Europeana DSI 2 – Access to Digital Resources of European Heritage

DELIVERABLE

D4.2 Second project report

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REVISION HISTORY AND STATEMENT OF ORIGINALITY

Revision History

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Statement of originality

This deliverable contains original unpublished work except where clearly indicated otherwise. Acknowledgement of previously published material and of the work of others has been made through appropriate citation, quotation or both.

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1. Publishable Summary

Europeana DSI-2 operates the Europeana Core Service Platform. With 34 participants it delivers interoperability and connectivity of digital cultural heritage at a European level. Funded under the Connecting Europe Facility, the project serves to operate an infrastructure to provide an efficient solution for access, enrichment and distribution of multilingual and multi-domain resources for application in five markets: Cultural Heritage Institutions (CHI), the European citizen, Education, Creative Industries and Academic research.

The revision of the Europeana strategy is a major result for this reporting period (December 2016 - April 2017). After a yearlong conversation with all stakeholders, from users, European Commission to MEPs, and curators to creatives, the revised strategy builds on the objectives of Europeana's Strategy 2020: 1. Creating value for partners, 2. Improving Metadata Quality and 3. Opening the Data allowing us to reaffirm the vision for Europeana, and maximise our impact by focusing on three priorities:

1. **Make it easy and rewarding for Cultural Heritage Institutions to share high-quality content**
2. **Scale with partners to reach our target markets and audiences**
3. **Engage people on our websites and via participatory campaigns**

Together with all stakeholders, including the Europeana DSI-2 consortium, we will aim to sharpen our focus on quality, to make sure educators, researchers, creators, and citizens across Europe genuinely can make use of the content Europeana provides. We know users consume content in different ways and that there is a growing appetite for participation. The key is to make sure we all know 'who is responsible for what' across our diverse network so that we can rely on each other to deliver. The project Europeana DSI-2 was written prior to the process of strategy revision, but its four goals are covered in our Business Plans to implement strategy. The project straddles two Europeana Business Plans: 2016 and 2017. The Business Plan 2017 was delivered in the reporting period, as the project deliberately allowed for change of strategy during its lifetime.

This progress report covers the period of 1 December 2016 until 30 April 2017, during which the project has made good progress in relation to these goals. This was illustrated by the fact that in December Nominet Trust, the UK's leading tech for good funder, named Europeana in their top 100 list. The NT100 is a global celebration of the most inspiring innovations using digital technology to drive social change around the world.

1. Create value for partners

To achieve this first goal, we focus on improving services (Europeana Pro, Europeana Collections, Europeana Labs, Europeana Research) for our key markets.

1.1. Objective 1 – Create a better customer experience
Several products and services are contributing to the improvement of the CHI-customer experience. A new Europeana Professional site (which will include all information for professional users) will be delivered mid to late summer 2017 (under WP5 and WP6) and the work to deliver a new metadata ingestion suite called Metis is underway. During the reporting period, we have created user stories for both services and development for both on track (under WP6 and WP7).

For the European Citizen (end-users) we have been very active in targeting culturally interested users by declaring February to June 2017 "Art Nouveau" season. A newly created exhibition featuring almost fifty Art Nouveau art works is accompanied by new Pinterest boards and other outreach to users (WP2). Early results are promising: users reward the exhibition with a very high Net Promoter

Score[1]. Our #AllezLiterature campaign has also reached out to new audiences and promoted the written and spoken word elements of our cultural heritage. Tying into Valentine's Day, World Poetry Day and World Book Day we have highlighted much more of our library material. The libraries, particularly those of Eastern Europe, have been enthusiastically involved in the social media campaign as has the Europeana Network. By working with the Wikimedia community, we intend to reach new users for the Europeana 1914-1918 service.

Image galleries went live on Europeana Collections in April 2017. Galleries present a curated selection of images on a certain theme. Some bring together artworks from across Europe, while some focus more on just one country. Most of the galleries connect to our thematic collections: Europeana Art, Europeana Music, Europeana Fashion and Europeana 1914-1918. Galleries bring together between 6 and 48 images (all of which are Tier 2+) on a specific topic, curated by the Collections team and our thematic collections partners.

In this period, three new exhibitions were published:

- [Sausages and Cigars for Christmas](): the story of Max Kranz and the men from Hatzenport in World War One. The Net Promoter Score for this exhibition so far is 32.
- [Art Nouveau: A Universal Style:]() presenting an overview of Art Nouveau in its historical context and highlighting important examples of the style. The Net Promoter Score for this exhibition so far is 54.
- [Picture this! Vintage postcards of Southeastern Europe](): highlighting interesting facts and details about the cities of the regions presented on vintage postcards that showcase their cultural and natural heritage.

