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**Deployment of a common European data space
for cultural heritage**

PM. Periodic report M21

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Author(s)	Management team and Julia Schellenberg, Europeana Foundation
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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 the reporting period, we further developed the data space infrastructure by establishing a first version of a failover environment to ensure continuous platform reliability, and upgrading the logging infrastructure to allow scaling of activities around search logs (i.e. retain more information on user behaviour). We also selected a new data processing framework for eCloud and the Metis Suite to increase its availability, performance and scalability, sustainable for the future. We also integrated the Sandbox validation and problem pattern API into the MINT based aggregators' infrastructures so they can directly benefit from the Sandbox without leaving their working environment (the MINT tool in this case). Finally, we progressed on the user feature 'search by dates' to be available on the Europeana website.

We completed a mapping of the current aggregators' role to data space roles defined for data spaces as part of the [DSSC blueprint 1.0](#), allowing us to define the responsibilities of the current aggregators in the data space and to start the identification of the tools and services facilitating data exchange and reuse in the data space.

In support of the development and management of data governance mechanisms, we completed a white paper outlining the conditions that govern metadata in the data space, including recommendations of conditions for the reuse of metadata going forward in the data space. We also outlined conditions for assigning accurate rights statements to 3D content which provides a baseline for the Europeana Initiative to develop guidance in this area. Finally, we completed a first (internal) version of the policy for persistent identifiers in the data space to guarantee stable and long lasting dissemination and reuse of the cultural heritage objects being shared in the data space.

In support of the work related to data acquisition and data improvements, we completed an inventory of Europeana records impacted by selected problem patterns which helps us to report more meaningful and maximises opportunities for providers to act on the issues observed. We reviewed key elements that are critical to the optimal functioning of the data supply and data demand management cycle (incl. improvements to the process for managing the data ingestion backlog and steps towards the implementation of a more holistic approach to process management within EF).

In support of the aggregation of 3D content, we improved the technical support for 3D media resources within the Europeana products and services, allowing Metis to recognise more 3D formats and provide a framework for easily adding additional support if needed. We also completed an evaluation of national and sectoral repositories handling 3D data within Europe, with a view to inform our supply and demand work in the data space, as well as being able to help future data providers store their data. Finally, we examined 3D use cases and current practices from the cultural sector to inspire CHI's to engage in more 3D digitisation based on the

benefits such 3D digital objects will bring to the CHI and the wider population (incl. recommendations for the Europeana Initiative).

To support the use of Artificial Intelligence (AI) to enrich metadata and content we reviewed underlying infrastructure (hardware and services) to be employed for AI efforts in the data space and published V2 of the [evaluation methodology of \(AI\) enrichment results](#).

To enhance the cooperation throughout the data space we published the [Model of cooperation \(including thematic programme of activity\) \(V2\)](#). We also completed requirements for a policy-making dashboard/enumerate observatory, containing data about, related to and useful for Member States and other key stakeholders in the data space (within the existing Europeana Statistics Dashboard), particularly to help the Member States progress towards the targets set in the European Commission Recommendation 2021 on a common European data space for cultural heritage.

To expand the data space offer to more audiences, we identified two new areas with reuse potential (tourism and independent publishers or networks working with creative writers) and created audience profiles identifying needs and opportunities for the new audiences. The focus for the new audiences is on a B2B (business-to-business) approach.

In Mar 2024, we released a new [landing page](#) for the data space to promote the data space to our stakeholders and to other data spaces, the launch was supported by a promotional campaign.

In the period, we completed several strategic documents that reviewed and will inform future activities towards social media, platforms for professional audiences, and Europeana Pro (incl. the Europeana Pro survey).

In the period between Feb 2024 - Apr 2024, we organised in total 21 events reaching 807 people (92% user satisfaction) and two training sessions reaching 234 people (87% user satisfaction). To further develop capacity building as a service we updated the Europeana Capacity Building Framework (V4), and piloted and evaluated the [Training Platform](#) which resulted in positive feedback and outcomes.

We also engaged education audiences (e.g. via Built with Bits 3 and training events) and increased support for API users (i.e. with the new [API landing page](#) for onboarding API users).

On the Europeana website, we released the [new providing institutions page](#), formerly known as the 'organisations page' (incl. a search feature, sorting options for countries, number of items and institution names). We progressed with automatic language tagging of metadata which supports the multilingual display of items on Europeana.eu and multilingual search and result display on the Spanish destination of Europeana.eu.

Introduction

The periodic report describes work carried out under the common European data space for cultural heritage from 1 Feb 2024 (M18) until 30 Apr 2024 (M20) based on the implementation plan (PM. Implementation plan M12).

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 Y2 (Sep 2023 - Aug 2024, as stated in PM. Implementation plan M12) 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 2024).

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

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 DS AGG

The data space infrastructure 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 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	Solution for the long-term persistence of metadata records designed	Completed	Nov 2023
EF	Implementation plan for the persistence and uniqueness of identifiers in the DS refined	Completed	Dec 2023
EF	Report on practices of aggregators towards persistent identifiers completed	Completed	Dec 2023
EF	First version of a failover environment in place	Completed	Mar 2024
EF	Logging infrastructure upgraded to allow scaling of activities around search logs	Completed	Mar 2024
EF	Report on practices of CHIs towards persistent identifiers completed	30%	Jun 2024
EF	Implementation plan for the persistence and uniqueness of identifiers in the DS updated	Not started	Jun 2024
EF	Solution for the long-term persistence of metadata records implemented	10%	Jul 2024

EF, AIT Vienna	Post publication pipeline reviewed and made ready for production	50%	Aug 2024
EF	Full disaster recovery test completed ²	-	Ongoing
EF	Inventories of Europeana infrastructure and products (incl. servers, databases, licences) reviewed and maintained	-	Ongoing
EF	Europeana database reprocessing activities completed ³	-	Ongoing
EF	Infrastructure supporting products and services are maintained - 60% in M18 - M20	-	Ongoing
EF	Compliance with data protection maintained ⁴	-	Ongoing
Activity 1.1.2. Extend and maintain aggregation systems and services			
PSNC	New data processing framework for eCloud and the Metis Suite selected	Completed	Mar 2024
DATO, DS AGG	Metis Sandbox validation and problem pattern API tested and integrated in MINT based infrastructure	Completed	Mar 2024
PSNC	MVP of new data processing library in combination with the Metis Sandbox implemented	Not started	Aug 2024
PSNC	IIIF image service consolidated and maintained	75%	Aug 2024
DATO, DS AGG	Metis Sandbox validation and problem pattern API tested by users of the MINT based infrastructure	50%	Aug 2024
EF, PSNC	The Metis applications are maintained and kept up-to-date - 10% in M18 - M20	-	Ongoing
Activity 1.1.3. Extend and maintain Application Programming Interfaces (APIs)			
EF	V3.0 design of the Record API completed	Completed	Dec 2023
EF	Internal services using machine translation are integrated with the Translation API	Completed	Jan 2024
EF	Search by dates (API implementation) (M-F2)	Completed	Feb 2024
EF	Testing of the Record API V3.0 with alpha users completed	Not started	Jun 2024 ⁵ (Mar 2024)
EF	Integration experiments and sharing requirements and data with the eTranslation service completed	90%	Jun 2024

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 Adjusted due date confirmed with EC.

EF	V3.0 of the Record API is released	70%	Aug 2024
EF, AIT Vienna	Translation API is extended and optimised	90%	Aug 2024
EF	Solutions to extend Recommendation Service with personalised and content based recommendations investigated and requirements collected	15%	Aug 2024
EF, AIT Vienna	Europeana APIs are maintained and well performing - 20% in M18 - M20	-	Ongoing

First version of a failover environment in place - under this outcome, we investigated different scenarios for a failover environment and concluded that a disaster recovery scenario was the most appropriate for the Europeana Infrastructure and the resources available. This means that when a disaster happens, the whole Kubernetes cluster and applications it contains would need to be redeployed based on complete documentation and step by step automated procedure. As part of this outcome, a Kubernetes cluster was deployed and applications that were never tested in the context of the Disaster recovery were deployed and documented. More on this exercise will be reported at part of DS. Disaster recovery M23 (expected Jul 2024). Different service providers were also investigated to identify the best options for setting up a more permanent failover Kubernetes cluster.

Logging infrastructure upgraded to allow scaling of activities around search logs - we have extended the logs produced by the portal to retain more user behaviour (when using the Europeana website) related to search. The Europeana Website and APIs now support user tokens, which have also been included in the logs. We have also identified potential actions to further strengthen our log infrastructure, as part of the ongoing work to upgrade the logging infrastructure to support more activities beyond search.

New data processing framework for eCloud and the Metis Suite selected - we have spent time evaluating the candidate data processing frameworks and narrowed it down to two choices for which we did a more in-depth proof of concept (PoC). Even though some uncertainties remain, we decided to proceed with [Apache Flink](#) and we will use this framework for the follow-up outcome 'MVP of new data processing library in combination with the Metis Sandbox implemented' (Aug 2024). If we encounter unexpected and serious issues with this framework, we may still switch to our backup candidate, which is [Spring Cloud Data Flow](#).

Metis Sandbox validation and problem pattern API tested and integrated in MINT based infrastructure - we integrated the Sandbox validation and problem pattern API that was developed in Y1 into the MINT based aggregators' infrastructures so they can directly benefit from the Sandbox without leaving their working environment (the MINT tool in this case). Lessons learned through this activity will be shared with the wider Europeana Aggregators' Forum so aggregators can replicate these efforts within their own infrastructures.

Search by dates (API implementation) (M-F2) - following the previous work on improving the representation, consecutive normalisation and improved indexing for dates, the next logical step was to make this available for API users. However, with the improved indexing also came additional complexity when using the new custom date fields directly by end-users. For this reason, a new syntax for searching the API was developed to hide much of the complexity while at the same time optimising the way the fields are being used by end-users. This new syntax was added to the current v2 of the Search API (in production) as an alpha feature so that users can start to experiment and provide feedback. When approved, this functionality will be made officially available in the upcoming Search API v3 planned for the next data space year.

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

No.	Description	Measured by	Frequency	Target Y2	Jan 2024	Feb 2024	Mar 2024	Apr 2024
KPI 1.1	Records with identifiers using a recognizable persistent identifier scheme	Total number of records in the data repository (incl. Tier 0)	Annually	7⁶ million	7,362,16 (Feb 2023)	-	-	Exp. Jul 2024
KPI 1.2	Response time of Europeana website	Average time (seconds) for single record per month	Monthly	1.0s	1.2	1.3	1.3	1.5
KPI 1.3	Uptime of Europeana website	Average in % for single record per month	Monthly	99.90%	99.97%	99.92%	100%	99.61%
KPI 1.4	Uptime of public APIs (all)	Average in % per month	Monthly	99.90%	99.97%	99.91%	100%	99.96%
KPI 1.5	Uptime of Europeana Pro	Average in % per month	Monthly	99.90%	99.99%	99.8%	99.94%	99.02%
RM 1.1	Europeana website meets the WCAG 2.1	Homepage and item pages (except	Annually	-	AA (Aug 2023)	-	-	Exp. Jul 2024

⁶ The latest calculation done in Sep 2023 includes identifiers for which we can not guarantee persistence. As the number of records might change significantly in future calculations (after further investigations and refinements) we set a realistic target for Y2. We aim at stabilising the method we developed to calculate this KPI.

	conformance level AA	for the media) meet the WCAG 2.1 conformance level AA accessibility standard						
RM 1.2	Response time of all public APIs ⁷	Average response time (seconds) per month	Monthly	-	0.16	0.15	0.15	0.15
RM 1.3	Response time of Europeana Pro	Average response time (seconds) per month	Monthly	-	1.04	1.36	1.8	1.41
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	-	AA (Aug 2023)	-	-	Exp. Jul 2024
RM 1.5	Uptime of Metis	Average in % per month	Monthly	-	100%	100%	100%	100%
RM 1.8	Environmental impact of data space	Total carbon footprint of Europeana's digital services per calendar year	Annually	-	NEW	-	-	Exp. Aug 2024

⁷ Public APIs are the APIs serving external users requests: the Search and Record APIs, the Annotation, User sets and Entity APIs and the IIIF dedicated APIs.

