



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

CONTRACT NUMBER - LC - 00822914

DELIVERABLE

B.2 Periodic report M14

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Periodic reports can be viewed and accessed online in the document section on the Europeana DSI-4 project page¹.

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

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Introduction

The periodic report describes work carried out under Europeana DSI-4 from 1 August 2019 (M12) until 30 September 2019 (M13) based on the implementation plan (B.1 deliverable, M6/M12). The work is organised in nine work packages (WP).



This report presents a revised reporting format. EC requested to make progress of individual activities more visible and EF had the need to make reporting more efficient. Under each task related activities/outcomes are stated in a table based on the implementation plan and roadmap. The outcome is stated at the start of the row while the colour (blue) indicates the expected timeframe of the activity. The table shows an expected progress preview for the upcoming six months. More elaborated information on the individual tasks can be found in the implementation plan (M12).

In case an activity ended in the reporting period this is indicated with the colour black. Once an activity ended, an elaborated description is provided. This description highlights the objectives of the activity, summarises main work done to achieve the outcome, and states its value for Europeana DSI.

This revised reporting format allows to limit reporting to actual achieved outcomes instead of reporting in detail on the activity progress on a bi-monthly basis. Limiting reporting to this format helps the reader to better understand individual activities/outcomes by having all context presented in one summary (rather than spread in several deliverables while work is still in progress). It also saves resources and creates 'best value for money' for both EF and EC. EF staff can work towards achieving outcomes instead of spending time on progress reporting. Reports are also shorter and more focused which saves time to review. Review meetings can concentrate on main outcomes achieved in the reporting period.

Tender and implementation plan milestones as well as deliverables are included in the tables as activity/outcome. The tables state active work performed in the reporting period. Under each task related Key Performance Indicators (KPIs) and other reporting requirements/metrics are included to give a holistic view on the area of work.

Explanatory notes for tables reporting - colour codes

	Colour blue indicates the expected timeframe of the activity
	Colour black indicates that an activity ended in the reporting period
%	Progress until end of reporting period

Work package 1: Operating, maintaining and developing Europeana DSI as the pan-European online cultural platform

WP1 maintains and continuously improves Europeana DSI’s main services and functionality. WP1 is focused on an easy and rewarding data publishing process, a satisfying collections experience for users, and a sustainable and high performing platform infrastructure.

Overview of outcomes

Partner	Outcomes	Progress	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
			M12	M13	M14	M15	M16	M17	M18	M19
Data publishing with Metis is extended										
EF	Change development process updated (MS1)	100%								

Change development process updated (MS1)

At the start of Europeana DSI-4 we designed a change development process which we are following. We maintain rolling product roadmap planning activities for 12 months ahead. Each quarter we review the roadmap to reprioritise based on current business needs.



Product planning cycle

Task 1.1. Easy and rewarding data publishing

Partners: EF, PSNC, and INESC-ID

Europeana DSI-4 offers a fully functional data and aggregation infrastructure through Metis, which allows EF to import, transform, validate and enrich metadata for aggregators.

Overview of outcomes

Partner	Outcomes	Progress	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
			M12	M13	M14	M15	M16	M17	M18	M19
EF/ PSNC	METIS maintenance (bugs fixing, infrastructure upgrades, refinement of existing features) - 60% of effort in M12/M13	Ongoing	█	█	█	█	█	█	█	█
EF/ PSNC	METIS: version updated (MS2)	100%	█	█						
Data publishing with Metis is extended [Metis V1.x]										
<i>Fully replace previous publishing system by re-establishing URL redirection and depublication features. We will work on defining requirements and designing solutions for incremental processing.</i>										
No work was in the M12/M13.										
<i>Prototype methods for new Metis ingestion components</i>										
EF, INESC	Experiments with new ingestion technology with qualifying datasets	Ongoing	█	█	█	█	█	█	█	█
EF, INESC	LD pilot evaluation report (LD pilot with the KB/NDE)	90%	█	█	█					
EF, INESC	User guide for Data aggregation Lab	90%	█	█	█					
Data publishing speed and reliability is enhanced [Metis V1.x]										
<i>Scale up Metis operations by supporting search of datasets, improving the error reporting mechanisms, and testing the scheduling of aggregation workflows.</i>										
No work was done in M12/M13.										
Aggregators and providers increase the speed of data publishing										
<i>Work towards increased publishing speed by recommending a Metis strategy, and by delivering a Metis sandbox pilot to be further tested as part of the Europeana Common Culture generic services project.</i>										
EF, INESC	Metis strategic recommendations (MS68)	30%	█	█	█	█	█	█	█	
EF, INESC	Metis strategy: Progression model created	100%	█	█						

No work was done in M12/M13.

METIS: version updated (MS2)

This milestone is the result of one year of developments since the release of Metis in November 2018. Main releases since Metis V1.0 include:

Metis V1.1 introduced a new version of the Media Service to support improved generation of technical metadata and thumbnails. The new media service was also run independently of Metis so as to process legacy datasets that lack technical metadata and/or thumbnails for tier calculations. A full set of technical metadata for the entire database is now available to provide an exact overview of the data quality in the Europeana DSI based on tier statistics according to the Europeana Publishing Framework² (EPF).

Metis V1.2 included the redesigned version of the Link Checking service to support data quality goals on the data ingestion side, as part of other efforts towards resolving broken links.

Metis V1.3 added normalisation processing of dc:language (language of the content provided to Europeana) and xml:lang attributes in the metadata (language of the metadata itself) to support multilingual browsing in Europeana Collections.

Metis V1.4 added the calculation of content and metadata tiers as part of the Metis indexing services. Any new published data will get content and metadata tier annotations. In addition, the whole database was reindexed to add tier annotations to all items.

A series of interviews were conducted with the Data Partner Services (DPS) team at EF (currently the main users of Metis) to identify improvements to the User Interface (UI) in October 2018. In August, we completed the implementation of all the recommendations highlighted at the time. The developments have been regularly released as part of the releases mentioned above including:

- Clearer executions history with the possibility to filter per type of workflow, status, date of executions;
- Clearer errors reporting mechanisms through color coding and detailed reports when needed;
- Clearer workflow cancellation procedure;
- Improved access and display of data samples to verify that all the processes Metis applies are correctly executed;
- Reviewed workflow form that makes selection and customisation of a workflow easier;

² <https://pro.europeana.eu/post/publishing-framework>

- General improvements of the responsivity of the Metis UI to different screen sizes.

The screenshot displays the Metis dataset dashboard for 'Ag_EU_OpenUp_NHNV'. On the left, there is a summary card with the following details: Provider: OpenUp!, Data Provider: Natural History Museum, Vienna - Herbarium W, Number of items published: 69214, and Last published: 28/09/2018 - 23:42. The main area shows a progress bar for the 'NORMALISE' step, which is currently 'RUNNING' at 19% completion (13800 / 69214 records). Below this, a table lists the workflow steps:

Workflow step	Total processed	Total records	Status	Start date	End date
NORMALISE	13800	69214	RUNNING	15/08/2019 11:09	
VALIDATE (EDM INTERNAL)	69214	69214	FINISHED	15/08/2019 10:47	15/08/2019 11:09
TRANSFORM	69215	69215	FINISHED	15/08/2019 10:19	15/08/2019 10:47

At the bottom, there is a '1. Choose your workflow' section with buttons for H, Ve, T, Vi, N, E, M, Pr, Pu. The 'H' button is currently selected.

Metis dataset dashboard

Metis strategy: Progression model created

After reviewing a series of possible scenarios, EF decided on an approach that serves as the base for the upcoming Metis strategy. A series of business goals were identified for guiding future developments of Metis. These goals and Metis specific features were articulated in a matrix or progression model. This progression model will be further documented in a position paper which will serve as a medium for triggering discussion with stakeholders. The position paper will also incorporate some background discussions related to the operating model supporting the current aggregation landscape, funding and infrastructure costs.





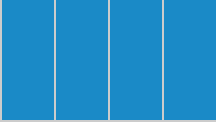







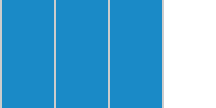
Task 1.2. Collections experience

Partners: EF

Our KPIs are to reach 550,000 visits per month with a 30% user return rate on Europeana Collections. To achieve this we are focusing on making the site more interesting to browse, more accessible through language, faster and more accurate to search, and more discoverable by Google.

Overview of outcomes

Partner	Outcomes	Progress	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
			M12	M13	M14	M15	M16	M17	M18	M19

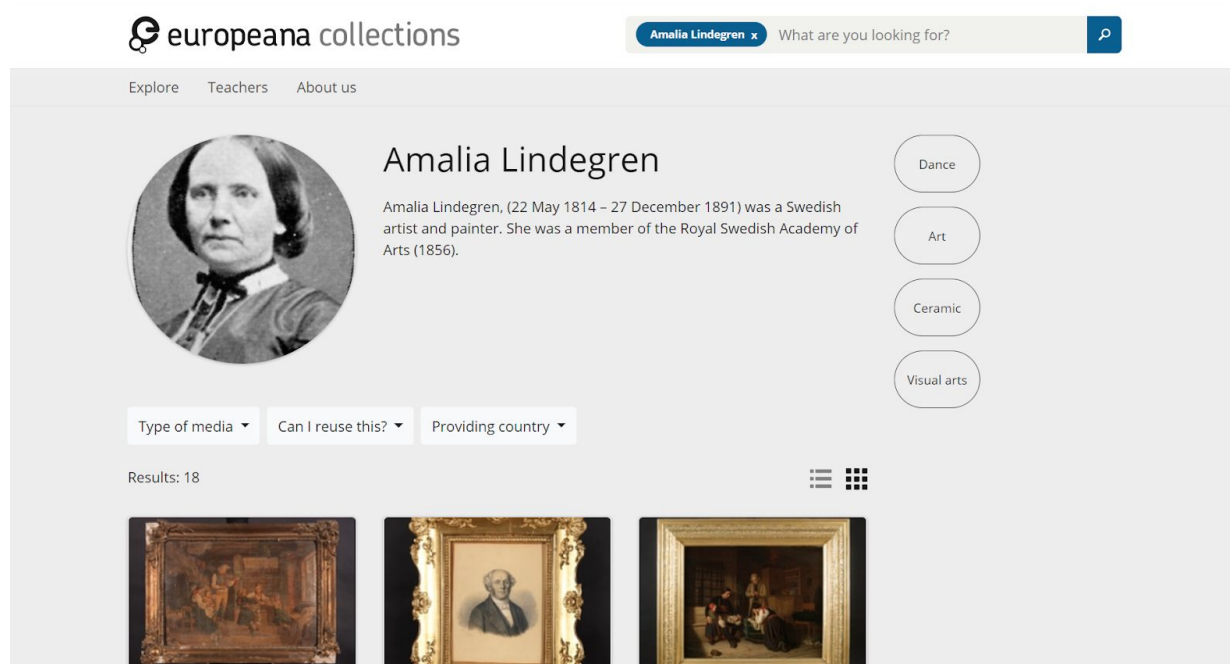
EF	Europeana Collections existing portal maintenance (bugs fixing, security & software updates) - 20% of efforts in M12/M13	Ongoing	
Transform browse experience across collections			
<i>Establishing entities to extend horizontal and hierarchical browsability</i>			
EF	Browse functionality released (MS80)	70%	
EF	Updated Europeana Collections: demo released	90%	
EF	Updated portal: information architecture and navigation implemented	100%	
EF	Updated portal: item page updated (media viewers, multilingual metadata, full-text, related entities)	30%	
EF	Updated portal: new design entity pages	100%	
EF	Updated portal: editorial content is migrated and available	30%	
EF	Updated portal: available in all 24 EU languages	60%	
<i>Speeding up page load time to attract return visitors</i>			
Work done.			
<i>Achieve video playout consistency through integration of the Europeana Media player</i>			
EF	Media player integrated in Europeana Collections (Europeana Media)	80%	
EF	IIIF API extended (Europeana Media)	100%	
Transform multilingual collections experience			
<i>Work towards translated collection experiences by developing our multilingual strategy for searching, browsing, and viewing</i>			
EF	Options for multilingual search and browse (MS33)	60%	
EF	Multilingual strategy: Finnish presidency event	90%	
EF, INESC	Multilingual strategy: case studies (UI experience on Europeana Collections, multilingual search in transcriptions,	60%	

