluated - EF, ENA and EAF evaluated the approach to creating a rewarding experience for CHIs. The exercise was undertaken collaboratively and explored the development of a business model, and established a common understanding of the areas of collaboration that deliver a rewarding experience. Through this we identify gaps in knowledge, such as the need to better understand the roles of professionals, and the need to revisit and redevelop the models that help to shape how we work together, such as

the impact model. This outcome will further feed into the improved model of cooperation across the data space ecosystem.

Thematic programme of activity across the data space ecosystem developed - this first version presents a thematically curated overview of a selection of activities undertaken in and around the Europeana Initiative, the data space for cultural heritage and other data space supporting projects. It forms a template approach for documenting and reporting activities thematically which can contribute to better cooperation and collaboration. It will be further developed based on feedback from EI stakeholders and maintained on an ongoing basis.

EAF meeting[28] - the bi-annaul spring meeting of the Aggregators' Forum took place on 4-5 Apr 2023 with 77 attendees. The meeting included a general assembly session, and revolved around aggregation strategies for implementing the recommendation related to the Common European Data Space for Cultural Heritage, challenges to aggregation and potential solutions in a decentralised approach, Aggregator User Group updates, the use of inclusive language in collections, and the topic of 3D in the data space.

Czech Republic Presidency Europeana activity evaluated and reported[29] - in Nov 2022, Europeana held an online symposium[30] under the auspices of the Czech Presidency of the Council of the EU focusing on fostering digital transformation in the common European data space for cultural heritage - "Digital Transformation in the Data Space: Measurement and Assessment". The event explored challenges and opportunities around data collection, how data is shared, and how this could help to evidence, and better support, the digital transformation of cultural heritage institutions. Attendees were introduced to perspectives on indicators and measurements of digital transformation, and the reuse of collections, from important datasets including ENUMERATE. A number of international speakers were invited and introduced the audience to topics such as using data to design for impact, self assessment for creating digital strategies and performance measures, and how cultural heritage institutions can improve the lives and well being of Europe's citizens. The report[31] from the symposium reiterates the importance of good, open and interoperable data, particularly around reuse; how self-assessment can help us improve digital strategies and organisational practices; and how more holistic indicators might help us not only monitor progress but also design for more impact, i.e. helping heritage institutions to improve the lives and wellbeing of Europe's citizens.

Swedish Presidency Europeana activity organised - EF and the Swedish National Heritage Board co-hosted the conference 'Accelerating 3D in the common European data space for cultural heritage: Why 3D matters'[32] on 18 Apr 2023 at the Museum of Ethnography in Stockholm. The

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https://pro.europeana.eu/files/Europeana_Professional/Event_documentation/Events/Aggregator_Forum/Europeana-Aggregators-Forum-Spring-2023.pdf
29 https://pro.europeana.eu/post/report-from-the-czech-presidency-europeana-conference
30 https://pro.europeana.eu/event/digital-transformation-in-the-data-space-measurement-and-assessment
31 https://pro.europeana.eu/post/report-from-the-czech-presidency-europeana-conference
32 https://pro.europeana.eu/event/the-europeana-conference-under-the-swedish-presidency-of-the-council-of-the-eu

conference explored three-dimensional digitisation of cultural heritage as one of the main aspects of the common European data space for cultural heritage: how to source and make available high-quality, usable and accessible 3D cultural data. The conference explored why 3D is important; diversity and variety of content suitable for 3D digitisation; and, some of the opportunities and best practices. Over 400 cultural heritage professionals participated in person and online.

Communication and dissemination activities: enhance cooperation throughout the data space

Partner	Name of event	Activity	Location	Date
EF	Meeting of the European Heritage Alliance 3.3	EF delivered a presentation on the common European data space for cultural heritage and data space supporting projects.	Brussels, BE	20/03/2023
EF	Data Spaces Symposium & Deep-Dive Day: Building the future – benefit together[33]	EF contributed through the following talks: 'What data spaces in domains (could) look like' and 'What is the business value of a data space?'	The Hague, NL	22/03/2023

Reporting metrics: enhance cooperation throughout the data space

No.	Description	Measured by	Frequency	Target	Jan 2023	Feb 2023	Mar 2023	Apr 2023
KPI 3.1	Satisfaction of the Europeana Network Association members with the ENA	Total % of 'satisfied' and 'completely satisfied' responses on a 5-point Likert scale	Annually	75%	-	-	-	Expected Jul 2023
KPI 3.2	Growth of Europeana Network Association members	Number of members in the ENA	Quarterly	4,250	3,998	-	-	4,182
RM 3.1	Number of participants engaged in EI activities	Number of participants i.e. contributing time and expertise to EI activities and actions (such as TFs, WGs and in response to CTA to engage with other activities in ENA,	Quarterly	-	-	-	-	Expected Jul 2023

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[33] https://i4trust.org/event/data-spaces-symposium-deep-dive-day/

		EAF, Initiative) (cumulative)						
RM 3.2	Task forces in the Europeana Initiative	Number of active task forces per month (ENA, EAF, Initiative)	Quarterly	-	-	-	-	Expected Aug 2023
RM 3.3	ENA membership enables knowledge transfer	% of surveyed ENA members reporting membership helps them staying up to date with best practices and new trends	Annually	-	-	-	-	Expected Jul 2023
RM 3.4	ENA membership delivers practical knowledge	% of surveyed ENA members reporting membership enables them to learn knowledge, skills and information they use in their job	Annually	-	-	-	-	Expected Jul 2023
RM 3.5	ENA membership facilitates knowledge sharing	% of surveyed ENA members reporting membership enables them to learn new information they can share with others	Annually	-	-	-	-	Expected Jul 2023
RM 3.6	Satisfaction with the Europeana EU presidency activities	Total % of 'satisfied' and 'completely satisfied' responses on a 5-point Likert scale	Quarterly	-	87%	-	-	86%

Task 3.2. Identify needs of user groups

Partners: EF

Under this task, EF will continuously explore the needs of professional audiences in the cultural heritage sector (Activity 3.2.1) as well as the needs of potential groups interested in reuse of cultural heritage data, such as education, research and the creative industries. EF will also work

with other European data spaces, including tourism and media, to better understand the needs of these user groups in relation to the data space (Activity 3.2.2). User research will guide the development of tools and services and will identify which data, tools, and services should be offered as a priority.

Overview of outcomes: identify needs of user groups

Partner	Outcomes	Progress	Due date
Activity 3.2.1. Conduct user research among professional audiences			
EF	Europeana Pro user survey completed	Completed	Mar 2023
EF	Report on indicators of digital transformation across Europe (incl. assessment of value of previous ENUMERATE research)	10%	Jul 2023
EF	Qualitative and quantitative (primary and secondary/desk) research among professional audiences undertaken	-	Ongoing
Activity 3.2.2. Perform user and market research to foster reuse			
EF	Decision-makers and influencers among reuse communities identified	Completed	Feb 2023
EF	Qualitative research among decision-makers and influencers completed	Completed	Apr 2023
EF	Report on areas of potential reuse among education, research and academia completed (incl. recommendations for product and service developments)[34]	Not started	Aug 2023 (Apr 2023)
EF	Report on areas of potential reuse among cultural enthusiasts completed (incl. recommendations for product and service developments)	Not started	Aug 2023
EF	Primary research conducted among audiences	-	Ongoing
EF	Market and user research on audiences interested in reuse undertaken	-	Ongoing

Europeana Pro user survey completed - between Feb and Mar 2023 we ran our annual Europeana Pro user survey. Whilst keeping a low barrier to completing and ensuring consistency with 2022, we asked seven questions designed to understand who users are (sector), what users want (motivations, professional development needs, things to improve) and how well users know us (relationship to Europeana, and awareness of the Europeana website). The survey was completed by 338 people (up from 263 in 2022) and results were broadly comparable with previous years. We still see that professional development is a priority for our audiences but more specific research is needed to be undertaken to better understand the content/topic areas and delivery

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[34] Outcome adjusted with EC. This outcome will be merged with "Report on areas of potential reuse among cultural enthusiasts completed (incl. recommendations for product and service developments)".

modes that our users want most from our professional development offer, to inform the products we develop in this area. We saw an increase in respondents from the heritage sector and also saw an increase in people whose organisation has digital content and want to do more with it, which could help inform future product and training development. We saw that connecting/networking with others is low on the list of our respondents priority (and reduced significantly in 2023), and this reflects learnings from previous ENA satisfaction and impact surveys where people say they want to engage more, but that networking outcomes are not the most important outcomes of ENA membership. We aim to better understand this through qualitative interviews and a further survey to help develop requirements around the community collaboration tool (Activity 3.3.3).

Decision-makers and influencers among reuse communities identified[35] - with this effort, we identified which user groups we currently reach with our activities in reuse communities (like education, academia and research, tourism, media, and the cultural/creative sectors) and who we currently miss reaching in those groups. While in education/academia and research, we reach fairly broad *groups* of people, i.e., small communities, in media and the cultural/creative sectors, we currently reach *individuals* via various outreach efforts. Individuals have been identified and we will work to discover ways to find more individuals like those we've identified, so we can reach more broadly into those audiences - identifying communities, if they exist, and networks to speak to broader groups. The work was reported on in more detail in the DS. Data supply and reuse report M08 (Apr 2023).

Qualitative research among decision-makers and influencers completed - we conducted one-on-one interviews to explore the backgrounds, interests, and needs of participants in the GIF IT UP and Digital Storytelling Festivals, as well as those from these backgrounds who already make use of our APIs. The work was reported on in more detail in the DS. Data supply and reuse report M08 (Apr 2023). As part of this effort, we were able to identify online platforms and tools that these participants use on a daily basis in their work. Next we will explore whether and how we can connect with decision-makers at these platforms and tools to introduce them to the items available at Europeana.eu. Thus, we consider this work ongoing. We are just beginning to investigate new audiences like tourism, and other media and creative industries outside of the research among those we're already reaching.

Task 3.3. Build awareness and engagement

Partners: EF

Under this task, EF will build awareness and engagement of the activities in and around the data space among our professional audiences. We will ensure and deliver a strategic approach to marketing and communications (Activity 3.3.1), offer event programming (Activity 3.3.2), and ensure that audiences engage with our activities (Activity 3.3.3).

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[35] Available on request.

Overview of outcomes: build awareness and engagement

Partner	Outcomes	Progress	Due date
Activity 3.3.1. Ensure strategic approach to marketing and communications			
EF	Dissemination strategies for key channels (Twitter, LinkedIn, Europeana Pro) delivered (internal)	Completed	Feb 2023
EF	Pro editorials published (e.g. Pro News and themes)	-	Ongoing
EF	Promotional activities promoted (Newsletters, Twitter, LinkedIn)	-	Ongoing
Activity 3.3.2. Develop event programming			
EF	Europeana Annual Conference organised	Completed	Sep 2022
EF	Europeana events strategy delivered (internal)	Completed	Feb 2023
EF	Learnings and recommendations from Impact Assessment implemented - Annually	Completed	Apr 2023
EF	Events programme delivered and improved (events calendar, events toolkit, etc.)	-	Ongoing
EF	Activities of the international Events Manager Group coordinated	-	Ongoing
EF	Compliance with data protection maintained[36]	-	Ongoing
Activity 3.3.3. Engage professional audiences			
EF	Requirements for a community collaboration tool defined	50%	Jun 2023
EF	Workflows for data collection in CRM reviewed	50%	Jun 2023
EF	Online training spaces for capacity building improved	-	Ongoing
EF	Platforms for professional audiences maintained (technical infrastructure, user journeys, accessibility)	-	Ongoing

Dissemination strategies for key channels (Twitter, LinkedIn, Europeana Pro) delivered (internal) - in Feb 2023 we finalised our strategies for our main dissemination/communication channels for professional audiences. These strategies include analysis from 2022 and provide plans for the next year for each. We'll report in more detail on this analysis and plans in the DS. Communication and dissemination plan M11 (Jul 2023).

Europeana events strategy delivered (internal) - this strategy is written for the first two years of the data space, with a focus on year one. It details ongoing work to further refine and improve successful processes we have introduced and implemented in the previous two years, including

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[36] According to the Regulation (EU) 2018/1725 concerning the processing of personal data by the EU institutions (IDPR)

online and hybrid activities, and an established process to validate the satisfaction of our capacity-building activities.