RM 1.6	Data publication in Metis (full workflow from harvest to successful indexing/publication)	Average time required for data publication (incl. full and incremental processing) (cumulative)	Bi-annually	-	22.07h ⁸ (Aug 2023)	30.08h ⁹	-	-
RM 1.9	Integration of the Metis Sandbox API(s) in Aggregator's infrastructures	Total number of aggregators who tested and/or implemented an integration of the Metis Sandbox API(s)	Annually	>9	NEW	-	-	Exp. Aug 2024

Over Sep 2023 - Feb 2024, 152 datasets were processed with a total of 4.23 million records. The average dataset size is 27,856 records. And it took on average 30.08 hours to process one dataset. Noting that there was one very problematic dataset that could not be published/processed due to issues with the provider's servers which significantly affected the statistics. If we disregard this dataset the average time required for data publication is 24.8 hours to process one dataset (with the average dataset size of 27,443 records).

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

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

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 follow the developments of the Data Spaces Technical Framework and the Data Space Support Centre (DSSC) recommendations and communicate the needs and requirements of the data space to the DSSC (Activity 1.2.2). 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).

⁸ The time is related to an average dataset consisting of about 31,300 records.

⁹ The time is related to an average dataset consisting of about 27,856 records.

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, DS AGG	Examples of new types of data collected and scenarios for their sharing in the data space developed	Completed	Dec 2023
EF, DS AGG	Mapping of the current aggregators' role to data space roles according the DSSC completed	Completed	Apr 2024 ¹⁰ (Mar 2024)
EF, DS AGG	Centralised vs decentralised aggregation scenarios delivered	10%	Jun 2024 ¹¹ (Mar 2024)
EF	Identification of data governance strategy use cases on the basis of centralised and decentralised scenarios	10%	Jul 2024
EF, NISV	MVPs for new data aggregation methods implemented	80%	Jul 2024
EF	Updated Aggregation Strategy delivered	20%	Aug 2024
Activity 1.2.2. Synergies with other European data spaces			
EF, AIT Vienna, NISV, CAPG	Mapping of the Europeana tools and services to the DSSC Blueprint V0.5	Completed	Dec 2023
EF, AIT Vienna, NISV, CAPG	Mapping of the Europeana tools and services to the DSSC Blueprint reviewed and updated	Not started	Jul 2024
EF	Collaboration with the Data Space Support Center (DSSC), other data spaces and related initiatives	-	Ongoing
Activity 1.2.3. Support interoperability and technological innovation for digital cultural heritage			
EF, NISV	EuropeanaTech community is supported	-	Ongoing
EF	EDM coordinated and documented	-	Ongoing
EF	Data mapping and conversions with stakeholders is supported	-	Ongoing
EF	Continuous involvement in IIF community (e.g. IIF Executive Committee, Technical Review Committee)	-	Ongoing

Mapping of the current aggregators' role to data space roles according the DSSC completed - this outcome is a step towards an understanding of the current aggregator role next to or in the

¹⁰ Adjusted due date confirmed with EC.

¹¹ Adjusted due date confirmed with EC.

context of the roles defined for data spaces as part of the [DSSC blueprint 1.0](#). This mapping helps us to define the responsibilities of the current aggregators in the data space and also allows us to start the identification of the tools and services facilitating data exchange and reuse in the data space. It creates an understanding of what is expected from data providers, data recipients and the four types of data intermediaries (connection-providing intermediary, personal data intermediary, marketplace, vocabulary provider) and we expect it will also help to create more interactions and support the collaboration of the data space participants in the future.

Communication and dissemination activities

Partner	Name of event	Activity	Location	Date
EF	Heritage journal	Paper 'Artificial Intelligence for Digital Heritage Innovation: Setting up a R&D Agenda for Europe'	Online	06/02/2024
EF	University of Twente Master in Computer Science	Invited lecture 'Europeana as a Linked Data case'	Online	13/02/2024
EF	Data Spaces Symposium	View from Cultural Heritage: Europeana	Darmstadt, Germany	12-14/03/2024
EF	CORIA (Conférence en Recherche d'Information et Applications)	Invited Keynote 'Europeana - challenges, progrès et perspectives pour service européen d'accès collections patrimoniales'	La Rochelle, France	03-04/04/2024
EF	Webinar Defining Paradata, Metadata and Data for Documenting 2D/3D Digital Cultural Heritage	Presentation 'Making the Europeana Data Model a better fit for documentation of 3D objects'	Online	08/04/2024

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

No.	Description	Measured by	Frequency	Jan 2024	Feb 2024	Mar 2024	Apr 2024
RM 1.7	Reach to EuropeanaTech community	Number of people reached per month (Mailing list, Twitter)	Quarterly	7,273	-	-	7,140

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. 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. EF will also work with the cultural heritage community to source high quality data with particular attention to 3D data, and to support their availability through the data space. (Task 2.2.)

To achieve these objectives, the Europeana DS consortium will integrate the requirements needed to implement the [EC recommendations and the Digital Europe programme](#) and will collaborate closely with the cultural heritage community, the Member States (in the framework of the CEDCHE) and the European Commission. Data governance mechanisms developed in Y1 will be further researched and 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

Data in the data space is governed 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, stronger safeguards for privacy and data protection, more and varied partners, more decentralised data systems, and opportunities for cooperation with other data spaces (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 with a focus for better representing 3D (Activity 2.1.2. and 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, APEF	White paper outlining the conditions that govern metadata in the data space completed	Completed	Feb 2024
EF, CAPG, APEF	Conditions for assigning accurate rights statements to 3D content outlined	Completed	Apr 2024
EF	Requirements for the provision of persistent and unique identifiers to the data space v1.0 developed (internal)	Completed	Apr 2024
EF	Types and characteristics of cooperation agreements required in the data space outlined (internal)	Not started	Jun 2024

EF, CAPG, APEF	Strategy for data governance maintained and updated	-	Ongoing
Activity 2.1.2. Develop and expand data governance frameworks and standards			
EF, Inception, TMO, Carare, Photocons	Extension of EDM to support 3D (V2) completed	30%	Aug 2024 ¹² (Feb 2024)
EF	Provenance mechanism in EDM are refined to accommodate new needs	30%	May 2024
Inception, TMO, Carare, Photocons, EF	Overview of standards and fields used to describe 3D delivered	60%	Jun 2024
Inception, TMO, Carare, Photocons, EF	Interoperability between EDM and models to describe 3D established	Not started	Jul 2024
Activity 2.1.3. Manage data governance frameworks and standards			
EF	Implementation plan for the enrichment policy established	Completed	Jan 2024
EF	Areas for development, gaps & opportunities of EPF services and products identified and specified using the Framework Management Template	Not started	Jul 2024
EF, DS AGG	List of metadata and content issues patterns is maintained	-	Ongoing
EF	Data Quality Committee is supported	-	Ongoing
EF	Europeana Copyright Community is supported	-	Ongoing
EF	Continuous support to the Rights Statements Consortium community (e.g. Steering Committee, Statements Working Group)	-	Ongoing
EF	Data governance stakeholder working group coordinated	-	Ongoing
EF	Europeana Licensing Framework (ELF) maintained	-	Ongoing

¹² The work on EDM will continue throughout the whole Y2 of the data space. Specifically, the two outcomes 'Mapping of national and sectoral repositories handling 3D data completed' (Apr 2024) and 'Overview of standards and fields used to describe 3D delivered' (Jun 2024) will contribute to the work on EDM. Therefore, we will report on this outcome additionally in Aug 2024.

EF	Guidelines for CHIs and aggregators updated to reflect changes in EDM, EPF and ELF	-	Ongoing
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White paper outlining the conditions that govern metadata in the data space completed - this white paper reviews the current approach to the governance of metadata in the Europeana Service Infrastructure and recommends conditions for the reuse of metadata going forward in the data space. It does so by considering the policy and legal landscape, stakeholder views and future possible changes to the data space. On that basis, it identifies various options going forward, distinguishing between the current Europeana service infrastructure (layer 1), and an 'extended' data space (layer 2). In layer 1, the reuse of metadata could either remain subject to CC0 (layer 1 - option 1), or changes could be made to enable licences or tools other than CC0 to be applied to descriptions (layer 1 - option 2). In layer 2, a minimum set of conditions that metadata should meet have been identified, but more concrete information on the architecture and 'content' of the data space is needed before these are further refined.

Conditions for assigning accurate rights statements to 3D content outlined - the data governance working group with the input of the 3D working group, identified various questions that needed clearer answers in the area of copyright and 3D. The report by Dr. Andrea Wallace answers those questions and concludes, among other aspects, that rights statements have been largely inaccurately used on 3D material, and provides a logic that enables identifying whether copyright arises on the 3D model, and choosing a correct rights statement accordingly. The report provides a baseline for the Europeana Initiative to develop guidance in this area in view of an increase of 3D models being made available in the data space.

Requirements for the provision of persistent and unique identifiers to the data space v1.0 developed (internal) - the analysis of the requirements for the provisioning of persistent identifiers resulted in the first (internal) version of the policy for persistent identifiers in the data space. This policy presents, in the form of principles, clear expectations for data partners seeking to implement and contribute (P)ID to the data space so as to guarantee stable and long lasting dissemination and reuse of the cultural heritage objects being shared in the data space.

Communication and dissemination activities

Partner	Name of event	Activity	Location	Date
EF	Managing Rights in Audiovisual Archives - Historical Archives of the EU	Presentation	Online	24/04/2024

Reporting metrics: develop and manage data governance mechanisms

No.	Description	Measured by	Frequency	Jan 2024	Feb 2024	Mar 2024	Apr 2024
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RM 2.1	Reach to Europeana Copyright community	Number of people reached per month (Mailing list, Twitter)	Quarterly	3,081	-	-	3,101
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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 into the data space. The consortium will reactivate dormant collaborations with existing aggregators to make new and updated content and metadata available to the data space. Alongside the Twin it! campaign, where Member States are invited to submit one 3D digitised heritage asset to the data space (Activity 3.1.3.), the Europeana DS consortium together with the Europeana Aggregators' Forum will actively seek CHIs which own 3D content to contribute data to the data space. (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	Separate metadata tier calculation for data enriched by Europeana implemented	Completed	Jan 2024
EF	Inventory of Europeana records impacted by selected problem patterns completed	Completed	Mar 2024

EF, DS AGG	Key elements of the prioritisation process for managing the data ingestion backlog reviewed and implemented	Completed	Apr 2024
EF	Prioritised problem patterns and data quality report improvements in the Metis Suite implemented	-	Ongoing
EF, DS AGG	Status update on usage and engagement of DS AGG with the Metis Sandbox	-	Ongoing
EF	Statistics Dashboard maintained and kept up-to-date	-	Ongoing
EF	Materials with personal or sensitive data mitigated upon request	-	Ongoing
Activity 2.2.2. Raise the quality and access to existing content and metadata			
EF, DS AGG	Europeana DS AGG annual work plans including quality objectives and/or targets per aggregator (internal) completed	Completed	Oct 2023
EF, DS AGG	Europeana DS AGG annual progress report completed	20%	Aug 2024
EF	Report on the (multilingual) coverage of the entity collection	Not started	Aug 2024
DATO	MINT based infrastructures supported	-	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	Opportunities for the collaboration of national libraries and the Europeana Initiative in the data space explored (workshop)	90%	Jul 2024
EF, DS AGG	CHIs signing up with the Europeana Initiative via the call to action in the welcome pack supported	-	Ongoing
EF, DS AGG	Actions taken and results achieved to re-engage with inactive and new partners completed	-	Ongoing
Activity 2.2.4. Aggregate 3D content			
EF	Support for the provision of 3D media resources is added	Completed	Mar 2024
TMO	Mapping of national and sectoral repositories handling 3D data completed	Completed	Apr 2024

EF	Strategy for content embedding is designed and implemented as a MVP	20%	Jul 2024
EF, CARARE, Inception, TMO, Photocons	Update on the availability of high quality 3D content available in the data space	Not started	Aug 2024
EF, CARARE, Inception, TMO, Photocons	Knowledge Base pages for 3D available and updated	-	Ongoing

Inventory of Europeana records impacted by selected problem patterns completed - in the past years we have included in the Metix Sandbox a reporting mechanism to flag when metadata shows some problem patterns that have been identified by the EuropeanaTech Data Quality Committee. To get a better idea of the impact of these problems in legacy data (as opposed to new data) we have begun an inventory of metadata records impacted by the selected patterns in the entire Europeana database. The result is a sheet that shows global statistics and enables partners to obtain dataset-level statistics as well. This triggered the DQC to begin inspecting in more detail some patterns, for which these statistics are unexpectedly low or high and will help us to refine the rules so that the resulting reporting is more meaningful and maximises the chance for providers to act on the issues observed.

