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

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Introduction

The periodic report describes the work carried out under Europeana DSI-4 from 1 April 2019 until 31 May 2019, according to the implementation plan (B.1 deliverable, M6). The work is organised in nine work packages (WP):

- WP 1: Operating, maintaining and developing Europeana DSI as the pan-European online cultural platform
- WP 2: Quality assured content supply
- WP 3: Fostering reuse of digital cultural heritage resources
- WP 4: Communication and Dissemination
- WP 5: Animate and further enlarge the Europeana Network Association
- WP 6: Studying the impact of digitisation and reuse of cultural heritage
- WP 7: Governance
- WP 8: Phasing-in and phasing-out periods
- WP 9: Project and Programme Management

Highlights

In this period, EF resolved performance issues and removed bottlenecks towards the newspapers full-text search. The functionality is now completed and the Europeana Newspaper thematic collection is ready to be officially announced on July 1st via a Pro News post, social media promotion, and via our newsletters.

Schema.org for entities was finished during this period and we tested the publication of schema.org for Entity Pages. In our efforts towards SEO we also deployed the new sitemap application for entity pages and released it to Google. The sitemap now includes both items and entities. In the upcoming months, we will measure the results of the sitemap and schema.org for entities, and based on the findings also released schema.org for item pages.

The spring meeting of the Europeana Aggregators' Forum happened on 3-4 April. A train the trainer event was included in the programme.

In May, EF reached three milestones responding to broken links. Our efforts towards resolving broken links significantly improved the Europeana Collections experience. Some datasets were removed that seemingly had no hope for improvement and datasets fixed (links rectified). In parallel, EF will ensure to not publish any new datasets with broken links and work on an automated solution to systematically detect broken links that develop over time after the data being ingested.

The RightsStatements.org consortium developed a draft business plan for 2019 identifying its core activities (scheduled to be signed off by the Steering Committee meeting 7 May). It will be published at www.rightsstatements.org in July.

As part of our efforts towards the education market, EUROCLIO finalised and published 12 new source collections and six new eLearning activities on Historiana which cover a wide range of topics, including Napoleon, medicine and anatomy, Renaissance, the Industrial Revolution and more. They also updated the teacher training guide² to incorporate the lessons learned from the organised workshops so far. Improvements include more options for teachers to choose and adapt kit elements for their workshop.

Europeana Research finalised its strategic plan that proposes a number of changes to maximise impact in this area, in which the Europeana Initiative makes a shift towards focusing on the digital transformation of cultural heritage institutions.

Under the Romanian EU Presidency the Europeana Conference 'Exposing online the European cultural heritage' was held in lasi on 17-18 April 2019, and brought together 90

² https://pro.europeana.eu/post/teacher-training-guide

officials, policymakers and practitioners to examine and explore the positive impacts and the challenges of making cultural heritage available on the web for heritage institutions.				

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 our users, and a sustainable and high performing platform infrastructure.

MS1	Change development process updated	M13	Due
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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.

MS2	Version of METIS updated	M13	In progress
MS30	Overview of data providers that have signed the new DEA	M11	Due
MS68	Metis strategic recommendations	M12	Due

OBJECTIVE: Data publishing with Metis is extended [Metis 1.x and eCloud V1.x]

Status: In progress

In August of 2018, EF identified 66 datasets as having broken links to the digital objects on the side of the data partner (summing up to about 1.8 million records). In the work towards MS72 Resolve legacy broken links issues and MS19 Evaluation of broken links in repository 42 datasets (~600k records) were manually depublished from the Europeana production indexes.

With Metis being in production for six months, the decommissioning of the previous aggregation infrastructure has started. In this period, redundant MongoDB and Solr servers decommissioning was delayed due to the release of the new OAI-PMH API. The old OAI-PMH needs to point to these servers until the end of June 2019. UIM servers are now decommissioned, including MINT and REPOX.

OBJECTIVE: Data publishing speed and reliability is enhanced [Metis V2.0]

Status: In progress

In this period, we worked on enhancing the Metis user interface. The Metis dashboard history was reviewed and filters were implemented allowing a user to filter the history by type of workflow, workflow status and date. New design for the new workflow form were provided by the design team and implementation in Metis has started.

As part of the eCloud infrastructure (cloud based infrastructure behind Metis) a second instance of the IIIF image server was installed to provide required redundancy of system and performance for the coming Newspapers thematic collection.

The data storage part of eCloud relies on the Cassandra database. Currently, we are working on the amendments of the structure and upgrade of the Cassandra database (which is at the core of Metis) and a better management of data volume of data (routines to clean the system from unnecessary data).

In this period, we also experimented with methods for new Metis ingestion components. We completed our first experiments with Wikidata: the coverage of metadata that could be gathered from there is not great, but it would certainly be a useful complement to the metadata we get from our partners. This work needs further evaluation. We also submitted a paper to the Dublin Core conference about these experiments and a paper to the Semantics conference about the software of the Data Aggregation Lab (DAL)³. We further updated the DAL, making it compatible with the latest version of the IIIF Change Discovery draft specification.

Task 1.2. Collections experience

Partners: EF

Our KPIs are to reach 500,000 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.

MS66	Study on engagement element	M11	In progress
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³ Software for experimenting with new aggregation technology.

OBJECTIVE: Transform browse experience across collections

Status: In progress

The browsing experience is based on horizontal browsing of entities: subjects and people. To facilitate this we created hierarchical relationships between them based on genres. E.g. the art movements Cubism and Art Nouveau are related to Art and so are painters Johannes Vermeer, Rembrandt. These relationships allow us to present our collection of items in a structured manner offering the user more context for a single item and allowing it to be more easily discoverable through its relationships to subjects, people and other items. A user can browse our collection by subject navigating from one subject to another or to a person related to that subject for instance a painter.



This is a screenshot of the browse experience that is currently only available on our test environment. Here we are looking at an entity page for Ludwig van Beethoven. The pills at the top of the page are the related entities in this case other composers.

OBJECTIVE: Establish the newspaper's full text search experience

Status: In Progress

In this period, we resolved performance issues and removed bottlenecks of the newspapers full-text search. The functionality is now completed.

We will officially announce Europeana Newspapers and its offers on July 1st via a Pro News post, social media promotion, and via our newsletters. Focus will be on curated editorial

using content from the collection and on two 'professional' interviews with experts using the collection in interesting ways. Ahead of the announcement we wrote guides to help make the user experience smoother (especially for those used to the TEL platform).

OBJECTIVE: Transform multilingual collections experience

Status: In progress

Normalisation of xml:language attributes (indicating the language of the metadata) to support multilingual browsing was further refined within the Data Quality Committee, and included in the normalisation service and released as part of Metis V1.3 and eCloud V1.4. We also prepared for experimenting with the eTranslation API.

OBJECTIVE: Search improvements make Europeana Collections more useful

Status: No work was done in this reporting period, this work will resume in Q4 2019.

OBJECTIVE: Europeana Collections are more discoverable by Google

Status: In progress

Schema.org for entities was finished during this period. We tested the publication of schema.org for Entity Pages. Upon testing we experienced that Google was not picking it up, we identified the issue and a solution which will be implemented in the next quarter.

In our efforts towards SEO the new sitemap application for entity pages was deployed and released to Google. This sitemap now includes both items and entities.

Publication of schema.org for Item Pages was postponed. We will first measure the results of the sitemap and schema.org for entities for a 3 months period.

Task 1.3. Infrastructure

Partners: EF and PSNC

High availability and performance is an important priority for the Europeana infrastructure. Most important actions being the audit, consolidation, cleaning, and removal of underused infrastructure.

MS69 Review of as-is architecture landscape	M11	In progress
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OBJECTIVE: APIs and infrastructure are sustainable and high performing

Status: In progress

Following actions were undertaken in this period towards auditing of the infrastructure:

• New Domain Name System (DNS) and policy in use

- Consolidation of wildcard domains eanadev.org and europeana.eu
- Almost all Ubuntu 14.04 servers upgraded to 16.04 or 18.04. One server left behind because of Solr upgrade in progress (annotation-prod)
- Jenkins has been updated to the latest version, in Q3 it will be restricted to VPN use

We also connected Metis to ELK to collect logs.

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.

MS15 Overview of new (potential and proposed) content providers per aggregating partner	M12	Due
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<u>Task 2.1. Aggregators and providers are motivated to raise the quality of collections</u>

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

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. 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.

MS4	Statistics dashboard is available to aggregators and CHIs	M13	Due
MS35	Train the trainers days	M8	Done
MS36	List of aggregator specific events	M12	Due
MS37	Schedule of content data support events	M12	Due
MS38	Europeana Aggregators' Forum meetings	M8, M14	Done Due
MS67	Beta version of Europeana Pro	М8	Done
MS70	Aggregator profiles published on Europeana Pro	М8	Done

OBJECTIVE: Communicate the value of being part of Europeana Initiative

Status: In progress

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.

During Europeana DSI-4 the aggregating partners worked to date with a total of 130 different institutions from more than 24 countries eventually affecting more than 10 million records in Europeana Collections. Support activities include assistance in preparing data, working on IPR related questions, advise on metadata mapping (incl XSLT transformations), and advise on the use of vocabularies, processing/ingesting of data, etc⁴.