	metadata translations)		
<i>Update UI localisation process</i>			
EF	New system implemented for faster updating of translations	90%	
<i>Support of new vocabulary in Metis dereferencing service</i>			
No work was done in M12/M13.			
Search improvements make Europeana Collections more useful			
<i>Ensure search experiences continue to improve by evaluating the performance of search activity</i>			
EF	Updated portal: design search flow and browse experience	100%	
EF	Update portal: re-design of filters	50%	
EF	Updated portal: suppression of Tier 0 material on search page implemented	100%	
<i>Updating search and indexing process to improve search results</i>			
No work was done in M12/M13.			
<i>Using Ajax to speed up search interactions</i>			
No work was done in M12/M13.			
Europeana Collections are more discoverable by Google			
<i>Re-evaluate organic search strategies, and publication of schema.org for item pages</i>			
No work was done in M12/M13.			
Extend user engagement features			
<i>Enable contributions for upcoming season Industrial Heritage</i>			
EF	Europeana Contribute: enable contributions for upcoming season Industrial Heritage	100%	
<i>Integrate with the Transcribathon platform so that user generated transcriptions are searched on</i>			
EF	User generated transcriptions are searched and seen on Europeana Collections (Transcribathon platform) (EnrichEuropeana)	20%	

Transform browse experience across collections

Updated portal - information architecture and navigation implemented: this work included the implementation of menus in the header and footer as well as the ability to add entities to a browse page, navigate into the entity, search within the entity, view related entities and curate content within an entity page.

Updated portal - new design entity pages: We completed the first implementation of the new designs for the entity pages referred to from now on as collection pages on the demo environment of the Europeana Collections website.



Collections page design

IIIF API³ extended (Europeana Media⁴): the manifest API was extended to cover A/V manifest and V3. The full-text was also extended to cover subtitles and audio transcription.

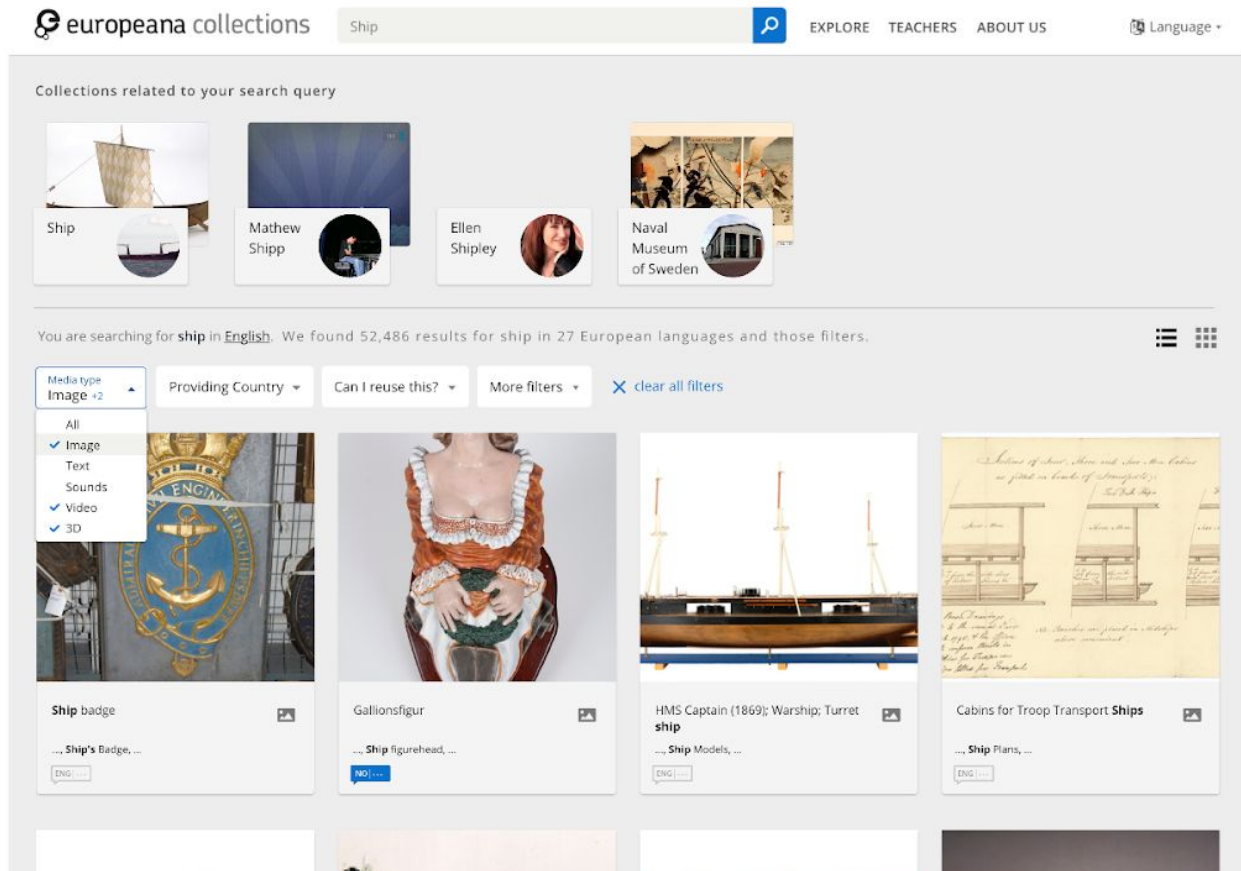
Search improvements make Europeana Collections more useful

Updated portal - design search flow and browse experience: We designed a new search flow that enables the user to add context to their search terms. The system will surface collections (entities) that match the user's search term. In an ideal scenario, for each search term, the system will display five related collections, one curated around a subject, person, place, time, and institution. If any of these collections match the context that the user had in mind, they can click on that collection to continue their journey searching in a narrower

³ <https://pro.europeana.eu/resources/apis/iiif>

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

scope. If not, we introduce contextual filters to help the user filter down the collection (please see screenshot on next page).



New search flow Europeana Collections

Updated portal - suppression of Tier 0 material on search page implemented: Tier 0 content is now hidden from the search results on Europeana Collections. The functionality allows the user to see this content if they wish.

Extend user engagement features

Europeana Contribute⁵: enable contributions for upcoming season Industrial Heritage: in order to support the Europe at Work campaign, we extended the Contribute platform to allow us to add additional campaigns. We are now ready to collect content from users for Europe at Work.

Overview of KPIs

No.	Description	Target M12	Jun M10	Jul M11	Aug M12	Target M24	Sep M13

⁵ <https://contribute.europeana.eu/>

1.1	Traffic on Europeana Collections per month	500,000	318,366	342,281	342,281	550,000	389,830
1.2	Returning visitors on Europeana Collections (%)	30%	13.1%	12.20%	12.20%	30%	12%
1.3	Total number of downloads on Europeana Collections	180,000	284,236	323,518	323,518	240,000	41,843
1.4	Total number of click-throughs	800,000	210,435	224,604	224,604	800,000	15,651

Our main KPIs for Europeana Collections, including traffic generated to Europeana Collections as well as user return rate, are behind target.⁶ We still experience a high level of dependency on Google, with limited control of the long tail organic traffic. Mitigations include focusing on the generation of traffic to areas of the website we do have control over (thematic collections, exhibitions, galleries, blog) and diversifying traffic sources. These efforts will complement the work done on the product side to enhance the overall portal experience to encourage direct return visitors. Note: Limited work was done on the current portal recently. With the launch of the updated portal coming soon, we expect the traffic and user return rate to go up in 2020. The updated portal will provide an enhanced browse experience based on entities which aims to improve the user experience and discovery of content on Europeana Collections.

Number of click-throughs is behind target. We assume that as data quality improves over time on Europeana Collections there is less need for users to click-through to partners websites to explore the content. To increase traffic to partners' websites we placed the partner institutions prominent on the new record page, visible for users to click.

Task 1.3. Infrastructure




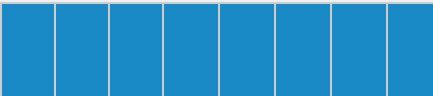
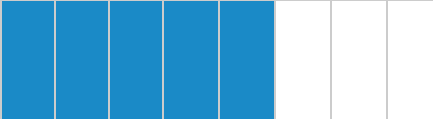
Partners: EF and PSNC

High availability and performance is an important priority for the Europeana infrastructure.

Overview of outcomes

Partner	Outcomes	Progress	Aug M12	Sep M13	Oct M14	Nov M15	Dec M16	Jan M17	Feb M18	Mar M19
Infrastructure is sustainable and high performing										
<i>Specific infrastructure work to safeguard data publishing and the Collections experience includes auditing, consolidating, cleaning, and removing underused infrastructure</i>										
EF	Infrastructure maintenance (bugs,	Ongoing								

⁶ More information on traffic and user return rate can be found in C.2 Users and usage deliverable available on the Europeana DSI-4 project page. <https://pro.europeana.eu/project/europeana-dsi-4>

	attacks, clean-ups, upgrades, back-ups) - 75% of effort in M12/M13		
EF	Review Jenkins infrastructure	75%	
EF	Replace Nagios	100%	
<i>Launch of failover environment</i>			
No work was done in M12/M13.			
<i>DNS (Domain Name System) consolidation</i>			
No work was done in M12/M13.			
<i>Re-establishing application monitoring services</i>			
No work was done in M12/M13.			
APIs are sustainable and high performing			
EF	The Search and Record APIs are significantly improved	5%	
<i>Establishing authentication and authorisation services (SSO)</i>			
EF	API and end-users are centrally managed and Single Sign On (SSO) is ready to be used	90%	

Infrastructure is sustainable and high performing

Replace Nagios: EF replaced the hardware and updated the software version for Nagios⁷ one of the monitoring systems of Europeana. Now EF has improved monitoring capabilities.