Key elements of the prioritisation process for managing the data ingestion backlog reviewed and implemented - This document outlines the elements that are critical to the optimal functioning of the data supply and data demand management cycle. And through this, it addresses improvements to the process for managing the data ingestion backlog. Further, it demonstrates steps towards the implementation of a more holistic approach to process management within the Europeana Foundation. Therefore it goes further than what was originally planned and not only addresses the progress in managing the data ingestion backlog, which led to a change of the title of the outcome (now 'Key elements of the workflow for managing data supply and data demand developed').

Support for the provision of 3D media resources is added - previously, 3D records were expected to contain a link to a viewer (preferably embeddable) where the 3D model can be viewed. What we are seeing now is more and more records containing direct links to downloadable 3D content. Metis was not prepared for these links, sometimes miscategorizing them and sometimes completely ignoring them. The changes that we have made will recognise some of the more common 3D formats and provide a framework for easily adding additional support if and when needed. Metis can now extract some basic technical metadata from these links that could in the future be used downstream for things such as display and quality assessment.

Mapping of national and sectoral repositories handling 3D data completed - this report is based on a meta-analysis of surveys undertaken over the past several years which all gathered data about 3D repositories within Europe. A survey activity was also run by EF/TMO in Mar/Apr 2024 to gather additional data, especially from repositories within the Europeana/data space ecosystem, such as those run by related project consortia, aggregators and data providers. These repositories were analysed based on the provided data and how this scored against various maturity measures. The data indicated that there are many emerging and developing repositories in Europe with the aim to handle 3D data. Of those repositories which are already functional and handling 3D data they are generally at a mature stage. The amount of 3D data held by the repositories responding was a small amount, compared to e.g. the targets for the data space in 2030. The report suggests some recommendations around continuing to monitor the situation, gathering data on emerging repositories and those we have not yet heard from, with a view to inform our supply and demand work in the data space, as well as being able to help future data providers store their data.

Reporting metrics: data acquisition and data improvements

No.	Description	Measured by	Frequency	Target Y2	Jan 2024	Feb 2024	Mar 2024	Apr 2024
KPI 2.1	High quality data	Number of Tier 2+ material in Tier A+ (excl. content Tier 0)	Monthly	33.0 million	32.2 million	32.3 million	32.3 million	32.5 million
KPI 2.2	High quality content	Percentage of Tier 2 + material (excl. content Tier 0)	Monthly	>75%	74.12%	74.08%	73.92%	74.2%
KPI 2.3	High quality and reusable content	Percentage of Tier 3+ material (excl. content Tier 0)	Monthly	>60%	56.94%	56.69%	56.63%	56.66%
KPI 2.4	High quality metadata (search, browse and explore)	Percentage of Tier A+ material (excl. content Tier 0)	Monthly	>80%	74.67%	74.84%	74.57%	74.89%
KPI 2.5	Broken links in the repository	Number of broken links (out of total, incl. content Tier 0)	Quarterly ¹³	<1%	-	-	1.22%	-

¹³ Number of broken links are measured quarterly (Sep, Dec, Mar, Jun).

KPI 2.6	Non-EPF compliant content (Tier 0)	Percentage of Tier 0 content	Quarterly	<8%	7.18%	7.19%	7.16%	6.19%
RM 2.2	Updates to datasets	Total number of newly created and updated datasets per month (out of total)	Monthly	-	17	34	26	32
RM 2.3	Updates to records	Total number of newly created and updated records per month (out of total)	Monthly	-	1,013,448	600,189	252,296	770,317
RM 2.4	New CHIs providing data to the data space	Total number of new CHIs (cumulative)	Annually	-	154 (Aug 2023)	-	-	Exp. Aug 2024
RM 2.5	New content on the Europeana website	Total number of new datasets published (cumulative)	Quarterly	-	54 ¹⁴	-	-	107
RM 2.6	Records in the data repository	Total number of records (excl. content tier 0)	Quarterly	-	57.7 million	-	-	57.7 million
RM 2.7	Records in the data repository by accredited aggregators	Total number of records (excl. content tier 0)	Quarterly	-	43.7 million	-	-	43.8 million

¹⁴ Note there was an error in reporting in PM. Periodic report M12, the number was stated as cumulative for Y1 and Y2. The metric is now updated to show progress for Y2 only.

RM 2.8	3D content available in Europeana (items)	Total number of 3D items published (Tier 2+ and Tier A+ material)	Quarterly	-	3,363 ¹⁵	-	-	3,635
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	-	50	-	-	50
RM 2.10	Coverage of entity collection (items)	Total number of items linked to (at least) one entity collection	Quarterly	-	33.7 million	-	-	37.8 million
RM 2.11	Coverage of entity collection (collections)	Total number of entity collections with items	Quarterly	-	27,211	-	-	52,310
RM 2.12	Number of CHIs that signed up to receive their usage dashboard as part of the Welcome Pack	Total number of providing institutions	Quarterly	New	17	-	-	52

Between Feb 2024 - Apr 2024, we updated 92 datasets (newly created or updated) and over 1.6 million records. The updates contributed to an increase in data quality and new data.

In Dec 2023 we recorded a higher % (2.2%) of broken links in the data repository as result of a refined approach to identify datasets with broken links. In Mar 2024, we recorded 1.22% of broken links (close to our target of <1%).

In the reporting period, we have included place and century pages to the reporting metric which resulted in an increase in number of items linked to (at least) one entity collection (12.2% increase) and an increase in number of entity collections with items (92.2%).

¹⁵ The decrease of 3D items is due to an issue updating a dataset that contains more than 1,000 3D items. In trying to update the dataset, a large part of the dataset was depublished, including the 3D items. Work is underway to fix it (still in progress Apr 2024).

Task 2.3. Automated approaches towards data quality

Partners: EF, DATO

In this task, EF, DATO and EFHA will continue work on automated approaches to address data quality issues at scale, especially employing AI technologies. EF and DATO will continue to improve the data enrichment process to create accurate links between cultural heritage item descriptions and contextual resources, especially addressing issues caused by ambiguous metadata values. EFHA and EF will work on solutions that can be applied to create more complete metadata and enhance the quality of content.

We will continue to promote usage of AI across the data space, sharing the outcome of the efforts in this activity (dataset, software) on relevant platforms, including the AI4Culture one whenever appropriate.

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, EFHA, DATO	Plan for underlying infrastructure (hardware and services) to be employed for AI efforts in the data space completed	Completed	Mar 2024 ¹⁶ (Feb 2024)
EF	Evaluation methodology of (AI) enrichment results (V2) published	Completed	Feb 2024
EF, DATO	Enrichment service is improved	Not started	Aug 2024
EFHA, EF	Improved titles and descriptions for EFHA records produced and evaluated	95%	Aug 2024
EFHA, EF	Enhancement of EFHA images completed	95%	Aug 2024
EF	Automated approaches to address data quality issues at scale, especially AI technologies, investigated and prepared for deployment	-	Ongoing

Plan for underlying infrastructure (hardware and services) to be employed for AI efforts in the data space completed - we thought to launch a reflection in order to assess what is needed to better run AI-based projects and establish a plan. However, based on an inventory of the ongoing AI-related work in the data space and the infrastructure and service they use, we did not identify urgent and strong arguments for centralised coordination or setting up of an infrastructure for AI at this stage (such as shared servers and services). Our core needs seem rather easy to provision and do not yet require coordination. We have identified potential needs in the future (e.g. on

¹⁶ Adjusted due date confirmed with EC.

information sharing, training and supporting software), but these would need to be confirmed (for instance as part of ongoing [AI4Culture project](#)) while we make progress on our AI efforts.

Evaluation methodology of (AI) enrichment results (V2) published - the [evaluation methodology](#) helps us to assess the quality of all enrichments that are contributed to the data space - notably, we require data space projects to document and evaluate their enrichment processes before they submit enrichments to Europeana. In this period, we have made some adjustments to the methodology, based on the feedback received since the first version was published. As these adjustments were relatively minor, we decided to number this new version as v1.1.

Work package 3: Capacity building and fostering reuse

The overarching objectives of WP3 are to build capacity and increase collaboration among professionals working with digital cultural heritage. Supporting these professionals will enable more high quality digital cultural heritage to be available in the data space, which, in turn, enables reuse in a wide range of scenarios including education, research and developer communities, while we continue to explore closer collaboration with the media and tourism data spaces.

Working with the [Europeana Network Association \(ENA\)](#) and the [Europeana Aggregators' Forum \(EAF\)](#), we will develop training and event programmes that empower members, and cultural heritage professionals at large, to learn and use the tools and services offered in the data space, and become agents of change in their organisations and in the sector.

These efforts will be underpinned by a solid user and market research programme, continued secretariat support that enables the ENA communities to thrive, and an outreach and dissemination strategy to strengthen the position of the data space.

Task 3.1. Enhance cooperation throughout the data space

Partners: EF, DFF, NISV

Under this task the Europeana DS consortium aims to fulfil the promise of the data space to enable cross border cooperation and collaboration by supporting and developing activities of the data space, especially by leveraging synergies of the Europeana Network Association (ENA) and the Europeana Aggregators' Forum (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	Improved model of cooperation across Europeana Initiative implemented	Completed	Jan 2024
EF	Model of cooperation (including thematic programme of activity) published (V2)	Completed	Feb 2024

EF	Mapping of products and services offered to CHIs and their professionals (V1) completed	50%	Jun 2024
EF	Evaluation of model of cooperation (V2) completed	Not started	Jul 2024
EF, APEF, BL	Country Group activities pilot coordinated across Europeana Initiative	60%	Aug 2024
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 2023
EF	ENA Governance renewed (MC election and MB appointment)	Completed	Jan 2024
EF	Annual reporting for ENA and EAF activities published	Completed	Feb 2024
EF, APEF, BL	Recommendations for enhanced accreditation scheme completed	10%	Jun 2024
EF, APEF, BL	Two EAF outreach events organised	60%	Jul 2024
EF	Metrics framework for reporting on community engagement extended	15%	Jul 2024
EF	Recommendations for an enhanced community management scheme completed ¹⁷	10%	Aug 2024
EF	ENA and EAF policy and process managed and updated	-	Ongoing
EF	New aggregators reviewed for accreditation	-	Ongoing
EF	General management support for ENA and EAF (incl. ENA MB and MC, EAF Steering Group, Task Forces, Working Groups and communities) provided	-	Ongoing
Activity 3.1.3. Support national digital strategies to increase high quality data			
EF	Swedish Presidency Europeana activity evaluated and reported	Completed	Sep 2023
EF	Spanish Presidency Europeana activity organised	Completed	Oct 2023
EF	Requirements for a policy-making dashboard/enumerate observatory delivered	Completed	Feb 2024
EF	Spanish Presidency Europeana activity evaluated and reported	Completed	Mar 2024

¹⁷ Adjusted scope to 'Approach to managing communities across the Europeana Initiative mapped and evaluated'.

EF	Belgian Presidency Europeana activity ¹⁸ organised	60%	Jun 2024
EF	Member States targets page implemented in the Statistics Dashboard	30%	Jun 2024
EF	Member States engagement strategy completed	30%	Aug 2024
EF	Mechanisms to engage and inform Member States developed and implemented	-	Ongoing

Model of cooperation (including thematic programme of activity) published (V2) - [the Model of Cooperation](#) is documented and published to support raising awareness of the efforts made to enhance cooperation in the development and implementation of the data space. The enhanced model was presented to the joint EAF and ENA meeting held Mar 2024.

Annual reporting for ENA and EAF activities published - the [2023 ENA annual report](#) and the [2023 EAF activity report](#) summarise the key activities and achievements of the ENA and the EAF and their contributions to the data space over 2023.