Highlights of support activities

AIT Graz worked on enhancing the OpenUp! Natural History aggregation facility in order to support the automated transformation of metadata in EDM, DC and MARC21 format. Support was provided for content partners that will provide metadata in EDM, DC and MARC21 format, and first testing activities for this new content were carried out. Investigation and first work on integrating a new enrichment routine for natural history collector and identifier personal names that should lead to the introduction of VIAF identifiers (edm:Agent) in the transformed metadata for Europeana.

The APEF country managers network was updated (see details in task 2.2) to establish what needs to be changed in the standard conversion to EDM as provided in the Archives Portal Europe's back-end.

BL continued to issue calls for new data providers, promoting a survey asking for information about institutions with online audio collections. This has led to email and telephone discussions, demonstrations of how MINT can transform metadata and, following from this, MINT accounts being created for new data providers with others expressing a strong interest.

CARARE continues to provide support to the CARARE data provider network, and to partners in the Europeana Archaeology and Sharing New Perspectives Generic Services project. Over the last two months CARARE worked on vocabulary resources for archaeology, architecture and 3D cultural heritage, and continued to encourage the use of multilingual Linked Open Data (LOD) and language labelling of our content. CARARE also engaged content partners in showcasing their content in Europeana Archaeology, and launched a new gallery on food and drink⁵. In addition, CARARE prepared for the public event and annual meeting in Amersfoort in June: 'Archaeology and Architecture in Europeana'.

EFASHION content team continued offering regular helpdesk support for providers, in particular towards the Dutch network of fashion museums Modemuze, that is releasing an update of their datasets that should be finalised by the beginning of July. The editorial team continued engaging the audience, publishing on a daily basis on the blog and social media channels, highlighting the rich content EFASHION aggregates and publishes on Europeana, and stimulating in this way content holders to continue sharing new and better content. In coordination with the Collections team at EF, a gallery and a series of blog posts connected to the industrial heritage in September are planned.

⁴

https://docs.google.com/spreadsheets/d/1WAEW1RJCdmfdgiR5D9QLIXIbWfFQ5ooQpdx0mi-hDyQ/edit?ts=5cb7.0250#gid=1158063986

⁵ http://blog.europeana.eu/2019/02/what-is-the-real-palaeo-diet-and-who-invented-bread/

MCA provided support to the Europeana Archaeology network. Some content providers of that project will use the MUSEU platform to aggregate and enrich the datasets of their collections.

NISV has received interest from two potential providers: RTV in Kosovo and ADAPT in the UK prompted a review and update of documentation (e.g. handbooks) on aggregation routes and updating the resources on the EUscreen website, especially documentation on the core workflow. All this alongside regular blog postings on the euscreen.eu site and individual support and advice for partners.

Photoconsortium is supporting United Archives and CRDI preparing an update of their data.

The MINT team at NTUA continuously supports aggregators via Email and Skype on technical questions; how to create richer mappings and import new datasets. NTUA is actively seeking collaboration with the Europeana ingestion team on improving support for standard vocabularies.

The spring meeting of the Europeana Aggregators' Forum happened on 3-4 April. A train the trainer event was included in the programme. A report⁶ is summarising the main outcomes. The list of aggregator specific events and the schedule of content data support events is kept up to date, including planned national workshops and networking or annual events of Europeana DSI-4 aggregating partners⁷.

OBJECTIVE: Redesign Europeana Pro to drive better outcomes with partners

Status: In progress

The redesign of the modules is completed and the website has a new look and feel that communicates the cutting edge and innovative properties of our brand. In the <u>Annex</u> you can find some preview images of the new Europeana Pro that currently lives on our test environment.

In this period, we identified that Europeana Pro serves three main audiences: primarily the cultural heritage institutions looking for an effective dissemination partner that could help them increase the reach of their collection, aggregators who assist the cultural heritage institutions in their digital transformation to ensure that cultural heritage is documented professionally online and the network association members whose primary goal is to understand what Europeana can do for them and to network with international professionals in the cultural heritage sector.

In the last period, we organised a customer journey workshop with aggregators to understand their needs, tasks and frustrations. In this period, we did the same with the

https://docs.google.com/spreadsheets/d/1WAEW1RJCdmfdgiR5D9QLIXIbWfFQ5ooQpdx0mi-hDyQ/edit#gid=161.3890381

https://docs.google.com/presentation/d/1cGe71suW7mx0-n9KjxxzXaoQ_gf41ORE3CRrxseFpc0/edit#slide=id.g4dc6ad517b_0_0

network association members. This information guides us when creating a structure for the website. In the coming period, we will validate the information architecture of the website with the main audience groups, add a new menu and continue refining the current narrative of the website.

OBJECTIVE: Release tier statistics to aggregators and providers [Dashboard V1.0]

Status: In progress

To be able to make a reliable tier assessment we need a full set of technical metadata. The Metis media service is being used outside of Metis to process legacy datasets that lack technical metadata and/or thumbnails. Re-processed datasets will be made available at the end of July after a re-indexing of the Europeana database. During this re-indexing, the content and metadata tiers will be also added to the data.

We also made a proposal to model content and metadata tiers in EDM and the computation of the tiers is being implemented in Metis.

OBJECTIVE: Explore completeness scores for dashboard

Status: In progress

We continued fixing minor issues for the data quality assessment framework, which is expected to provide inspiration for the design of the dashboard.

OBJECTIVE: Update statistics dashboard with metadata breakdown [Dashboard V1.x]

Status: Not started, expected in October 2019.

OBJECTIVE: Evaluate and research EPF 2.0

Status: In progress

Work on the metadata component of the Europeana Publishing Framework continued as part of the work of the Data Quality Committee, with most aggregating partners participating (AIT Graz, BL, CARARE, DIF, Europeana Fashion, NISV, Photoconsortium). In this reporting period we have started the final part of the work, writing up the agreed definitions for different audiences. This will lead to an updated EPF booklet and and updated Europeana Publishing Guide.

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 meet the standards set for Europeana. The key mechanism for driving this are aggregator's data quality plans. We will continue to work with them to correct rights fields,

work 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.

MS6	EPF updated with metadata component	M11	In progress
MS10	Aggregators data quality work plans updated	M13	Due
MS13	Resolution of low quality data in tier 0	M12	Due
MS19	Evaluation of broken links in the repository	M9, M18	Done, Due
MS72	Resolve legacy broken link issues	М9	Done
MS73	Review proactive methods for responding to broken links dynamically	М9	Done
MS74	Audit and design resolution plan for longtail of ongoing data issues	M11	In progress
MS75	Consultation with tier 0 partners is complete	М9	Done

OBJECTIVE: Establish data quality plans and resolution processes with aggregators and data providers

Status: In progress

In April and May 2019 we published about 2.9 million records in Europeana Collections. A lot of the data was contributions for the Generic Services projects Rise of Literacy, Migration in the Arts and Sciences and Byzantine Art. We also published high quality contributions from Europeana DSI-4 aggregating partners (AIT-Graz (OpenUp!), CARARE, AthenaRC, NISV (EUscreen), DIF (EFG) and MCA (MUSEU) Photoconsortium).

As reported earlier, it is still a challenge to measure tier progress automatically. Therefore, the impact of the recent publications on our tier statistics can not be shown. Our previous media service has not created a full set of technical metadata for all 58 million records, which is a necessary prerequisite to measure tier progress. The new media service of Metis is working fine to create technical metadata and thumbnails for all datasets that we process now. A solution was developed by the Metis team to facilitate and support the reprocessing of datasets that lack technical metadata and/or thumbnails. With this in place we are now reprocessing datasets to close the gap of technical metadata, to report tier progress in a more systematic way from August onwards.

Achievements were made in the reporting period towards the objectives in the data quality work plans. For more details on achievements per individual institutions by aggregating partner, see the Data quality & content supply sheet⁸.

Highlights for data quality improvements

Based on the discussion on geolocation information in edm:Place for Europeana collections the metadata (~ 8.8 Mio. records) was updated by AIT Graz displaying now the Geo URI whenever exact coordinates are in the source metadata, and displaying the geonames country link if the country information is provided in the source data. Work on including language tag information for common names vocabularies continues but strongly depends on source data.

APEF is adapting the standard conversion to EDM as offered in the Archives Portal Europe's back-end based on the test results and as far as aspects can be covered in the context of an aggregator (e.g. itemisation as in objective 5 of APEF's data quality plan). It is expected that this update will become available to APEF content providers with the next release of the Archives Portal Europe during summer 2019. Further improvements to this standard conversion are planned with regard to objectives 2 (multilinguality) and 4 (date normalisation). Options for objective 3 (contextual classes) will require further investigation, especially based on the introduction and exercises on data enrichment during the Europeana Aggregators Forum.

With close collaboration with CARARE, AthenaRC migrated 5 collections from LoCloud to CARARE. The continued collaboration of CARARE with the German Archaeological Institute and Rijksdienst voor het Cultureel Erfgoed resulted in the remapping, harvesting and provision of their large datasets to EF for republication. CARARE was in touch with the EF ingestion team concerning the publication of 3D content, and item records that include several web resources. In collaboration with Athena RC, CARARE specified the development of two new enrichment services to facilitate language labelling and the updating of Europeana rights licences in datasets. AthenaRC then implemented these two enrichment services.

BL has exceeded the target of 110,000 records with dbpedia links (now 117,000). The target of 10,000 records with MIMO links is nearly met – now 9,046 (remainder will be met through improvement BL datasets). The target of 50% records (250,000) with agent class links: up from 148,000 to 179,000. More BL collections will be revised, raising figure to 220,000, requiring further revisions/additions from elsewhere.