Work package 2: Quality assured content supply

WP2 is about making sure that the collections flowing through the DSI are of the best quality possible. This year our strategy revolves around providing better information to aggregators and CHIs, driving data quality plans, taking direct action on broken links and low quality content (tier 0), and establishing the foundations for third party enrichments and corrections.

Task 2.1. Aggregators and providers are motivated to raise the quality of collections

Partners: EF, APEF, BL, CARARE, AthenaRC, MCA, eFashion, DIF, NISV, AIT-Graz, PhotoCons, and NTUA




⁷ <https://www.nagios.org/>

Aggregators and providers were motivated to raise the quality of collections. EF and aggregator partners built appreciation and insight by communicating the value of being part of the Europeana Initiative. EF and aggregating partners supported and assisted content providers and aggregators to ingest content to the Europeana DSI platform via outreach events and workshops (directly and via aggregators), and by one-to-one support.

As part of its efforts EF also redesigns Europeana Pro to drive better outcomes with partners, and releases a statistics dashboard to aggregators and providers.

Overview of outcomes

Partner	Outcomes	Progress	Aug M12	Sep M13	Oct M14	Nov M15	Dec M16	Jan M17	Feb M18	Mar M19
<i>Build appreciation and insight by communicating the value of being part of the Europeana Initiative</i>										
EF	Helpdesk activities for aggregators	Ongoing	■	■	■	■	■	■	■	■
DSIA	Helpdesk activities for CHIs	Ongoing	■	■	■	■	■	■	■	■
EF	List of aggregator specific events (MS36)	100%	■							
EF	Schedule of content provider support events (MS37)	100%	■							
EF	Overview of new (potential and proposed) content providers per Aggregating Partner (MS15)	100%	■							
EF	New accredited aggregators: Latvia, Ireland, Czech Republic, Finland	97%	■	■	■					
EF	Develop a 2020 programme of activities for the EAF	10%	■	■	■	■	■			
EF/ DSIA	Europeana Aggregators Forum: Stockholm (MS38)	90%	■	■	■					
EF	National workshop: Stockholm	90%	■	■	■					
EF	National workshop: Frankfurt	70%	■	■	■	■				
<i>Redesign Europeana Pro to drive better outcomes with partners</i>										
EF	Launch of new Europeana Pro (MS79)	50%	■	■	■	■	■	■	■	■
EF	Information architecture navigation design and implementation	100%	■							
EF	Customer journey workshop (EAF, ENA, CHIs)	75%	■	■	■					
EF	Full editorial review and update	25%	■	■	■	■	■	■	■	

<i>Evaluate the implementation of the Europeana Publishing Framework (EPF), research future updates to EPF</i>			
EF	EPF 2.0 updated with metadata component and published	100%	
EF	Support aggregators in the implementation of the EPF2.0 (MS7)	10%	
<i>Releasing statistics dashboard integrated with Metis</i>			
EF	Statistics dashboard (V1) (MS4)	100%	

Build appreciation and insight by communicating the value of being part of the Europeana Initiative

List of aggregator specific events (MS36) - in the first year of Europeana DSI-4, EF and DSI aggregator partners were involved in two national workshops (Slovenia, Austria), two Europeana Aggregators' Forum meetings and 32 other events, including training sessions and network meetings. Previous events were reported with the bi-monthly progress reports.

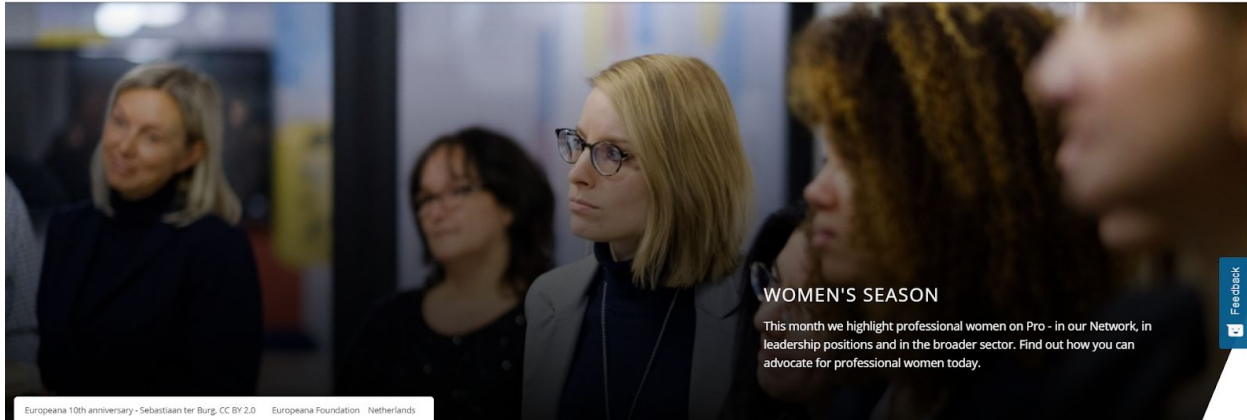
Schedule of content provider support events (MS37) - all DSI aggregating partners and EF maintain a list of content provider support events, that is updated every two months. To date 12 events are scheduled for the second year of Europeana DSI-4.

Overview of new (potential and proposed) content providers per Aggregating Partner (MS15)

In the first year of Europeana DSI-4, the DSI aggregating partners started to work with a total of 18 new cultural heritage institutions from 8 countries.

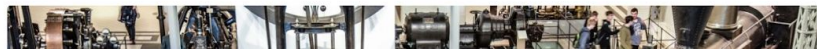
Redesign Europeana Pro to drive better outcomes with partners

Information architecture navigation design and implementation - the new information architecture focuses on serving Europeana Foundations' main customer groups, the cultural heritage institutions (CHIs), the Europeana Aggregators' Forum (EAF), and the Europeana Network Association (ENA) members. From our customer journey workshops, we learned that the primary goal of the CHIs for joining Europeana is to be a part of an international initiative. They want to disseminate their content to a broader audience with the intent to increase traffic to their website. The EAF wants tools and resources to provide a better service to the CHIs. The ENA want to network internationally, find other experts in the same field, and advocate for open access.



JOIN EUROPEANA

Innovate in culture through technology. Share ideas, data and best practice to the highest standard. Join the European movement for digital culture.



New navigation menu on the Europeana Pro website

Evaluate the implementation of the Europeana Publishing Framework (EPF), research future updates to EPF

EPF 2.0 updated with metadata component and published - Work on the metadata component of the Europeana Publishing Framework (EPF) finished as part of the work of the Data Quality Committee⁸, with most aggregating partners participating (AIT Graz, BL, CARARE, DFF, Europeana Fashion, NISV, Photoconsortium). EF published the updated EPF booklet in September⁹.

Releasing statistics dashboard integrated with Metis

Statistics dashboard (V1) (MS4) - We developed a Proof of Concept (POC) of the Statistics Dashboard. This POC focused on trying to extract content and metadata tiers information through different filters (per country, per providers...) from the Europeana API. This POC will be used to further develop the concept for (a) production service(s).

Overview of KPIs¹⁰

No.	Description	Target M12	Jun M10	Jul M11	Aug M12	Target M24	Sep M13

⁸ <https://pro.europeana.eu/project/data-quality-committee>

⁹ <https://pro.europeana.eu/post/publishing-framework>

¹⁰ Satisfaction metrics will be measured once a year.

2.1	Percentage of surveyed CHIs that rate the relation with its aggregator (partner in Europeana DSI-4) 4 or higher on a Likert scale of 1-5	60%		85%		95%	
2.2	Percentage of surveyed aggregators that rate the relation with Europeana 4 or higher on a likert scale of 1-5	60%		55%		65%	
2.3	Total number of national workshops run	2	2	2	2	2	0

Overview of reporting requirements

Description	Sep M13	Nov M15	Jan M17	Mar M19	May M21	Jul M23
Total number of individual CHIs supported by DSIA	38	-	-	-	-	-
Total number of countries that received support by DSIA	17	-	-	-	-	-

Overview of communication and dissemination efforts

Partner	Name of event	Activity	Location	Date
MCA	Creative Schools - Erasmus+	KOM of the project on DCH & schools / MCA is partner	Paris, France	2019-09-30 - 2019-10-01
PhotoCons	Vernissage WeAre#EuropeForCulture	Launch of the Lithuanian exhibition from the WeAre#EuropeForCulture series/dissemination of Europeana ¹¹	Vilnius, Lithuania	2019-09-27
PhotoCons	Workshop & vernissage WeAre#EuropeForCulture	WeAre#EuropeForCulture series was the occasion to disseminate about Europeana and EPF and to play with photographic content in Europeana collections ¹²	Basel, Switzerland	2019-09-17 (vernissage) and 2019-08-28 (co-creation workshop)
PhotoCons	Vernissage of 50s in Europe Kaleidoscope exhibition ¹³	The vernissage conference highlighted the role of Europeana for spreading	Pisa, Italy	2019-09-06

¹¹ <https://www.photoconsortium.net/vilnius-exhibition/>

¹² <https://www.photoconsortium.net/das-familienportrait-exhibition-basel/>

¹³ <https://www.photoconsortium.net/blue-skies-red-panic-photo-exhibition-in-pisa-6-20-september-2019/>

		culture and improving visibility of photographic heritage. Europeana factsheets in Italian language were distributed.		
PhotoCons	Vernissage Blue Skies, Red Panic exhibition ¹⁴	Launch of the travelling exhibition from the GS Kaleidoscope project. of course Europeana was widely disseminated and promoted	Pisa, Italy	2019-09-06
CARARE	ICOM 2019 ¹⁵	Raised awareness of CARARE and its metadata schema; participated in discussions on the documentation of born digital objects in Spectrum and LIDO.	Kyoto, Japan	2019-09-3/4
PhotoCons	Workshop WeAre#EuropeForCulture	Co-creation workshop: occasion to disseminate about Europeana and EPF and to play with photographic content in Europeana collections ¹⁶	Basel, Switzerland	2019-08-28

Task 2.2. Raise quality of aggregated data

Partners: EF, APEF, BL, CARARE, AthenaRC, MCA, eFashion, DIF, NISV, AIT-Graz, PhotoCons, and NTUA

EF works together with aggregators to ensure the quality of collections on Europeana Collections meets the standards set for Europeana DSI (e.g. frameworks and guidelines). The key mechanism for driving this are aggregator's data quality plans. We will continue to work with them to correct rights fields, to improve discovery of records, and upgrade the quality of content and data. Additionally, EF will take direct action to improve quality by removing or hiding material that is not improving, starting by resolving high impact issues such as tier 0 content and legacy broken links.