Requirements for a policy-making dashboard/enumerate observatory delivered - this brief put forward a proposal to develop a dashboard containing data about, related to and useful for the Member States and other key stakeholders in the data space. A key function of the proposed dashboard - and the proposed Member States page within the existing Europeana Statistics Dashboard - is to help the Member States progress towards the targets set in the European Commission Recommendation 2021 on a common European data space for cultural heritage. It will do this by reporting on the data each Member State currently has in Europeana.eu and providing an entry point for each country showcasing the targets and the progress made so far. The page in the Europeana Statistics Dashboard will be used to test the broader requirements for a dashboard showcasing additional data about the cultural sector throughout Europe, such as is currently included in the ENUMERATE dataset and observatory and which is of interest to Member States and European policy makers.

Spanish Presidency Europeana activity evaluated and reported - the Spanish Presidency Europeana conference in October 2023, 'Accelerating 3D in the common European data space for cultural heritage: Building Capacity for 3D' supported the goals of the 2021 European Commission Recommendation on a common European data space for cultural heritage in the area of 3D digitisation. The event promoted 3D capacity building for the Member States to step-up 3D digitisation efforts and make more 3D content available through Europeana.eu and the data space. The event was also held in the context of Twin it! campaign. It highlighted some of the best practices for utilising 3D technologies. [The report](#) shares insights, learnings and resources around 3D and digital cultural heritage.

¹⁸ Final event of Twin it! campaign.

Communication and dissemination activities

Partner	Name of event	Activity	Location	Date
EF	Empowering the Cultural and Creative Sectors in Data-Driven Audience Development	Speaker at event	Ghent, Belgium	07-09/02/2024
EF	Tiedon tähden – Knowledge first conference	Speaker at event	Helsinki, Finland	14/03/2024

Reporting metrics: enhance cooperation throughout the data space

No.	Description	Measured by	Frequency	Target Y2	Jan 2024	Feb 2024	Mar 2024	Apr 2024
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%	66.80% (Jul 2023)	-	-	Exp. Jun 2024
KPI 3.2	Growth of Europeana Network Association members	Number of members in the ENA	Quarterly	5,000	4,548	-	-	4,655
RM 3.1	Participants engaged in Europeana Initiative activities	Number of participants contributing time and expertise to activities (such as governance, TFs, WGs and CTAs) (cumulative)	Quarterly	-	450	-	-	456
RM 3.2	Task forces in the Europeana Initiative	Number of active task forces per month (ENA, EAF, Initiative)	Quarterly	-	6	-	-	5
RM 3.6	Satisfaction with the Europeana EU presidency	Total % of 'satisfied' and 'completely satisfied' responses on a	Bi-annually	-	88%	-	-	Exp. Jun 2024

	activities	5-point Likert scale						
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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 collaborate with other European data spaces, including those of 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	Report on 3D (including usage scenarios and best practices)	Completed	Mar 2024
EF	Report on user needs and requirements of cultural heritage professionals to inform product and service development completed	30%	Jun 2024
EF	Qualitative and quantitative (primary and secondary/desk) research among cultural heritage professionals undertaken and/or supported	-	Ongoing
Activity 3.2.2. Perform user and market research to foster reuse			
EF	Two new areas with reuse potential identified	Completed	Mar 2024
EF	Audience profiles created (for identified two new audiences)	Completed	Mar 2024
EF	Audience profiles validated (for identified two new audiences)	20%	May 2024
EF	Pilot application in one new identified area of reuse potential completed	20%	Jul 2024
EF	Report on areas of potential reuse, research and results achieved towards new and established audiences (incl. recommendations for product and service developments)	10%	Aug 2024
EF	Audiences interested in reuse identified and reached	-	Ongoing

Report on 3D (including usage scenarios and best practices) - this report explores 3D use cases and current practices from the cultural sector - examining these from the perspective of several key

audience groups: research professionals, CHI professionals, CCI professionals (especially video game developers), educational professionals and tourism professionals. The report aims to inspire CHI's to engage in more 3D digitisation based on the benefits such 3D digital objects will bring to the CHI and the wider population. In addition the report contains a number of recommendations for Europeana Initiative to include more 3D digital objects in editorial, and continue with high profile events such as Twin It! and to introduce 3D experiences as a form of editorial.

Two new areas with reuse potential identified - the two new areas identified are tourism and independent publishers or networks working with creative writers. The focus for the new audiences is on a B2B (business-to-business) approach.

Audience profiles created (for identified two new audiences)- we completed audience profiles for the two new areas of reuse: creative writers¹⁹ and tourism. These new audience profiles have been created in collaboration with stakeholders from those audience groups, with the goal of identifying needs and opportunities for Europeana and the data space to promote reuse to new users. The audience profiles will be validated, and a reuse pilot will be set up to test how Europeana and the data space can appeal to these new user groups. The new audience profiles are mainly focused on a business-to-business model to reach as many people within those audiences as possible. As a next step we will validate the new audience profiles by contacting several stakeholders identified by market research to verify if their challenges and goals are reflected in our profiles.

Reporting metrics: identify needs of user groups

No.	Description	Measured by	Frequency	Target Y2	Jan 2024	Feb 2024	Mar 2024	Apr 2024
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%	79.5% (Aug 2023)	-	-	Exp. Aug 2024
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%	76% (Aug 2023)	-	-	Exp. Aug 2024

¹⁹ As the focus for the creative writer audience changed from B2C (business to consumer) to B2B (business-to-business) approach in Apr 2024, this audience profile will be updated.

Task 3.3. Build awareness and engagement

Partners: EF

Under this task, EF will build awareness and engagement of data space activities among our professional audiences. We will position the data space more prominently in our communications and marketing activities, as we develop and strengthen a new data space brand. We will 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).

Overview of outcomes: build awareness and engagement

Partner	Outcomes	Progress	Due date
Activity 3.3.1. Ensure strategic approach to marketing and communications			
EF	Landing page for the common European data space for cultural heritage published	Completed	Feb 2024 ²⁰ (Jan 2024)
EF	Approaches to social media revised (internal)	Completed	Feb 2024
EF	Start of promotional campaign around the landing page for the data space	Completed	Mar 2024
EF	Second iteration of the welcome pack, onboarding for new providing institutions improved	20%	Jul 2024
EF	Pro editorials published (e.g. Pro News and themes)	-	Ongoing
EF	Activities promoted (Newsletters, Twitter, LinkedIn)	-	Ongoing
Activity 3.3.2. Develop event programming			
EF	Europeana Annual Conference organised - Europeana Tech	Completed	Oct 2023
EF	Learnings and recommendations from Impact Assessment implemented - Annually	60%	Jun 2024
EF	Events programme delivered and improved	-	Ongoing
EF	Activities of the international Events Manager Group coordinated	-	Ongoing
Activity 3.3.3. Engage professional audiences			
EF	Strategy for platforms for professional audiences completed (internal)	Completed	Feb 2024
EF	Europeana Pro strategy delivered (internal)	Completed	Feb 2024

²⁰ Adjusted due date confirmed with EC.

EF	Europeana Pro user survey completed	Completed	Mar 2024
EF	CRM workflows extended	10%	Jun 2024
EF	Tools to enhance community collaboration implemented	20%	Aug 2024
EF	Platforms for professional audiences maintained (technical infrastructure, user journeys, accessibility)	-	Ongoing

Landing page for the common European data space for cultural heritage published - in Mar 2024, we released this [landing page](#) to promote the data space to our stakeholders and to other data spaces (see also outcome below: Start of promotional campaign around the landing page for the data space).

Approaches to social media revised (internal) - this document gives a comprehensive overview of the social media landscape and explores its impact on our activities on social media. It provides recommendations to ensure that we remain relevant and easily discoverable to increase reach and engagement, achieve our social media KPIs and support other organisational and data space objectives. We are now working to deliver and test the recommendations, and the results of these will be evaluated and analysed to inform future activities.

Start of promotional campaign around the [landing page for the data space](#) - based on feedback received from colleagues at the European Commission the agreed key audience for the landing page is stakeholders (listed below). As such, beginning in April we launched targeted and tactical communications activities towards key stakeholders. This included a positioning [news article on Europeana Pro News](#), an update to key data space web resources (including the data space essentials and FAQ), and targeted emails to members of the data space ecosystem (consortium partners, data space supporting projects, Data Space Support Centre), EU contacts, heritage networks and initiatives (ECHOES, Heritage Hub, 4CH, KIC etc), the CEDCHE expert group, EF Advisory board and Supervisory board, ENA and EAF members, the EI Country Groups and European Heritage Tribune. We also created a short comms pack to help stakeholders share with their audiences as relevant. Whilst this activity was targeted to a smaller group, we've seen over 1,500 visits to the data space landing page in one month following the launch of the promotional activity on 30 April.

Strategy for platforms for professional audiences completed (internal) - this strategy has delivered an overview of platforms currently owned or managed or regularly contributed to by the Europeana Initiative, and their purpose; provided recommendations for good practice around how the Initiative approaches platforms, including how to keep user journeys clear and consistent; and provides EF colleagues who create content with guidance about which platform it should be added on, and what to consider when using a new platform. In particular, the strategy focuses on content and editorial approaches. Its ongoing implementation will support clear user journeys between platforms in the data space, as well as consistency in editorial processes, which is particularly relevant as the data space landing page has been launched.

Europeana Pro strategy delivered (internal) - at the beginning of each year we evaluate and update a strategy to shape the Europeana Foundation’s approach to developing, evaluating and managing Pro. This aims to align organisational and data space objectives with our work on Europeana Pro. It maps objectives with specific KPIs for Pro, incorporates a content strategy, details development work that will take place in the coming year, and aims to ensure that all work taken across the site, be it related to user journeys, content, or development, is consistent with our strategy and objectives. It has been written to align with our DS. Communications and Dissemination plan M11/M23²¹ and our approaches to social media document, to ensure a consistent approach to our communications and channels.

Europeana Pro user survey completed - in 2024 we have made some significant changes to the Pro user survey, based on 2023 analysis and recommendations, and to ensure we connect this work with other strands. We now keep this survey running all year round to reduce the risk of skewed data, and the survey now pops up when visitors leave Pro to allow more time to explore the site. In addition, questions have been amended to align with standardised questions created as part of our Marketing Intelligence activities, and results will be used to help inform the outcome ‘Report on user needs and requirements of cultural heritage professionals to inform product and service development completed (3.2.1)’, due Jun 2024. We totalled up responses and analysed initial results (251 responses) at the end of Mar 2024. The survey had 6 questions and had a high completion rate (62%). Some of the headline learnings we saw, that we will investigate further and/or apply to other activities include:

- Our audiences have multiple motivations, and for the first time the most popular response was not ‘professional development’, but was ‘I’m looking for information about digital collections management’ (16%). This is interesting when considered alongside the interest in digital curation (see below). The data space ranked second in terms of motivations to explore Pro, and as a result we have made content on the data space, and the data space landing page more visible.
- Topics our audiences are most interested in include: AI, Storytelling, Digital Curation, digital preservation, digitising, cataloguing metadata and emerging techniques such as photogrammetry, laser scanning and 3D modelling. These broadly reflect interests given when completing the ENA survey in 2023, and provide justification for our focus in areas such as AI, 3D and storytelling, and potential for more content in areas around digital collections management.

Reporting metrics: build awareness and engagement

No.	Description	Measured by	Frequency	Target Y2	Jan 2024	Feb 2024	Mar 2024	Apr 2024
KPI 3.3	Satisfaction rate for Europeana	Total % of ‘satisfied’ and ‘completely	Annually	75%	78% (Jul 2023)	-	-	Exp. Jul 2023

²¹ Available on the [data space project page](#) (see document section).

	Pro	satisfied' responses on a 5-point Likert scale						
RM 3.9	Europeana Initiative events	Number of events held by Europeana DS consortium, EAF, and ENA (cumulative)	Quarterly	-	20	-	-	41
RM 3.10	Reach of Europeana Initiative events	Number of participants (cumulative)	Quarterly	-	1,781	-	-	2,588
RM 3.11	Satisfaction rate for Europeana Initiative events	Total % of 'satisfied' and 'completely satisfied' responses on a 5-point Likert scale (cumulative)	Quarterly	-	90	-	-	92
RM 3.7	Traffic to Europeana Pro	Number of visits per month	Monthly	-	22,169	22,636	24,945	21,839 ²²
RM 3.8	Traffic to Confluence	Total number of views to key landing pages (Knowledge Base and Impact Playbook) (cumulative)	Annually	-	8,832 (Aug 2023)	-	-	Exp. Aug 2024

In the period between Feb 2024 - Apr 2024, we organised in total 21 events²³ reaching 807 people with a very high user satisfaction for events of 92%.