DIF (EFG) identified the issues that caused the harvesting problems in Metis and adapted the mapping accordingly. Harvesting links of 18 updated sets have been provided to the EF DPS team. Two of the sets were successfully published on Europeana as of end of May. For another two sets issues occurred during ingestion that will have to be fixed. The rest of the sets is waiting for ingestion and/or publication by Europeana.

EFASHION maintains mappings using MINT, in particular, new datasets from Modemuze partners, were ingested and are under mapping. A new full republication of all the datasets is under preparation and will be realised by the end of June. The newly published datasets will offer a

⁸

substantial improvement over the previous one since EFASHION will add semantic enrichment for contributors/creators names and places, linking to open data vocabularies (Wikidata for names and Geonames for places).

MCA improved the use of the EDM currentLocation values in the data. Some collections already published were modified and republished accordingly. MCA continued to enrich the dataset of some collections linking to AAT and Geonames values. For a specific collection MCA is evaluating how a Geonames value can be put in the dcterms:spatial property in order to make it dereferenceable.

NISV finalised the core content publication in May with a few hundred more high quality records published on the platform for Fina in Poland. The aggregated collection of ERT SA in Greece is currently being updated due to several broken links; MINT datasets have already been updated & re-published. Currently reviewing issues with TV3 from Portugal regarding videos not playing out on Europeana due to a provider based banner/cookie issue. NISV identified that in the Belgian provider RTBF collection the video links have expired. This is under review on their side as to whether the links can be updated. The Czech television collection has several broken links, NISV is in touch with them to fix these or provide a smaller stable set (links are 'broken' because of flexible licensing).

PHOTOCONS worked with NALIS to improve their old dataset with further +2,000 English titles and brief descriptions. Now the dataset, which originally was in Bulgarian only, counts ca. 6,000 records with English titles and descriptions. PHOTOCONS was investigating with Scanpix (ex POLFOTO) why links seem to be broken in some views on the data. In addition to that, and to comply with objective 4 (non-measurable objectives) of the DQP, PHOTOCONS made another check comparing the records aggregated via PHOTOCONS in Europeana main portal with the PHOTOCONS records that appear in the Europeana Photography collection, identifying a series of minor deviations to be further investigated and improved.

NTUA supported the Europeana DSI-4 aggregators realising the quality improvements. MINT instances take over some of the tasks that used to be done in External to Internal EDM mapping. Fashion and Photography rights were corrected to the currently accepted URIs. EUscreen provider was changed from EUscreenXL to EUscreen in all datasets and mappings (to be re-published). Manually curated enrichments in Photography and Fashion were incorporated into all datasets. Photography datasets were enriched with xml:lang fields where appropriate, to be re-published in June.

OBJECTIVE: Negotiate for higher quality content

Status: In progress

In June, we submitted MS75 'Consultation with tier 0 partners is complete'. The milestone document lists datasets with Tier 0 material by country, data provider and aggregator. This list can be used for consultations with the DCHE expert group to improve content by country.

OBJECTIVE: Resolve broken link issues in collections experience

Status: Done

In May, EF submitted two milestones namely MS19 'Evaluation of broken links in the Repository' and MS72 'Resolve legacy broken link issues'. In August of 2018, EF identified 66 datasets as having broken links to the digital objects on the side of the data partner (summing up to about 1.8 million records). In the work towards this milestones:

- 14 datasets (~650k records) have been fixed
- 42 datasets (~600k records) have been depublished
- The remaining 10 datasets (~500k records) will be updated by the end of July 2019 or otherwise depublished too. EF will follow up with the data partners to realise this work.

In parallel, EF will ensure to not publish any new datasets with broken links and work on a solution to systematically detect broken links that develop over time after the data being ingested.

OBJECTIVE: Automated solution for identification of broken links

Status: In progress

In May, EF submitted the milestone MS73 'Review proactive methods for responding to broken links dynamically'. The milestone proposed a logic for ongoing link checking for validity. During August and September we plan to implement this proposed basic logic to begin checking the isShownAt links to ensure that they are valid.

OBJECTIVE: Enable reprocessing for media processing, enrichments, & reindexing Status: In progress

The architecture allowing the reprocessing of the data for any of the Metis services (reindexing but also enrichment, normalisation) was designed and then implemented. It consists of a series of scripts and a copy of our Solr and Mongo index and database. The reprocessing operations will take place in July 2019 and will require a temporary freeze of the data publication activities. These activities will increase the quality of data by allowing the population of the whole Europeana dataset with the missing technical metadata and thumbnails that were reprocessed and the metadata and content tiers.

OBJECTIVE: Refactor enrichment service

Status: Not started, expected in September 2019.

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.

OBJECTIVE: Model EDM for annotations and user sets

Status: In progress

In this period, we gathered use cases from the EuropeanaTech task force on annotations and user sets, which we are going to use to refine the existing EDM specifications.

OBJECTIVE: Extend annotation elements to generic services

Status: Not started, expected in June 2019.

OBJECTIVE: Display annotations on item pages (non-media related)

Status: Not started, expected in October 2019.

<u>Task 2.4. Influence and organise global interoperability efforts to benefit CHIs</u> 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 progressed.

OBJECTIVE: Coordinate the development and documentation of EDM

Status: In progress

We finished and published the report for the EuropeanaTech task force on the governance of EDM activities⁹, making some recommendations to Europeana and its community. As part of this work, we reported on the latest updates for EDM, and refreshed our general roadmap for EDM, taking into account latest developments (e.g. on EDM annotations), and plans for 2019. We worked on representing the metadata quality tiers of the Europeana

⁹

Publishing Framework 2.0 in EDM, as well as supporting audio transcriptions, closed captions and subtitles.

OBJECTIVE: Support data mapping and conversions with stakeholders

Status: In progress

In cooperation with rightsstatements.org EF published two blogs related to aligning models with Wikidata¹⁰.

OBJECTIVE: Co-ordinate the IIIF Discovery Technical Specification Group

Status: In progress

The group published a new version of the Change Discovery API (0.3), which EF has implemented in the Europeana Data Aggregation Lab¹¹. The group also published a new draft of the Content State API, which EF reviewed.

OBJECTIVE: Co-ordinate Rightsstatements.org's Technical Working Group

Status: In progress

In this period, we published two blogs on aligning RightsStatements.org with existing metadata approaches, including the one in Wikidata. A new translation (Polish) of the rights statements was deployed.

OBJECTIVE: Contribute to working groups, task forces, and committees

Status: In progress

In our efforts to influence and organise global interoperability efforts to benefit CHIs we contributed to the following areas¹²:

- Community management for EuropeanaTech
- Data Quality Committee
- EuropeanaTech Task Force on annotations and user sets
- EuropeanaTech Task Force on EDM governance
- IIIF Technical Review Committee and other relevant IIIF Community Groups
- Linked.Art Editorial Board
- TPDL2019 Organisation

¹⁰ https://rightsstatements.org/en/2019/05/rightsstatements-in-wikidata.html; https://rightsstatements.org/en/2019/05/what-are-rights-statements-about.html

¹¹ Software for experimenting with new aggregation technology.

¹² Note: further explanations are given in the respective parts (e.g. task forces under WP5: Animate and further enlarge the Europeana Network Association)

OBJECTIVE/EPIC: Produce and disseminate research reports

Status: In progress

We presented our article on modeling for Europeana Newspapers at the conference on Language, Data and Knowledge¹³. We also submitted two papers to the Dublin Core and Semantics conferences.

<u>Task 2.5. Maintain Europeana Licensing Framework and Rightsstatements.org</u> Partners: EF

Status: In progress

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

The rights campaign, commenced in February, continues. In the first instance we work with data partners to query data sets identified in the report on the accuracy of rights statements¹⁴ as inaccurate or probably inaccurate. The report highlighted a range of issues, some relatively easy to address - such as a large Rijksmuseum collection labelled as inaccurate due to the incorrect labelling of a small proportion of objects within that collection. Through to collections which will take substantially longer to address such as those from Sweden where we have worked with representatives to understand that there is a knowledge gap in applying statements - in this instance we are looking to address the knowledge gap as a first step towards correcting inaccuracies.

The second phase of the campaign addresses raising awareness of copyright rules - through for example the symposium to explore the new EU copyright rules (DSM Directive) being planned by the Copyright Community. This will be accompanied by the development or updating of training resources.

The implementation of the RightsStatements.org rights statements - which make up half of the available rights statements¹⁵ data partners can use - continues to grow organically. This growth is driven primarily by translation efforts by partners within the Europeana Network. The number of translations covering Member State languages has risen to 11 in total (English, Polish, Estonian, Finnish, German and Spanish are operational, French, Finland-Swedish, Swedish, Lithuanian and Portuguese are in development).

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https://www.kl.nl/publicaties/research-paper-a-look-at-the-accuracy-of-edmrights-in-the-europeana-database/ https://pro.europeana.eu/page/available-rights-statements

¹³ http://2019.ldk-conf.org/

Since the last periodic report, the Polish translation was concluded and published online for use. We have also seen some positive steps in international cooperation; the Finnish and Swedish ministries are working together to try to develop a common Swedish translation. The French translation is a tripartite effort of french speaking nations led by the National Library of Luxembourg, with the French National Library and the Canadian Digital Library and Archives.