Learnings and recommendations from Impact Assessment implemented - Annually - this report was written to make the link visible between collected data and reported impact assessment findings and the often invisible but very important process of learning and implementing changes in event management based on these findings. Main learnings and recommendations we can see are the importance of maintaining the feedback loop with our audience. From the moment we started offering hybrid events, our reach has grown enormously, achieving consistent high levels of satisfaction and participation of both network members and wider audiences.

Reporting metrics: build awareness and engagement

No.	Description	Measured by	Frequency	Target	Jan 2023	Feb 2023	Mar 2023	Apr 2023
KPI 3.3	Satisfaction rate for Europeana Pro	Total % of 'satisfied' and 'completely satisfied' responses on a 5-point Likert scale	Annually	**75%**	-	-	-	Expected Jul 2023
RM 3.7	Traffic to Europeana Pro	Number of visits per month	Monthly	-	25,480	28,371	30,454	30,186
RM 3.8	Traffic to Knowledge Base for Aggregators	Total number of views (cumulative)	Quarterly	-	3,990	-	-	8,484
RM 3.9	Number of Europeana events	Number of events held by Europeana DS consortium, EAF, and ENA (cumulative)	Quarterly	-	19	-	-	29
RM 3.10	Reach of Europeana events	Number of participants (cumulative)	Quarterly	-	1,922	-	-	2,979
RM 3.11	Satisfaction rate for events	Total % of 'satisfied' and 'completely satisfied' responses on a 5-point Likert scale (cumulative)	Quarterly	-	79%	-	-	80%

Between Feb - Apr 2023, in total EF, EAF and ENA, organised ten events that welcomed 1,057 participants. Events organised so far in the data space Y1 had a very good cumulative satisfaction rate of 80%.

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

Partner	Name of event	Activity	Location	Date
Events organised				
EF	Built with Bits. Final ceremony and winners announcement[37]	Meeting	Online	07/02/2023
EF	Strenghten your Erasmus+ days K2[38]	Webinar	Online	14/02/2023
EF	Preservation of Digital Heritage in the data space[39]	Webinar	Online	22/02/2023
EF	Europeana Climate Online Café[40]	Café	Online	09/03/2023
EF	Copyright office hours on copyright basics[41]	Café	Online	28/03/2023
EF	Stakeholder dialogues for out of commerce works[42]	Meeting	Online	3/04/2023
EF	EAF Spring (The Hague)[43]	Meeting	Online	4-5/04/2023
EF	Swedish Presidency. (322 online - 60 in person)[44]	Hybrid	Stockholm & online	18/04/2023
EF	Copyright office hours on licenses, labels, statements and tools[45]	Café	Online	25/04/2023
CARARE	Cultural Heritage in 3D: A guided walkthrough to publishing 3D content on Europeana[46]	Webinar	Online	12/04/2023

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[37] https://pro.europeana.eu/event/built-with-bits-2-final-ceremony
[38] https://pro.europeana.eu/event/strengthen-your-erasmus-days-matchmaking-event
[39] https://pro.europeana.eu/event/preservation-of-digital-heritage-in-the-data-space
[40] https://pro.europeana.eu/event/eco-practices-for-a-green-use-of-digital
[41] https://pro.europeana.eu/event/copyright-office-hours-on-copyright-basics
[42] https://pretix.eu/Europeana-Foundation/oocw/
[43]
https://pro.europeana.eu/files/Europeana_Professional/Event_documentation/Events/Aggregator_Forum/Europeana-Aggregators-Forum-Spring-2023.pdf
[44] https://pro.europeana.eu/event/the-europeana-conference-under-the-swedish-presidency-of-the-council-of-the-eu
[45] https://pro.europeana.eu/event/copyright-office-hours-on-licenses-labels-statements-and-tools
[46] https://pro.carare.eu/en/webinars-connecting-archaeology/

Task 3.4. Develop capacity building as a service

Partners: EF, CAPG

Under this task, we will develop capacity building tools and services (Activity 3.4.1) and manage and develop mechanisms for the training programme (Activity 3.4.2).

Overview of outcomes: develop capacity building as a service

Partner	Outcomes	Progress	Due date
Activity 3.4.1. Develop capacity building tools and services			
EF	Capacity Building Working Group launched	Completed	Dec 2022
EF	Europeana Capacity Building Framework (V3) developed (internal)	Completed	Jan 2023
EF	Holistic approach to product and service design and development developed (V1)	15%	Aug 2023[47] (Jan 2023)
EF, CAPG	Motivation and engagement model for capacity building developed	Completed	Mar 2023
EF	ENA Community Impact model developed and validated	10%	Year 2[48] (Jul 2023)
EF	Europeana Impact community[49] supported	-	Ongoing
EF	Training activity/resources for EIF/ECBF developed/provided	-	Ongoing
Activity 3.4.2. Manage and develop mechanisms for the training programme			
EF, CAPG	Impact pathway for training programme developed	Completed	Feb 2023
EF, CAPG	Requirements and objectives for training programme defined	Completed	Feb 2023
EF, CAPG	Training programme (v1) developed	Completed	Apr 2023
EF, CAPG	Training programme improved and delivered	-	Ongoing
EF	Inventory of existing training (and other capacity building resources) maintained and updated	-	Ongoing

Motivation and engagement model for capacity building developed - the goal of the motivation and engagement model is to provide ways to (a) motivate people to make use of and participate in training offers by the Europeana Initiative and (b) engage in improving and/or adding to these

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[47] Outcome adjusted with EC.
[48] Outcome adjusted with EC.
[49] https://pro.europeana.eu/page/europeana-impact-community

offers. The Motivation and engagement model builds on the Requirements and Objectives of a training programme (see below). In several cases this model describes how certain requirements could be used in practice for different levels of motivation and engagement. This model is part of the Europeana Capacity Building Framework and is also closely related to the Guidelines for training delivery and development that describe the process to develop and deliver training. The model can furthermore be used to increase the use and sustainability of the training offers.

Impact pathway for training programme developed - an impact pathway was developed for users of our training services, providing a structured way to think about the impact of the training programme according to Europeana's Impact Playbook Change Pathway. This sets out key intended learning outcomes for all training, based on existing models of learning (Blooms Taxonomy; Kirkpatrick), and emphasises the need and importance of a standardised and comparable way to collect data and evaluate training, as well as to consider when impact assessment is appropriate.

Requirements and objectives for training programme defined - this document describes the objectives and requirements of existing and future training programmes offered throughout the Europeana Initiative. They are developed by Europeana Foundation (EF) and Capgemini Invent (CGI) together with the stakeholder-led Europeana Initiative's Capacity Building Working Group (CBWG). The CBWG includes members of the Europeana Network Association (ENA) and the Europeana Aggregator Forum (EAF). They provide a reference point from which we can develop or improve training offers. They are intended to be applicable to all forms of training and are developed from five perspectives; content, legal, functional, technical and ethical.

Training programme (v1) developed - the training programme V1 is an overview of all current existing and known planned and unplanned training offers by the Europeana Initiative. This includes available training resources for self paced training, resources for the delivery of training by other trainers and instructor-led training sessions. The training programme will be used to plan the development and delivery of future training resources.

Communication and dissemination activities: develop capacity building as a service

Partner	Name of event	Activity	Location	Date
EF	A Cloud for All event[50]	During the online event, organised by the European Commission, EF delivered a talk on 'Capacity building and training opportunities'.	Online	15/03/ 2023

Reporting metrics: develop capacity building as a service

No.	Description	Measured by	Frequency	Jan 2023	Feb 2023	Mar 2023	Apr 2023

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[50] https://pro.europeana.eu/event/a-cloud-for-all

RM 3.12	Reach to Europeana Impact community	Number of people reached per month (Newsletter, mailing list, LinkedIn)	Quarterly	2,612	-	-	2,718

Task 3.5. Facilitate the provision of high quality data

Partners: EF, DS AGG

The aggregation infrastructure of the data space is an essential enabler for the contribution of high quality data, together with the frameworks that govern how data is created, enriched and shared and the building of necessary capacity. EF will support data providers in making use of the infrastructure and of framework requirements through capacity building efforts, including training solutions, dynamic knowledge transfer (such as through working groups), events and knowledge repositories.

The Europeana DS consortium will manage and implement a training programme that supports the provision of high quality data. Aggregators and data partners will benefit from the training programme by receiving knowledge on the use of products and tools available in the data space for the provision of high quality data. (Activity 3.5.1)

The consortium together with EAF and ENA will also support peer to peer knowledge exchange with the aim to increase the quality of data available for reuse (Activity 3.5.2).

Overview of outcomes: facilitate the provision of high quality data

Partner	Outcomes	Progress	Due date
Activity 3.5.1. Deliver training programme for aggregators and data partners			
EF	Priorities and primary focus areas for train-the-trainer programme for the provision of high quality data identified	Completed	Mar 2023
EF, DS AGG	Roadmap for the creation of training created (internal)	Completed	Apr 2023
EF	DEN Leadership programme Cohort completed and evaluated - once annually	30%	Jun 2023
EF, DS AGG	Training for the provision and reuse of high quality data published online	-	Ongoing
EF, DS AGG	Training Events delivered	-	Ongoing
Activity 3.5.2. Support the transfer of knowledge between professionals			
EF	Approach to identifying, cataloguing and sharing professional expertise with EAF and ENA developed	Completed	Apr 2023

EF	Model for enhancing knowledge transfer of professional expertise developed (i.e. fellowships, mentoring)	15%	Jul 2023
EF	Partnership with European Students Association for Cultural Heritage (ESACH) developed	-	Ongoing
EF	Activities that promote the value of participating in training and knowledge transfer by ENA and EAF delivered	-	Ongoing
DS AGG	Activities that facilitates knowledge transfer of expertise (ie one-to-one support and helpdesk for CHIs, peer-to-peer support between aggregators) developed	-	Ongoing
EF	Activities engaging networks and communities (IIIF WG, DQ committee, ethics WG, accurate rights information) supporting the delivery of high quality data undertaken	-	Ongoing
EF, DS AGG	Knowledge transfer delivered and peer-to-peer / one-to-one support provided	-	Ongoing
EF	Europeana Communicators community[51] supported	-	Ongoing
EF	Europeana Climate Action Community supported	-	Ongoing

Priorities and primary focus areas for train-the-trainer programme for the provision of high quality data identified - this document describes the focus areas for the provision of high quality data on two levels: 1) Training aggregators need from the Europeana Foundation; 2) Training resources supplied by the Europeana Foundation and used/adapted by aggregators to offer to their data providers. A learning pathway was developed for each focus area. The learning pathway of focus area A (aggregators) describes the incremental learning process for new and existing aggregators that want to or are already offering their data for ingestion into Europeana. The topics consist of several smaller steps where training or other support is needed. Each of these topics are described in detail in terms of Bloom's Taxonomy. The learning pathway of focus area B (CHI's) describes the incremental learning process for new and existing CHI's that want to or are already offering their data for ingestion into Europeana.

Roadmap for the creation of training created (internal) - this roadmap builds on the priorities and primary focus areas for train-the-trainer programme for the provision of high quality data identified (see above). It is a planning for the development and delivery of the training resources.

Approach to identifying, cataloguing and sharing professional expertise with EAF and ENA developed - this work creates an overview of the activities that enable knowledge transfer through participation in the EI activities and beyond, such as through the Data Space for Skills. The next step is to consult with EF, ENA and EAF to where elaboration would be beneficial, and how this can be used to both evaluate and further develop models for sharing expertise.