Overview of events

Partner	Name of event	Activity	Location	Date
Events organised				

²² Both in Mar/Apr 2024 Matomo was down for 1-2 days (actual figure would have been circa 26,000/Mar 2024 and 23,000/Apr 2024)

²³ Additional events are added for the previous reporting period (Nov 2023 - Jan 2024) that were missed to be reported.

EFHA (Europeana Fashion)	Digital Fashion & Fashion Heritage	Presentation	Istituto Marangoni, London	28/11/2023
NISV (EU screen)	EUscreen annual symposium	Presentation	Athens, Greece	4-5/12/2023
NISV (EU screen)	Information Network Meetings Netherlands	Presentation	Netherlands Institute for Sound & Vision	08/02/2024
EF (Twin it!)	Twin it café on 3D Material Ingestion	Café	Online	16/02/2024
BL (Europeana Sounds)	Collections as Data: collaborating across data spaces for cultural heritage and open science	Presentation	KBR, Brussels	19-20/02/2024
EF (Copyright Community)	Copyright office hours on collective rights management	Café	Online	20/02/2024
EF (DSF committee)	Creative Online Residency 2024 - Information Session	Presentation	Online	21/02/2024
CARARE	Unlocking 3D Cultural Heritage: FAIR and more	Webinar	Online	21/02/2024
EF (Impact Community)	Europeana Impact Community Café: building peace and safeguarding heritage through digitisation	Café	Online	14/03/2024
EAF	Aggregators' Forum General Assembly	GA	Online	18/03/2024
NISV,EF,MCA	NEMO	Meeting	On-site	20/03/2024
EF (Twin it!)	Twin It Café 'Preparing for the Closing high-level event'	Cafe	Online	22/03/2024
De-Bias Project	Stereotypen en bias in culturele collecties uit het koloniale tijdperk: strategieën	Webinar	Online	22/03/2024
EAF	Aggregators' Forum Spring	Meeting	Hybrid	25-26/03/2024
ENA	MC meeting Spring	Meeting	Hybrid	26-27/03/2024
MCA (MUSEU)	ANCHISE Forum	Presentation	Brussels	03/04/2024
EFHA (Europeana Fashion)	Fashion Digital Memories	Presentation	Venice, IUAV	12/04/2024
D-Bias	DE-BIAS: Diskriminierende Sprache in Archivdaten erkennen und beheben - Herausforderungen und Chancen	Webinar	Online	17/04/2024

MCA (MUSEU)	Balkan Museum Network (BNM) conference, Safeguarding Culturale Heritage in the time of Crisis	Presentation	Montenegro	18-19/04/2024
Research	New Professionals' Twin Talks	Webinar	Online	24/04/2024
EFHA (Europeana Fashion)	Fashion in the Digital	Presentation	London, LCF	25/04/2024

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	Europeana Capacity Building Framework (V4) developed (internal)	Completed	Feb 2024
EF	Impact pathway for Training Programme revised	Not started	Jul 2024 ²⁴ (Jun 2024)
EF	Impact Model V1 for the Europeana Initiative developed	45%	Jul 2024
EF, DS AGG	Capacity Building Working Group supported	-	Ongoing
EF	Europeana Impact community supported	-	Ongoing
EF	Europeana Impact Framework (EIF) and Europeana Capacity Building Framework (ECBF) maintained and improved	-	Ongoing
Activity 3.4.2. Manage and develop mechanisms for the training programme			
EF	Training Platform piloted and evaluated	Completed	Feb 2024
EF, CAPG	A pilot Academy completed and evaluated	25%	Jun 2024
EF, CAPG, DS AGG	Training programme developed and prioritised	-	Ongoing

²⁴ Adjusted due date confirmed with EC.

Europeana Capacity Building Framework (ECBF, V4) developed (internal) - this fourth version of the Capacity Building Framework updates the core elements and the supporting services and products for the implementation of the Framework. These updates have been made as a result of the progress booked in 2023 and they also reflect several, but not all, changes associated with the deployment of the data space for cultural heritage.

[Training Platform](#) piloted and evaluated - the pilot of the Training Platform mainly answered the question ‘can we use this platform’ from two perspectives. The first perspective was to check if the platform can be used at all from a requirements perspective. The assessment towards the compliance with the requirements and objectives of a training programme (developed internally in 2023) and other requirements (for example: GDPR) took place during this pilot period and resulted in a positive outcome. Secondly the user experience of the platform has been evaluated, from the perspective of the end user, an instructor and administrator. Existing training resources were adapted and published to the platform, and users were observed while making use of the platform. This also resulted in positive feedback and outcomes.

A pilot Academy completed and evaluated (intermediate update) - the Europeana Academy will be launched in summer with a series of training [events](#). Each event will be evaluated and contribute to the overall evaluation of the pilot.

Reporting metrics: develop capacity building as a service

No.	Description	Measured by	Frequency	Jan 2024	Feb 2024	Mar 2024	Apr 2024
RM 3.12	Reach to Europeana Impact community	Number of people reached per month (Newsletter, mailing list, LinkedIn)	Quarterly	2,923	-	-	3,000

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, AIT Graz	IIIF guidelines and training resources for image conversion and manifest creation delivered	70%	Jun 2024
EF, DEN	DEN Leadership programme Cohort completed and evaluated	Not started	Jul 2024
EF, TMO, INCEPTION, DS AGG	Training for the provision and reuse of high quality data delivered and published online	-	Ongoing
EF	Inventory of existing training (and other capacity building resources) maintained and updated	-	Ongoing
Activity 3.5.2. Support the transfer of knowledge between professionals			
EF	Technical conference to train and inform Spanish CHIs on the flow of data from them to Hispana, and from Hispana to Europeana	Completed	Mar 2024
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
EF, DS AGG	Knowledge transfer supported (incl. one-to-one support and helpdesk for CHIs, peer-to-peer support between aggregators and experts)	-	Ongoing
EF	Europeana Communicators Community supported	-	Ongoing
EF	Europeana Climate Action Community supported	-	Ongoing

Technical conference to train and inform Spanish CHIs on the flow of data from them to Hispana, and from Hispana to Europeana - EF was invited to participate and speak at a technical conference addressed to all data partners of the Spanish national aggregator (Hispana), organised by the Ministry of Culture in Madrid (6-7 March 2024). The data partners learned about the functioning of the entire aggregation pipeline, learned about the processes and tools involved, heard from technical partners how they help in the process and got a complete overview of the EF contribution to the process, from data ingestion to audience engagement. The conference was for a technical audience with a lot of practical elements on the agenda. It was well attended (>100

participants) and not only helped all participants to get a better understanding of how aggregation works and who are the key players; it also was a great learning experience for us to see how aggregation works in Spain and who are the partners involved. It answered a lot of questions and clarified also misunderstandings that we had about Hispana and they had about Europeana and thus made a huge contribution to improved relationships.

In the period between Feb 2024 - Apr 2024, we organised in total two training sessions reaching 234 people which resulted in a cumulative high user satisfaction for training of 87%.

Overview of training

Partner	Name of event	Activity	Location	Date
Training organised				
EF	A workflow to publish Collections as Data - training workshop	Training workshop	Online	13/02/2024
EF	GIF-making workshop: women's history	Training workshop	Online	08/03/2024

Reporting metrics: facilitate the provision of high quality data

No.	Description	Measured by	Frequency	Jan 2024	Feb 2024	Mar 2024	Apr 2024
RM 3.29	Europeana Initiative training	Number of training held by Europeana DS consortium, EAF, and ENA (cumulative)	Quarterly	8	-	-	10
RM 3.13	Reach of Europeana Initiative training	Number of participants (cumulative)	Quarterly	350	-	-	584
RM 3.14	Satisfaction rate for Europeana Initiative training	Total % of 'satisfied' and 'completely satisfied' responses on a 5-point Likert scale (cumulative)	Quarterly	87	-	-	87
RM 3.30	Europeana Initiative enables knowledge transfer	% of surveyed participants reporting that the activity helps them stay up to date with best practices and new trends	Bi-annually	84	-	-	77

RM 3.31	Europeana Initiative delivers practical knowledge	% of surveyed participants reporting that the activity enables them to learn knowledge, skills and information they can use in their job	Bi-annually	90	-	-	89
RM 3.15	Reach to Europeana Communicators community	Number of people reached per month (Newsletter, LinkedIn, mailing list)	Quarterly	3,199	-	-	3,244
RM 3.16	Reach to Europeana Climate Action community	Number of people reached per month (Basecamp, mailing list)	Quarterly	491	-	-	514
RM 3.17	CHIs supported by DS AGG	Total number of CHIs supported by individual consultation (cumulative)	Quarterly	72	-	-	88
RM 3.18	Coverage of CHIs supported by DS AGG	Total number of countries that received support by individual consultation (cumulative)	Quarterly	20	-	-	25
RM 3.19	Outreach to CHIs	Total number of new CHIs collaborating with DS AGG (cumulative)	Quarterly	17	-	-	22

Task 3.6. Facilitate the reuse of high quality data

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

Based on preliminary user research and secondary data gleaned over the past years, we know there are audiences who consistently use and reuse digital cultural heritage, for example, professionals in cultural heritage; education (primary, secondary, and tertiary) professionals; researchers and students; and developer communities and API customers. We will also investigate potential new use cases for reuse in other sectors (Media, Tourism, Creative Industries) connected to other data spaces (Task 3.2).

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.).

Overview of outcomes: facilitate the reuse of high quality data

Partner	Outcomes	Progress	Due date
Activity 3.6.1. Engage with educational communities			
EuroClio	Historiana online self-paced course launched	Completed	Nov 2023
EF	Annual Open Education Week: contribution added	Completed	Mar 2024
EF	Built with Bits 3 organised	Completed	Mar 2024
EuroClio	'Train the trainer event' organised	Completed	Apr 2024
EF	All Digital Week campaign: contribution added	80%	May 2024
EUN	Europeana Education competition organised	90%	May 2024
EUN	Third and fourth language version (tbc) of the updated Digital Education with Cultural Heritage MOOC completed	80%	Jun 2024
EUN	EUN national training/outreach activities organised (10 activities)	75%	Aug 2024
EuroClio DS AGG	10 New learning materials and 15 new translations of existent content published on Historiana	40%	Aug 2024
EUN	100 stories of implementation to upload on the Teaching with Europeana blog and 500 microstories of reuse	80%	Aug 2024
EuroClio	National trainings organised (3 trainings)	70%	Aug 2024
EF	Blogs and social media posts (LinkedIn, Facebook, Twitter) published	-	Ongoing
EF	Europeana Education community supported	-	Ongoing
Activity 3.6.2. Engage with academic and research communities			
DARIAH	Training resources for academic and research data users published on the SSHOC Marketplace v.2	60%	Aug 2024
DARIAH	Training course on 'Using Europeana APIs in Research and Higher Education' for DARIAH Campus developed	40%	Aug 2024
EF	Research on digital cultural heritage as an emerging university subject published	70%	Aug 2024
EF	Update on use of "Collection as data" workflow	Not started	Aug 2024
EF	Europeana Research community and Research Advisory Board supported	-	Ongoing
EF	Liaison with other academic research and cultural communities developed and maintained (LIBER, GLAMLabs)	-	Ongoing

EF, DARIAH	Outreach events for academic and research communities (co)organised or contributed to	-	Ongoing
Activity 3.6.3. Engage with the developer communities and API customers			
EF	API outreach strategy updated	Completed	Feb 2024
EF	Landing page for onboarding API users completed	Completed	Jun 2024
EF	Capacity building resources for API users developed	80%	Aug 2024
EF	API documentation maintained and updated	-	Ongoing
EF	API related developments promoted and communicated to users (incl. changes to Europeana API products and services, new or updated reuse projects)	-	Ongoing
EF	Europeana API services and capacity building resources presented at relevant events	-	Ongoing

Annual Open Education Week: contribution added - we contributed educational resources to the worldwide campaign [Open Education Week](#) (Mar 2024). Every year, OE Global hosts a week-long global event to raise awareness, showcase initiatives, and celebrate the impact of open education on teaching and learning worldwide.