EF is working with translation partners to understand and support the implementation plans once the translations are complete. Preliminary research was conducted with Polish, Lithuanian and Finnish partners, and we intend to publish their approaches to implementation to help other partners learn from their experiences both within the Europeana Network but also to members and potential members of the RightsStatements.org consortium.

The RightsStatements.org consortium developed a draft business plan for 2019 identifying its core activities (scheduled to be signed off by the Steering Committee meeting 7th May). It will be published at www.rightsstatements.org in July.

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 three reuser markets: education, academic research, and creative industries. 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

Status: In progress

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. Following communication and dissemination activities were undertaken in the reporting period:

Partner	Name of event	Activity	Location	Date
EF	HackCultura Closing Event ¹⁶ , part of the Fourth Week of Digital Cultures ¹⁷	Presentation of Europeana, selection and awards for the best school projects reusing Europeana content. More than 100 participants.	Matera, Italy	12/04/19
EUN	STEM education training course	Presentation of Europeana resources 30+ participants.	Brussels, Belgium	23-27/04 /19
EF	Europeana Education Linkedin group	Ongoing engagement resulting in 19 new members (total 551 members), or 3.8% increase in comparison to the previous reporting period	Online	Ongoing
EF	Facebook Group ¹⁸ MOOCs	Ongoing engagement resulting in 178 new members (total 1,279 members), or 16.2% increase in comparison to the previous reporting period	Online	Ongoing

http://www.raiscuola.rai.it/articoli/settimana-delle-culture-digitali-8-14-aprile-2019/43337/default.aspx?fbclid=lwAR1KoF7dH003bPS_Bn0gPkoaaLKc|XhZM0qwKEvNEqjmhdY95Qgz151dC7M

 $\label{lem:https://www.facebook.com/login/?next=https%3A%2F%2Fwww.facebook.com%2Fgroups%2FEuropanaMOOCrerun%2Fmembers%2Fmembers%2Fm$

¹⁶ https://www.diculther.it/matera-11-e-12-aprile-2019-programma/

¹⁷

<u>Subtask 3.1.1. Maintain and develop governmental partnerships (Ministries of Education)</u>

Partners: EF

Status: In progress

We had follow up conversations with the Ministries of Education in Poland, Croatia and Greece and will continue to explore possible developments in June.

Subtask 3.1.2. Maintain and develop non-commercial partnerships

Partners: EF, EUN, and EUROCLIO

Status: In progress

EUN and EUROCLIO are our key noncommercial partners.

European Schoolnet (EUN)

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.

MS39	Meetings of the teacher ambassador network	M10, M15	Due
MS40	Updated MOOC (English)	M17	Due
MS41	MOOC in two other languages (Spanish and Portuguese)	М7	Done
MS42	Communication plan for the promotion of Europeana in education	M14	Due
MS71	60 new learning scenarios integrating Europeana resources	M12	In progress

Europeana Teacher Ambassador network

The Europeana DSI-4 ambassadors were asked to organise 24 webinars in different languages on using Europeana content in the classroom. By the end of May, 22 of the webinars have taken place with the last two scheduled for June. The exact dates for the past and future webinars can be found in the FCL calendar¹⁹.

Europeana Teacher User Group

By the end of May, the User Group teachers had created 108 Learning Scenarios. 63 are already available in the TeachwithEuropeana blog and the remaining 45 will be reviewed and published throughout the summer.

¹⁹ http://fcl.eun.org/calendar

A Europeana Education competition was organised, open to all members of the 2018-2019 Europeana Education User Group, who actively contributed to the TeachwithEuropeana blog by creating one learning scenario using Europeana resources in an innovative way, writing an enriching story of implementation, and providing constructive feedback to their peers. The 30 winners of the competition²⁰ were awarded with a trip to Brussels to the second Europeana teacher workshop. The workshop will be held on 7-8 June 2019 at the EUN offices.

Europeana MOOCs

The "Europeana in your classroom: building 21st-century competencies with digital cultural heritage (Rerun)" MOOC in Portuguese²¹ and Spanish²² started on the 18 March and ran until the beginning of May.

The Spanish version had 128 participants, impacting over 1,500 students. The Portuguese version had 150 participants, impacting 1,800 students. From these MOOCs 14 (ES) and 21 (PT) good quality Learning Scenarios will be published on the TeachwithEuropeana platform.

In order to maximize the use of these two MOOCs, they will be rerun in March 2020, alongside the versions in the two new languages planned.

TeachwithEuropeana blog

EUN continued to publish Learning Scenarios and Stories of Implementation every week on the TeachwithEuropeana blog. Additionally, a new section called 'Updates' was included in order to publish relevant information for the users, such as the publication of the second dissemination video and the announcement of the Europeana Education competition winners.

In the upcoming months the space will feature additional videos, the brochure for teachers and, from the new academic year, the dissemination activities organised by the Europeana Teacher Ambassadors.

Dissemination activities

EUN and EF discussed further and confirmed the format and content highlights for the brochure for teachers and the publication for the ministries of education in Europe. We also agreed to delay the publication of both till September 2019 to coincide with the beginning of the new school year.

²⁰ https://teachwitheuropeana.eun.org/updates/competition-results-2019/

²¹ https://www.europeanschoolnetacademy.eu/web/europeana-pt

²² https://www.europeanschoolnetacademy.eu/web/europeana-es

The second dissemination video²³ was published in May showing the Teaching with Europeana blog from its users' point of view. In this video, teachers share their experiences of the blog. They also explain how they used its resources to implement digital cultural heritage in their classroom.

EUN carried out a presentation on Europeana during a one week training course on STEM education to 30+ participants, see the table above.

Historiana (EUROCLIO)

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

MS43	12 Europeana source collections each year	M8, M16	Done, Due
MS44	Update Teacher Training Kit	M9, M17	Done, Due
MS45	12 eLearning activities	M10	In progress
MS46	Fit for education case study	M14	Due

EUROCLIO finalised and published 12 new source collections and 6 new eLearning activities on Historiana which cover a wide range of topics, including Napoleon, medicine and anatomy, Renaissance, the Industrial Revolution and more.

They updated the teacher training guide²⁴ to incorporate the lessons learned from the organised workshops so far. Improvements include more options for teachers to choose and adapt kit elements for their workshop.

EUROCLIO organised the following events:

- A workshop on Using Photographic Sources and Online Tools to Promote Historical Thinking²⁵ by Bridget Martin as part of EUROCLIO's Annual Conference and Professional Development and Training Course²⁶, that took place in Gdansk (7 April) with over 20 participants.
- A plenary presentation²⁷ by Bob Stradling on Historiana as part of EUROCLIO's Annual Conference and Professional Development and Training Course, which took place in Gdansk (6 April) with 119 participants.

https://www.euroclio.eu/2019/04/11/workshop-using-photographic-sources-and-online-tools-to-promote-historical-thinking/

²³ https://teachwitheuropeana.eun.org/updates/teaching-with-europeana-from-its-users-point-of-view/

²⁴ https://pro.europeana.eu/post/teacher-training-guide

²⁶ https://www.euroclio.eu/event/26th-euroclio-annual-conference-and-professional-development-and-training-course/

https://www.euroclio.eu/2019/04/16/historiana-building-transnational-source-collections/

- A workshop at Fontys University of Applied Sciences (24 April) with 9 students.
- An eTwinning Seminar "Using Digitised History Sources to Promote Visual Literacy and Historical Thinking" (30 April) with 182 participants of which 133 stayed until the end.
- A webinar "The Visual Front" on 13 May with 8 participants.

Webtic and EUROCLIO worked on an analysis²⁹ on why most pages of Historiana are not found easily at the moment - such as the design of Historiana as a single page application and the use of the # in the URL of most pages - and on possible solutions for better SEO.

Other non-commercial partners

We have been accepted as a partner in the Mediawijzer network³⁰, the Dutch centre of expertise for media literacy. The organisation was established in 2008 at the initiative of the government to link the activities of various organisations in the area of media literacy and to promote cooperation between them. Organisations at the centre's core are Netherlands Institute for Sound and Vision, Koninklijke Bibliotheek National Library of the Netherlands, Kennisnet, or NPO, the Public Broadcasting Company. The platform allows the publication and dissemination of events related with media literacy. We aim to participate in their Week van de Mediawijsheid³¹ (Media Literacy Week, 8-15 November 2019) which focuses on media literacy of youngsters (age 10 – 14) and their parents and educators. We will organise a webinar about fostering critical thinking using Europeana resources.

We are in conversations with Klascement³², the Educational Resources Network managed by the Department of Education and Training³³ of the Flemish Government. In this open learning environment, teachers share resources they have made themselves and organisations add material that is intended for the educational sector. Europeana was included as an organisation³⁴ and in the next months we will explore ways of featuring more of our resources for education on their portal.