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[51] https://pro.europeana.eu/page/europeana-communicators-group

Reporting metrics: facilitate the provision of high quality data

No.	Description	Measured by	Frequency	Target	Jan 2023	Feb 2023	Mar 2023	Apr 2023
KPI 3.4	Aggregator satisfaction with data space products and services (accredited aggregators)	Total % of 'satisfied' and 'completely satisfied' responses on a 5-point Likert scale	Annually	**75%**	-	-	-	Expected Aug 2023
KPI 3.5	CHI satisfaction with data space products and services	Total % of 'satisfied' and 'completely satisfied' responses on a 5-point Likert scale	Annually	**75%**	-	-	-	Expected Aug 2023
RM 3.13	Participants attending Europeana training	Number of participants taking part in instructor led training using Europeana training resources (including training delivered by DS AGG and EF) (cumulative)	Quarterly	-	748	-	-	882
RM 3.14	Satisfaction rate of participants undertaking training	Total % of 'satisfied' and 'completely satisfied' responses on a 5-point Likert scale (cumulative)	Quarterly	-	86%-	-	-	86%
RM 3.15	Reach to Europeana Communicators community	Number of people reached per month (Newsletter, LinkedIn, mailing list)	Quarterly	-	2,979	-	-	3,065
RM 3.16	Reach to Europeana Climate Action community	Number of people reached per month (Basecamp, mailing list)	Quarterly	-	298	-	-	372
RM 3.17	CHIs supported by DS AGG	Total number of CHIs supported by individual	Quarterly	-	71	-	-	81

		consultation (cumulative)						
RM 3.18	Coverage of CHIs supported by DS AGG	Total number of countries that received support by individual consultation (cumulative)	Quarterly	-	24	-	-	28
RM 3.19	Outreach to CHIs	Total number of new CHIs collaborating with DS AGG (cumulative)	Quarterly	-	14	-	-	22

Between Feb - Apr 2023, we organised three training sessions which saw 134 participants (on average 86% satisfaction rate).

Training organised				
EF	Social media - tips, tricks and tales from Europeana's experts[52]	Meeting	Online	21/02/2023
EF	Europeana-Ki Culture Sustainability Workshop Series - #1[53]	Meeting	Online	24/04/2023
Europeana Fashion EFHA	EFHA/TAG workshop[54]	Training Workshop	Online	25&26/04/2023

Task 3.6. Facilitate the reuse of high quality data

Partners: EF, EUN, EuroClio, F&F, DARIAH

Based on user research done over the past years, we know there are audiences who consistently use and reuse digital cultural heritage (e.g., professionals in aggregation and cultural heritage - both those who do and do not yet share data; education (primary, secondary, and tertiary) professionals; and researchers and students).

Specific efforts will be done to engage with educational communities (Activity 3.6.1.), academic and research communities (Activity 3.6.2.), as well as developer communities and API customers (Activity 3.6.3.).

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[52] https://pro.europeana.eu/event/social-media-tips-tricks-and-tales-from-europeana-s-experts
[53] https://pro.europeana.eu/event/europeana-ki-culture-sustainability-workshop-series
[54] https://pretix.eu/EFHA/AGM2023/

Overview of outcomes: facilitate the reuse of high quality data

Partner	Outcomes	Progress	Due date
Activity 3.6.1. Engage with educational communities			
EUN	English version of the updated Digital Education with Cultural Heritage MOOC launched	Completed	Feb 2023
EuroClio	'Train the trainer event' organised	Completed	Mar 2023
EF	Annual Open Education Week: contribution added	Completed	Mar 2023
EF	All Digital Week campaign: contribution added	Completed	Mar 2023
EUN	Second language version (TBD) of the updated Digital Education with Cultural Heritage MOOC launched	Completed	Apr 2023
EUN	Europeana Education competition organised	50%	May 2023
EuroClio	Historiana online self-paced course designed and piloted	80%	May 2023
EUN	EUN national trainings organised (10 trainings)	50%	Aug 2023
EuroClio	10 New learning materials and 15 new translations of existent content published on Historiana	30%	Aug 2023
EUN	New stories of implementation/use and reuse on the Teaching with Europeana blog published (500 stories)[55]	10%	Aug 2023
EF, F&F	3 Transcribathon events and 1 workshop organised per year	-	Ongoing
F&F	Transcribathon platform maintained	-	Ongoing
EF	Blogs and social media posts (LinkedIn, Facebook, Twitter) published	-	Ongoing
EF	Europeana Education community[56] supported	-	Ongoing
EF	Built with Bits 2	Completed	Feb 2023
Activity 3.6.2. Engage with academic and research communities			
EF	Research on digital cultural heritage as an emerging university subject completed	20%	Aug 2023
DARIAH	Training resources for academic and research data users published on the SSHOC Marketplace	40%	Aug 2023

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[55] Number of stories adjusted with EC (possibly lower number by Aug 2023).
[56] https://pro.europeana.eu/page/europeana-education

EF	Europeana Research community[57] and Research Advisory Board[58] supported	-	Ongoing
EF	Outreach events for academic and research communities organised	-	Ongoing
EF	Training workshop on Crowdsourcing	Completed	Feb 2023
EF	Capacity building on AI tools	70%	May 2023
EF, DARIAH	DARIAH annual event: representation of the cultural heritage sector in programme committee	40%	Jun 2023
EF	Liaison with other academic research and cultural communities developed and maintained (LIBER, GLAMLabs)	-	Ongoing
Activity 3.6.3. Engage with the developer communities and API customers			
EF	Capacity building resources for API users developed	60%	Aug 2023
EF	API documentation maintained and updated	70%	Aug 2023
EF	New business relationships to foster reuse of Europeana APIs created	-	Ongoing
EF	New integrations or updated integrations or reuse projects in collaboration with developers or creatives promoted through Europeana Pro and/or EF social media	-	Ongoing
EF	Europeana API services and capacity building resources presented at relevant CH events	-	Ongoing
EF	Changes/improvements of Europeana API services communicated to reusers	-	Ongoing
EF	FAQs, tutorials, and example API calls created and maintained in line with new API iterations	-	Ongoing

English version of the updated Digital Education with Cultural Heritage MOOC launched[59] - in Feb 2023 we launched the new update of the course in English. This year, the MOOC includes upgraded and updated content. With a focus on promoting more interactive use of audiovisual content in education through crowdsourcing platforms like Subtitle-a-thon[60] and Subbit[61], it also explored how to integrate the Europeana APIs in learning projects and shares practical examples from the recent Low-Code Fest[62]. 969 people from 68 countries registered to take part in the MOOC, 605

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[57] https://pro.europeana.eu/page/europeana-research
[58] https://pro.europeana.eu/page/research-advisory-board
[59] https://pro.europeana.eu/post/register-now-for-the-upgraded-digital-education-with-cultural-heritage-2023-mooc
[60] https://subtitleathon.eu/
[61] https://subbit.eu/
[62] https://pro.europeana.eu/page/europeana-low-code-fest-2022

people participated in the MOOC and 222 participants completed the MOOC, meaning they designed a learning scenario peer-reviewed by colleagues and passed successfully all the quizzes and modules, getting a certificate. All 97% rated the overall value of the course as "Good" or "Very good".

'Train the trainer event' organised[63] - EuroClio launched the cross-sectoral networking and train the trainer event in The Hague on 3 and 4 Mar 2023. The event brought together three practising teachers (from Finland, Malta and Greece) and seven cultural heritage professionals (from Italy, Latvia, Lithuania, Serbia, Spain and Greece), to discuss the potential of digitised collections and their use in the classroom. An article about the main results and achievements of this event has been written by Vassiliki Yiannou, Greek language and History teacher, participant of the event[64].

Annual Open Education Week: contribution added - EF contributed to the worldwide campaign with four educational resources produced with partners to increase awareness and outreach of data space services and products as well as outcomes from data space supporting projects: the Digital Education with Cultural Heritage 2023[65], the Open GLAM & education research report[66], the State of the Field Report on Media Literacy supported by AV collections[67], and Subbit! The subtitling platform[68].

All Digital Week campaign: contribution added - on 27 Apr 2023 and during the campaign, EF with NEMO organised the webinar '*Digital Learning and Education in Museums: How innovative approaches contribute to the future of digital engagement*[69]'. In this event, Kristina Barekyan, the main author of the '*Digital Learning and Education in Museums: innovative approaches and insight*s[70]' (that includes a dedicated chapter to Europeana Education), invited four of the experts interviewed for the report to discuss the opportunities and challenges of working on the cutting edge of technology, digital cultural heritage and museum education. 130+ people attended the event.

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[63] https://euroclio.eu/event/bringing-digitised-heritage-closer-to-the-classroom/
[64] https://euroclio.eu/2023/05/11/bringing-digitised-heritage-closer-to-the-classroom/
[65]
https://oeweek.oeglobal.org/resources/2023/digital-education-with-cultural-heritage-2023-this-year-also-in-romanian/
[66]
https://oeweek.oeglobal.org/resources/2023/open-glam-education-teachers-and-educators-perspective-on-digital-resources/
[67] https://oeweek.oeglobal.org/resources/2023/state-of-the-field-report-on-media-literacy-supported-by-av-collections/
[68] https://oeweek.oeglobal.org/resources/2023/subbit-the-supersonic-subtitling-platform/
[69]
https://alldigitalweeks.eu/event/conference-digital-learning-and-education-in-museums-how-innovative-approaches-contribute-to-the-future-of-digital-engagement/
[70]
https://www.ne-mo.org/fileadmin/Dateien/public/Publications/NEMO_Working_Group_LEM_Report_Digital_Learning_and_Education_in_Museums_12.2022.pdf

Second language version (TBD) of the updated Digital Education with Cultural Heritage MOOC launched[71] - This year, and for the first time, the course is being offered in Romanian. The MOOC started on 24 April and will finalise on 7 June.

Built with Bits 2[72] - Built with Bits, a Europeana Initiative mentoring programme and educational challenge which contributes to the New European Bauhaus movement by inviting students and educators to design spaces with Mozilla Hubs, had its second edition in 2022. In the context of the New European Bauhaus Festival, we celebrated a kick-off in Jun 2022 with more than 40 international participants who contributed 20 different proposals (ideas on how to solve a local issue based on the New European Bauhaus values).[73] From Oct until Dec 2022, the selected projects and teams composed of 19 educators and 262 students, and external collaborators like UX designers, engaged in a mentoring programme to develop their projects in Mozilla Hubs using Europeana content. On 7 Feb 2023, we celebrated the Final Ceremony with more than 100 participants among them the students who developed the spaces.[74] Three blogs were published in Apr 2023 showing the results of the Built with Bits 2 programme[75].

Training resources for academic and research data users published on the SSHOC Marketplace (intermediate update) - EF and DARIAH made significant steps forward in view of the design and publication of the *Collections as Data* workflow on the SSH Open Marketplace by August 2023. The workflow aims to foster the implementation and use of collections as data in the European data space for cultural heritage, as a more substantial way to meet the needs in academia and research when it comes to the reuse of digital cultural heritage. Since this approach requires a shift from the item level to the dataset level, EF launched a consultation with the Europeana Research Community (and beyond) to understand behaviours and needs of academics, researchers and university students that experiment with datasets.[76] Also, in collaboration with the GLAM LABs International Community, EF and DARIAH representatives contributed to the definition of *A checklist to publish Collections as Data in GLAM institutions*.[77] Finally, representatives from EF, DARIAH, and ENA took part in *Paths to Participation - Collections as Data: State of the Field and Future Directions*, a two-day workshop with sixty practitioners and researchers from all over the world, organised with the Collections as Data project with the support of The Andrew W. Mellon Foundation.[78]

Training workshop on Crowdsourcing[79] - the Europeana Research Community started experimenting with a new format for capacity building activities. An expert on a given topic gives

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[71]

https://www.europeanschoolnetacademy.eu/courses/course-v1:Europeana+Culture_RO+2023/about?fbclid=IwAR1P5KlFzkOpebhurUPgoqfcM-4taol60cpNep0GH8XS1EckRJnG5GfDJIg

[72] https://pro.europeana.eu/page/built-with-bits-designing-virtual-spaces-for-the-future#2022

[73] https://www.youtube.com/watch?v=idzXMndFwI4

[74] https://www.youtube.com/watch?v=9kAA1DFHkjk&t=3194s

[75] https://pro.europeana.eu/post/nine-things-you-need-to-know-about-immersive-technologies-for-education-part-iii

[76] https://pro.europeana.eu/post/what-is-a-dataset-share-your-thoughts

[77] https://arxiv.org/abs/2304.02603

[78] https://collectionsasdata.github.io/part2whole/iac/

[79] https://pro.europeana.eu/event/planning-crowdsourcing-projects-in-cultural-heritage

a lecture open to everyone and a workshop limited to a predefined number of community members. The choice of this format depends on the fact that workshops (with a limited number of participants) offer a different learning setting. The first event with this format - *Planning Crowdsourcing Projects in Cultural Heritage* - took place on 24 Feb 2023 and was proposed as a conclusion of the last cycle of Europeana research grants, promoting its outcomes relating to Crowdsourcing and Research. The invited instructor was Dr Mia Ridge, digital curator at the British Library and project leader of *The Collective Wisdom Handbook. Perspectives on Crowdsourcing in Cultural Heritage* (2021).[80] Lecture attendees had an overview on the current state of crowdsourcing in cultural heritage. Workshop participants (16) gained an understanding of the planning and actions required before, during and after a crowdsourcing project; priority was given to the community members who had planned or intended to develop a crowdsourcing project in collaboration with academics, researchers and/ or university students.