The [Transcribathons]() online runs have also contributed to the #AllezLiterature campaign. During the Christmas break of 2016, almost 900 documents were successfully transcribed and therefore made accessible for other use.

For Valentine's Day, Europeana - Europe's digital platform for cultural heritage - launched a special [Love Transcribathon](), an online crowdsourcing campaign developed to unveil unique testimonies of the First World War by encouraging people to transcribe handwritten love letters from that time. The Love Transcribathon is an ongoing online challenge starting from Valentine's Day. It will feature over 40 love stories told in letters from the First World War written in 7 languages (initially English, French, German, Dutch, Croatian, Slovenian, and Greek) that can be found on [Europeana 14-18]() (WP2 and WP8).

A conceptual design for the image discovery service has been made. In brief it will focus on exploration of high-quality imagery via image similarity (so-called Content Based Information Retrieval) computed by analysing the features and colours of the images. The concept draws on the [CultureCam prototype][2] developed in Europeana Creative and aims towards users who are looking for inspiration and exploration of top quality imagery. A selection of a first batch, about 120,000 images, of high-quality imagery that aligns with the Art, Fashion and Music themes have been selected and harvested for inclusion in the service.

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[1] Net Promoter Score (NPS) measures the loyalty that exists between a provider and a consumer. For Europeana, it will ask a similar question like 'How likely is it that you would recommend [this service] to a friend or colleague?'

[2] Note: The CultureCam prototype works only in Firefox.

The result of the user evaluations is that Europeana Music Collections and Europeana Collections meet their set user satisfaction KPIs but Pro, Labs and Research do not. That Pro, Labs and Research would not was something we suspected would be the case which is why we have already initiated an improvement (see 6.5.2 below).

To improve the way users can navigate between searching and browsing for Fashion objects and reading blog posts about Fashion we have integrated display of such blog posts into the thematic Fashion Collections. This will later be done also for all the blog posts we write that are about objects in our collections and new features - regardless of theme (WP2 and WP6).

EF has made a major breakthrough with respect to logging user actions on the Europeana Collections portal. A new logging system is in place. First analyses have been made with UoS and EF works on refining the framework (WP6).

INESC-ID has continued work on IIIF- and sitemap-based harvesting with University College Dublin and National Library of Wales. A client of the Linked Data Notifications protocol has been implemented.

Another major result under this objective is the Arttab Google Chrome extension : In the first two weeks more than 750 people have installed the app, resulting in close to 100,000 impressions of Europeana content. The Tab started with a defined pool of content and as that expands a further phase of promotion will be implemented. ArtUpYourTab is a hugely successful collaboration with Kennisland, Sara Kloster; the project was actually enabled by Netwerk Digitaal Erfgoed funding.

Europeana Radio was launched in January 2017. Europeana Radio gives users access to listen to a vast collection of more than 200,000 tracks. Users were invited to engage with these tracks on #TagDayThursday – a twitter call for listeners to tag the music they hear on Europeana Radio.

More challenging in this period has been trying to recover from the Google deindexing that took place in the previous period, reducing the number of end-users reaching Europeana and its content directly through search-engines. While we do everything we can to make Europeana available through search-engines, we also realise that a better way to reach end-users is through providing high-quality curated collections, social media engagement and collaborations with e.g. Wikimedia.

In this reporting period, two surveys were run on Europeana Collections - one in January and one in March 2017. The first had 904 responses, with 65% rating 4/5 or higher, and 83% rating 3/5 or higher and a net promoter score of 35. The second had 676 responses, with 66% rating 4/5 or higher, and 80% rating 3/5 or higher and a net promoter score of 37.

1.2. Objective 2 – Embed network-centric thought

The Europeana Network is a major partner in delivering this objective. The Members Council and the full Network support the work of the project. The secretariat of the Network is run through this project. It is worth adding that the Members Council was heavily involved in the set-up and development Europeana Network Association's response to all the sections of the EC Draft Europeana Evaluation Roadmap and was submitted on 18 January. The evaluation of Europeana by independent experts will be presented to the EU Council by October 2017, providing clear orientations for the mid and long term development of Europeana.