HackCultura 2019 campaign organised by DiCultHer and partners, including Europeana, was officially closed with an award event³⁵ within the Fourth Week of Digital Cultures on 11-12 April in Matera, Italy. The #ImparaconEuropeana challenge within this competition invited Italian students to create multimedia projects with Europeana content. EF in a jury with representatives of ICCU, DiCultHer, INDIRE and Scholas Ocurrentes awarded with

²⁸

https://www.euroclio.eu/2019/05/21/webinar-reading-visual-history-using-digitised-history-sources-to-promote-visual-literacy-and-historical-thinking-2/

²⁹ https://historiana.dev/SEO/

³⁰ https://www.mediawijzer.net/about-mediawijzer-net/

³¹ https://www.weekvandemediawijsheid.nl/

³² https://www.klascement.net

³³ http://onderwijs.vlaanderen.be/nl/departement-onderwijs-en-vorming

³⁴ https://www.klascement.net/organisatie/22122/

³⁵ https://www.diculther.it/matera-11-e-12-aprile-2019-programma/

certificates six projects involving 94 students from Calabria, Puglia, Emilia Romagna and Molise. These projects have been published in a ICCU platform³⁶.

<u>Subtask 3.1.3. Maintain and develop commercial partnerships</u>

Partners: EF

Status: In progress

We are working on a pipeline of potential commercial partners to address in mailing campaigns in the next few months.

Moodle is still testing MoodleNet³⁷, a new open social media platform for educators, focused on collaboratively curating collections of open content. They released the alpha v0.9.3 on 23 May. Europeana will feature its open resources for educators on the platform when launched.

Task 3.2. Engage with academic research communities

Partners: EF, ATHENARC, and CLARIN

Status: In progress

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.

MS48	Strategic Plan for Europeana Research	M8	Done
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Partner	Name of event	Activity	Location	Date
CLARIN	EOSC-hub week ³⁸	Presentation about the new integration of Europeana content on VLO	Prague, Czech Republic	10-12/ 04/19
EF	Europeana Pro News	Blog on Europeana and the FAIR principles for research data ³⁹	Online	03/04/ 19
EF	Europeana Pro News	Blog on CLARIN and Europeana make discovery and processing quick	Online	08/04/ 19

³⁶ https://movio.beniculturali.it/iccu/daunoggettoraccontalatuascuola/it/46/prodotti-realizzati-con-l-ausilio-di-europeana

38 https://www.eosc-hub.eu/events/eosc-hub-week-2019

³⁷ https://blog.moodle.net/

³⁹ https://pro.europeana.eu/post/europeana-and-the-fair-principles-for-research-data

		and easy for 135,000 cultural heritage objects ⁴⁰		
EF	@Eurresearch Twitter	The Twitter account gained113 new followers (2,808 in total), registering an increase of 5,2% vs. previous period. The tweet impressions were 101.8 K.	Ongoing	

Europeana Research submitted the application to become a EOSC provider. It also coordinated a plan of outreach activities set up in collaboration with CLARIN, in order to show the EF's commitment to contributing to the EOSC, namely the publication of the above mentioned blogs on Europeana Pro in April 2019 and the accompanying Twitter mini-campaign. The first blog was the top media tweet on @EurResearch in April. It was also promoted, inter alia, from the Twitter accounts of the SSH Open Cloud within the EOSC and the Institut de l'Information Scientifique et Technique at the CNRS. The second blog was used as a reference publication by CLARIN at the EOSC-hub week in Prague, 10-12 April 2019.

On 10 May 2019, the Austrian Centre for Digital Humanities in Vienna announced the winners of the Hackathon Series⁴¹ to which Europeana Research contributed with data in February 2019. The third prize was attributed to the participants who developed the project "Quick War?"⁴² focusing on the dataset provided by Europeana (see also this blog⁴³ on Medium).

The workshop organised by Europeana Research in collaboration with DARIAH took place on 15 May 2019, in the framework of the DARIAH Annual Event⁴⁴ in Warsaw, 15-17 May 2019. Under the title 'Cultural Heritage Reuse Cases: Facilitating the Exchange of Perspectives between Heritage Professionals and Researchers'⁴⁵, the workshop aimed at relaunching the activities of the DARIAH Reuse Charter⁴⁶, in which Europeana Research takes part, and at promoting the activities of the Europeana Research community. The

https://pro.europeana.eu/post/clarin-and-europeana-make-discovery-and-processing-quick-and-easy-for-135-0 00-cultural-heritage-objects

https://medium.com/@marta.p/the-quick-war-the-perception-of-wwi-in-germany-local-daily-newspapers-of-the-time-5537c3b5e5c0

⁴⁰

⁴¹ https://www.oeaw.ac.at/acdh/detail/event/acdh-virtual-hackathon-series/

⁴² https://github.com/acdh-oeaw/ACDHhackathonODD/blob/master/ruling.md

⁴⁴ https://dariah-ae-2019.sciencesconf.org/

⁴⁵ https://dariah-ae-2019.sciencesconf.org/261453

⁴⁶ https://www.dariah.eu/activities/open-science/data-re-use/

workshop was promoted via the DARIAH Reuse Charter blog⁴⁷ and the KB website⁴⁸, as well as via Europeana Pro⁴⁹ and the @EurResearch twitter account.

According to the number of registrations, the DARIAH Annual Event, which focused on the theme 'Humanities Data', attracted the interest of almost 200 researchers. Three members of the Europeana Research Advisory Board took an active part in it (contribution to workshop 'Digital Methods and Practices Observatory (DiMPO)'⁵⁰; presentation on 'Archives that matter', included work done with Europeana; publication on 'Understanding. The value of metadata in a digitally joined-up world'⁵¹, included a contribution on the reuse of Europeana sources in the field of Photography; presentation on 'Facilitate the Cooperation between Humanities Researchers and Cultural Heritage Institutions⁵², mentioning the Europeana Research Grants Programme; presentation on the 'Parthenos Foresight Study'⁵³, to which Europeana Research had contributed).

Europeana Research attended three webinars relevant to its activities over the semester: the LIBER Webinar 'Finding and Reusing Research Data'⁵⁴ organised by LIBER on 11 April 2019; 'Open Access and the Humanities: A Train the Trainer Perspective'⁵⁵, organised by EIFL and FOSTER Open Science in collaboration with DARIAH and Open Library of Humanities, on 21 May 2019; and 'How Europeana's Impact Playbook Can Help Measure Impact in Your Library'⁵⁶, organised by LIBER on 21 May 2019.

CLARIN harvested and imported its new selection of 135,000 high quality Europeana records with improved conversion to CMDI (CLARIN component metadata). A blog was published by CLARIN and EF (at clarin.eu and pro.europeana.eu respectively) to highlight the renewed metadata inclusion and possibilities for discovery and processing and provide a brief outlook for the future of this collaboration at the metadata exchange level.

Subtask 3.2.1. Organise Europeana Research grants programme

Partners: EF and AthenaRC

Status: In progress

We will finalise the work related to the 2018 edition of the Europeana Research grants programme and will publish and promote three case studies about the grant fund winners.

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https://www.dariah.eu/2019/03/13/working-groups-stories-5-trust-and-understanding-the-value-of-metadata-in-a-digitally-ioined-up-world/

⁴⁷ https://datacharter.hypotheses.org/308

⁴⁸ http://lab.kb.nl/agenda/dariah-annual-event

⁴⁹ https://pro.europeana.eu/event/dariah-annual-event-2019-humanities-data

⁵⁰ https://dariah-ae-2019.sciencesconf.org/259625

⁵² https://zenodo.org/record/2587481#.XQoscRYzaUm

https://zenodo.org/record/2662490#.XRCsyuszaUl

⁵⁴ https://libereurope.eu/events/liber-webinar-finding-and-reusing-research-data/

⁵⁵ https://www.eifl.net/events/webinar-open-access-and-humanities-train-trainer-perspective

⁵⁶ https://zenodo.org/record/3066802#.XRCtv-szaUl

MS51	Europeana Research Grants Programme	M15	Due
MS76	Three case-studies of using Europeana in academic research	M11	Due

The three researchers awarded a Europeana Research Grant started with the promotional activities for their projects.

Dr Elizabeth Benjamin gave a seminar⁵⁷ to the Culture, Media, Place @Solent (CMP) Working Group, on 24 April 2019 at Solent University. Two new pieces were published on the project-related blog: 'Return to Sender on Tour (Part 1) - Taking Europeana to the US'⁵⁸; and 'Return to Sender on Tour (Part 2) - the first demo'⁵⁹.

Dr Berber Hagedoorn presented her project in the context of the 8th edition of the European Remembrance Symposium entitled 'The Making and Re-Making of Europe: 1919–2019'⁶⁰ at Sorbonne University in Paris on 27-29 May 2019 (session on 29 May, Re-makings of Europe: legacies on display).

Dr Saverio Vita created a Facebook page⁶¹ for his project in April 2019. Two pieces of news about it were published: one by the 14-18.it portal⁶², the other one by the 'Close Encounters in War Journal'⁶³.

Task 3.3. Engage with creative industries communities

Partners: EF

Status: In progress

Under this task EF reaches out to creative industries communities. Following communication and dissemination activities were undertaken in the reporting period:

Partner	Name of event	Activity	Location	Date
EF	Labs newsletter	April edition: 559 subscribers 32.3% opening rate	Online	03/04/19 07/05/19

57

 $\frac{\text{https://www.eventbrite.co.uk/e/return-to-sender-mapping-memory-journeys-1914-18-cmp-research-seminar-tickets-5492103}{1283\#}$

⁵⁸ https://returntosendermap.eu/blog/2019/05/14/return-to-sender-on-tour/

⁵⁹ https://returntosendermap.eu/blog/2019/05/30/return-to-sender-still-on-tour/

⁶⁰ https://enrs.eu/symposium2019

⁶¹ https://www.facebook.com/Upgrading-History-Diaries-from-the-War-Front-2049745891992152/

⁶² http://14-18.it/bacheca/170

⁶³ https://closeencountersinwar.org/2019/06/07/announcement-research-project-upgrading-history/

		May edition: 603 subscribers 33.5% opening rate Growth vs previous reporting period of 8% (43 subscribers) and 2.2% opening rate		
EF	Labs Twitter	Ongoing updates 1.264 followers (slight growth vs. previous reporting period)	Online	Ongoing
EF	Europeana Pro Blogs	Two blogs related to the creative industries ⁶⁴⁶⁵	Online	18/04/19 21/05/19

Subtask 3.3.2. Organise Europeana Challenges and Match funding

Partners: EF

Status: In progress

Europeana Challenges are online annual competitions to identify, select and fund the best ideas for creative and sustainable reuse of digital cultural data.