Built with Bits 3 organised - the third instalment of Built With Bits, in collaboration with the Ministry of Culture of Spain and AIDI, aimed to bring students, teachers and cultural heritage professionals closer to each other. Built with Bits 3 focused on capacity building for educators, students and CHI professionals, by giving them tools and resources to work in new virtual worlds, helping them build the new Web 4.0. With 12 selected projects pushing through to the Built with Bits Finals, more than 200 educators, students and cultural heritage professionals were reached with this initiative. New multilingual educational resources were created: 9 learning pills were developed to teach participants to use platforms like Mozilla Hubs, Roblox, Spatial.io, Apero and Minecraft. These pills were translated into Spanish. Each of the selected projects co-created their virtual museum spaces with local public institutions: municipalities, museums and/or schools, as well as collaborating with interested local citizens. This edition of Built with Bits has resulted in sustainable learning resources for the cultural heritage sector in preparation of Web 4.0, it implemented important elements of the New European Bauhaus in its capacity building, and utilised connections to several external platforms that can be seen as crucial links in the efforts to decentralise the data space. The final event, where every project will present their results, will be held on May 27th, 2024.

'Train the trainer event' organised - the train the trainer event was developed to teach interested history education professionals and cultural heritage institute professionals to create high-quality e-learning resources on Historiana, specifically to use source collections in education, and create accompanying partner pages. It was designed for people who were already familiar with the use

of the Historiana platform. 13 participants joined, and learned how to engage with the managing content on a conceptual level with concrete educational outcomes in mind when working with limited time and an overwhelming amount of resources. Nevertheless, some participants who attended never encountered Historiana before, and yet they reported the content to be helpful, prompting them to curate their own sources on the platform.

[API outreach strategy updated](#) - the API Engagement Strategy document was first set up in 2020 to formulate a more long-term vision for API engagement and outreach activities. This strategy was updated in 2022, and is now updated in 2024. We plan to keep updating this strategy every two new years to refresh our vision based on learnings from the past years and knowledge about the future of the data space. This strategy update is meant to inform forthcoming implementation plans beyond Y2 to ensure a robust data space. For the coming years, the main strategic goals of API outreach will be:

- Keeping the API documentation as closely up to date with the newest releases as possible.
- Providing developed capacity-building resources to any partners that would like to build platforms or apps as part of the data space
- Focusing on converting potential partners into full collaborative partners that create integrations using the Europeana APIs.
- Closely working with other audience outreach staff and external partners to reach diverse audiences with the API service offer

Landing page for onboarding API users completed - EF has developed an [API landing page](#) where several audiences can start their user journey in learning more about our API and other data provision services. This work is part of our larger push to provide several avenues for participating in the data space by connecting platforms and services to Europeana through our API suite. The landing page links to capacity building and training resources, documentation pages, demo playgrounds and FAQs. Several more landing pages for different audiences such as Education and Research are planned to be developed in the coming months.

Communication and dissemination activities

Partner	Name of event	Activity	Location	Date
Crhacklab4Foligno	CREA Cultura Festival	Capacity building session teaching 30+ educators and students how to use Europeana's APIs for creative cultural heritage projects	Foligno, Italy	20-22/03/2024
EF/DARIAH	A workflow to publish Collections as Data - Training workshop	A workshop to train professionals to use the Collections as Data workflow and test it to refine v.2 due by August 2024	Online	13/02/2024
EF	Collections as Data: Collaborating across data spaces	An event co-organised with KBR to bring European national libraries closer to the data space for cultural	KBR Royal Library of Belgium,	19/02/2024

		heritage and align efforts around the Collections as Data principles and Open Science.	Brussels	
EF	New Professionals' Twin Talks	A webinar with and for new professionals focusing on digital cultural heritage in their career paths both in academia and cultural heritage. It was one of the outcomes planned with the first internship for New Professionals.	Online	24/04/2024

Reporting metrics: facilitate the reuse of high quality data

No.	Description	Measured by	Frequency	Target Y2	Jan 2024	Feb 2024	Mar 2024	Apr 2024
KPI 3.6	Educators reached in national training events ²⁵	Total number of educators (cumulative)	Bi-annually	1,000	1,638 (Aug 2023)	-	-	Exp. Aug 2024
KPI 3.7	Satisfaction rate of educational communities	Total % of 'satisfied' and 'completely satisfied' responses on a 5-point Likert scale (cumulative)	Quarterly	75%	88% (Aug 2023)	-	-	Exp. May 2024
KPI 3.8	API users (external)	Total number of (external) API users per month	Monthly	200	140	151	145	121
RM 3.20	New learning resources for education ²⁶	Total number of new resources created with data shared through Europeana.eu (cumulative)	Quarterly	-	261 (Aug 2023)	-	-	Exp. May 2024
RM 3.21	Language variations of existing learning resources	Total number of new translations of learning	Bi-annually	-	34 (Aug 2023)	-	-	Exp. May 2024

²⁵ Y2 will include both educational partners (EUN and EuroClio).

²⁶ This includes new Stories of Implementation (Sol).

		resources (cumulative)						
RM 3.22	Participants completing the Europeana Education online courses	Total number of participants (cumulative)	Bi-annually	-	367 (Aug 2023)	-	-	Exp. Jul 2024
RM 3.23	Traffic to educational platforms (TwE blog and Historiana)	Number of visits to educational resources created with data shared through Europeana.eu (cumulative)	Bi-annually	-	165,707 (Aug 2023)	-	-	Exp. Aug 2024
RM 3.24	Reach to Europeana Education community	Number of people reached per month (mailing list, LinkedIn, Facebook)	Quarterly	-	11,648	-	-	11,851
RM 3.25	Outreach events to academic and research communities	Total number of events contributed to or (co)organised (cumulative)	Quarterly	-	6	-	-	9
RM 3.32	Europeana Research and the data space contributions	Total number of cultural heritage domain experts, university teaching staff members, researchers, university students trained in using the data space's outputs as tools (cumulative)	Quarterly	-	100	-	-	280
RM 3.26	Reach to Europeana Research community	Number of people reached per month (Discussion list, Twitter)	Quarterly	-	7,356	-	-	7,415

RM 3.27	API usage (REST API)	Total number of requests per month (external traffic)	Monthly	-	16.9 million	15.8 million	11.7 million	12.1 million
RM 3.28	API sign-ups (REST API)	Total number of API sign-ups (cumulative)	Monthly	-	335	425	510	580

Work package 4: Digital services for the public

Experience shows that the primary audiences that the Europeana Initiative successfully reaches are overwhelmingly cultural heritage professionals, and, equally successfully, educators, researchers and students. The foundation of the data space is the well-established Europeana.eu. Specific attention will be given to 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, 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).

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 is fully responsive and 5G-ready (implementation)	-	Ongoing
Activity 4.1.2. Optimise search experience, prioritising relevance and data quality			
EF	Compute log-based evaluation metrics and prioritise requirements for second iteration of user search logs (EVAL-5, EVAL-6, EVAL-7)	80%	May 2024
EF	Search relevance and performance maintained	-	Ongoing
Activity 4.1.3. Optimise browse experience to improve content discovery			

EF	Public display of monthly view numbers on stories and trending item pages available	Completed	Nov 2023
EF	Redesign the organisations' page to highlight the providing institutions further	Completed	Mar 2024 ²⁷ (Feb 2024)
EF	Curated and visually engaging browse experience implemented	50%	May 2024 ²⁸ (Aug 2024)
Activity 4.1.4. Expand multilingual coverage to include all EU official languages			
EF	Definition of an approach to automatic language tagging of metadata, based on investigation of existing automatic solutions	Completed	Feb 2024
EF	Process for systematically validating translations established	25%	Jun 2024
EF	Consistent approach to sourcing translations of editorial content developed	80%	Jun 2024
EF	Consistent approach to sourcing translations of editorial content piloted	80%	Jul 2024
EF	Multilingual coverage of editorial content increased	-	Ongoing
EF	Maintain user interface translations in supported languages	-	Ongoing
Activity 4.1.5. Extend user participation features			
EF	Feature request page	Not started	Aug 2024 ²⁹ (May 2024)
Activity 4.1.6. Optimise user interaction and display of content			
EF	Consistent user experience and optimal performance of all media playouts (video and audio) improved	20%	Aug 2024
Activity 4.1.7. Optimise user feedback mechanism			
EF	Admin area of user feedback mechanism consolidated	Completed	Jan 2024
EF	User satisfaction with the feedback response tracked and evaluated	-	Ongoing

Redesign the organisations' page to highlight the providing institutions further - in Feb 2024, we released the [new providing institutions page](#) formerly known as the 'organisations page'. We enriched this page with a search feature making it easier for people to find the institution they are looking for. We also added the country where each institution is located and sorting options for countries, number of items and institution names. All these features are meant to make it

²⁷ Adjusted due date confirmed with EC.

²⁸ Adjusted due date confirmed with EC.

²⁹ Adjusted due date confirmed with EC.

easier for people to find and get acquainted with the institutions that share their data with the data space.

Definition of an approach to automatic language tagging of metadata, based on investigation of existing automatic solutions - many metadata values that we receive have no language identification ("language tag"). This is an obstacle towards realising the objectives of the Europeana multilingual strategy. In this period, we have concluded experiments during which we tested five tools that can be used to detect language metadata: Apache Tika, eTranslation, Google, Pangeanic (the service developed by Europeana Translate) and ChatGPT. As a result we decided to integrate Google, eTranslation and Tika, which are queried in this order, in our Translation API, which is in turn used by the Record API, for multilingual display of items on Europeana.eu, and the Search API, for multilingual search and result display on the Spanish destination of Europeana.eu.

Reporting metrics: deliver high-performing Europeana website

No.	Description	Measured by	Frequency	Target Y2	Jan 2024	Feb 2024	Mar 2024	Apr 2024
KPI 4.1	Traffic to the Europeana website	Number of visits per year (cumulative)	Monthly	6.6 million	2.0 million	2.6 million	3.2 million	3.8 million
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%	71% (May 2023)	79%	-	-
KPI 4.5	User satisfaction rate with user feedback mechanism	Total % of 'satisfied' and 'completely satisfied' responses on a 5-point Likert scale	Monthly	80%	NEW	-	80%	-
RM 4.1	Multilingual coverage of editorial content	Percentage of stories (blogs and exhibitions) published in more than one language during contract year	Annually	-	38% (Aug 2023)	-	-	Exp. Aug 2024
RM 4.2	Multilingual coverage of	Percentage of stories (blogs	Annually	-	7% (Aug	-	-	Exp. Aug 2024

	editorial content	and exhibitions) published in all 24 EU languages during contract year			2023)			
RM 4.3	User participation: account holders	Total number of account holders	Quarterly	-	32,258	-	-	36,524
RM 4.4	User participation: liked items	Total number of items liked by users	Quarterly	-	38,210	-	-	42,053
RM 4.5	User participation: galleries	Total number of user-created galleries	Quarterly	-	8,472	-	-	9,342
RM 4.6	Downloads of digital items on the Europeana website	Total number of downloads (cumulative)	Quarterly	-	144,100	-	-	223,400
RM 4.7	Average of initial response time to user feedback	Average number of hours per month	Monthly	-	2.76	3.89	5.59	7.98 ³⁰
RM 4.8	Average of total resolution time to user feedback (excl. user feedback where the responsibility lies outside of Europeana)	Average number of hours per month	Monthly	-	7.75	5.14	6.5	8.74

³⁰ We believe that the increase in this metric is mainly due to the fact that lately we have integrated the general info email box into the feedback system (that already includes the feedback collected from the Europeana website, Europeana Pro, and the data space website), therefore now all mail received by the infobox enters the feedback system. We are improving the calculations that lead to the feedback response metrics to make them more representative, for example excluding 'spam' items from the calculations. We expect that excluding 'spam' items will result in a lower response time. This is because the infobox contains a great number of 'spam' messages whose actioning is not prioritised.

	DS consortium)							
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In Feb 2024, we measured a very good user satisfaction rate with the Europeana website with 79% of respondents stating being ‘satisfied’ and ‘completely satisfied’ (the survey had 250 respondents).

In Mar 2024, we measured a very good user satisfaction rate with our user feedback mechanism with 80% of respondents stating being ‘satisfied’ and ‘completely satisfied’ (cumulative score from Jan to Mar 2024 - it is built with 10 scores received within the period).