Overview of outcomes

Partner	Outcomes	Progress	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
			M12	M13	M14	M15	M16	M17	M18	M19
EF	Data publication (DSI, Generic services, and others)	Ongoing								
<i>Resolving the issue of low quality data (tier 0) in the collections experience, resolving broken link issues in collections experience, and agreeing actions coming from the audit of the longtail of data issues</i>										

¹⁴ <https://www.photoconsortium.net/blue-skies-red-panic-photo-exhibition-in-pisa-6-20-september-2019/>

¹⁵ <https://icom-kyoto-2019.org/>

¹⁶ <https://www.photoconsortium.net/das-familienportrait-exhibition-basel/>

EF	Automatic identification of broken links (MVP)	20%																	
EF	Plan for longtail of ongoing data issues (MS74)	100%																	
<i>Raise quality by establishing data quality plans and resolution processes with aggregators and data providers</i>																			
DSIA	Data quality improvements and new content	Ongoing																	
EF/ DSIA	Review of DSI data quality plans (MS11)	100%																	
EF/ DSIA	Aggregators data quality work plans updated (MS10)	100%																	
EF	Review of data quality plans and ingestion planning for Europeana Common Culture ¹⁷	20%																	
EF	Set-up a ticketing system to report data issues to aggregators (MS29)	30%																	

Resolving the issue of low quality data (tier 0) in the collections experience, resolving broken link issues in collections experience, and agreeing actions coming from the audit of the longtail of data issues

Plan for longtail of ongoing data issues (MS74) - Raising the quality of aggregated data is a key objective for the Europeana Initiative now and in the years to come. This report specifies the areas of work to make data compliant to the EPF and to move data up the tiers. Furthermore, there are other areas of work that are not addressed by the EPF, but are relevant in the context of data quality which are also specified in the report. This will function as a baseline to prioritise work on quality improvements over the coming years.

Raise quality by establishing data quality plans and resolution processes with aggregators and data providers

Review of DSI data quality plans (MS11) - At the start of Europeana DSI-4, every DSI aggregating partner established a data quality plan to indicate the work planned for the first year of the project to improve the quality of data provided to Europeana DSI. The document provides a summary of the achievements per aggregator in year one of Europeana DSI-4 against the objectives that were agreed for the individual data quality plans.

Aggregators data quality work plans updated (MS10) - In September DSI aggregators with support of EF updated the data quality plans for the second year of Europeana DSI-4.

¹⁷ <https://pro.europeana.eu/project/europeana-common-culture>

Besides new targets for the 2nd year, the main amendment was the focus on objectives in line with the newest version of the Europeana Publishing Framework. This includes targets for the metadata tiers.

Overview of KPIs

No.	Description	Target M12	M10	M11	M12	Target M24	M13
2.4	Data in tier 1	< 35.5%	35.90%	40.50%	40.10%	< 30%	40.10%
2.5	Data in tier 2	> 24.5%	16.30%	20.70%	20.80%	> 35%	20.70%
2.6	Data in tier 3	> 4%	7%	8.90%	9.10%	> 5%	9.00%
2.7	Data in tier 4	> 20%	23.40%	29.90%	30.10%	> 30%	29.80%
2.8	Tier 2 and above (high quality content)	> 40%	46.70%	59.50%	59.90%	> 70%	59.40%
2.9	Tier 3 and above (high quality + reusable content)	> 30%	30.40%	38.80%	39.10%	> 35%	38.80%
2.10	Number of broken links (out of total) ¹⁸	0	-	-	-	0	-

Our two main KPIs for data quality are KPI 2.8 (high quality content) and KPI 2.9 (high quality + reusable content). We already achieved our target for tier 3+ material. With the aggregators' data quality improvement plans in place and the contributions from a number of Generic Services projects (mainly Europeana Common Culture) we expect to also reach our targets for tier 2+ material by August 2020 (M24).

Overview of reporting requirements

Description	May M09	Jun M10	Jul M11	Aug M12	Sep M13
Number of datasets updated (out of total)	48	50	14	21	56
Number of records updated (out of total)	-	1,842,313	495,536	223,380	1,403,073
Data in Tier 0 (metadata)	-	-	53.10%	53.20%	52.80%
Data in Tier A (metadata)	-	-	37.90%	37.50%	37.70%
Data in Tier B (metadata)	-	-	8.60%	8.80%	9.00%

¹⁸ This KPI is tight to the outcome 'Automatic identification of broken links (MVP)' due in January 2020.

Data in Tier C (metadata)	-	-	0.50%	0.50%	0.50%
Total number of new institutions under Europeana DSI-4	-	-	-	-	8

Data quality improvements per aggregator based on the EPF¹⁹

Month	Total ²⁰	Content				Metadata			
		Tier 1	Tier 2	Tier 3	Tier 4	Tier 0	Tier A	Tier B	Tier C
APEF									
Aug	302,950	87.19%	4.16%	8.43%	0.22%	98.55%	1.45%	0.00%	0.00%
Sep	302,950	87.19%	4.16%	8.43%	0.22%	98.55%	1.45%	0.00%	0.00%
BL (Europeana Sounds)									
Aug	449,175	84.90%	2.61%	6.98%	5.51%	50.62%	16.70%	25.40%	7.28%
Sep	449,175	84.90%	2.61%	6.98%	5.51%	50.62%	16.70%	25.40%	7.28%
CARARE / AthenaRC									
Aug	1,878,861	23.77%	16.48%	2.61%	57.14%	27.29%	21.66%	46.21%	4.84%
Sep	1,878,861	23.77%	16.48%	2.61%	57.14%	27.29%	21.66%	46.21%	4.84%
MCA									
Aug	2,633,200	58.51%	34.30%	5.29%	1.91%	27.96%	51.77%	20.20%	0.07%
Sep	2,633,200	58.51%	34.30%	5.29%	1.91%	27.96%	51.77%	20.20%	0.07%
eFashion									
Aug	810,817	10.79%	88.53%	0.03%	0.65%	0.00%	9.02%	90.98%	0.00%
Sep	810,817	10.79%	88.53%	0.03%	0.65%	0.00%	9.02%	90.98%	0.00%
DFF (EFG - The European Film Gateway)									
Aug	589,369	81.55%	18.30%	0.00%	0.15%	59.13%	28.00%	12.87%	0.00%
Sep	582,236	82.21%	17.64%	0.00%	0.15%	59.86%	27.33%	12.74%	0.08%

¹⁹ Data quality improvements are done based on data quality improvement plans per aggregator. In case an update was delivered to Europeana DSI in the reporting period and the percentages of tiers changed compared to the previous reporting period an explanation is added to this report.

²⁰ The total figure are excluding all content not compliant to the EPF (tier 0).

NISV (EUscreen)									
Aug	503,980	74.39%	23.74%	0.26%	1.60%	70.96%	29.04%	0.00%	0.00%
Sep	503,980	74.39%	23.74%	0.26%	1.60%	70.96%	29.04%	0.00%	0.00%
AIT-Graz (OpenUp!)									
Aug	7,621,396	2.17%	12.80%	7.26%	77.78%	71.45%	28.55%	0.00%	0.00%
Sep	7,618,622	2.13%	12.80%	7.26%	77.80%	71.44%	28.56%	0.00%	0.00%
PhotoCons									
Aug	415,388	50.64%	28.36%	19.18%	1.82%	0.00%	37.08%	62.92%	0.00%
Sep	394,421	50.27%	27.61%	20.21%	1.92%	0.00%	38.95%	61.05%	0.00%

DFF (EFG - The European Film Gateway)

The updates published by DFF in the reporting period reflect what was reported previously by DFF, as publication of data by EF was delayed. One of the outcomes implemented with the updates was to ensure a proper dereferencing of Geoname links in the data provided by DFF.

AIT-Graz (OpenUp!)

The key characteristics of updates of the three OpenUp! sets in summer 2019 concerned the update of link information to digital objects in the metadata; direct linking to the digital object file (ZFMK) as well as linking to a new web presence of the object (NBGB). Furthermore, the metadata quality was raised by providing richer geolocation information using geo URIs (GIT).

Photocons

Photocons updated datasets for implementing the metadata improvements foreseen in the data quality plan, adding date and language information to the metadata. Priority is currently given to finalise datasets that are needed for curation/editorial tasks, such as the preparation and launch of the Blue Skies, Red Panic new virtual exhibition, and the upcoming editorial season about traditional / folkloristic games and plays. An example of the latter is the publication of a small batch of high-quality new records by the Promoter Digital Gallery, depicting the Gioco del Ponte di Pisa (the Battle of the Bridge).²¹

²¹

https://www.europeana.eu/portal/en/record/2024919/photography_ProvidedCHO_Promoter_Digital_Gallery_IM_G0106TOSCANA.html

Task 2.3. Published data is further enriched for end users

Partners: EF

In recognition that there are limits to what aggregators, CHIs, and EF can do to improve data at scale, we are also investing in APIs that would allow third-parties, external to EF, to suggest enrichments. Annotation API is a new data service that will also be the interface by which running Generic services projects (Crowd Heritage and Enrich Europeana) are going to pass crowdsourced enrichments to the platform.

Overview of outcomes

Partner	Outcomes	Progress	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
			M12	M13	M14	M15	M16	M17	M18	M19
<i>Extend the EDM annotation profile and the API to cover new GS requirements</i>										
EF	EDM model for annotations agreed and finalised	95%	■	■	■	■				
EF	Updated Annotation API for generic services	50%	■	■	■	■				
<i>Design display of annotations on item pages</i>										
No work was done in M12/M13.										

Task 2.4. Influence and organise global interoperability efforts to benefit CHIs

Partners: EF

Global interoperability across the CHI network is an important foundation of Europeana's work. The evolution of interoperability efforts largely progress through involvement in external working groups, task forces, and committees, but also through the creation and dissemination of research reports and reference papers. Updates to the Europeana Data Model will also be implemented on an ongoing basis.