MS49	Europeana Challenges	M7, M18	Done, Due
MS50	Europeana Match funding programme	М9	Delayed

We are in the final evaluation stage of the Europeana STEM Challenge⁶⁶. The jury completed their assessments and we invited the three highest scoring projects for an interview on 12 June. The jury panel will award 8,000 EUR to the winning video project. The winning project will be reported on in the next report.

 $\frac{\text{https://pro.europeana.eu/post/got-a-digital-idea-that-bridges-cultural-and-audiovisual-content-apply-for-creative-europe-funding-by-20-june}$

⁶⁴ https://pro.europeana.eu/post/tech-and-music-forever-and-always-the-perfect-couple

⁶⁶ https://pro.europeana.eu/post/europeana-stem-challenge

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, creative industries, 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

Status: In progress

The primary communications platform for this market and our stakeholders is Europeana Pro⁶⁷. Communication to CHIs and expert communities will be disseminated through a number of key channels including Twitter and LinkedIn expert groups.

In April-May 2019, the Europeana Communicators community elected a new steering group. Community engagement is demonstrated by the fact that eight members put themselves forward to help drive the community through its next phase. The incumbent chair and co-chair will stay in place until August until the new steering group is established.

Over this period, the steering group continued to progress the community action plan, including: developing the community's first webinar (and associated Europeana Pro News series) on 'Digital Storytelling'; exploring Twitter use for ENA members; and contributing to the programming of the Europeana 2019 conference.

The community newsletter subscriber list and community LinkedIn group continue to grow to 102 and 99 respectively. The monthly newsletter continues to be well-received with an average open rate in April-May of 55.4% and a click rate of 13.8%. April-May updates included information on the community's updated action plan, in addition to Europeana campaigns, publications and professional tips.

EF was invited by a Member State to contribute an article on 'Museums and Digital Society' for the 'World' section of 'Museums Magazine' from the Portuguese General Directorate of Cultural Heritage. The article entitled 'Museums in the Mirror World - preparing for the next stage of our digital transformation' was submitted in May and will be published in the print magazine in November 2019.

⁶⁷ https://pro.europeana.eu/

In April-May, 23 posts were published on Europeana Pro News. Key themes included updates from a dedicated event on digital transformation under the umbrella of the Romanian Presidency of the EU, and support for the Commission's Creative Europe funding call. A further strand related to ENA communities, with updates from the Impact, EuropeanaTech and Communicators communities, monthly Members Councillor interviews ('Professionals in Focus') and announcements around the community-themed Europeana 2019 conference.

Most popular Europeana Pro News published in April/May

Title	Theme	Date of publication	Views
Introducing our 2019 event: Europeana 2019	Event/ENA communities	15 May	1,915
Europeana Conference 2019 - save the date	Event/ENA communities	10 April	1,727
Europeana and the FAIR principles for research data	EuropeanaTech/ Research	3 April	786

Media Mentionings in April/May

Over April and May, there were 13 media mentions from Spain, Italy, US, France, Jordan and Hungary. Europeana. Le plus grand musée un ligne du monde⁶⁸, El rincón interesante del día n°357⁶⁹, and Out of the Classroom and Into the World: 70-Plus Places to Publish Teenage Writing and Art⁷⁰ are a few prominent examples around education, WW1, and the Europeana site generally.

Task 4.2. Communication and dissemination to European citizens

Partners: EF

Status: In progress

Communication and dissemination to our end-users (European Citizens) aim to increase new visits and re-visits to the Europeana Platform.

One way of communicating with European Citizens, or end-users, is our monthly newsletter (e.g. May 2019⁷¹). Currently we have 51,224 subscribers for the newsletter with an open rate of 24,2% and click-rate of 3%.

70

 $\frac{\text{https://www.nytimes.com/2018/11/15/learning/out-of-the-classroom-and-into-the-world-70-plus-places-to-publish-teenage-writing-and-art.html}{\text{71}}$

https://mailchi.mp/europeana/text-announcement-in-manuscripts-and-early-printed-books-519265?e=3509705 f6a

⁶⁸ https://outilstice.com/2019/05/europeana-le-plus-grand-musee-en-ligne-au-monde/

⁶⁹ https://www.historiaeweb.com/2019/05/07/rincon-357-alemania-nazi/

Subtask 4.2.1. Engage users with Europeana Collections

Partners: EF, F&F, and SPK

Status: In progress

The user can experience editorials on Europeana Collections' landing pages including hero images and promotion tiles as well as browsing through galleries, blogs and exhibitions.

During this reporting period we published 8 new blogs (e.g. 'Liberation skirts: how post-war upcycling became a symbol of female solidarity'⁷² and 'From the New World: American music from a Czech maestro'⁷³), including several guest blogs⁷⁴ by partners from the Migration and the Arts and Sciences Generic Service project, on a wide range of topics from music to sports, from migration to arts. In addition, 5 new galleries (e.g. 'Voting in elections' ⁷⁵ and 'Vintage chocolate advertising'⁷⁶) were published during this period.

In May, preparatory work started for the second season this year entitled 'Europe at Work' on the theme of industrial heritage with strong participatory elements, comprising of online and offline events engaging with EU citizens as well as with varied editorial on Europeana Collections. The season will run from mid-September to mid-November.

Exhibitions Europeana DSI-4

Title	Publication date	Net Promoter Score	No. respondents/NPS
People on the Move ⁷⁷	09/10/2018	42	110
An Eye for Detail ⁷⁸	16/11/2018	40	141
Pioneers: Trailblazing women in the arts, sciences and society ⁷⁹	18/01/2019 - 08/03/2019	67	1139

EF measures NPS on each of the newly published online exhibitions until the number of respondents reaches at least 100 in order to provide a comparable sample of users. The average NPS score for exhibitions published in DSI-4 is 49. Because of the unusually long publication and promotional period of the Pioneers exhibition, its NPS poll has collected opinions from over 1k respondents.

⁷²

http://blog.europeana.eu/2019/05/liberation-skirts-how-post-war-upcycling-became-a-symbol-of-female-solidar ity/

⁷³ http://blog.europeana.eu/2019/05/from-the-new-world-american-music-from-a-czech-maestro/

⁷⁴ http://blog.europeana.eu/2019/04/grynoriai-lithuanian-american-life-in-the-early-20th-century/

⁷⁵ https://www.europeana.eu/portal/en/explore/galleries/voting-in-elections

⁷⁶ https://www.europeana.eu/portal/en/explore/galleries/vintage-chocolate-advertising

⁷⁷ https://www.europeana.eu/portal/en/exhibitions/people-on-the-move

https://www.europeana.eu/portal/en/exhibitions/an-eve-for-detail

⁷⁹ https://www.europeana.eu/portal/en/exhibitions/pioneers

Thanks to a different promotional approach Pioneers reached one of the highest NPS scores so far (67) and was our most popular online exhibition since publishing Faces of Europe (which was published and promoted as part of the 2016 Europeana annual campaign).

Subtask 4.2.2. Work with third party platforms and social media

Partners: EF

Status: In progress

EF will continue to make strategic use of social media as a means of sharing cultural heritage material with European Citizens in the promotion of Europeana Collections and to support seasonal campaigns.

In April, we celebrated International Romani Day (April 8th) with a relevant #GalleryOfTheWeek, we organized an Easter Egg Hunt, inviting the users to find Easter eggs and chickens hidden in a painting and we encouraged the users to share their favourite books and authors during the World Book Day (April 23).

In May, we celebrated Europe Day, repromoting our popular exhibition Faces of Europe. Between 13th and 19th of May, we participated in the Museum Week. The 2019 theme was Women in Culture which was a great occasion to repurpose the content created for the Women's History Month as well as contribute relevant content to the daily themes.

Wikimedia

EF helps content holders connecting their collections to the world's most accessed educational resource, Wikipedia, in several ways.

In the sidelines of the annual headline Wikipedia conference - Wikimania (this year to be held in Stockholm) - several events are being organised by EF to help increase coordination between and among leaders in both the Wiki and cultural sectors. This places the Europeana Initiative as the 'hub' of conversations which bring together these communities and the organisation which sets the agenda - figuratively and literally - in the field of open access cultural heritage. For this event specifically, this includes: training for Swedish 'small GLAMs' affiliated with the national aggregator partner Riksantikvarieämbetet, the biennial reunion of GLAM-Wiki coordinator professionals of all Wikimedia national affiliates, and the inaugural meeting of representatives of national/legal-deposit libraries using the Wikidata platform for their cataloguing/metadata/authority-control functions. EF's Wikimedia liaison was also invited to, and are undertaking, the role of Program Chair for the main conference - a demonstration of the respect the organisation has within this global volunteer community.