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 2023
EF	Digital Storytelling Festival organised	80%	May 2024
EF	Europeana website (incl. account functionality, user-created galleries) promoted	-	Ongoing
EF	High-quality open access data promoted, including 3D, to established and new audiences	-	Ongoing
EF, F&F	Transcribathon events, online runs and workshops organised and promoted in partnership with CHIs	-	Ongoing
F&F	Transcribathon platform maintained	-	Ongoing
Activity 4.2.2. Broaden impact of cultural heritage by expanding pan-European themes and perspectives			

EF, DS AGG	Multilingual editorial content (exhibitions, blogs, and galleries) ³¹ published and promoted	-	Ongoing
EF	Pan-European themes organised (e.g. Black History Month, Women's History Month and Pride Month)	-	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 ³²	-	Ongoing

Reporting metrics: engage audiences with digital cultural heritage

No.	Description	Measured by	Frequency	Target Y2	Jan 2024	Feb 2024	Mar 2024	Apr 2024
KPI 4.3	Audience satisfaction with editorial (exhibitions, blogs)	Total % of 'satisfied' and 'completely satisfied' responses on 5-point Likert scale (cumulative)	Quarterly	80%	73%	-	-	72%
KPI 4.4	Social media reach	Total number of impressions on social media (Facebook, Pinterest, GIPHY, Instagram, Twitter, Medium, LinkedIn) (cumulative)	Monthly	450 million	274.3 million	-	-	413.5 million
RM 4.13	Reach of activities that promote the use/reuse of cultural heritage	Number of participants taking part in activities (incl. DSF, GIF IT UP, Transcribathon events and others) ³³	Quarterly	-	310	-	-	438
RM 4.14	Audience creations made with digital	Total number of submitted reuse/remix cases (incl. but not limited	Quarterly	-	2,497	-	-	3,515

³¹ Editorials from data space supporting projects contribute to this outcome.

³² Editorial outcomes of data space supporting projects are promoted.

³³ Counted here: GIF IT UP participants and workshop attendees, attendees at talks relating to reuse, Immersive Tech Week Hackathon participants and Transcribathon event participants.

	cultural heritage	to GIFs, social media posts, transcribed items) ³⁴						
RM 4.11	Traffic to exhibitions and blogs	Number of visits to all exhibitions and blogs (cumulative)	Quarterly	-	583,463	-	-	916,062
RM 4.12	Social media engagement	Total number of likes, shares, comments per month (Facebook, Twitter, Pinterest, Instagram, Medium, LinkedIn)	Monthly	-	298,579	253,700	253,088	175,993

³⁴ Counted here: GIFs entered into GIF IT UP 2023, audience creations made with digital cultural heritage shared on social media or other websites, apps created by participants in Immersive Tech Week Hackathon and transcribed items on Transcribathon.eu

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 (task 5.2.). We will manage the relations with the projects funded under the different EU programmes (e.g. Digital Europe Programme, Horizon Europe, Erasmus+) to ensure the smooth integration of their results into the data space (task 5.3.).

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

In March 2024, Hannah Baker Hitzhusen ended the position as User Engagement Director for the Europeana Foundation.

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 responsible³⁵. [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 Y2 (Sep 2023 - April 2024) of the data space. 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 2024
WP 1: Development and operation of the data space infrastructure	25.4%	24.0%
Task 1.1 Provide reliable data space infrastructure and quality of services	22.7%	21.2%

³⁵ A RACI (Responsible, Accountable, Consulted, Informed) approach will be used for this purpose.

Task 1.2 Foster innovation, interoperability & compliance with other data spaces	2.7%	2.8%
WP 2: Integration of high-quality data	17.8%	18.4%
Task 2.1 Develop and manage data governance mechanisms	3.6%	4.5%
Task 2.2 Data acquisition and data improvements	10.9%	10.1%
Task 2.3 Automated approaches towards data quality	3.3%	3.8%
WP 3: Capacity building and fostering reuse	30.6%	31.4%
Task 3.1 Enhance cooperation throughout the Data Space	4.4%	5.6%
Task 3.2 Identify needs of user groups	1.7%	1.3%
Task 3.3 Build awareness and engagement	6.9%	6.8%
Task 3.4 Develop capacity building as a service	3.9%	4.1%
Task 3.5 Facilitate the provision of high quality data	4.4%	4.6%
Task 3.6 Facilitating the reuse of high quality data	9.3%	9.0%
WP 4: Digital services for the public	18.7%	19.2%
Task 4.1 Deliver high-performing Europeana websites	11.8%	12.4%
Task 4.2 Engage audiences with digital cultural heritage	6.9%	6.8%
WP 5: Programme management	7.5%	7.0%
Task 5.1 Ensure continuous progress monitoring and reporting	6.0%	5.3%
Task 5.2 Governance	0.6%	0.3%
Task 5.3 Manage relations with other EU-funded projects	0.7%	1.3%
Task 5.4 Phasing-in and phasing-out periods	0.2%	0.04%
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.

No activity in M18 - M20.

Task 5.3. Manage relations with other EU-funded projects

Partners: EF

EF maintains regular contact with projects supporting the data space (e.g. via Basecamp groups) and assists them with the 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 M12 for all project outcomes that contribute to the data space for cultural heritage between 1 February 2024 and 31 April 2024.

DS 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 Y2 of the data space for cultural heritage contract (as outlined in Annex 4 of PM. Implementation plan M12).

Data Space - supporting projects (DIGITAL-2022-CULTURAL-02) call						
Partner	Outcomes	DS contribution	Due Date	Progress	Status	Comment
5DCulture						
DS	Project entries on Pro	Task 3.3 Build awareness and engagement	Aug 24	52%	Ongoing	4 entries have been published on Pro.
DS	1st ICE technologies prototype integrated with Europeana APIs for retrieving of data using search APIs	Task 1.1. Provide reliable data space infrastructure and quality of services	Dec 23	100%	Completed	
DS	2nd ICE technologies	Task 1.1. Provide reliable data	Jun 24	80%	Ongoing	Implementation of APIs and

	advance prototype integrated with Europeana APIs for retrieving data using Record and SPARQL APIs	space infrastructure and quality of services				fine-tuning taking place.
DS	2nd version of 3D effects on historical images version is integrated with Europeana Search and download APIs for data and metadata use	Task 1.1. Provide reliable data space infrastructure and quality of services	Jun 24	60%	Ongoing	Development of the tool and implementation of the API is in progress.
DS	Curation and storytelling (extension of WEAVEx) - 2 prototypes - Initial integration via Europeana APIs for retrieving content and metadata	Task 1.1. Provide reliable data space infrastructure and quality of services	Dec 23	100%	Completed	The integration for WEAVEx is active and successfully using Europeana APIs as stated.
DS	1st iteration "Share to WEAVEx" button on Collection subpages	Task 1.1. Provide reliable data space infrastructure and quality of services	Mar 24	100%	Completed	
DE-BIAS						
DS	First prototype integration via DE-BIAS API	Task 1.1. Provide reliable data space infrastructure and quality of services Task 4.1. Deliver high-performing Europeana website	Nov 23	100%	Completed	

DS	First version of the DE-BIAS tool integrated in the Metis Suite	Task 1.1. Provide reliable data space infrastructure and quality of services Task 4.1. Deliver high-performing Europeana website	Apr 24	100%	Completed	
DS	Knowledge co-creation methodology and DE-BIAS typology published	Task 3.5. Facilitate the provision of high-quality data	Dec 23	100%	Completed	
DS	Knowledge co-creation activities At least 6 crowdsourcing campaigns with communities for the validation and fine-tuning of automatically detected bias.	Task 4.2 Engage audiences with cultural heritage	Aug 24	95%	Ongoing	Eight knowledge co-creation events have taken place since the start of the project.
DS	First capacity-building event for CHIs was organised	Task 3.4 Develop capacity building as a service	Jan 24	100%	Completed	
DS	Recommendations to represent diversity in metadata.	Task 3.5. Facilitate the provision of high-quality data	Aug 24	20%	Ongoing	D2.1report .has been submitted, which will be the basis of these recommendations to be developed. Recommendations on the vocabulary and the knowledge base have been given, which will be taken into account while writing D5.2 Recommendations to represent diversity in metadata

DS	First version of the Impact Assessment	Task 3.4 Develop capacity building as a service	Jun 24	30%	Ongoing	Structure ready as well as alignment with sustainability plan.
DS	Project editorial on Europeana Pro and Europeana.eu More than 20 blog posts across Europeana.eu and Europeana Pro.	Task 3.3 Build awareness and engagement	Aug 24	60%	Ongoing	13 editorial pieces have been published on Europeana Pro - the project page, six news posts and six event pages.
DS	Galleries on Europeana website	Task 4.2 Engage audiences with cultural heritage	Aug 24	5%	Ongoing	Multiple galleries have been made, of which only one has been set to public for now due to their sensitive content At least 10 galleries showcasing the diversity of content.
Eureka3D						
DS	Integration of the Eureka 3D viewer on Europeana item page	Task 1.1. Provide reliable data space infrastructure and quality of services	Aug 24	30%	Ongoing	Europeana has contributed to the D1.2 integration report where it has stated that a 3D viewer using oEmbed functionality could feasibly be integrated into the Europeana CSP.
DS	Project entries on Pro A minimum of 4 project entries are	Task 3.3 Build awareness and engagement	Aug 24	66%	Ongoing	To date, a project page and two Pro news posts related to the project have been published,

	foreseen to be published on Europeana Pro.					along with six event pages promoting events from the project.
DS	Editorials on Europeana.eu 5 editorials are expected to be published on Europeana.eu	Task 4.2 Engage audiences with cultural heritage	Aug 24	85%	Ongoing	3 blogs and 4 galleries have been published so far. At least two more blogs will be written by project partners in 2024. All Eureka3D blogs have been translated into at least two other languages than English.
AI4Culture³⁶						
DS	Project entries on Pro	Task 3.3 Build awareness and engagement	Aug 24	30%	Ongoing	Project page published on Europeana Pro
DS	Guidelines for tools and datasets publications	Task 3.5. Facilitate the provision of high-quality data	Aug 24	80%	Ongoing	The work of EuropeanaTech FLOSS inventory has been included in the recommendation for describing tools. Work continues on dataset descriptions.
Supporting other EU funded projects						
<u>WATCHLIKEAHIST - Watching videos like historian (Erasmus+)</u>						
DS	Project entries on Pro	Task 3.3 Build awareness and engagement	Aug 24	50%	Ongoing	At least 10 project entries in Europeana Pro. Three news posts, an event page and

³⁶ The project name was changed from "AI4Europeana" to "AI4Culture" to reflect a strategic decision made by the consortium to streamline communication and better align with the project's overarching goals. This change was enacted through the amendment AMD-101100683-2 to avoid ambiguity and reinforce the project's mission.

						a project page about the project have been published; more are foreseen in the coming months
DS	Practitioner guide for AV collections holder available on Europeana Pro	Task 3.5. Facilitate the provision of high quality data	Sep 23	100%	Completed	
DS	Launch of Watchlikeahist toolkit	Task 3.3 Build awareness and engagement	Sept 24 ³⁷	30%	Ongoing	
DS	Contribution of Europeana education community to the toolkit	T3.3 Design, development and refining of the Toolkit	Jul 24	30%	Ongoing	
DS	Editorials on Europeana.eu	Task 4.2 Engage audiences with cultural heritage	Aug 24	100%	Completed	10 AV galleries/datasets from the toolkit for educational use in the Europeana Classroom.
European Heritage Hub (Pilot Project and Preparatory Actions)						
DS	Project entries on Pro	Task 3.3 Build awareness and engagement	Aug 24	30%	Ongoing	Project page published on Europeana Pro
DS	Launch of the digital interactive hub	Task 3.1. Enhance cooperation throughout the data space Task 3.3 Build awareness and engagement Task 4.2 Engage audiences with cultural heritage	Jan 24	100%	Completed	

³⁷ Delivery of the launch was postponed from June 2024 to September 2024

DS	European Heritage Hub Forum	Task 3.3 Build awareness and engagement	Oct 24	15%	Ongoing	Date and initial plan set
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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 M18 - M20.

Annex: Progress on deliverables

This table states progress on deliverables for Y2 (1 Sep 2023 - 31 Aug 2024).