Communication and dissemination activities (external)

Partner	Name of event	Activity (organiser/speaker)	Location	Date
EF	A Cloud for All[81]	EF delivered a talk on 'Building a community of practice for and with the users: expectations and challenges'.	Online	15/03/2023
EF	Strengthen your Erasmus+ Days - Matchmaking event[82]	EF organised the event aimed to bring together creative minds and innovative ideas from the GLAM and education sector to develop a project with digital cultural heritage	Online	14/03/2023
European Training Foundation	Webinar on Digital Educational content[83]	EF offered a presentation about our work in education in the DIGI-ENE Initiative Developing and Sharing Excellence on digitalisation of teaching and learning	Online	16/03/2023
Universitat ea Politehnica Timișoara	Conferința este parte a Programului Cultural Timișoara Capitală Europeană a Culturii și a Opening Timișoara 2023[84]	EF offered a presentation about our work in education and participated in a panel during the conference. The conference was part of the Cultural Program Timișoara European Capital of Culture and Opening Timișoara 2023 and brought a diverse category of international speakers from the area of heritage and digital culture to discuss innovative teaching and learning.	Timisoar a	17/03/2023

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[80] https://britishlibrary.pubpub.org/
[81] https://pro.europeana.eu/event/a-cloud-for-all
[82] https://pro.europeana.eu/event/strengthen-your-erasmus-days-matchmaking-event
[83] https://www.etf.europa.eu/en/news-and-events/events/etf-network-excellence-digi-ene-initiative-developing-and-sharing-excellence
[84] https://spotlight-timisoara.eu/eveniment/digital-culture-heritage-talks/?fbclid=IwAR1jjZWmuVhAQrz40RtqnkYqknJwytmiZUJJNlOLDEfUu8maj3Fgn5kIPMA

EF/ DARIAH/ ENA	Paths to Participation. Collections as Data: State of the Field and Future Directions[85]	EF, DARIAH and ENA representatives contributed to a workshop organised by the Collections as Data project, aiming to assess the state od the field.	Vancouver	25-26/ 04/ 2023

Reporting metrics: facilitate the reuse of high quality data

No.	Description	Measured by	Frequency	Target	Jan 2023	Feb 2023	Mar 2023	Apr 2023
KPI 3.6	Educators reached in national training events [86]	Total number of educators (cumulative)	Bi-annually	TBC[87]	-	-	1,638	-
KPI 3.7	Satisfaction rate of educational communities	Total % of 'satisfied' and 'completely satisfied' responses on a 5-point Likert scale (cumulative)	Quarterly	75%	-	-	-	76%
KPI 3.8	API users (external)	Total number of (external) API users per month	Monthly	175	140	169	182	165
RM 3.20	New learning resources for education	Total number of new resources using Europeana data (cumulative)	Quarterly	-	16	-	-	69
RM 3.21	Language variations of existing learning resources	Total number of new translations of learning resources (cumulative)	Bi-annually	-	16	-	20	-
RM 3.22	Participants completing the online courses[88]	Total number of participants (cumulative)	Bi-annually	-	-	-	-	222

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[85] https://collectionsasdata.github.io/part2whole/iac/
[86] Y1 includes educators reached by EUN training; Y2 will include both educational partners (EUN and EuroClio). Euroclio will first build capacity in Y1 by training the trainers to enable trainers to reach educators through national training in Y2.
[87] EF will use the first measurements to identify targets.
[88] Y1 will include participants completing the online courses (MOOCs) organised by EUN. In Y2 this metric will also count participants of the Historiana online course done by EuroClio.

RM	Indicator	Description	Frequency					
RM 3.23	Traffic to educational platforms (TwE blog and Historiana)	Number of visits to educational resources (cumulative)	Bi-annually	-	-	-	78,560	-
RM 3.24	Reach to Europeana Education community	Number of people reached per month (mailing list, LinkedIn, Facebook)	Quarterly	-	10,640	-	-	11,001
RM 3.25	Outreach events to academic and research communities organised	Total number of events delivered (cumulative)	Quarterly	-	2	-	-	3
RM 3.26	Reach to Europeana Research community	Number of people reached per month (Discussion list, Twitter)	Quarterly	-	7,084	-	-	7,085
RM 3.27	API usage (REST API)	Total number of requests per month (external traffic)	Monthly	-	13.3 million	24.2 million	26.8 million	17.9 million
RM 3.28	API sign-ups (REST API)	Number of API sign-ups per month (cumulative)	Quarterly	-	280	-	-	504

Work package 4: Digital services for the public

Experience from Europeana DSI-4 shows that the primary audiences for the data space are overwhelmingly cultural heritage professionals, and, even more successfully, educators, researchers, and students. The foundation for the data space for cultural heritage is the well-established Europeana website. Specific attention going forward will be given to how EF can better serve current audiences and position the data space as an attractive option to new audiences (media, tourism, cultural/creative industries). This will involve continued optimisation (and communication) of existing functionalities and exploring additional features, with input and feedback from audiences, and determining where to focus our efforts (Task 4.1).

The consortium will also engage audiences with digital cultural heritage by expanding pan-European themes and perspectives, inspiring use, reuse, and participation, and communicating activities to audiences (Task 4.2).

Task 4.1. Deliver high-performing Europeana website

Partners: EF

Europeana.eu offers pan-European content to anyone with an interest in cultural heritage. We will ensure the website is easy to access, functions well on all devices, and is ready to take advantage of 5G infrastructure as it continues to expand across Europe. (Activity 4.1.1.)

EF aims to turn new visitors into returning visitors by improving the findability of content (Activity 4.1.2. - 4.1.4., Activity 4.1.6.), by extending user participation features (Activity 4.1.5) and optimising the user feedback mechanism (Activity 4.1.7).

The majority of visitors come to the website to search - EF will continue to improve our search accuracy by adjusting our algorithm, extending our filters, and expanding multilingual coverage of our content.

To encourage use and reuse of materials visitors can find on the website, EF will introduce new and extend existing participation features, and invest in communication mechanisms to regularly remind people of what they can find and reuse on the website.

Overview of outcomes: deliver high-performing Europeana website

Partner	Outcomes	Progress	Due date
Activity 4.1.1. Optimise the responsiveness of the website			
EF	Website look good on every screen (including mobile)	80%	Jun 2023
EF	Website is fully responsive and 5G-ready (implementation)	-	Ongoing

Activity 4.1.2. Optimise search experience, prioritising relevance and data quality			
EF	Tuning the weight of different fields in ranking (M-F8) (two iterations deployed)	Completed	Mar 2023
EF	Item-page level search within transcriptions	Completed	Mar 2023
EF	Re-activating advanced search (filters) (M-F14)	50%	May 2023
EF	Search within subtitles (FT-F5)	Not started	Jun 2023
EF	Reinstating search logs and associated evaluation metrics (EVAL-5, EVAL-6, EVAL-7)	20%	Aug 2023
EF	Search relevance and performance maintained	-	Ongoing
Activity 4.1.3. Optimise browse experience to improve content discovery			
EF	Place entities exist on the website	Completed	Dec 2022
EF	Design of the Theme pages expanded	Completed	Dec 2022
EF	Tooltips introduced	40%	May 2023
Activity 4.1.4. Expand multilingual coverage to include all EU official languages			
EF	Refine our approach for prioritising translations of editorial pieces and share with EC for discussion	Completed	Dec 2022
EF	Approach(es) and workflow(s) for the validation of website translations in operation	Completed	Dec 2022
EF	Further evaluation and integration with the eTranslation service completed[89]	15%	Aug 2023
EF	Multilingual search infrastructure expanded with search results translation (in the context of the Spanish pilot)	20%	Aug 2023
EF	ENA/EAF engaged to support validation of static translations on europeana.eu	-	Ongoing
EF	Multilingual coverage of editorial content increased	-	Ongoing
EF	Maintain user interface translations in supported languages	-	Ongoing
EF	Help pages available in all 24 EU languages	60%	May 2023
EF	For Developers page available in all 24 EU languages	10%	Aug 2023
Activity 4.1.5. Extend user participation features			

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[89] Dependencies with the Europeana Translate project delay the planned actions for working with the eTranslation service. EF will report on progress and challenges by Aug 2023 and will continue to work on this outcome in Y2.

EF	Compliance with data protection maintained[90]	-	Ongoing
Activity 4.1.6. Optimise user interaction and display of content			
No outcomes are planned to be completed in Y1.			
Activity 4.1.7. Optimise user feedback mechanism			
EF	Precise and informative error messages for broken links available	Completed	Nov 2022
EF	FAQ for people using the website available in 24 EU languages	Completed	Dec 2022
EF	Current feedback mechanism is consolidated and extended to other data space's products	5%	Aug 2023

Tuning the weight of different fields in ranking (M-F8) (two iterations deployed) - we completed the first iteration of this outcome by trying out how three different field weights affect the search results ranking for various terms. We tested these using an online preference test with our research user group[91] and newsletter subscribers[92]. Ninety-six people responded, and most preferred the search results where the search term appears in the item title. We will activate the new field weight tuning, giving the title more weight than the other fields, at the end of May 2023. We want it to coincide with the release of the advanced search feature to offer existing users who are used to the current search results ranking an option to see the results in the current ranking. The next iteration of this outcome is planned to be deployed in Feb 2024 (as specified in the tender).

Item-page level search within transcriptions - all text transcriptions of media resources can be displayed in the IIIF media viewer 'Mirador' next to the media resource. Users can search for terms in these transcriptions when on the item page. All the work for this outcome is completed. We are just waiting for the EuropeanaEnrich project[93] partners to update the transcriptions to use the IIIF data structure so they are compatible with the viewer. As soon as this work is done, the transcriptions which we currently display in the metadata will be visible and searchable in the IIIF viewer.

Further evaluation and integration with the eTranslation service completed (intermediate update, blog translation with eTranslation) - in Apr 2023, we used eTranslation to offer the blog post *Melitta Bentz - the woman who invented the coffee filter*[94] in ten different languages (Bulgarian, Dutch, French, German, Greek, Polish, Portuguese, Romanian, Spanish, and English). The translations offered by eTranslation were validated and corrected by native speakers internally before publication. The main issues observed were vocabulary mismatch (brewing beer vs coffee),

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[90] According to the Regulation (EU) 2018/1725 concerning the processing of personal data by the EU institutions (IDPR).
[91] https://app.usabilityhub.com/tests/e799589f6359/results/ccb698b72095
[92] https://app.usabilityhub.com/tests/4117bc388b42/results/2dd83fb973e9
[93] https://pro.europeana.eu/project/enricheuropeana
[94] https://www.europeana.eu/en/blog/melitta-bentz-the-woman-who-invented-the-coffee-filter

genre, adjectives related to the concept of flavour, declension (in Polish), and legal/technical terms.

Reporting metrics: deliver high-performing Europeana website

No.	Description	Measured by	Frequency	Target	Jan 2023	Feb 2023	Mar 2023	Apr 2023
KPI 4.1	Traffic to the website	Number of visits per year (cumulative)	Monthly	**6.5 million**	2,212,190	2,693,447	3,229,525	3,755,441
KPI 4.2	User satisfaction rate with Europeana website	Total % of 'satisfied' and 'completely satisfied' responses on a 5-point Likert scale	Bi-annually	**75%**	74.4%	-	-	Expected Jun 2023
RM 4.1	Multilingual coverage of editorial content	Percentage of stories (blogs and exhibitions) published in more than one language during contract year	Annually	-	-	-	-	Expected Aug 2023
RM 4.2	Multilingual coverage of editorial content	Percentage of stories (blogs and exhibitions) published in all 24 EU languages during contract year	Annually	-	-	-	-	Expected Aug 2023
RM 4.3	User participation: accounts	Number of account holders (cumulative)	Quarterly	-	21,645	-	-	24,170
RM 4.4	User participation: accounts	Number of items liked by users (cumulative)	Quarterly	-	24,849	-	-	27,985
RM 4.5	User participation: galleries	Number of user-created galleries (cumulative)	Quarterly	-	5,823	-	-	6,559

RM 4.6	Downloads on the Europeana website	Total number of downloads (cumulative)	Quarterly	-	68,856	-	-	114,486
RM 4.7	Average of initial response time to user feedback	Number of hours	Quarterly	-	-	-	-	10.5
RM 4.8	Average of total resolution time to user feedback (excl. user feedback where the responsibility lies outside of Europeana DS consortium)	Number of hours	Quarterly	-	-	-	-	19.1

This period, we completed the setup for the reporting metrics related to user feedback. We see that in Apr 2023, for example, we had an average of initial response time to user feedback of 10.5 hours and an average of total resolution time to user feedback (excl. user feedback where the responsibility lies outside of Europeana DS consortium) of 19.1 hours. In Apr 2023, for example, we received 52 feedback requests via Europeana.eu of which 51 were solved.