Throughout the whole reporting period, nearly all EF blogposts published were used as references within English Wikipedia articles. Especially blogs written by network partners -

are being consistently mined for references to improve Wikipedia articles. This increases the re-use of the information, its visibility, and its referral rate. Limited exceptions are for when the existing Wikipedia article is already peer-reviewed as very high quality (so as not to be seen as 'overwriting' existing community-generated content, or 'list' format blogs). The blogpost National Feestrok was used to create an entire new Wikipedia article, which when featured on the Wikipedia main page for a day received 12,000 hits.

EF's Wikimedia liaison was invited to join the RightsStatements.org working group - ensuring information flow about rights representation/metadata is flowing between the three organisations' communities' policies and metadata infrastructure.

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

Status: In progress

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

In the end of May, the ENA membership stood at 2,478 members⁸⁰. In the reporting period, we gained 80 new members. We can see that 108 ENA members are highly engaged by contributing to task forces and working groups. Looking at all members from task forces, working groups, and communities we see a total of 3,735 ENA members involved. One member can be involved in more ENA activities.

EF engaged with ENA members through Europeana Pro blogs⁸¹ (e.g. series 'Professionals in focus' introducing the new Councillors⁸²) and the May's newsletter referred to as monthly Network Update⁸³ (1,374⁸⁴ subscribers). The blogs and newsletters are relayed through various communication channels such as LinkedIn, Twitter and Facebook.

EF also managed the Europeana LinkedIn Group⁸⁵ (4,240 members) with updates and posts published on a daily basis. The group provides an easy way for the Network members and others to interact with each other and with the EF.

MS54	Europeana Network AGM	M15	Due
MS55	ENA annual report	M18	Due
MS65	Satisfaction survey with ENA members	M10	In progress

Task 5.1. ENA governance

Partners: EF

Status: In progress

https://www.linkedin.com/groups?gid=134927&trk=vsrp_groups_res_name&trkInfo=VSRPsearchId%3A1260728 031426260127839%2CVSRPtargetId%3A134927%2CVSRPcmpt%3Aprimary

⁸⁰ https://pro.europeana.eu/network-association/network-members

⁸¹ https://pro.europeana.eu/blog

⁸² https://pro.europeana.eu/post/professionals-in-focus-michal-cudrnak-head-of-digital-collections-and-servicesat-the-slovak-national-gallery

⁸³http://us3.campaign-archive.com/?u=ad318b7566f97eccc895e014e&id=1d93e140a8

⁸⁴ https://pro.europeana.eu/network-association/network-members

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

MS53	Europeana Network MC meetings	M8, M15	Done, Due
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The Management Board held a virtual meeting on 3 April and on 15 May 2019. The meetings focused on discussion of outstanding issues related to the ENA communities, task forces, ENA budget, and preparation of a virtual Members Council meeting on 3 July 2019.

Task 5.2. ENA task forces and working groups

Partners: EF

Status: In progress

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

Three task forces are currently active: EuropeanaTech task force on 'Interoperability of annotations and user sets'⁸⁶ (29 members) and the '3D content in Europeana'⁸⁷ task force (9 members), and the Europeana Research community task force on 'Research requirements' ⁸⁸ (12 members).

Three Working Groups are currently active: EuropeanaTech Data Quality Committee (35 members)⁸⁹ Working Group, 2019 Governance Working Group (8 members)⁹⁰, and 2019 Europeana 2019/AGM WG/programme advisory committee (15 members)⁹¹.

Task 5.3. ENA communities

Partners: EF

Status: In progress

The ENA organises communities as trans-national networks of experts and specialists in the fields of creating, preserving and publishing digital cultural heritage online.

Communities help ENA members to cultivate and share knowledge, expertise and best practices around a specific topic or area of common interest. The members can sign up to receive the newsletters, join various communication channels and social media groups, and attend community-related events and meetings. There are currently six active Europeana

⁸⁶ https://pro.europeana.eu/project/interoperability-of-annotations-and-user-sets

⁸⁷ https://pro.europeana.eu/project/3d-content-in-europeana

⁸⁸ https://pro.europeana.eu/project/research-requirements

⁸⁹ https://pro.europeana.eu/project/data-quality-committee

⁹⁰ https://pro.europeana.eu/project/governance-working-group

⁹¹ https://pro.europeana.eu/project/europeana-2019-conference-programme-advisory-committee

Network communities⁹²: Europeana Tech (1,142 members), Europeana Impact (188 members), Europeana Copyright (244 members), Europeana Research (1,369 members), Europeana Education (415 members), and Europeana Communicators group (269 members).

In April and May, the major focus of communities was on following their work plans for 2019, and for some, also re-appointment of their community steering groups.

EuropeanaTech⁹³ is a community of experts, developers and researchers from the R&D sector making sure the Europeana Initiative leads the way with technological innovation. In April and May, the EuropeanaTech steering group has contributed to the preparation of the Europeana 2019 conference. The work of the task force on annotations and user sets has continued, and the task force on governance of EDM activities94 has concluded. We have published a blog on how Europeana follows the FAIR principles (see Task 3.2).

Europeana Research⁹⁵ community promotes digital cultural heritage for use in research and represents the needs of professionals working in research and cultural heritage across all the sectors. The community Steering Group (SG) ran the first general survey for the community from 18 April to 31 May 2019. 100+ people (almost 10% of the members) participated in the survey. Its aim was to know more about the community members, their engagement in Research, and their preferences as for the activities that the community will organise in the near future. For instance, the survey results have guided the selection of research-related topics to address on the occasion of the Europeana event in November 2019. In the survey's last page, the SG invited the community members to send to EF a short description of case studies and best practices that they would like to share within initiatives organised by the Research Community. Two examples were presented at the workshop organised by Europeana Research at the DARIAH Annual Event in Warsaw, 15 May 2019.

Europeana Education⁹⁶ community embeds Europe's digital cultural heritage in formal and informal education and learning in innovative ways by working with professionals in education and cultural heritage fields. From 8 April until 13 May we run a survey to understand the composition of our community, their needs and interests and how they would like to be involved. 70 people (21.5% from a total of 325 members) answered. The most prominent part of our community is teachers in secondary education (35.7%), followed by CHI representatives (15.7%). Their main motivation for being part of our community is to find innovative learning resources with digital cultural heritage (31.4%) and

https://pro.europeana.eu/proiect/creation-and-governance-of-edm-mappings-profiles-and-extensions-task-forc

⁹² https://pro.europeana.eu/network-association/special-interest-groups

⁹³ https://pro.europeana.eu/network-association/special-interest-groups/europeanatech

⁹⁵ https://pro.europeana.eu/network-association/special-interest-groups/research-community

⁹⁶ https://pro.europeana.eu/network-association/special-interest-groups/europeana-education

to share and discuss with peers best practices (32.8%). The activities they would like to be involved with are collecting and sharing best practices and case studies (28.5%) and initiating and participating in joint projects (28.5%). We have already collected seven cases and we are now designing some editorial guidelines to help the Steering Group members to write an article about it. Their preferred channels of communication are mailing list (38.5%) and Facebook (22.86%). The latter is already in place with the Europeana Education Group⁹⁷. Currently, we are exploring the best tools available for creating a mailing list and try to implement it during the next period.

Europeana Communicators⁹⁸ is a community of communications professionals, bloggers and social media influencers helping to put digital cultural heritage at the heart of Europe's future. In April-May the community progressed its Q2 action plan⁹⁹ by completing the election process for a new steering group, progressing work on its first 'solve it session' (an online workshop for communications professionals), and on exploring Twitter use for ENA members, as well as contributing to Europeana 2019 conference programming. The steering group held one meeting in May, and the community sent out two monthly newsletters (55.4% open rate, 13.8% click rate) and a steering group voting notice (67% open rate and 24% click rate).

Europeana Impact¹⁰⁰ community aims at collaborating to maximise the impact of cultural heritage professionals' and impact professionals' work in the sector and beyond. In this period, the chair and vice chair of the steering group were appointed, a call to members to join the steering committee was published and a draft work plan is prepared.

Europeana Copyright¹⁰¹ community supports collaboration, offers representation and provides information and consultation on copyright in the cultural heritage sector. A meeting of the community is arranged for 13th June in Brussels, coupled together with a symposium to explore the new eu copyright rules (DSM Directive).

Task 5.4. Europeana EU presidency events

Partners: EF

Status: In progress

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.