Overview of outcomes

Partner	Outcomes	Progress	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
			M12	M13	M14	M15	M16	M17	M18	M19
<i>Maintain and extend interoperability by co-ordinating the development and documentation of the Europeana Data Model</i>										
EF	EDM updated (documentation, model)	Ongoing	■	■	■	■	■	■	■	■
<i>Supporting data mapping and conversions with stakeholders</i>										
EF	Conversation with stakeholders on data mapping (EU Open data portal, Wikimedia)	Ongoing	■	■	■	■	■	■	■	■

<i>Producing and disseminating research reports</i>			
EF	Producing and disseminating research reports	Ongoing	
<i>Co-ordinating and contributing to working groups, task forces, and committees</i>			
EF	Contribute to working groups (WG), task forces (TF), and committees	Ongoing	
EF	Coordinate Rightsstatements.org's Technical Working Group	Ongoing	
EF	Coordinate the IIF Discovery Technical Specification Group	Ongoing	
EF	Contribution to the TPD2019 Organization	100%	
<i>EuropeanaTech community²²</i>			
EF, NISV	EuropeanaTech community coordination (SG activities, Twitter, mailing list)	Ongoing	
EF	EuropeanaTech WG: Data Quality Committee ²³	Ongoing	
EF	EuropeanaTech TF: Interoperability of annotations and user sets ²⁴	70%	
EF, CARARE	EuropeanaTech TF: 3D content in Europeana ²⁵	70%	
EF, NISV	EuropeanaTech survey	70%	
EF, NISV	EuropeanaTech community: Europeana 2019 event	60%	

Co-ordinating and contributing to working groups, task forces, and committees

Contribution to the TPD2019 Organization - EF was invited to co-chair the program committee of the conference on Theory and Practice of Digital Libraries. This consisted of recruiting a committee of experts, coordinating their work assessing the papers submitted for publication at the conference, and making the final selection based on their input. The TPD2019 conference is an important venue for publication of R&D work relevant to Europeana DSI, and members of the EuropeanaTech community have been involved in the conference since its earliest editions. Being involved in the organisation was a unique opportunity to

²² <https://pro.europeana.eu/network-association/special-interest-groups/europeanatech>

²³ <https://pro.europeana.eu/project/data-quality-committee>

²⁴ <https://pro.europeana.eu/project/interoperability-of-annotations-and-user-sets>

²⁵ <https://pro.europeana.eu/project/3d-content-in-europeana>

show Europeana's commitment to the community, and to get first-hand insight on the community activity and priorities beyond the traditional Europeana circles.

Overview of KPIs

No.	Description	Target M12	Jun M10	Jul M11	Aug M12	Target M24	Sep M13
2.11	Total number of reference papers or presentations	10	14	15	15	10	2
5.5	Satisfaction of EuropeanaTech members	30				35	_ ²⁶

Research publications and outreach events

Partner	Name of event	Activity	Location	Date
INESC-ID, EF	Metadata Best Practices Day ²⁷	Presentation about Europeana and EDM best practices. 'The Europeana Data Model – Principles, Community and Innovation.'	Seoul, Korea	2019-09-26
INESC-ID, EF	Dublin Core Conference 2019	Publication and presentation of research paper 'Wikidata's linked data for cultural heritage digital resources: An evaluation based on the Europeana Data Model' ²⁸	Seoul, Korea	2019-09-24
EF	TPDL2019 proceedings	Publication of conference proceedings : Digital Libraries for Open Knowledge. Proceedings of the 23rd International Conference on Theory and Practice of Digital Libraries, TPDL 2019, Oslo, Norway, September 9-12, 2019, Doucet, A., Isaac, A., Golub, K., Aalberg, T., Jatowt, A. (Eds.) ²⁹	-	2019-09

2.5. Maintain Europeana Licensing Framework and Rightsstatements.org

Partners: EF

The Europeana Licensing Framework (ELF) standardises rights related information and practices across cultural heritage domains and EU member states. The Europeana Licensing Framework will be maintained and updated by EF.

²⁶ Results expected November 2019.

²⁷ https://www.dublincore.org/conferences/2019/best_practice_day/

²⁸ <https://www.dublincore.org/conferences/2019/abstracts/#16>

²⁹ <https://doi.org/10.1007/978-3-030-30760-8>

Overview of outcomes

Partner	Outcomes	Progress	Aug M12	Sep M13	Oct M14	Nov M15	Dec M16	Jan M17	Feb M18	Mar M19
Europeana Licensing Framework (ELF)										
EF	ELF management (review of ELF policies, support rights issues in data ingestion process, update documentation, implementation of rightsstatements.org)	Ongoing								
EF	Management of the adoption of multilingual rights information	Ongoing								
EF	Europeana strategy to manage copyright 2020+	70%								
EF	Develop UGC policy to support Europeana Generic Services	20%								
EF	Connect Europeana data back into Creative Commons search	60%								
Europeana Copyright community³⁰										
EF	Europeana Copyright community management	Ongoing								
EF	Europeana Copyright community: Twitter ³¹	Ongoing								
EF	Europeana Copyright community survey	80%								
EF	Europeana Copyright community: Europeana 2019 event	50%								
Rightsstatements.org³²										
EF	RightsStatements.org management	Ongoing								
EF	RightsStatements.org: translations	Ongoing								
EF	New CMS and translation system operational	80%								
EF	RightsStatements.org: development of implementation package	40%								
EF	Development of new membership and business model	50%								

³⁰ <https://pro.europeana.eu/network-association/special-interest-groups/europeana-copyright>

³¹ <https://twitter.com/europeanaipr?lang=en>

³² <https://rightsstatements.org/en/>

Overview of KPIs³³

No.	Description	Target M12	Jun M10	Jul M11	Aug M12	Target M24	Sep M13
2.12	Percentage of active aggregators that integrated rightsstatements.org in their infrastructure	25%		61%		35%	_34

Work Package 3: Fostering reuse of digital cultural heritage resources

WP3 fosters reuse of digital cultural heritage by community engagement and markets and audience outreach. We build up market-specific communities to bring together various stakeholders on the reuser markets education and academic research. For even stronger engagement, we work with selected market partners on cross-promotion and joint community outreach campaigns.

Task 3.1. Engage with educational communities

Partners: EF, EUN, EUROCLIO

The work under this task aims to embed relevant Europeana resources in various educational systems and increase awareness of Europeana as a resource for education.

Overview of outcomes

Partner	Outcomes	Progress	Aug M12	Sep M13	Oct M14	Nov M15	Dec M16	Jan M17	Feb M18	Mar M19
Communication and dissemination										
EF	Europeana Pro communications (blogs ³⁵)	Ongoing								
EF	Europeana Education LinkedIn group	Ongoing								
EF	Europeana Education Facebook Group ³⁶	Ongoing								
Europeana Education community										
EF	Europeana Education community coordination	Ongoing								
EF	Best practices and case studies on using	10%								

³³ KPI will be measured once a year.

³⁴ KPI will be measured once a year.

³⁵ <https://pro.europeana.eu/pages/blog/news/markets/education>

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

	digital culture in education								
EF	Translation of 'Guide to Using Europeana in Education'	100%							
EF	Education community: Europeana 2019 event	40%							
EF	ICOM Portugal and museum representatives meeting	30%							
EF	Workshop for history educators in Romania	80%							
Integration of Europeana resources on educational platforms									
EF	Integration in Photoconsortium educational platform	100%							

Europeana Education community

Translation of 'Guide to Using Europeana in Education' - thanks to an open call launched at the beginning of August on our Facebook Group the guide is available since mid September in nine additional languages: Dutch, Turkish, Croatian, Serbian, Icelandic, Armenian, Greek, Macedonian and Romanian³⁷.

Integration of Europeana resources on educational platforms

Integration in Photoconsortium educational platform - PHOTOCOONSORTIUM is the international consortium for the promotion of photographic heritage. It is a non for profit association which members are important public and private cultural heritage institutions, photographic agencies, professionals and amateurs of vintage photography. They have since August 2019 an educational portal where the main Europeana resources for educators such as the MOOCs or the Teaching with Europeana blog are displayed³⁸.

Subtask 3.1.1. Maintain and develop governmental partnerships (Ministries of Education)

Partners: EF

EF will continue the established collaborations with the Ministries of Education in France, Spain, Portugal, Italy and Finland and will develop relationships with 2-3 more Ministries of Education in Europe till the end of 2019. Main outcomes of these collaborations include the representation of Europeana and selected Europeana resources on their national educational portals, API integration and connections to teachers on national level.

³⁷ <https://pro.europeana.eu/post/guide-to-using-europeana-in-education>

³⁸ <https://www.photoconsortium.net/educationalportal/europeana-for-education/>

Overview of outcomes

Partner	Outcomes	Progress	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
			M12	M13	M14	M15	M16	M17	M18	M19
EF	Collaboration with Ministries of Education (Greece and Croatia)	Ongoing								

Subtask 3.1.2. Maintain and develop non-commercial partnerships

Partners: EF, EUN, EUROCLIO

EUN and EUROCLIO are our key noncommercial partners.

EUN coordinates two groups of teachers to raise awareness about Europeana Collections and to foster their reuse of cultural heritage for digital learning: Europeana Teacher User Group and Europeana Teacher Ambassador network. The Europeana Teacher Ambassador network will support the project by leading the development of learning scenarios with Europeana content as well as the promotion and adoption of these resources at national level. The Europeana Teacher User Group will animate the Teach with Europeana blog³⁹ by adding new learning scenarios and stories of implementation and delivering feedback to other teachers.

EUROCLIO will continue to publish digital learning resources with Europeana content on Historiana⁴⁰ to raise general awareness of the existence of Europeana as an educational resource in their network of history teachers across Europe.

Overview of outcomes

Partner	Outcomes	Progress	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
			M12	M13	M14	M15	M16	M17	M18	M19
European Schoolnet (EUN)										
EUN	Communication and dissemination activities	Ongoing								
EUN	Communication plan for the promotion of Europeana in education (MS42)	50%								
EUN	Publication for ministries of education (booklet)	100%								
EUN	Brochure/facts sheet for teachers	100%								
EUN	Promotional videos for teachers and ministries	100%								
EUN	23 Webinars displayed on Youtube	100%								

³⁹ <https://teachwittheuropeana.eun.org/>

⁴⁰ <https://historiana.eu/#/>

EUN	Teasers (short videos) for teachers and ministries	10%	■	■	■	■	■										
EUN	Meetings of the teacher ambassador network (MS39)	25%	■	■	■												
EUN	Development of learning scenarios (MS71)	100%	■														
EUN	Development of stories of implementation	100%	■														
EUN	Europeana MOOC (EN/ES/PT) updated (MS40)	75%	■	■	■	■	■	■	■								
EUN	Europeana MOOC (FR/IT) (MS41)	25%	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Historiana																	
EUROCLIO	Communication and dissemination activities	Ongoing	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
EUROCLIO	SEO of published Europeana content on Historiana	Ongoing	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
EUROCLIO	Workshops for history educators and trainees: October	50%		■	■												
EUROCLIO	eLearning activities developed (MS45)	10%	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
EUROCLIO	Source collections published (MS43)	20%	■	■	■	■	■	■									
EUROCLIO	Teaching Training Package updated (MS44)	10%	■	■	■	■	■	■	■								
EUROCLIO	Fit for education case study (MS46)	10%	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

European Schoolnet (EUN)

Publication for ministries of education (booklet) - the 'Europeana Education - An initiative to integrate cultural heritage into classrooms' booklet was published at the end of August 2019.⁴¹ It discusses the collaboration between Europeana DSI and European Schoolnet during the 2018-2019 academic year and presents the upcoming activities of the Europeana DSI-4 project for the new academic year. This is an overview addressed to Ministries of Education and other stakeholders in the domain. 200 copies were printed and will be distributed in the coming months at relevant events.