Task 4.2. Engage audiences with digital cultural heritage

Partners: EF, DS AGG

Under this task, EF will expand digital opportunities for the public by driving participation with cultural heritage (Activity 4.2.1) in and around the data space. EF will work with consortium members, cultural heritage institutions and other partners to produce impactful content on pan-European themes and perspectives (Activity 4.2.2). EF will promote engaging, high-quality cultural heritage and editorial content on the Europeana website, via its social media channels, newsletters and on external platforms (Activity 4.2.3).

Overview of outcomes: engage audiences with digital cultural heritage

Partner	Outcomes	Progress	Due date
Activity 4.2.1. Drive participation with cultural heritage			

EF	GIF IT UP organised	Completed	Oct 2022
EF	Digital Storytelling Festival organised	70%	Jun 2023
EF	Europeana website (incl. account functionality, user-created galleries) promoted	-	Ongoing
EF	High-quality open access data promoted, including 3D	-	Ongoing
EF	World Festival of Cultural Diversity	70%	May 20230
Activity 4.2.2. Broaden impact of cultural heritage by expanding pan-European themes and perspectives			
EF, DS AGG	Editorial content (exhibitions, blogs, and galleries)[95] published and promoted	-	Ongoing
EF	Collaborations with European Union initiatives sharing cultural heritage promoted	-	Ongoing
Activity 4.2.3. Communicate the data space for cultural heritage activities			
EF	Newsletter and social media posts (Facebook, Twitter, Instagram, Medium, Pinterest) published[96]	-	Ongoing
EF	Compliance with data protection maintained	-	Ongoing

Communication and dissemination activities: engage audiences with digital cultural heritage

Partner	Name of event	Activity	Location	Date
EF	MozFest[97]	'Everyone's a storyteller' workshop as part of MozFest's Youth Zone	Online	21/03/2023

Reporting metrics: engage audiences with digital cultural heritage

No.	Description	Measured by	Frequency	Target	Jan 2023	Feb 2023	Mar 2023	Apr 2023
KPI 4.3	Audience satisfaction with editorial (exhibitions, blogs)	Total % of 'satisfied' and 'completely satisfied' responses on 5-point Likert scale (cumulative)	Quarterly	**80%**	76.6%	-	-	82%
KPI 4.4	Social media reach	Total number of impressions on social media	Monthly	**425 million**	175.3 million	204.4 million	236.0 million	275.3 million

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[95] Editorials from data space supporting projects contribute to this outcome.
[96] Editorials from data space supporting projects are promoted.
[97] https://schedule.mozillafestival.org/session/XRMQ7J-1

		(Facebook, Pinterest, GIPHY, Instagram, Twitter, Medium, LinkedIn) (cumulative)						
RM 4.9	Participation in Digital Storytelling Festival	Number of registered participants for Digital Storytelling Festival events	Annually	-	-	-	-	Expected Jul 2023
RM 4.10	Participation in GIF IT UP	Total number of submitted GIFs	Annually	-	-	-	-	-
RM 4.11	Traffic to exhibitions and blogs	Number of visits to all exhibitions and blogs (cumulative)	Quarterly	-	497,578	-	-	851,496
RM 4.12	Social media engagement	Total number of likes, shares, comments per month (Facebook, Twitter, Pinterest, Instagram, Medium, LinkedIn)	Monthly	-	213,523	190,525	221,489	217,012

Work package 5: Programme management

EF will provide high-quality programme management of the data space for cultural heritage, including continuous progress monitoring and reporting (task 5.1). We will work closely with the European Commission, the Commission Expert Group on the Common European Data Space for Cultural Heritage (CEDCHE) and its subgroups to review activities and developments of the data space for cultural heritage (task 5.2.).

We will coordinate the relations with the projects funded under the Digital Europe, Horizon 2020 and Horizon Europe programmes and ensure the smooth integration of their results into the data space for cultural heritage (task 5.3.).

Finally, EF will support phasing-out and transfer processes to a successor contractor if a contract takeover is required (task 5.4.).

Task 5.1. Ensure continuous progress monitoring and reporting

Partners: EF

Under this task, EF will manage and coordinate the programme as described in the tender and in the work package sections of this implementation plan. [Annex: Progress on deliverables](#) provides an overview of completed and upcoming deliverables.

Major changes in staff
No changes for M06 - M08.

Risk management
Risk management is an essential part of the data space programme management. EF has a risk management approach in place for managing risks throughout the contract that nominates relevant people responsible[98]. [Annex: Risk log](#) includes an assessment of risks with risk responses and other relevant details. The Risk log will be updated periodically and an updated version will be provided to the EC via the PM. Periodic reports and/or ad hoc via direct communication (for example, via email, if needed).

Balance of efforts
The table below provides an overview over the balance of efforts for Y1 (Sep 2022 - Apr 2023) of the data space for cultural heritage. It states the foreseen and actual percentages of resources allocated to each of the five work packages and its related tasks.

Work packages & tasks	Foreseen % of the full contract value	Actual Apr 2023
WP 1: Development and operation of the data space infrastructure	**25.4%**	**24.4%**
Task 1.1 Provide reliable data space infrastructure and quality of services	22.7%	21.8%
Task 1.2 Foster innovation, interoperability & compliance with other data spaces	2.7%	2.6%
WP 2: Integration of high-quality data	**17.8%**	**19.6%**
Task 2.1 Develop and manage data governance mechanisms	3.6%	4.4%
Task 2.2 Data acquisition and data improvements	10.9%	11.6%
Task 2.3 Automated approaches towards data quality	3.3%	3.6%
WP 3: Capacity building and fostering reuse	**30.6%**	**31.3%**
Task 3.1 Enhance cooperation throughout the Data Space	4.4%	5.4%

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[98] A RACI (Responsible, Accountable, Consulted, Informed) approach will be used for this purpose.

Task 3.2 Identify needs of user groups	1.7%	1.3%
Task 3.3 Build awareness and engagement	6.9%	7.0%
Task 3.4 Develop capacity building as a service	3.9%	3.8%
Task 3.5 Facilitate the provision of high quality data	4.4%	4.9%
Task 3.6 Facilitating the reuse of high quality data	9.3%	8.9%
WP 4: Digital services for the public	**18.7%**	**18.2%**
Task 4.1 Deliver high-performing Europeana websites	11.8%	10.4%
Task 4.2 Engage audiences with digital cultural heritage	6.9%	7.8%
WP 5: Programme management	**7.5%**	**6.5%**
Task 5.1 Ensure continuous progress monitoring and reporting	6.0%	5.5%
Task 5.2 Governance	0.6%	0.4%
Task 5.3 Manage relations with other EU-funded projects	0.7%	0.6%
Task 5.4 Phasing-in and phasing-out periods	0.2%	0.05%
TOTAL	**100%**	**100%**

Task 5.2. Governance

Partners: EF

Under this task, EF will report regularly to the European Commission and, by invitation, to the Commission Expert Group on the Common European Data Space for Cultural Heritage (CEDCHE) on the status of the data space activities and developments, risks and performance indicators.

The Commission and EF will meet monthly in Operational Management Board (OMB) meetings to review and discuss deliverables, operational matters, contractual matters, coordination and other implementation aspects.

The 9th meeting of the CEDCHE was held on 23 March 2023 in Brussels. EF delivered a presentation on the common European data space for cultural heritage.

Task 5.3. Manage relations with other EU-funded projects

Partners: EF

EF maintains regular contact with the funded Europeana Generic Services (GS) and projects supporting the data space (e.g. via Basecamp groups) and assist them with ingestion of content

and metadata (if applicable), consultation on the Europeana frameworks, policy and development guidelines, tool integration into the data space and dissemination of the project results. The table below shows the progress against Annex 4 of PM. Implementation plan M1 of all project outcomes that contribute to the data space for cultural heritage in Y1 (Sep 2022 - Aug 2023).

During this period six EU projects concluded:
1. SGoaB[99] project funded under CEF Telecom Call - Public Open Data (CEF-TC-2018-5)[100] concluded on 28 February 2023 and had its validation meeting on 20 April 2023. The project addressed the challenges of endowing AI with insights into culture, symbols and traditions. The main motivation for this project was to understand the European past and approach the future by leveraging AI technologies to create rich metadata descriptions and contextualisation of objects, images and symbols. In particular, the project focused on paintings of the XII-XVIII centuries (especially iconography).
2. J-ARK[101] project funded under CEF Telecom Call - eArchiving (CEF-TC-2020-2)[102] concluded on 28 February 2023. The project customised RODA for the creation of a long-term digital preservation service[103] dedicated to Jewish cultural heritage materials. The preservation service was integrated into Europeana Thematic Aggregator Jewish Heritage Network[104]. The tool was tailored to support EDM to be able to easily aggregate content to Europeana. Additionally, it was designed to offer machine translation services previously used on CEF telecom funded projects Europeana XX[105] and Europeana Translate[106]. Finally, the project hosted a final online event which drew significant interest from the digital heritage and preservation community from SMEs, European Commission, to eArchiving DSI and Europeana Initiative among others. The event was framed in the wider context of data spaces and preservation.
3. InDICEs[107] project funded under Horizon 2020 call (DT-GOVERNANCE-13-2018-2020)[108] - concluded on 31 March 2023 and it will have its validation meeting on 20 June 2023. The project produced a participatory platform and open observatory,[109] which hosts the project outcomes including documents, datasets, and a visual analytics dashboard. The main research outcomes from the project related to participatory modes of the production and consumption of digital cultural heritage and its impact, through the lens of

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99 https://pro.europeana.eu/project/saint-george-on-a-bike
100 https://wayback.archive-it.org/12090/20221207193849/https://ec.europa.eu/inea/en/connecting-europe-facility/cef-telecom/apply-funding/2018-cef-telecom-call-public-open-data
101 https://pro.europeana.eu/project/j-ark-european-jewish-community-archive
102 https://wayback.archive-it.org/12090/20221207210305/https://ec.europa.eu/inea/en/connecting-europe-facility/cef-telecom/apply-funding/2020-earchiving
103 https://archive.j-ark.org/.
104 https://pro.europeana.eu/organisation/jewish-heritage-network
105 https://pro.europeana.eu/project/europeana-xx
106 https://pro.europeana.eu/project/europeana-translate
107 https://pro.europeana.eu/project/indices
108 https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/dt-governance-13-2019
109 https://participate.indices-culture.eu/

Pier Luigi Sacco's Culture 3.0 model.[110] For the audience of cultural heritage professionals these research outcomes took the shape of practical copyright advice, digitisation guides, impact models, and a self assessment tool. A version of this self assessment tool (the ENUMERATE self assessment tool) is in development between project partners Platoniq and Europeana Foundation and will be used to gather data from cultural heritage organisations in the coming years, replacing the ENUMERATE survey which took place previously. In addition to gathering data on digital cultural heritage in the field, the tool also offers useful insights into various topics and will help organisations and professionals with finding relevant resources and with benchmarking their progress in particular areas. A previous version of the tool was used as a survey tool for ENUMERATE in 2022.[111]

4. EnrichEuropeana+[112] project funded under CEF Telecom call - Europeana (CEF-TC-2022-1) [113] concluded on 31 March 2023 and it will have its validation meeting in June 2023. The project enhanced the Transcribathon platform[114] with AI solutions such as integration of handwritten text recognition technologies and automatic generation of transcriptions and semantic enrichments. The platform is now connected with Europeana.eu via a Call to Action on specific items page (e.g copyright restricted content is not possible) and Europeana single sign-on, making it easy to navigate across platforms. The project aggregated more than 100,000 new high-quality records and more than 25,000 records were enriched. It created more than 15 editorials on Europeana Pro and Europeana.eu as well as three Transcribathon events and five capacity building events.