Type	Name	Due	Completed
PM.	Implementation plan	M24 (Aug 2024)	
PM.	Periodic report	M24 (Aug 2024)	M15 (Nov 2023), M18 (Feb 2024), M21 (May 2024)
PM.	Annual report	M24 (Aug 2024)	
PM.	Final report	M24 (Aug 2024) (if no renewal)	
PM.	Phase-out report	M24 (Aug 2024) (if no renewal)	
DS.	Infrastructure report	-	M21(May 2024)
DS.	Technical documentation	M22 (Jun 2024)	
DS.	Stress test reports	M23 (Jul 2024)	
DS.	Disaster recovery	M23 (Jul 2024)	
DS.	Data supply and reuse report	-	M17 (Jan 2024)
DS.	Users and usage report	M22 (Jun 2024)	M14 (Oct 2023)
DS.	Communication and dissemination plan	M23 (Jul 2024)	

Annex: Risk log

WP1: Development and operation of the data space infrastructure

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
	<i>Brief summary of the risk cause, the risk event (either threat/opportunity), and the risk effect</i>	<i>Activity according to IP</i>	<i>Last reviewed/ updated</i>	<i>Overall risk response</i>	<i>Threat (negative impact) or Opportunity (positive impact)</i>	<i>Rate 1 (very low) to 5 (very high)</i>	<i>Rate 1 (very low) to 5 (very high)</i>	<i>Impact x probability (automatically filled)</i>	<i>(automatically filled)</i>	<i>Mitigation explanation and link to contingent plan (if needed)</i>	<i>Entity informed about the risk (if applicable)</i>	<i>Entity consulted about the risk (if applicable)</i>	<i>Information on risk history</i>
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	2024-05-28	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	2024-05-28	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	2024-05-28	Reduce	Threat	5	1	Low	Acceptable	Disaster recovery and failover 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	2024-05-28	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
	<i>Brief summary of the risk cause, the risk event (either threat/opportunity), and the risk effect</i>	<i>Activity according to IP</i>	<i>Last reviewed/ updated</i>	<i>Overall risk response</i>	<i>Threat (negative impact) or Opportunity (positive impact)</i>	<i>Rate 1 (very low) to 5 (very high)</i>	<i>Rate 1 (very low) to 5 (very high)</i>	<i>Impact x probability (automatically filled)</i>	<i>(automatically filled)</i>	<i>Mitigation explanation and link to contingent plan (if needed)</i>	<i>Entity informed about the risk (if applicable)</i>	<i>Entity consulted about the risk (if applicable)</i>	<i>Information on risk history</i>
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 use cases 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	2024-05-28	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. Europeaana 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	Lack of common definition (or vision) for high value data sets, and changing/controversial stakes in this discussion beyond Europeaana. This can lead to inconsistent approach to working with high value datasets internally.	Activity 2.1.2. Develop and expand data governance frameworks and standards	2024-05-28	Accept	Threat	3	3	Medium	Tolerable and Monitor	Agree to a preliminary definition for high value datasets with the EC, based on in-depth research and an understanding of our collections, followed by regular updating based on interactions with the Data Space Support Center	N/A	N/A	N/A
R.WP2.3	Insufficient resources are allocated by aggregators and supporting stakeholders to support the successful implementation of the Cooperation Agreement	Activity 2.1.1. Identify data governance requirements and objectives	2024-05-28	Reduce	Threat	3	3	Medium	Tolerable and Monitor	Stakeholders are consulted in the development and iterations of the 'Strategy and plan for the development of the DGM' as it describes, makes transparent timeframes and efforts needed for appropriate planning and resource allocation	N/A	N/A	N/A
R.WP2.4	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	2024-05-28	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 of the capabilities of stakeholders relevant to the DGM	N/A	N/A	N/A
Task 2.2. Data acquisition and data improvements													
R.WP2.5	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	2024-05-28	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.WP2.7	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	2024-05-28	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
	<i>Brief summary of the risk cause, the risk event (either threat/opportunity), and the risk effect</i>	<i>Activity according to IP</i>	<i>Last reviewed/ updated</i>	<i>Overall risk response</i>	<i>Threat (negative impact) or Opportunity (positive impact)</i>	<i>Rate 1 (very low) to 5 (very high)</i>	<i>Rate 1 (very low) to 5 (very high)</i>	<i>Impact x probability (automatically filled)</i>	<i>(automatically filled)</i>	<i>Mitigation explanation and link to contingent plan (if needed)</i>	<i>Entity informed about the risk (if applicable)</i>	<i>Entity consulted about the risk (if applicable)</i>	<i>Information on risk history</i>
Task 3.1. Enhance cooperation throughout the data space													
R.WP3.1	The cooperation of stakeholders in the data space is slow and impacts progress. We rely on ENA/EAF members to support the development of the data space (incl. support for implementation plan outcomes). Stakeholders are acting in a volunteer capacity and we might see a lack or delays in their contributions. This can negatively impact the quality and sustainability of outcomes as stakeholders' support, contribution, and validation are critical.	Activity 3.1.1. Develop methods of cooperation	2024-05-28	Reduce	Threat	2	2	Low	Acceptable	We placed a provisional time limit for contributions and limit the scope of contributions to the activities undertaken during Y2 of the data space. We collaboratively prioritise developments that need cooperation and regularly meet and evaluate progress. We are also working on an improved model of cooperation across the data space that aims to support identifying and managing collective actions.	ENA & EAF	ENA & EAF	ENA & EAF discussions are ongoing
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)	2024-05-28	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 are ongoing
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)	2024-05-28	Reduce	Threat	3	3	Medium	Tolerable and Monitor	Engagement of ENA members is being further stimulated through the Country group pilot in Y2. In addition, more Network-wide events are being scheduled, to break down the barriers to participation (fewer long meetings) and introduce a variety of topics and opportunities for engagement. The launch of the training academy will further satisfy network members and complement the informal knowledge-sharing activities of the communities which continue through Y2.	ENA & EAF	ENA & EAF	Discussed with ENA & EAF
R.WP3.4	Not all 27 Member States contribute to the Twin It! campaign	Activity 3.1.3. Support national digital strategies to increase high quality data	2024-05-28	Reduce	Threat	3	3	Medium	Tolerable and Monitor	If due to 1) lack of buy-in (mitigation: focused persuasive strategies supported by the EC towards such MS); or 2) logistical/process/timing/technical issues (mitigation: hand holding and specific support for the MS struggling)	CEDCHE	CEDCHE	N/A
R.WP3.5	The 3D models and metadata collected during the Twin it! campaign are of low-quality.	Activity 3.1.3. Support national digital strategies to increase high quality data	2024-05-28	Reduce	Threat	2	2	Low	Acceptable	We have prepared and sent a participation pack to every Member State and organised webinars with guidelines and best practices. As a next step, we will organise dedicated open cafe sessions to respond in a more timely and ad hoc basis to the questions Members States might have.	CEDCHE	CEDCHE	N/A
R.WP3.6	The 3D models and metadata collected for the Twin it! campaign are not obtained in time.	Activity 3.1.3. Support national digital strategies to increase high quality data	2024-05-28	Reduce	Threat	3	3	Medium	Tolerable and Monitor	National and domain aggregators will support Member States in their efforts as they are familiar with the data publication process. The Twin it! campaign will explore ways to showcase the efforts of the Member States in case they don't result in a 3D model.	CEDCHE	CEDCHE	N/A
Task 3.2. Identify needs of user groups													
Task 3.3. Build awareness and engagement													
R.WP3.7	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	2024-05-28	Reduce	Threat	3	3	Medium	Tolerable and Monitor	We have written and implemented a platform strategy that provides more clarity on ownership, aims and audience for each platform and provides simpler processes to follow to improve user journeys. We will regularly evaluate the available data to assess the impact of changes made and the performance of platforms.	ENA & EAF	N/A	ENA & EAF stakeholders informed via periodic reports to the entities
Task 3.4. Develop capacity building as a service													
R.WP3.8	Low uptake for participation of professional audience in training programme realised.	Activity 3.4.2. Manage and develop mechanisms for the training programme	2024-05-28	Reduce	Threat	3	1	Low	Acceptable	User and impact research is undertaken to define and validate stakeholders' needs and inform the motivation and engagement model to increase the product/market fit of the training programme.	N/A	N/A	N/A
Task 3.5. Facilitate the provision of high quality data													
R.WP3.9	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	2024-05-28	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. Also, the priorities and primary focus areas for the train-the-trainer programme for the provision of high-quality data will contribute to managing the expertise needed.	ENA & EAF	ENA & EAF	ENA/EAF were involved in defining priority areas through the Capacity Building Working Group.

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
	<i>Brief summary of the risk cause, the risk event (either threat/opportunity), and the risk effect</i>	<i>Activity according to IP</i>	<i>Last reviewed/ updated</i>	<i>Overall risk response</i>	<i>Threat (negative impact) or Opportunity (positive impact)</i>	<i>Rate 1 (very low) to 5 (very high)</i>	<i>Rate 1 (very low) to 5 (very high)</i>	<i>Impact x probability (automatically filled)</i>	<i>(automatically filled)</i>	<i>Mitigation explanation and link to contingent plan (if needed)</i>	<i>Entity informed about the risk (if applicable)</i>	<i>Entity consulted about the risk (if applicable)</i>	<i>Information on risk history</i>
R.WP3.10	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	2024-05-28	Reduce	Threat	3	2	Medium	Tolerable and Monitor	In 2023 a Training platform has been selected and the first courses will be offered through this. Multilingualism is one of the requirements, both the interface and the automatic translation of the training content. In this way, the platform 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

WP4: Digital services for the public													
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
	<i>Brief summary of the risk cause, the risk event (either threat/opportunity), and the risk effect</i>	<i>Activity according to IP</i>	<i>Last reviewed/ updated</i>	<i>Overall risk response</i>	<i>Threat (negative impact) or Opportunity (positive impact)</i>	<i>Rate 1 (very low) to 5 (very high)</i>	<i>Rate 1 (very low) to 5 (very high)</i>	<i>Impact x probability (automatically filled)</i>	<i>(automatically filled)</i>	<i>Mitigation explanation and link to contingent plan (if needed)</i>	<i>Entity informed about the risk (if applicable)</i>	<i>Entity consulted about the risk (if applicable)</i>	<i>Information on risk history</i>
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	2024-05-28	Reduce	Threat	3	2	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	2024-05-28	Accept	Threat	3	3	Medium	Tolerable and Monitor	Europeana DS will diversify its sources to obtain translations. The new Translation API will allow for the data space to be more flexible and more efficient towards the use of translation services.	N/A	N/A	N/A
Task 4.2. Engage audiences with digital cultural heritage													
R.WP4.3	Technological, structural and policy changes on social media platforms negatively impact the reach of, and engagement with, our communications.	Activity 4.2.3. Communicate the data space for cultural heritage activities	2024-05-28	Reduce	Threat	2	3	Medium	Tolerable and Monitor	Review performance indicators throughout the reporting cycle and adjust approach as needed. Continuously review social media outlets and explore options as needed.	N/A	N/A	N/A
R.WP4.4	Expectations for multilingual editorial are higher than what available technology and resources enable the Europeana DS consortium to implement.	Activity 4.2.2. Broaden impact of cultural heritage by expanding pan-European themes and perspectives	2024-05-28	Reduce	Threat	3	3	Medium	Tolerable and Monitor	We are making efforts towards creating a sustainable and more reliable translation validation pipeline (for example we are piloting involving the ENA Communicators Community). If we have a standardised and usable process as well as a pool of volunteers we hope to increase the multilingual editorial offers.	ENA	ENA	Pilot with ENA communicators community ongoing

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
	<i>Brief summary of the risk cause, the risk event (either threat/opportunity), and the risk effect</i>	<i>Last reviewed/ updated</i>	<i>Overall risk response</i>	<i>Threat (negative impact) or Opportunity (positive impact)</i>	<i>Rate 1 (very low) to 5 (very high)</i>	<i>Rate 1 (very low) to 5 (very high)</i>	<i>Impact x probability (automatically filled)</i>	<i>(automatically filled)</i>	<i>Mitigation explanation and link to contingent plan (if needed)</i>	<i>Entity informed about the risk (if applicable)</i>	<i>Entity consulted about the risk (if applicable)</i>	<i>Information on risk history</i>
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.	2024-05-28	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	2024-05-28	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	2024-05-28	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												