⁴¹ <https://pro.europeana.eu/post/europeana-education-an-initiative-to-integrate-cultural-heritage-in-education>

Brochure/facts sheet for teachers - in this brochure, we provide the most relevant facts and figures reached by the community of teachers such as the number of learning scenarios and associated resources created⁴². 1,000 copies were printed and will be distributed by EF and EUN in events and will also be offered to the Europeana Teachers Ambassadors to spread the word about Europeana DSI in their countries to fellow educators.

Promotional videos for teachers and ministries - in the first year of Europeana DSI-4, EUN published four dissemination videos. The fourth dissemination video was released at the end of August 2019 and summarises the work of EUN and the teacher community in the first project year⁴³.

23 Webinars displayed on Youtube - the 13 Europeana Ambassadors organised webinars on national level. By the end of July 2019, 24 out of the scheduled 24 webinars took place and 23 were recorded⁴⁴. The webinars altogether attracted 509 participants and 565 views on YouTube⁴⁵.

Development of learning scenarios (MS71) and stories of implementation - 213 learning scenarios and 85 Stories of Implementation were developed by the Europeana User group of teachers during the first year of Europeana DSI-4. They cover a variety of topics such as Languages, History, Geography, Physics, Biology, Social Sciences, Mathematics, and address primary and secondary education levels. EUN is communicating about the publication of these resources up until the beginning of November 2019. As of the end of September 2019, 193 learning scenarios and 66 Stories of Implementation were published on the Teaching with Europeana blog⁴⁶. Ultimately, the blog is a meeting point for European teachers searching for resources and advice.

Overview of KPIs

No.	Description	Target M12	Jun M10	Jul M11	Aug M12	Target M24	Sep M13
3.1	Total number of learning resources using Europeana data	Min. 200	228	287	350	Min. 200	_ ⁴⁷
3.2	Total number of integrations of Europeana data in learning environments	5	1	1	1	5	1

⁴² <https://pro.europeana.eu/post/teachers-brochure>

⁴³

<https://teachwitheuropeana.eun.org/updates/europeana-2018-2019-one-year-of-digital-cultural-heritage-in-the-classroom/>

⁴⁴ https://www.youtube.com/watch?v=CAC-qG3dQFc&list=PLtA54levDap1wksYqKPpo1-kXGV_s1RUu

⁴⁵ Data retrieved 22nd of August 2019.

⁴⁶ <https://teachwitheuropeana.eun.org/>

⁴⁷ In progress.

3.3	Satisfaction rate in the education market (NPS) ⁴⁸	20		61	61	66	
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Towards fostering reuse of digital cultural heritage resources we performed very well by creating 350 learning resources using Europeana data, exceeding our target of 200 learning resources in the first year of Europeana DSI-4.

Total number of integrations of Europeana data in dynamic learning environments in year one was behind target. The work with educational partners during the first year of Europeana DSI-4 showed low interest in the API integration of the whole (or selected) Europeana Collections; instead, the partners had a clear preference for featuring curated and ready-made resources (for example, learning scenarios or source collections) in their systems and portals. For these reasons, the new integrations will, most likely, not be “dynamic” e.g. of API type but integrations of relevant Europeana learning resources. In September we had one new integration into Photoconsortium educational platform (see above for more information).

Communication and dissemination activities

Partner	Name of event	Activity	Location	Date
EUN	Astronomy in Education conference of the International Astronomy Union ⁴⁹	Presentation	Munich, Germany	16-09-2019
EUN	STE(A)M conference organized by the Siauliai municipality	Presentation	Siauliai, Lithuania	27-09-2019

Subtask 3.1.3. Maintain and develop commercial partnerships

Partners: EF

The commercial partners were the least responsive group out of our three target ones (governmental, noncommercial and commercial). Therefore, we will lower the priority of this educational user group and re-direct the efforts towards collaborations with CHI's educational departments. In this way, our activities will be more aligned with Europeana's strategic focus on cultural heritage institutions.

⁴⁸ The NPS is calculated based on the average of NPS scores received at individual workshops, MOOCs, conferences/presentations throughout the year.

⁴⁹ <https://iau-dc-c1.org/astroedu-conference/>

Task 3.2. Engage with academic research communities

Partners: EF, ATHENARC, and CLARIN

EF and AthenaRC increases the awareness of researchers of Europeana data as a trusted source of cultural heritage and its use to develop new knowledge and insights from our past, or to create new research methodologies. We continue the successful collaboration with CLARIN who already ingested Europeana data in their web service via our API. In addition to CLARIN, collaborations with other research infrastructures are further developed.

Overview of outcomes

Partner	Outcomes	Progress	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
			M12	M13	M14	M15	M16	M17	M18	M19
EF	Europeana Research advisory board ⁵⁰	Ongoing	█	█	█	█	█	█	█	█
EF	Europeana Research grants programme (MS51) ⁵¹	50%	█	█	█	█				
CLARIN	Case study on content integration in CLARIN VLO	100%	█							
EF	Featuring Europeana APIs on the EOSC platform ⁵²	100%	█							
EF	OCLC integration	40%	█	█	█	█				
Communication and dissemination										
EF, ATHENA RC	Europeana Pro communications (blogs) ⁵³	Ongoing	█	█	█	█	█	█	█	█
EF	Twitter: @Eurresearch ⁵⁴	Ongoing	█	█	█	█	█	█	█	█
Europeana Research community										
EF	Europeana Research community coordination	Ongoing	█	█	█	█	█	█	█	█
EF	Research community TF: Research requirements ⁵⁵	70%	█	█	█	█	█			
EF	Europeana Research community: Europeana 2019 event	80%	█	█	█	█				

⁵⁰ <https://pro.europeana.eu/page/research-advisory-board>

⁵¹ <https://pro.europeana.eu/page/europeana-research-events-grants-programme-2019-call-for-submissions>

⁵² <https://www.eosc-portal.eu/europeana-apis>

⁵³ <https://pro.europeana.eu/pages/blog/news/markets/academic-research>

⁵⁴ <https://twitter.com/eurresearch?lang=en>

⁵⁵ <https://pro.europeana.eu/project/research-requirements>

Case study on content integration in CLARIN VLO

Further to the integration of 135,000 Europeana sources into the CLARIN Virtual Language Observatory (VLO) by March 2019, CLARIN provided a detailed report that was published in the form of case study in September 2019.⁵⁶ It describes all the steps of the selection process conducted by CLARIN, which was mainly based on the quality, accessibility, processability and reusability of the Europeana sources in category of digital language sources such as books, periodicals, newspapers, manuscripts and speech audios. For this reason, the document is for the benefit of institutions or infrastructures that manage platforms conceived for research purposes. The outcomes of our partnership with CLARIN were promoted at the CLARIN Annual Conference, Leipzig, 30 September - 2 October 2019.

Featuring Europeana APIs on the EOSC platform

An entry point to the Europeana set of APIs (REST API) was built on the European Open Science Cloud Marketplace (EOSC), as an 'integrated platform that allows easy access to lots of services and resources for various research domains along with integrated data analytics tools.' EOSC-Hub announced the publication of the REST API via its website and Twitter account.⁵⁷ Our services is currently listed under the following categories: Sharing & Discovery; Processing & Analysis; Compute; Storage; Data Management. To encourage cultural heritage institutions to share their services and tools through the EOSC, we have organised a pre-conference workshop on the Europeana Annual Event 2019: *EOSC's Evolutionary Scenarios. New Perspectives for Digital Cultural Heritage*. Also, the Europeana Research Task Force included some questions about the EOSC in its survey, to measure and raise awareness of the opportunities that it offers to professionals interested in digital cultural heritage.

Overview of KPIs

No.	Description	Target M12	Jun M10	Jul M11	Aug M12	Target M24	Sep M13
3.4	Total number of case-studies implementing Europeana on research infrastructures	3			1	3 ⁵⁸	-

Communication and dissemination activities

Partner	Name of event	Activity	Location	Date
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⁵⁶ <https://pro.europeana.eu/post/clarin-case-study>

⁵⁷ <https://www.eosc-hub.eu/news/new-services-available-eosc-marketplace>

⁵⁸ Based on the Europeana Research strategic plan delivered in July 2019 the integration of Europeana sources into research platforms will not be a priority. Therefore this KPI is not valid anymore.

CLARIN	CLARIN Annual Conference ⁵⁹	Promotion of: <ul style="list-style-type: none"> - Integration of Europeana sources into the VLO; - CLARIN case-study; - Europeana Research Grants Programme; - Europeana Research TF's survey. 	Leipzig, Germany	2019-09-30 until 2019-10-02
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Task 3.3. Engage with creative industries communities

Partners: EF

The creative industries market is large and heterogenous and thus the outreach activities there are time and labour intensive. Considering the available limited resources, the strategic focus on CHIs and the higher priority of other markets (for example, education), we will reduce the effort for the creative industries market. In this line of thought, EF funding opportunities for creative professionals, such as the Europeana Challenges and match funding calls, will be discontinued. We will inform the current users of the existing Europeana Labs channels (Twitter and newsletter) about this change and we will investigate a suitable API strategy to be concluded by February 2020 (Implementation plan, M18).

Work Package 4: Communication and Dissemination

Under this work package EF will undertake communications and dissemination activities to raise awareness of and promote Europeana and its services to cultural heritage institutions and aggregators as well as end-users (European Citizens).

Note: Communication and dissemination activities towards our markets education and academic research are described under the tasks related to the market under Work Package 3: Fostering reuse of digital cultural heritage resources.

Task 4.1. Communication and dissemination to CHIs and expert communities

Partners: EF, and Lovegrove

The primary communications platform for this market and our stakeholders is Europeana Pro⁶⁰. Communication to CHIs and expert communities will be disseminated through a number of key channels including Twitter and LinkedIn expert groups.