5. Europeana Translate project funded under CEF Telecom call - eTranslation (CEF-TC-2022-1) [115] concluded on 31 March 2023 and it will have its validation meeting during June 2023. The project developed a sustainable translation pipeline using eTranslation services and machine translation engines. The project is enriching more than 25 million translated metadata records in 24 European languages. Additionally, it delivered to ELRC-SHARE 10 million metadata records from Europeana sourced using Europeana's API.

During this period, the AI4Europeana project, one of the four new data space supporting projects that will contribute to the data space for cultural heritage, had its kick-off meeting. EF joined and worked closely with partners on the activity planning and finding synergies for achieving the project goals.

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[110] https://www.mdpi.com/2071-1050/10/11/3923
[111] https://pro.europeana.eu/post/the-enumerate-self-assessment-tool-gain-insight-into-your-institution-s-digital-transformation
[112] https://pro.europeana.eu/project/enricheuropeana
[113] https://ec.europa.eu/inea/sites/default/files/cefpub/2020-1_europeana_call_text.pdf
[114] https://pro.europeana.eu/page/transcribathon
[115] https://ec.europa.eu/inea/sites/default/files/cefpub/2020-1_europeana_call_text.pdf

Overview of progress: Projects against Annex 4 (project start - end of the current reporting period)

Note that this table only reports on actions/outcomes/milestones of the projects funded within Y1 of the data space for cultural heritage contract (as outlined in Annex 4 of PM. Implementation plan M1). The table will be updated once the final grant agreements of the newly funded projects are ready and signed.

Supporting Europeana Generic Services (CEF-TC-2020-1) call[116]						
Partner	**Outcomes**	**DSI contribution**	**Due Date**	**Progress**	**Status**	**Comments**
Europeana Subtitled[117]						
GS	6,000 AV records	Task 2.2 Data acquisition and data improvements	Nov 22 [118]	100%		8,018 AV content in Tier2+ and metadata Tier B. 12,134 records updated.
GS	3 Crowdsourced/correction campaigns (edit-a-thons)	Task 3.6. Facilitate the reuse of high quality data	Nov 22	100%	Done	6 correction events held.
GS	Subtitle-a-thons campaign	Task 3.6. Facilitate the reuse of high quality data	Nov 22	100%	Done	
GS	Submission of the results of the campaigns to Europeana CSP (subtitles and captions available)	Task 2.2 Data acquisition and data improvements	Nov 22	100%	Done	36,571 closed captions/subtitles and 18,288 records enriched[119]
DS	Differentiation of subtitle/caption enrichments on the display at Europeana.eu	Task 3.6 Facilitate the reuse of high quality data	Nov 22	100%	Done	Implemented on Europeana media player[120]

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[116] All projects funded under (CEF-TC-2020-1) call end after the end of the reporting period DSI-4 Y4.
[117] https://pro.europeana.eu/project/europeana-subtitled
[118] The original deadline was May 22 but it was extended by project partners to November 22 to meet all requirements. The new deadline is within the project scope.
[119] This outcome was pending due to the extra feature needed on Europeana media player. Now closed captions and subtitles are available online.
[120] Example aumatic generated new feature on Europeana

GS	Online training suite and materials	Task 3.4 Develop capacity building as a service	Sep 22	100%	Done	Available on Europeana Pro and Subbit website[121].
GS	3 capacity building events	Task 3.4 Develop capacity building as a service	Nov 22	100%	Done	
GS	2 project entries on Europeana Pro.	Task 3.3 Build awareness and engagement	Nov 22	100%	Done	8 project entries available on Europeana Pro.
GS	24 editorials on Europeana.eu (incl. exhibition)	Task 4.2 Engage audiences with cultural heritage	Nov 22	100%	Done	30 editorials[122] available on Euroepana.eu
GS	Learning scenario and lessons plans created and available on Europeana classroom	Task 3.6. Facilitate the reuse of high quality data	Nov 22	100%	Done	The learning scenario for CLIL[123] is available on the Teaching with Europeana blog and in the Europeana Classroom as case study for CLIL[124]
Jewish History Tour[125][126]						
GS	30,000 new records with enrichments (incl. 5,000 newly digitised records in Tier4) available on Europeana.eu	Task 2.2 Data acquisition and data improvements	Jun 23*	20%	Ongoing	A total of 8,799 records with enrichments have been published in Tier 2A+. (7,385 are new records and 1,414 are newly digitised records in Tier 4). Some of the enrichments are translation and geo-enrichments. For four sets, we are waiting for confirmation

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[121] https://subbit.eu/how-it-works/
[122] 30 editorials incl. 16 blogs, 12 galleries, 1 feature page and 1 exhibition.
[123] https://teachwitheuropeana.eun.org/learning-scenarios/subtitle-it-ls-it-645/
[124] https://www.europeana.eu/en/learning-content-through-an-additional-language
[125] https://pro.europeana.eu/project/jewish-history-tours
[126] The project was officially extended until 30 June 2023. Deadlines extended are marked with a *.

						from the provider.[127] Two of the four sets (in total 32,290 records counting for the project in 2A+) containing records that are new to Europeana, are in preview and ready to be published, Two sets (452 records, new to Europeana) need reprocessing. From the newly digitised records in Tier4, the project had reportedly collected extra records, but EF has not yet received these, at the moment, 3,586 newly digitised records in Tier4 are still missing.
GS	Validation methodology for enrichments is ready	Task 2.3 Automated approaches towards data quality	Mar 23*	95%	Ongoing	The validation methodology has been agreed. Sample validation of enrichments has been carried out for three datasets. Results are generally acceptable: the enrichments performed during the course of the project will be integrated in Europeana. The corresponding reports have been mostly completed
GS/DS	Enhancement of Europeana API with geospatial querying	Task 1.1 Provide reliable data space infrastructure and quality services	Nov 22 [128]	100%	Done	
GS	Tours available on	Task 4.2	Jun 23*	100%	Done	2 blogpost on

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[127] The biggest set of this, dataset 814, first had issues on the providers side concerning duplicates and updated records, and after that an issue on EF side concerning media calculation that influenced the tiers.
[128] The original deadline was July 22 but it was extended by project partners to November 22 to meet all requirements. The new deadline is within the project scope.

	Europeana.eu via oEmbed	Engage audiences with cultural heritage				Europeana.eu[129]
GS	Impact assessment study	Task 3.4 Develop capacity building as a service	Oct 22	100%	Done	Impact assessment ready, this one will feed into the sustainability plan of the project.
GS	Multilingual package of training materials (at least 3 EU languages)	Task 3.5. Facilitate the provision of high quality data	Jun 23*		Not started	
GS	Recommendations on the cooperation of European Initiative and Cultural Routes of the Council of Europe Programme	Task 3.1. Enhance cooperation throughout the data space	Jun 23*	40%	Ongoing	Initial outline created, JHT stakeholder event scheduled .
GS/DSI	Editorials on Pro	Task 4.2 Engage audiences with cultural heritage	June 23	80%	Ongoing [130]	5 project entries available on Europeana pro.
EnrichEuropeana+[131][132]						
GS	100,000 new records	Task 2.2 Data acquisition and data improvements	Dec 22	100%	Done[133]	In total 132,056 record were ingested (Tier4: 127,550, Tier3: 1,037, Tier2: 2,847 Tier1:617, Tier0: 5).
GS/DS	Records with enrichments (translations, transcriptions,	Task 2.2 Data acquisition and data improvements	Mar 23	5%	Delayed	Pending on partners delivery. Expected begging of May.

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[129] https://www.europeana.eu/en/blog/a-glimpse-of-jewish-minsk;
https://www.europeana.eu/en/blog/jewish-heritage-in-halberstadt
[130] This outcome will continue after the DSI-4 Y4 contract as more editorials are expected after August 2022 and until the end of the project.
[131] https://pro.europeana.eu/project/enricheuropeana
[132] The project was extended for 6 months.
[133] During November 2021-August 2022 the project delivered (7% or 6,974 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.

	semantic enrichments)					
GS	Validation of enrichments criteria agreed with EF	Task 2.3 Automated approaches towards data quality	Mar 23	100%	Done	
GS	Integration Transcribathon platform and Europeana CSP by implementing single sign-on on Transcribathon platform	Task 1.1 Provide reliable data space infrastructure and quality services	Mar 23	100%	Done	
GS	Call to action button on Europeana.eu	Task 1.1 Provide reliable data space infrastructure and quality services	Mar 23	100%	Done	
GS	Automatization of the selection of data on Europeana.eu to be enriched on the Transcribathon tool	Task 1.1 Provide reliable data space infrastructure and quality services	Mar 23	5%	Ongoing	Pending on partners call to action link submission.
GS	2 webinars for CH professionals	Task 3.4 Develop capacity building as a service	Nov 22	100%	Done	
GS	3 workshops CHIs and educational institutions	Task 3.4 Develop capacity building as a service	Mar 23	100%	Done	
GS	3 transcribathons events	Task 3.6. Facilitate the reuse of high quality data	Nov 22	100%	Done	4 transcribathon events and one online run were held.
GS/DS	16 editorials pieces on Pro and/or editorials on Europeana.eu	Task 4.2 Engage audiences with cultural heritage/ Task 3.3 Build awareness and engagement	Mar 23	60%	Ongoing	10 editorials have been published (5 on Europeana Pro and 5 on Europeana.eu)

GS	Impact assessment	Task 3.4 Develop capacity building as a service	Feb 23	100%	Done	
CRAFTED - Enrich and promote traditional and contemporary crafts[134]						
GS	189,660 new records and 26,300 upgraded records.	Task 2.2 Data acquisition and data improvements	Jun 23 [135]	75%	Ongoing	All data has been delivered by aggregators, most of the data has been enriched. The data and enrichments will be delivered to Europeana and ingested thorughout June 2023.
GS	100,000 records enriched	Task 2.2 Data acquisition and data improvements	Jun 23	80%	Ongoing	The enrichments done by the project are: semantic enrichments, subtitled using speech-to-text of AV content, enrichments of OCR of text in AV content that will be put into text transcripts. Enrichment work is coming to an end, almost all foreseen enrichments have been completed.
GS	Extension to handle and display enrichments on Europeana.eu	Task 4.2 Engage audiences with cultural heritage	May 23	100%	Done	
GS	Human-in-the-loop methodology for the enrichment of CH metadata	Task 1.1 Provide reliable data space infrastructure and quality services	Sep 22	100%	Done	
GS	Crafted toolset	Task 1.1 Provide reliable data space	May 23	90%	Ongoing	

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[134] https://pro.europeana.eu/project/crafted
[135] The original deadline was October 22 but it was extended by project partners to June 23 to meet all requirements. The new deadline is within the project scope.

		infrastructure and quality services				
GS	Human-in-the-loop methodology and Crafted toolset evaluation	Task 1.1 Provide reliable data space infrastructure and quality services	May 23			EF is responsible for the evaluation of the Human-in-the-loop methodology, and Crafted toolset. We are continuing to revise and evaluate the outcomes of the HiTL methodology throughout the enrichment process. This task will be finished by the end of May 2023, EF is currently approaching the final draft of this document.
GS	Crafted guidelines and documentation materials for CH professionals	Task 3.4 Develop capacity building as a service	May 23	65%	Ongoing	Documentation is finalised internally and needs to be prepared for online dissemination.
GS	Crafted training resources on AI and crowdsourcing technologies for education	Task 3.6. Facilitate the reuse of high quality data	Jun 23	65%	Ongoing	Documentation and capacity building resources are being written. This task is progressing in tandem with 'Crafted guidelines and documentation materials for CH professionals'.
GS	24 editorials available on Europeana.eu (incl. 3 exhibitions and 9 blog posts using the media player)	Task 4.2 Engage audiences with cultural heritage	Jun 23	100%	Ongoing	31 editorials (incl. 2 exhibitions exhibitions) have been produced by the end of the reporting period. Additionally, 7 collection pages and all 30 videos have been provided.
GS	Project entries on Pro	Task 3.3 Build awareness and engagement	Jun 23		Ongoing	1 project entry was published during the reporting period
GS	3 edit-a-thons campaigns	Task 3.5. Facilitate the provision of high quality data	Jun 23	100%	Ongoing	5 edit-a-thons have been conducted.