MS56	Europeana EU presidency events	M9, M15	Done, Due
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⁹⁷ https://www.facebook.com/groups/EuropeanaEducation/?ref=bookmarks

⁹⁸ https://pro.europeana.eu/network-association/special-interest-groups/europeana-communicators-group

²⁹https://docs.google.com/presentation/d/1fTW4YzHhvboHVMeQjZJzTMiUHOx_K8zyF_kZpa3JWjU/edit?usp=shar ing

https://pro.europeana.eu/what-we-do/impact

https://pro.europeana.eu/network-association/special-interest-groups/europeana-copyright#

Under the Romanian EU Presidency the Europeana Conference 'Exposing online the European cultural heritage' was held in lasi on 17-18 April 2019, and brought together 90 officials, policymakers and practitioners to examine and explore the positive impacts and the challenges of making cultural heritage available on the web for heritage institutions. Interoperability and cooperation emerged as the keywords of the meeting and pointed to the foundations needed to consolidate and secure the cultural heritage sector's place in Europe's digital future. The programme¹⁰² was designed to facilitate working in groups, all participants were invited to share their own experiences of challenges and opportunities from working within their own aggregation systems with each other. They identified where they share common ground and what refinements or changes they think are needed to build on their experience. Workshops, plenary and feedback sessions saw delegates develop a series of ideas, recommendations and shared issues that were summarised in a number of strategic recommendations and in three principles for building a strong national approach, identified and agreed upon with the delegates:

- 1. National Strategies should achieve more than enabling a national aggregator A published strategy should be agreed upon by the local CHI sector and supported by policymakers.
- 2. Having a standard on paper is not enough: it needs to be supported on a local level Adoption of international standards requires local environments that create opportunities to learn, share and access resources and expertise.
- 3. Individuals are the drivers of motivated and sustainable communities Local communities are essential tools to agree on and implement shared standards and practices towards increasing access to higher quality data.

EF - together with representatives from this meeting - is developing a paper that builds on these principles. This paper will both illustrate and articulate the thoughts, ideas and recommendations which came out of the conversations, observations and strategic planning in Romania. As part of this paper, recommended actions to support the aforementioned principles will be outlined at Ministerial level, as well as actions for cultural heritage institution and the Europeana Initiative.

Under the auspices of the Finnish Presidency of the Council and in collaboration with the Ministry of Education and Culture of Finland we are organising the Europeana meeting on 'Multilingualism in digital cultural heritage', and its application to Europeana. During the one-and-a-half-day event, we will look into multilinguality and linguistic diversity in the European Union and we will highlight its importance as a tool for bringing us together and

accessing each other's cultures. The meeting will be held on 24 and 25 October in Espoo, Finland and it aims to identify and provide insights into solutions for applying multilingualism in digital cultural heritage. We will focus on multilingual metadata, content translation and user interactions. Multilingualism experts, DG CNECT, the DCHE Expert Group, representatives from the ministries of culture and cultural heritage institutions will be invited to the meeting. At the meeting we aim to develop a deeper understanding of multilingualism problem/opportunity space, provide input into the Europeana multilingualism strategy and consider what options and actions can be pursued in the local context at each ministry of culture and heritage institutions across the EU.

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.

<u>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</u>

Partners: DEN and EF Status: In progress

DEN is in the process of contacting representatives from eight ministries to gather feedback on the scope and use of the ENUMERATE core survey. A report on these interviews along with recommendations for how to take these insights forward will be finalised in June.

Insights on the costs and funding of digitisation are expected for the second year of the contract (M20).

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 Status: In progress

MS59 Impact Playbook version 2.0	M8	Delayed, expected in July 2019 (M11)
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Together with subcontract Sinzer, EF and DEN are preparing a draft impact report on the use of Europeana in education which aims to identify the range of impact achieved through this work. This is being prepared following desk research into the general use of cultural heritage in the education sector, and following internal consultations with EF's staff involved with Europeana Education. The goal of these meetings was to understand the scope of the activity Europeana undertakes, the goals of this activity and an understanding of the data collected around these activities. From this a draft report outlining the impact of this work is being prepared. The draft report will be shared with stakeholders, in particular the EC representative, to gather feedback so that it may be used as a template for further impact assessments undertaken in the following periods.

The impact playbook continues to be developed with the support of sub contractor Sinzer. The second version of the playbook is undergoing final checks and will be shared with the impact community, and the wider Europeana Network in July.

Outcomes of these work are expected for the second year of the contract (M22).

Task 6.3. Cost-benefit analysis

Partners: EF

Status: Not started, expected in June 2019.

As part of this contract, EF will subcontract an expert to develop a cost-benefit analysis on Europeana. Procurement for the subcontract is expected to start in early 2020

Work Package 7: Governance

Partners: EF

Status: In progress

Under WP7 EF reports to the European Commission, the Expert Group on Digital Cultural Heritage and Europeana (DCHE) 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.

MS62 DCHE/Subgroup meeting	M6, M12, M18	Done, Due
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EF attended the DCHE meeting in May 2019 and presented the progress of Europeana DSI-4 to date. Furthermore, several options for changing KPIs and dealing with tier-0 (non-EPF compliant material) were discussed and agreed with the DCHE members.

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.

Status: In progress

In May, we submitted updates for C.1 Technical documentation (M9) as part of the hand over documents.

Work Package 9: Project and Programme Management

Task 9.1. Project management of Europeana DSI-4

Partners: EF

Status: In progress

EF met with the Europeana DSI-4 project officer of the European Union in April and May for monthly operational management board meetings. During the meeting we mainly discussed periodic reports (B.2 and B.3 deliverables) delivered in April (M8) as well as deliverables submitted in May (M9) (D.1 Communication and dissemination plan, C.1 Technical documentation, C.4 Stress and disaster recovery test reports).

MS64	Europeana DSI-4 general assembly	M13, M18	Due
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Task 9.2. Relations with Europeana DSI Generic Services projects

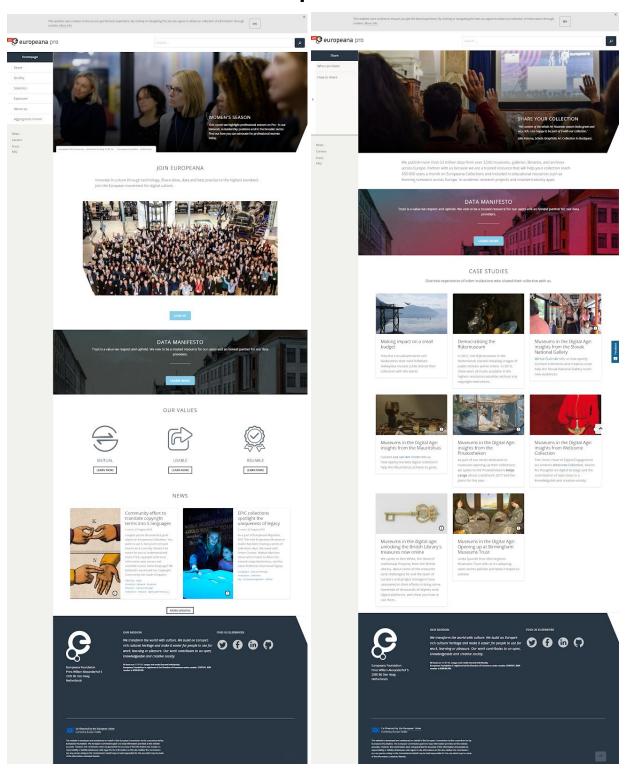
Partners: EF

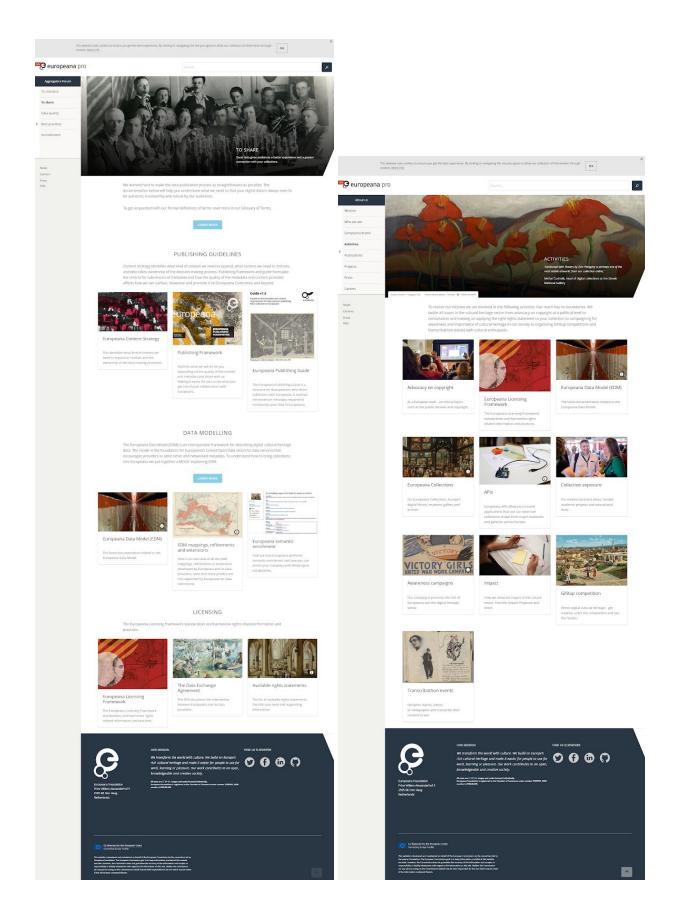
Status: In progress

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. Support for integrating the results of the running projects (EuropeanaMedia, EnrichEuropeana, Crowd Heritage, Common Culture) into Europeana DSI so far are summarised in A.1 Platform report¹⁰³.

¹⁰³ A.1 Platform report is available on the Europeana DSI-4 project page. https://pro.europeana.eu/project/europeana-dsi-4

Annex: Beta version of Europeana Pro





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 Partnership AISBL, Belgium

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

CH Cultural Heritage
DPS Data Partner Services

DCHE Digital Cultural Heritage and Europeana

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

Annex: Glossary of terms

Formal definitions of terms used frequently are detailed in the glossary of terms¹⁰⁴ 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-m

ucha.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

¹⁰⁴ 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.