Overview of outcomes

Partner	Outcomes	Progress	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
			M12	M13	M14	M15	M16	M17	M18	M19

⁵⁹ <https://www.clarin.eu/event/2019/clarin-annual-conference-2019-leipzig-germany>

⁶⁰ <https://pro.europeana.eu/>

Europeana Pro												
EF	Publication of Pro News ⁶¹	Ongoing										
EF	Pro News theme: Digital Storytelling	100%										
EF	Pro News theme: Europeana Today (Europeana DSI-4)	100%										
EF	Pro News theme: Europe at Work	25%										
EF	Pro page for Europeana DSI-4 activities	75%										
EF	Online version of DSI-4 annual report	95%										
Europeana Communicators community ⁶²												
EF	Europeana Communicators community management	Ongoing										
EF	Europeana Communicators: monthly newsletter	Ongoing										
EF	Europeana Communicators: Europeana 2019 event	70%										
EF	Webinar: 'Solve-It-Session digital storytelling'	100%										

Europeana Pro

Pro News theme August: Digital Storytelling⁶³ - this theme explored digital storytelling in the context of promoting or engaging with cultural heritage and looked at examples of it in practice. In total seven blogs were published in August (plus one in September), for example 'Storytelling - What is digital storytelling and what has it got to do with cultural heritage?⁶⁴'. So far, the blogs reached almost 3,000 visits.

Pro News theme September: Europeana Today (Europeana DSI-4) - this theme examined work and progress in Europeana DSI activities highlighted as a priority in the Commission report of the independent evaluation on Europeana. In total three blogs were published in September (plus one in October).

- How material gets from GLAMs into Europeana Collections⁶⁵

⁶¹ <https://pro.europeana.eu/blog>

⁶² <https://pro.europeana.eu/network-association/special-interest-groups/europeana-communicators-group>

⁶³ https://pro.europeana.eu/tags/digital-storytelling?&page_tag_digital-storytelling=1

⁶⁴ <https://pro.europeana.eu/post/what-is-digital-storytelling-and-what-has-it-got-to-do-with-cultural-heritage>

⁶⁵ <https://pro.europeana.eu/post/how-material-gets-from-galleries-libraries-archives-and-museums-into-europeana-collections>

- (12 September, 352 visits)
- How we're improving the quality of the material in Europeana Collections⁶⁶
(19 September, 233 visits)
- How we're working to make sure culture is for everyone in any language⁶⁷
(30 September, 130 visits)
- How we're using smart tech to create richer cultural experiences⁶⁸
(11 October, 92 visits)

Europeana Communicators community

Webinar: 'Solve-It-Session digital storytelling' - the webinar took place on 13 September and was conceived as the first in a series of 'Solve-It-Sessions'. As part of efforts of the Europeana Communicators community, the sessions will support communications professionals in best practice to promote digital culture in action. This session looked at digital storytelling as a means to engage with and develop audiences either by communicating with or about cultural heritage using digital tools. 100 people registered in advance for the webinar and 39 took part. 10 participants completed the post-webinar survey. All respondents agreed (somewhat agree, agree or strongly agree) that the webinar was interesting, useful and enjoyable. A summary and watch-again video are available on Europeana Pro⁶⁹.

Overview of reporting requirements

Description	Aug M12	Sep M13	Oct M14	Nov M15	Dec M16
Number of visits to Europeana Pro per month	16,821	25,487	-	-	-
Number of visits to Pro News per month	6,576	9,183	-	-	-

Task 4.2. Communication and dissemination to European citizens

Partners: EF

Communication and dissemination to our end-users (European Citizens) aim to increase new visits and re-visits to the Europeana platform. Europeana Collections is expected to receive a minimum of 550,000 visits per month. Communication activities function on channels that Europeana owns (e.g. Europeana Collections, Transcribathon.eu) through for example blogs and our newsletters. We will also promote Europeana content on high-impact channels, where the users already are, like social media (e.g. Facebook, Twitter,

⁶⁶ <https://pro.europeana.eu/post/how-we-re-improving-the-quality-of-the-material-in-europeana-collections>

⁶⁷ <https://pro.europeana.eu/post/how-we-re-working-to-make-sure-culture-is-for-everyone-in-any-language>

⁶⁸ <https://pro.europeana.eu/post/how-we-re-using-smart-tech-to-create-richer-cultural-experiences>

⁶⁹ <https://pro.europeana.eu/post/webinar-watch-again-digital-storytelling-and-the-truth-about-being-human>

Pinterest) and work in collaboration with partners (e.g. GIPHY, DailyArt) to reach wider communities.

Overview of outcomes

Partner	Outcomes	Progress	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
			M12	M13	M14	M15	M16	M17	M18	M19
EF	Editorial strategy, partner engagement, preparation and publication (blogs, galleries, exhibition)	Ongoing	█	█	█	█	█	█	█	█
EF	Generic services editorial support (planning, advise, editing, publishing)	Ongoing	█	█	█	█	█	█	█	█
EF	Marketing strategy and communication: newsletter and social media (Facebook, Twitter, Instagram, Pinterest)	Ongoing	█	█	█	█	█	█	█	█
EF	Marketing strategy and partnerships (DailyArt, GIF IT UP)	Ongoing	█	█	█	█	█	█	█	█
Seasons										
EF	Europe@work season (MS78)	70%		█	█	█	█			
EF	Europe@work season: collection days	70%	█	█	█	█	█			
EF	Europe@work season: Daily Art cooperation	50%	█	█	█	█	█			
Exhibitions										
EF	Exhibition schedule (MS28)	100%	█							
EF	Exhibition: Fifties Kaleidoscope	70%		█	█					
EF	Exhibition: The Rise of Literacy in Europe	100%	█							
Transcribathons										
EF	Transcribathons: Enrich Europeana	Ongoing	█	█	█	█	█	█	█	
EF	Transcribathon: Versailles run online	100%	█							
Partnerships										
EF	GIF IT UP contest 2019	40%		█	█	█				
Wikimedia										
EF	CHIs engagement with Wikidata (events, workshops)	Ongoing	█	█	█	█	█			
EF	Europeana blogs referenced to	Ongoing	█	█	█	█	█			

	Wikipedia articles		
EF	'Wikimania' conference	100%	

Seasons

Europe@work season (MS78) - Europe at Work, Europeana's season in autumn 2019, shares the story of Europe through our working lives in the past and the present. In partnership with museums, galleries, libraries and archives across Europe, Europeana aims to show that the working world we inhabit today is rich and varied and is the result of a series of technological and societal changes over time. Europe at Work brings stories of our personal working lives together with archive material on industrial and labour-related heritage. Because work isn't just what we do. It's often who we are and where we've come from. It's an integral part of our cultural heritage. From September to December 2019, we will run a series of collection days which will record the stories of the people who have worked at industrial heritage sites across Europe. People across Europe can join online, by submitting a story about their working lives, or at events to which they bring their stories along with material such as pictures, diaries, videos and letters. Dedicated editorials will illustrate the story of our working lives in the past and the present through cultural heritage content on Europeana.

Exhibitions

*Exhibition: 'The Rise of Literacy in Europe'*⁷⁰ - the exhibition follows a chronological narrative from early demands to establish a formal education through structured learning practices to reading and writing with the help of alphabet books and catechisms. The exhibition was contributed by the Europeana Generic Services project 'Rise of Literacy'⁷¹. Since publication in August the exhibition received over 6,600 visits (up until 30 September) and an NPS of 60.

*Exhibition schedule (MS28)*⁷²

Title	Expected publication date
Blue Skies, Red Panic: Photographic Perspectives on the 1950s in Europe (50s in Europe Kaleidoscope Generic Services action)	October 2019
European Pillar of Social Rights (with DG EMPL)	December 2019
Celebrating Europe: Seasonal traditions across Europe (Europeana Common Culture Generic Services action)	February 2020
The transition from handwritten to printed texts (Rise of	April 2020

⁷⁰ <https://www.europeana.eu/portal/en/exhibitions/rise-of-literacy-in-europe>

⁷¹ <https://pro.europeana.eu/project/rise-of-literacy>

⁷² Exhibition titles and publication dates are provisional until full details are confirmed.

Literacy Generic Services action)	
Exhibition by Europeana Archaeology Generic Services action	May 2020
Exhibition by Linking Biodiversity Generic Services action	June 2020

Transcribathons

Transcribathon: Versailles run online - from 28 June to 31 August 2019 the Versailles Run⁷³ took place – an online Transcribathon with a thematic focus on stories from the post-war period (1918-1923). This run also encouraged participants to finish uncompleted documents on Transcribathon.eu⁷⁴ that are in edit mode and under review. Participants transcribed almost 1,400 documents and over a million characters. A grand total of 470 documents were fully completed.

Wikimedia

Wikimania - The annual global conference of the Wikimedia movement, held this year in Stockholm, had considerable involvement of Europeana – both presenting within the main program and with network partners hosting side events.⁷⁵ Three full-day Europeana-led workshops were also organised: a training workshop for small Swedish CHIs about Wikidata, the third biennial meeting of European Wikimedia CHI outreach coordinators, and the inaugural meeting of National Libraries which are utilising Wikidata (and its underlying software (*Wikibase*) in-house.⁷⁶

Overview of KPIs

No.	Description	Target M12	Jun M10	Jul M11	Aug M12	Target M24	Sep M13
4.1	Satisfaction rate for Europeana Collections	30			41	43	
4.2	Satisfaction rate for exhibitions (average per year)	30	49	49	48.5	53	60
4.3	Reach of Europeana data on third parties	150 million	130.7 million	141.7 million	153.2 million	170 million	12 million
4.4	Reach of Europeana data on social media (impressions) ⁷⁷	82 million	119.8 million	143.5 million	157.6 million	82 million	12.3 million

⁷³ <https://transcribathon.com/en/runs/versailles-1919/>

⁷⁴ <http://transcribathon.eu/>

⁷⁵ <https://pro.europeana.eu/post/wikimania-2019>

⁷⁶ <https://pro.europeana.eu/post/wikidata-wikibase-for-national-libraries-the-inaugural-meeting>

⁷⁷ Facebook, Twitter, Pinterest, GIPHY

NPS scores for user satisfaction KPIs are above target. We also perform very well on social media with almost twice as much users reached as initially targeted.⁷⁸

Overview over reporting requirements

Description	Aug M12	Sep M13	Oct M14	Nov M15	Dec M16
Total engagement on social media (shares, likes, comments)	243,317	171,374	-	-	-

Work Package 5: Animate and further enlarge the Europeana Network Association

Under WP5 EF supports the Europeana Network, instituted and organised in the Europeana Network Association (ENA)⁷⁹, its Members Council and Management board, ENA task forces (TF) and working groups (WG), as well as ENA communities. EF also connects to various stakeholders via its EU presidency events.