GS	3 workshops for CH professionals	Task 3.5. Facilitate the provision of high quality data	Jun 23	75%	Ongoing	3 workshops have been organised.
Other GS projects with outcomes to be integrated in Data Space						
SGoaB- Saint George on a Bike[136]						
GS/DS	2 project entries on Pro	Task 3.3 Build awareness and engagement	Feb 23	100%	Done	5 project entries available on Europeana Pro.
GS	2 crowdsourcing campaigns	Task 2.2. Data acquisition and data improvements	Feb 23	100%	Done	Campaigns have been completed. EF will start the revision of the evaluation done by project partners regarding the enrichments produced.
GS	1 workshop	Task 3.4 Develop capacity building as a service	Feb 23	0%	Not started	The workshop was related to an external conference. The conference was postponed to the second semester of 2023, therefore it would not be possible to host the workshop within the project timeframe.
Europeana Translate[137]						
GS	Niche-sourcing campaigns and experts evaluation completed (3 campaigns; selected translated fields from 500 records to be evaluated per language by linguist experts; near human quality (over 89% score on average) for the majority of languages)	Task 2.3 Automated approaches towards data quality	Jan 23	100%	Done	

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[136] https://pro.europeana.eu/project/saint-george-on-a-bike
[137] https://pro.europeana.eu/project/europeana-translate

GS	Cultural heritage-related datasets with 10 million records (multilingual and monolingual metadata records) sourced from Europeana API, processed and tagged. Resources will cover the 24 EU official languages. All resources have a free reuse licence (CC0)	Task 1.2 Foster innovation, interoperability and compliance with other data services Task 2.3 Automated approaches towards data quality	Jan 23	100%	Done	
GS	Toolset for processing the multilingual cultural heritage metadata and publishing it to the Europeana platform (23 translation engines deployed)	Task 1.1. Provide reliable data space infrastructure and quality of services Task 1.2 Foster innovation, interoperability and compliance with other data services Task 4.1. Deliver high-performing Europeana website	Mar 23	100%	Done	The tools, pipeline and engine is connected with Europeana.eu back and user front was be updated to support multilingual search and item view.
GS	Impact Assessment report prepared	Task 3.4 Develop capacity building as a service	Apr 23	95%	Ongoing	Impact assessment of multilingual translation and engines on Europeana end-users.

GS	Dissemination report prepared	Task 3.3 Build awareness and engagement Task 3.4 Develop capacity building as a service	Apr 23	80%	Ongoing	5 editorials available on Pro. A capacity building was organised in mid-April, this was the project final event.
GS	Sustainability plan prepared	Task 1.1. Provide reliable data space infrastructure and quality of services Task 4.1. Deliver high-performing Europeana website	Apr 23	80%	Started	
GS	Metadata records with translations available to Europeana	Task 2.2 Data acquisition and data improvements Task 4.1. Deliver high-performing Europeana website	Apr 23	50%	On going	After the evaluation work done in the project ,quality thresholds were defined to filter the translation suitable for Europeana infrastructure based on the confidence level given to them by the translation engine. From the 25 million metadata records, 8 million have been translated on Europeana databases and it is expected to have the remaining records translated by mid-June. After this, EF will work on making the enriched metadata with translations available on Europeana.eu by mid-July.

J-Ark European Jewish Community Archive[138]

GS	Editorials on Pro	Task 3.2. Nurture networks and	Aug 22	100%	Done[139]	4 project related entries available on Europeana Pro.

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[138] https://pro.europeana.eu/project/j-ark-european-jewish-community-archive
[139] This outcome will continue after the DSI-4 Y4 contract until the end of the project.

		Task 4.2. Relations with Europeana Generic Services projects				
GS	Event	Task 3.3 Build awareness and engagement	Feb 22	100%	Done	
GS	Dataset connected to 3 DSIs (eArching, eTranslated and Europeana)	Task 2.2. Data acquisition and data improvements	Feb 22	100%	Done	2 datasets published, in total 12,389 records. Of these records, 11,956 records are in tier 2A+ (433 records are in tier 1)
WATCHLIKEAHIST - Watching videos like historian[140]						
Erasmus+	Project entries on Pro	Task 3.3 Build awareness and engagement	Aug 23	20%	Ongoing	
Erasmus+	Impact assessment	Task 3.4 Develop capacity building as a service	Oct 22	100%	Done	This is a living document that will be updated to report on the metrics and adjust them if necessary
Erasmus+	Practitioner guide for AV collections holder available on Europeana Pro	Task 3.5. Facilitate the provision of high quality data	Jun 23	35%	Ongoing	Media literacy competence framework is ready and published. Practitioner guide for AV collections holder is delayed on partners side. EF is waiting to receive final version for its revision and make it available on Europeana Pro.
Erasmus+	Contribution of Europeana education community to the toolkit	T3.3 Design, development and refining of the Toolkit	Jul 24	15%	Ongoing	Recruitment of experienced educators in media literacy from the Europeana education community members to be part of the developer team for the toolkit. Attendance to the ad hoc coordination meeting with the developer group to advice them in

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[140] https://pro.europeana.eu/project/watching-videos-like-a-historian-watchlikeahist

						the design of the toolkit with our content.
Erasmus+	Dissemination via editorials and presentations at events	T5.3 Communication, dissemination and scaling-up strategy	March 25		Ongoing	Editorials have been written in relevant online platforms[141] and the projects and deliverables have been presented at events[142].

InDICEs[143]

H2020	Project entries on Pro	Task 3.3 Build awareness and engagement	Mar 23	100%	Done	18 project related entry available in Pro.
H2020	Capacity building workshops	Task 3.5. Facilitate the provision of high quality data	Mar 23	100%	Done	5 online events organised by EF.

Data Space - supporting projects

5DCulture[144]

DS	Project entries on Pro	Task 3.3 Build awareness and engagement	Aug 23	5%	On going	2 project entries available in Pro. This task will continue until the end of the project in December 2024.

De-Bias[145]

DS	Knowledge co-creation methodology	Task 3.5. Facilitate the provision of high quality data	Aug 23	5%	On going	First iteration of the knowledge co-creation methodology to be created by end August 2023.
DS	Project entries on Pro	Task 3.3 Build awareness and engagement	Aug 23	10%	On going	3 project entries available in Pro. This task will continue until the end of

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[141] See for example https://media-and-learning.eu/type/featured-articles/new-erasmus-project-equips-students-and-educators-to-watch-videos-like-a-historian/ and https://pro.europeana.eu/post/how-the-watching-videos-like-a-historian-project-will-support-media-literacy-throughout-european-classrooms
[142] See for example https://pro.europeana.eu/event/getting-the-most-out-of-video-in-school-settings
[143] https://pro.europeana.eu/project/indices
[144] https://pro.europeana.eu/project/5dculture-deploying-and-demonstrating-a-3d-cultural-heritage-space
[145] https://pro.europeana.eu/project/de-bias

						the project in December 2024.
Eureka3D[146]						
DS	Project entries on Pro	Task 3.3 Build awareness and engagement	Aug 23	5%	On going	2 project entries available in Pro. This task will continue until the end of the project in December 2024.
DS	Editorials on Europeana.eu	Task 4.2 Engage audiences with cultural heritage	Aug 23		Not started	It is expected to have 4 blogs and 10 galleries by December 2024.
AI4Europeana[147]						
DS	Project entries on Pro	Task 3.3 Build awareness and engagement	Aug 23	5%	On going	2 project entries available in Pro. This task will continue until the end of the project in December 2024.

Task 5.4. Phasing-in and phasing-out periods

Partners: EF

As EF was the current Europeana DSI operator, no phasing-in period was required. The work related to the phasing-out and transfer processes to a successor contractor (i.e. a third party contractor awarded by the EC to continue the operation, in full or in part, of the data space) will start in the second contractual year if a contract takeover is required from 1 July 2024.

No activities in M06 - M08.

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[146] https://pro.europeana.eu/project/eureka3d-european-union-s-rekonstructed-content-in-3d
[147] https://pro.europeana.eu/project/ai4europeana-an-ai-platform-for-the-cultural-heritage-data-space

Annex: Progress on deliverables

This table states progress on deliverables for Y1 (1 Sep 2022 - 31 Aug 2023).

Type	Name	Due month	Completed
PM.	Implementation plan	M01, M12	M01
PM.	Risk management plan	M03	M03
PM.	Periodic report	M03, M06, M09, M12	M03, M06, M09
PM.	Annual report	M12	-
DS.	Data governance	M07	M07
DS.	Infrastructure report	M09	M09
DS.	Technical documentation	M10	-
DS.	Stress test reports	M11	-
DS.	Disaster recovery	M11	-
DS.	Data supply and reuse report	M08	M08
DS.	Users and usage report	M06	M06
DS.	Communication and dissemination plan	M02, M11	M02

Annex: Risk log

WP1: Development and operation of the data space infrastructure

	Identify		Assess						Plan for and Control		Governance		
ID	**Risk description**	**Activity**	**Date**	**Response**	**Type**	**Impact**	**Probability**	**Priority**	**Proposed action**	**Mitigation & Contingent plan**	**Informed**	**Consulted**	**Risk history**
	Brief summary of the risk cause, the risk event (either threat/opportunity), and the risk effect	_Activity according to IP_	_Last reviewed/ updated_	_Overall risk response_	_Threat (negative impact) or Opportunity (positive impact)_	_Rate 1 (very low) to 5 (very high)_	_Rate 1 (very low) to 5 (very high)_	_Impact x probability (automatically filled)_	_(automatically filled)_	_Mitigation explanation and link to contingent plan (if needed)_	_Entity informed about the risk (if applicable)_	_Entity consulted about the risk (if applicable)_	_Information on risk history_
Task 1.1. Provide reliable data space infrastructure and quality of services													
R.WP1.1	High traffic in form of attacks can cause interruptions in the service	Activity 1.1.1. Extend and maintain platform infrastructure and services	2023-05-24	Reduce	Threat	4	2	Medium	Tolerable and Monitor	Anti-flooding mechanism are in place to limit the traffic to real users	N/A	N/A	N/A
R.WP1.2	The data space infrastructure is subject to cybersecurity attacks	Activity 1.1.1. Extend and maintain platform infrastructure and services	2023-05-24	Reduce	Threat	3	3	Medium	Tolerable and Monitor	The data space will deploy security mechanism to prevent Distributed denial-of-service DDOs attacks, security leaks at the level of user authentication/identity management system for internally developed software, code vulnerabilities etc	N/A	N/A	N/A
R.WP1.3	The data space services are unavailable to users due to infrastructure failure(s)	Activity 1.1.1. Extend and maintain platform infrastructure and services	2023-05-24	Reduce	Threat	5	1	Low	Acceptable	Disaster recovery and failvover procedures are available to limit the impact on the public services	N/A	N/A	N/A
Task 1.2. Foster innovation, interoperability and compliance with other data spaces													
R.WP1.4	The recommendations and developments of the Data Space ecosystem services (Data Space support centre, Technical Framework, Simpl platform) will be developed during the contract and might impact the plans made as part of the tender offer	Activity 1.2.2. Synergies with other European data spaces	2023-05-24	Exploit	Opportunity	2	1	Low	Acceptable	The operator will use its agile development methodologies to seize opportunities and will align its infrastructure components to the recommendations. This means that some developments initially planned may have to be deprioritised.	N/A	N/A	N/A

WP2: Integration of high-quality data

	Identify		Assess					Plan for and Control			Governance		
ID	Risk description	Activity	Date updated	Response	Type	Impact	Probability	Priority	Proposed action	Mitigation & Contingent plan	Informed	Consulted	Risk history
	Brief summary of the risk cause, the risk event (either threat/opportunity), and the risk effect	*Activity according to IP*	*Last reviewed/ updated*	*Overall risk response*	*Threat (negative impact) or Opportunity (positive impact)*	*Rate 1 (very low) to 5 (very high)*	*Rate 1 (very low) to 5 (very high)*	*Impact x probability (automatically filled)*	*(automatically filled)*	*Mitigation explanation and link to contingent plan (if needed)*	*Entity informed about the risk (if applicable)*	*Entity consulted about the risk (if applicable)*	*Information on risk history*
Task 2.1. Develop and manage data governance mechanisms													
R.WP2.1	The data space requests the development of data governance mechanisms starting Y1. There are multiple data governance outcomes (including the cooperation agreement) that are dependent on a clear long-term vision and architecture for data-sharing in the data space. A lack of clarity in this area might lead to inadequate or incomplete rules for data governance.	Activity 2.1.1. Identify data governance requirements and objectives	2023-05-24	Reduce	Threat	3	2	Medium	Tolerable and Monitor	We develop the data governance mechanism (DGM) progressively, as we get more clarity on data sharing and architecture requirements, as described in the strategy and plan for the development of the DGM.	ENA/EAF & CEDCHE	ENA/EAF & CEDCHE	A data governance stakeholder working group (incl. Europeana DS Consortium partners, ENA, EAF) has been set up (Jan 2023). The data governance strategy was shared with CEDCHE and a subgroup was set-up.
R.WP2.2	Insufficient capability (skills and knowledge) are available in stakeholders on key topics addressed by the Data Governance Mechanism leading to ineffective stakeholder engagement and implementation	Activity 2.1.1. Identify data governance requirements and objectives	2023-05-24	Reduce	Threat	2	3	Medium	Tolerable and Monitor	Working with the Capacity Building Working Group to develop requirements for the training programme to deliver training and knowledge transfer activities that support the advancement the capabilities of stakeholders relevant to the DGM	N/A	N/A	N/A
Task 2.2. Data acquisition and data improvements													
R.WP2.3	The data provided by consortium aggregators and data improvements on the platform are not sufficient to reach an annual 10% increase in high-quality data	Activity 2.2.2. Raise the quality and access to existing content and metadata	2023-05-24	Reduce	Threat	2	3	Medium	Tolerable and Monitor	Active participation from National Aggregators is essential to meet the targets (in line with Recommendations). EC and Member States will be informed regularly about MS contributions so that remedial actions can be taken sufficiently in time to meet the targets.	N/A	N/A	N/A
Task 2.3. Automated approaches towards data quality													
R.WP2.4	The chosen AI solution, image resolution enhancement can't be deployed at scale because of the complexity of the technical implementation	Activity 2.3.1. Use of AI to enrich metadata and content	2023-05-24	Reduce	Threat	3	1	Low	Acceptable	Another experiment focusing on the enhancement of content will be proposed for deployment instead.	N/A	N/A	N/A
R.WP2.5	AI activities are limited by copyright and need to be balanced out with political and ethical concerns.	Activity 2.3.1. Use of AI to enrich metadata and content	2023-05-24	Reduce	Threat	2	2	Low	Acceptable	Limitations for AI activities linked to copyright and/or data protection laws will be taken into account and investigated as part of the development of Data Governance. For the "chosen AI solution" above, we have decided to focus on the images that are less subject to policy issues (as they are covered by DEA and come from legacy providers and the results of sample evaluations were ok)	EAF	N/A	EAF aware of the risk (informed at the EAF meeting, Apr 2023)

WP3: Capacity building and fostering reuse

	Identify		Assess						Plan for and Control		Governance		
ID	**Risk description**	**Activity**	**Date updated**	**Response**	**Type**	**Impact**	**Probability**	**Priority**	**Proposed action**	**Mitigation & Contingent plan**	**Informed**	**Consulted**	**Risk history**
	Brief summary of the risk cause, the risk event (either threat/opportunity), and the risk effect	*Activity according to IP*	*Last reviewed/ updated*	*Overall risk response*	*Threat (negative impact) or Opportunity (positive impact)*	*Rate 1 (very low) to 5 (very high)*	*Rate 1 (very low) to 5 (very high)*	*Impact x probability (automatically filled)*	*(automatically filled)*	*Mitigation explanation and link to contingent plan (if needed)*	*Entity consulted about the risk (if applicable)*	*Entity consulted about the risk (if applicable)*	*Information on risk history*
Task 3.1. Enhance cooperation throughout the data space													
R.WP3.1	The coordination to enhance the cooperation of stakeholders in the data space is slow and impacts progress.	Activity 3.1.1. Develop methods of cooperation	2023-05-24	Reduce	Threat	2	3	Medium	Tolerable and Monitor	We collaboratively prioritise developments in cooperation based on the needs of the stakeholders and regularly meet and evaluate progress.	ENA & EAF	ENA & EAF	ENA & EAF discussions are underway (as part of monthly meetings). Full-day meeting on 17th March 2023 to develop models for cooperation. The next meeting is planned for 16th Jun 2023.
R.WP3.2	The enhanced accreditation scheme does not lead to a positive change in the engagement and participation of aggregators in the EAF.	Activity 3.1.2. Provide secretariat for Europeana Aggregators' Forum (EAF) and Europeana Network Association (ENA)	2023-05-24	Reduce	Threat	2	3	Medium	Tolerable and Monitor	We will iteratively develop and test enhancements to the scheme, utilising user research and feedback gathered.	EAF	EAF	EAF discussions to be scheduled
R.WP3.3	Insufficient engagement of ENA members, results in low levels of knowledge transfer, and satisfaction.	Activity 3.1.2. Provide secretariat for Europeana Aggregators' Forum (EAF) and Europeana Network Association (ENA)	2023-05-24	Reduce	Threat	3	3	Medium	Tolerable and Monitor	Engagement of ENA members will be further developed as part of the outcome 'Strategy for ENA/EAF outreach and engagement developed' (Jun 2023). Improved CRM and user research functionalities will steadily enable a greater understanding of needs and the ability to respond to and measure the impact of the response.	ENA & EAF	ENA & EAF	ENA & EAF discussion to be scheduled
Task 3.2. Identify needs of user groups													
Task 3.3. Build awareness and engagement													
R.WP3.4	Development and implementation of increasing numbers of platforms for professional audience engagement complicates, reduces user satisfaction and drives down user visits to websites like Europeana Pro.	Activity 3.3.3. Engage professional audiences	2023-05-24	Reduce	Threat	3	3	Medium	Tolerable and Monitor	We will regularly evaluate the available data to assess the impact of changes made and the performance of platforms. We have started working on a platform strategy (expected Aug 2024) that aims to provide more clarity on ownership, aims and audience for each platform and provide simpler processes to follow to improve user journeys.	N/A	N/A	N/A
Task 3.4. Develop capacity building as a service													
R.WP3.6	Low uptake for participation of professional audience in training programme realised.	Activity 3.4.2. Manage and develop mechanisms for the training programme	2023-05-24	Reduce	Threat	3	1	Low	Acceptable	User and impact research is undertaken to define and validate stakeholders' needs and informs the motivation and engagement model to increase the product/market fit of the training programme (related IP outcome: Impact pathway for training programme developed, Feb 2023)	N/A	N/A	N/A
Task 3.5. Facilitate the provision of high quality data													
R.WP3.7	The demand for expertise to deliver training and engage in knowledge transfer activities is greater than the supply. External expertise is needed to create, maintain and improve training material and deliver training.	Activity 3.5.1. Deliver training programme for aggregators and data partners	2023-05-24	Reduce	Threat	3	2	Medium	Tolerable and Monitor	Outreach and engagement plans for ENA/EAF consider methods to catalogue and connect with expertise within networks to ensure a repository of potential expertise is identified.	EAF	EAF	EAF was informed about the proposed priority areas for training.
R.WP3.8	To reach more professionals across Europe working on the digital transformation of the cultural heritage sector, there is a need for multilingual training offers, but currently, multilingual coverage of tools and resources is not available (only in English). This limits accessibility and the potential impact of training.	Activity 3.5.1. Deliver training programme for aggregators and data partners	2023-05-24	Reduce	Threat	3	2	Medium	Tolerable and Monitor	In 2023 a Learning Management will be selected and the first courses will be offered through this LMS. Multilingualism is one of the requirements of an LMS, both the interface of the LMS and the automatic translation of the training content. In this way, the LMS will support multilingualism better than the current situation. Apart from the technical solutions, there is also a need for contributions from native speakers (possibly ENA and EAF members) to translate and localise offers.	ENA & EAF	ENA & EAF	This is discussed as part of the Capacity Building Working Group.
Task 3.6. Facilitate the reuse of high quality data													

WP4: Digital services for the public

| | | | | Assess | | | | | Plan for and Control | | | Governance | | |
| | Identify | | | | | | | | | | | | | |
ID	Risk description	Activity	Date updated	Response	Type	Impact	Probability	Priority	Proposed action	Mitigation & Contingent plan	Informed	Consulted	Risk history
	Brief summary of the risk cause, the risk event (either threat/opportunity), and the risk effect	*Activity according to IP*	*Last reviewed/ updated*	*Overall risk response*	*Threat (negative impact) or Opportunity (positive impact)*	*Rate 1 (very low) to 5 (very high)*	*Rate 1 (very low) to 5 (very high)*	*Impact x probability (automatically filled)*	*(automatically filled)*	*Mitigation explanation and link to contingent plan (if needed)*	*Entity informed about the risk (if applicable)*	*Entity consulted about the risk (if applicable)*	*Information on risk history*
Task 4.1. Deliver high-performing Europeana website													
R.WP4.1	Expectations regarding the deployment of multilingual services are higher than what available technology and resources enable the Europeana DS consortium to implement.	Activity 4.1.4. Expand multilingual coverage to include all EU official languages	2023-05-24	Reduce	Threat	3	3	Medium	Tolerable and Monitor	We regularly evaluate and communicate the results of evaluation to stakeholders. Adapt plans to the performance level of technology.	N/A	N/A	N/A
R.WP4.2	The eTranslation service is unable to support internationalisation and localisation in all EU official languages.	Activity 4.1.4. Expand multilingual coverage to include all EU official languages	2023-05-24	Accept	Threat	3	3	Medium	Tolerable and Monitor	Europeana DS will diversify its sources to obtain translations. The new translation broker API will allow for the DS to be more flexible and more efficient towards the use of translation services (First version of a Translation API is established, Aug 2023).	N/A	N/A	N/A
Task 4.2. Engage audiences with digital cultural heritage													

WP5: Programme management

		Identify		Assess					Plan for and Control		Governance		
ID	**Risk description**	**Date updated**	**Response**	**Type**	**Impact**	**Probability**	**Priority**	**Proposed action**	**Mitigation & Contingent plan**	**Informed**	**Consulted**	**Risk history**	
	Brief summary of the risk cause, the risk event (either threat/opportunity), and the risk effect	*Last reviewed/ updated*	*Overall risk response*	*Threat (negative impact) or Opportunity (positive impact)*	*Rate 1 (very low) to 5 (very high)*	*Rate 1 (very low) to 5 (very high)*	*Impact x probability (automatically filled)*	*(automatically filled)*	*Mitigation explanation and link to contingent plan (if needed)*	*Entity informed about the risk (if applicable)*	*Entity consulted about the risk (if applicable)*	*Information on risk history*	
Task 5.1. Ensure continuous progress monitoring and reporting													
R.WP5.1	A larger staff turnover and longer-term sickness of experts can affect the execution of tasks and the delivery of committed outcomes in time.	2023-05-24	Accept	Threat	3	3	Medium	Tolerable and Monitor	The Europeana DS consortium re-plans and reorganises the work internally; we keep EC up-to-date on any delays and impact on any other data space commitments.	N/A	N/A	N/A	
R.WP5.2	A potential personal data breach that occurs, which will jeopardize the GDPR/IDPR compliance	2023-05-24	Reduce	Threat	5	2	Medium	Tolerable and Monitor	In case of a data breach EF will inform the EC DPA as soon as possible, but within 72 hours after the breach.	N/A	N/A	N/A	
Task 5.2. Governance													
Task 5.3. Manage relations with other EU-funded projects													
R.WP5.3	Changes in the implementation of data space-supporting projects might affect the execution of the Europeana DS consortium tasks and activities	24/05/2023	Reduce	Threat	2	3	Medium	Tolerable and Monitor	Monthly internal team meeting for better coordination and risk mitigation. Continuous collaboration with project partners to flag and mitigate possible risks.	N/A	N/A	N/A	
Task 5.4. Phasing-in and phasing-out periods													