Overview of outcomes

Partner	Outcomes	Progress	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
			M12	M13	M14	M15	M16	M17	M18	M19
EF	ENA: general support (agendas, meeting reports)	Ongoing								
EF	ENA monthly newsletter ⁸⁰	Ongoing								
EF	Europeana LinkedIn Group	Ongoing								
EF	Europeana 2019 annual event (MS54)	50%								
EF	WG: Europeana 2019 - programme advisory committee	50%								

Overview of KPIs

No.	Description	Target M12	Jun M10	Jul M11	Aug M12	Target M24	Sep M13
5.1	Satisfaction of the ENA	30				35	₈₁

⁷⁸ More information on social media can be found in C.3 Content supply and reuse deliverable available on the Europeana DSI-4 project page. <https://pro.europeana.eu/project/europeana-dsi-4>

⁷⁹ <https://pro.europeana.eu/network-association>

⁸⁰ <https://pro.europeana.eu/resources/document-archive/newsletters-and-updates>

⁸¹ The metric is expected by December 2019.

	members with the ENA						
5.2	Number of members in the ENA	2,000	2,504	2,534	2,534	2,250	2,587

The number of ENA members is above target.

Task 5.1. ENA governance

Partners: EF

EF will work with the ENA Members Council (MC) and Management Board (MB) and discuss topics of interest for the ENA.

Overview of outcomes

Partner	Outcomes	Progress	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
			M12	M13	M14	M15	M16	M17	M18	M19
EF	ENA Management board meetings	Ongoing								
EF	WG: 2019 Governance working group	Ongoing								
EF	ENA Members Council meeting (MS53)	90%								
EF	ENA General Assembly meeting (MS54)	20%								
EF	ENA governance documents (key outcomes 2019, priorities 2020/activity plan)	10%								

Task 5.2. ENA task forces and working groups

Partners: EF

ENA members take on specific subjects or areas of common interest by participating in task forces⁸² and working groups⁸³.

Overview of outcomes

Partner	Outcomes	Progress	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
			M12	M13	M14	M15	M16	M17	M18	M19
EF	General support (approval and evaluation process)	Ongoing								

Overview of KPIs

⁸² Running task forces are mentioned in the corresponding subject section. More information is available on Europeana Pro. <https://pro.europeana.eu/network-association/task-forces>

⁸³ Running working groups are mentioned in the corresponding subject section. More information is available on Europeana Pro. <https://pro.europeana.eu/network-association/working-groups>

No.	Description	Target M12	Jun M10	Jul M11	Aug M12	Target M24	Sep M13
5.3	Number of active task forces	5	3	3	3	5	3

The number of task forces is below target. Task forces are created when there is a specific need based on work undertaken under Europeana DSI and also other projects (such as Generic services projects). Currently we support three task forces with a specific purpose, endorsed by the communities. In addition, the role of the task forces as originally planned in the tender, is currently taken over by the ENA community steering groups, who address relevant topics in their own way.

Task 5.3. ENA communities

Partners: EF

The ENA organises communities of trans-national network of experts and specialists in the fields of creating, preserving and publishing digital cultural heritage online. Communities support the delivery of the Europeana DSI by developing policy and strategic advice on topics that the ENA members find relevant for the Europeana Initiative. The members can sign up to receive the newsletters, join various communication channels and social media groups, and attend community-related events and meetings. Under supervision of the MC, there are six active communities in the ENA⁸⁴.

Overview of outcomes

Partner	Outcomes	Progress	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
			M12	M13	M14	M15	M16	M17	M18	M19
EF	General support for ENA communities (process coordination)	Ongoing								

Overview of KPIs

No.	Description	Target M12	Jun M10	Jul M11	Aug M12	Target M24	Sep M13
5.4	Number of active communities in the ENA	3	6	6	6	4	6

The number of active communities is above target.

⁸⁴ Community efforts are mentioned in the corresponding subject section. More information is available on Europeana Pro. <https://pro.europeana.eu/network-association/special-interest-groups>

Task 5.4. Europeana EU presidency events

Partners: EF

EF organises presidency events with the Member States holding the presidency of the Council of the EU in order to secure the network's outreach to EU Member States.

Overview of outcomes

Partner	Outcomes	Progress	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
			M12	M13	M14	M15	M16	M17	M18	M19
EF	Romanian Presidency event: final recommendations	95%	█	█	█					
EF	Finnish Presidency event (MS56)	40%	█	█	█					
EF	Finnish Presidency event (meeting recommendations, post-event blog publication)	10%	█	█	█	█	█			
EF	Croatian Presidency event (MS56)	5%	█	█	█	█	█	█	█	█

Work Package 6: Studying the impact of digitisation and reuse of cultural heritage

WP6 contributes to the study of the impact of digitisation and reuse of cultural heritage by investigating the status of digitisation in Europe, and by researching the added economic value of opening up cultural heritage resources for reuse.

Overview of outcomes

Partner	Outcomes	Progress	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
			M12	M13	M14	M15	M16	M17	M18	M19
Europeana Impact Framework										
EF	Europeana Impact Framework management	Ongoing	█	█	█	█	█	█	█	█
EF	Europeana Impact Playbook V2	85%	█	█	█					
EF	Update of Impact toolkit	40%	█	█	█	█				
Europeana Impact community										
EF	Europeana Impact community management	Ongoing	█	█	█	█	█	█	█	█
EF	Europeana Impact community survey	20%	█	█	█	█	█			
EF	Europeana Impact community:	50%	█	█	█	█				

	Europeana 2019								
EF	Europeana Pro community pages improved	95%							

Task 6.1. Statistics on digitisation of cultural heritage in Europe and study on the cost and funding (per MS) of digitisation of cultural heritage

Partners: DEN and EF

Overview of outcomes



Partner	Outcomes	Progress	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
			M12	M13	M14	M15	M16	M17	M18	M19
DEN, EF	Research with Member State coordinators	90%								
DEN, EF	New dashboards prepared, tested and refined	50%								
DEN, EF	Redesign of the ENUMERATE Observatory	50%								
DEN, EF	D.2 Study on impact of digitisation and reuse of cultural heritage	75%								

Task 6.2. Develop a report on 10 cases on the impact of opening up high quality cultural heritage in terms of reuse and economic benefits

Partners: DEN and EF

Overview of outcomes

Partner	Outcomes	Progress	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
			M12	M13	M14	M15	M16	M17	M18	M19
EF	Impact design workshops	100%								
EF	Economic impact assessment: national workshops	60%								
EF	Economic impact assessment: Education MOOCs	95%								
EF	Economic impact assessment: ENA	30%								
EF	Economic impact assessment: rights frameworks	30%								
EF	Economic impact assessment: Europe at work season	10%								

EF	Economic impact assessment: events & conference	40%	
EF	Economic impact assessment: communities	30%	

Task 6.3. Cost-benefit analysis

Partners: EF

Status: Not started, EF will evaluate possible options in January 2020.

As part of this contract, EF will subcontract an expert to develop a cost-benefit analysis on Europeana DSI.

Work Package 7: Governance

Partners: EF

Under WP7 EF reports to the European Commission, the Expert Group on Digital Cultural Heritage and Europeana (DCHE)⁸⁵ and its sub-groups the status of the Europeana DSI platform, activities and developments as well as re-prioritise developments of the platform based on received feedback and validation with users.

No activities in this reporting period, next DCHE meeting is expected in November 2019.

Work Package 8: Phasing-in and phasing-out periods

The objectives of this WP are to provide correct and up-to-date information to the European Commission on assets and liabilities related to Europeana DSI and to test phasing-out and transfer processes to a successor supplier.

No activities in this reporting period.

⁸⁵ <https://ec.europa.eu/digital-single-market/en/expert-group-digital-cultural-heritage-and-europeana-dche>

Work Package 9: Project and Programme Management

Task 9.1. Project management of Europeana DSI-4

Partners: EF

Overview of outcomes

Partner	Outcomes	Progress	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
			M12	M13	M14	M15	M16	M17	M18	M19
EF	Project management	Ongoing	■	■	■	■	■	■	■	■
EF	Europeana DSI-4 GA meeting (MS64)	10%		■	■					
EF	B.1 Implementation plan M12	90%	■	■	■					
EF	B.2/B.3 Periodic reports M14	10%		■	■					
EF	B.4 Annual report M12	100%	■							

B.4 Annual report M12 - this period we finalised the Europeana DSI-4 annual report which summarises the main outcomes achieved in the first year, covering the timeframe from 1 September 2018 until 31 August 2019.

Task 9.2. Relations with Europeana DSI Generic Services projects

Partners: EF

EF maintained contact with the funded Europeana DSI Generic Services (GS) projects (e.g. via Basecamp groups) and makes sure that the core service platform will be able to deliver the required services for these projects. Specific work undertaken in the reporting period is described in the respective subject areas of this report (e.g. technical developments, editorial contributions).

Overview of outcomes

Partner	Outcomes	Progress	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
			M12	M13	M14	M15	M16	M17	M18	M19
EF	Programme coordination	Ongoing	■	■	■	■	■	■	■	■
EF	Generic services projects meeting	80%	■	■	■					
EF	EuropeanaMedia ⁸⁶	Ongoing	■	■	■	■	■	■	■	
EF	CrowdHeritage ⁸⁷	Ongoing	■	■	■	■	■	■	■	
EF	EnrichEuropeana ⁸⁸	Ongoing	■	■	■	■	■	■	■	

⁸⁶ <https://pro.europeana.eu/project/europeana-media>

⁸⁷ <https://pro.europeana.eu/project/crowd-heritage>

⁸⁸ <https://pro.europeana.eu/project/enrich-europeana>

EF	CultureChatbot ⁸⁹	Ongoing							
EF	CultureMoves ⁹⁰	Ongoing							
EF	Sharing New Perspectives, your 3D view on Europeana ⁹¹	Ongoing							
EF	Fifties in Europe Kaleidoscope ⁹²	Ongoing							
EF	Opening Up Historiana ⁹³	Ongoing							
EF	Judaica Europeana 2.0 ⁹⁴	Ongoing							
EF	LinBi ⁹⁵	Ongoing							
EF	Europeana Archaeology ⁹⁶	Ongoing							
EF	Europeana Common Culture ⁹⁷	Ongoing							
EF	St. George on a bike	Ongoing							

⁸⁹ <https://www.jhn.ngo/culture-chatbot/>

⁹⁰ <https://www.culturemoves.eu/>

⁹¹ <https://share3d.eu/>

⁹² <https://www.photoconsortium.net/50s-in-europe-kaleidoscope/>

⁹³ <https://www.euroclio.eu/project/opening-up-historiana/>

⁹⁴ <https://www.jhn.ngo/judaica-europeana-20/>

⁹⁵ <https://linbi.eu/>

⁹⁶ <https://pro.europeana.eu/project/europeana-archaeology>

⁹⁷ <https://pro.europeana.eu/project/europeana-common-culture>

Annex: Abbreviations

Consortium participants

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

Other

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

Annex: Glossary of terms

Formal definitions of terms used frequently are detailed in the glossary of terms⁹⁸ on Europeana Pro. Additional terms, are listed below.

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

⁹⁸ <https://pro.europeana.eu/resources/standardization-tools/glossary>

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