Also, the #AllezCulture WG supports the #AllezLiterature campaign driven by Europeana Office. EF also launched a Member States, in accordance with Council Conclusions of May 2016 dedicated space on Europeana Pro that features Country Reports and all relevant documentation. We also publish a Quarterly Member States Newsletter that sheds light on Europeana news of special interest to Member

States. Each quarter the newsletter will be pitched by one of the Member States to get them actively engaged. The 1st issue was launched on 12 April 2017.

2. Improve data quality

This second goal has focused on improving our ingestion tools (Metis) and on quality framework implementation such as IIIF[3], the emerging in international standard for image exchange, and the Europeana Publishing Framework (EPF).

2.1. Objective 3 – Innovate the way we aggregate material

Data quality continues to be a high priority for Europeana DSI. With all aggregating partners (WP1) we have developed a data quality plan and identified the most promising improvements. The EPF is a very welcome methodology to assess data quality, as is indicated by our user research and the willingness by partners to translate the document into several new languages. All domain aggregators are participating in these efforts to improve data quality, e.g. by fixing broken links, repairing thumbnails and updating metadata to new standards.

The overall number of records available in Europeana has increased by 1,247,599 to 54,358,074. Currently, 8.7 per cent of this number is tier 3 or 4 of the EPF and therefore of the highest quality. With our focus on quality over quantity, it is currently unlikely that the KPI of getting more than 3.5 million records in the project period will be met.

In early February 2017 the ingestion workflow business requirements update (MS1.1) was published, which gives an overview of the user requirements for Metis. A third iteration of the technical design plan for Metis was produced for this milestone document.

It is clear from the reports of the DSI aggregating partners that they believe in the concept and in many ways operate as expert hubs, executing the activities we agreed for expert hubs. That includes everything from engaging with institutions to training and helpdesk activities to data normalisation and developing domain standards. What is still missing is a cohesive vision for the development of the aggregation landscape as whole, including the role of Europeana Foundation and national aggregators in it. Europeana is working with all aggregators in WP1 to deliver such a vision.

2.2. Objective 4 – Implement quality frameworks

Under the (informal header) of Operation Direct (WP6, task 6.10), we continued to work with CHIs to connect data providers directly to Europeana. We continued further unit testing and performance testing of the prototypes developed during the previous phases of the project. APEF has performed a successful pilot, the results of which were shown at the AGM in Riga.

Technical partner NTUA has collaborated with EF in order to test and integrate the new developed services, namely the Operation Direct and Metis. This proved to be working fine.

In early March we published the new Europeana Content Strategy, which will guide our content acquisition process for the coming years. In addition we updated the Europeana Publishing Framework and Europeana Publishing Guide, to help with the implementation of the content strategy (WP1).

A major result was the development of a new quality framework to measure impact (WP4, also with support of partners in WP2). Europeana initiated a Task Force to support the development of a toolkit which will guide users through the implementation of the Impact Assessment Framework. The toolkit is being developed iteratively with the first results due in August 2017. The Network is being kept informed through regular blogs on pro.

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[3] International Image Interoperability Framework.

3. Open the data

3.1. Objective 5 – Develop community-segmented services

Working in relation to the first objective, we operate services in each market that show the benefits of opening data to the fullest extent possible. Europeana Collections (WP2) allows all users to see what is available on Europeana and shows clear information on how it can be used and re-used. For Europeana Collections and our thematic collections (art, fashion and music) we develop new features (WP6), based on user-demand or data partner request. In this reporting period, a gallery functionality has been developed and an entity API has been published in an alpha version. With partners, we have developed exhibitions and other user-facing features. Currently, we are preparing the Photography Collection, which will be launched in the fourth quarter of the project.

In the education market (WP3), we have positioned ourselves very prominently. Under the label #Europeana4Education, we are now running a community of users that use Europeana resources for educational purposes. First results show that this is a successful strategy to reach education and educational partners.

Europeana Research functions in the Research area to make sure that Europeana resources are being used for academic research (e.g. digital humanities). An annual grants programme was very successful with over 140 applicants. The three winners of the grant are now running their projects, with results expected at the end of the project (WP2). The Europeana Research Advisory Board selected for the Research Grants Programme three finalists, based on best fit to the Call for proposals, the detail of project plans, and the planned budget of each proposal and awarded funding to these projects. The final three were clearly the projects of the highest quality of the submitted proposals, as assessed by the Europeana Research Advisory Board.

For the creative industries, we continue to operate Europeana Labs (WP3); the website currently has almost 5,000 individual users each month. A grants programme for match funding is currently underway under the Goteo-service. Another major accomplishment was the development of the Re-use Business Plan (D3.2), which outlines our plans for the two markets education and creative industries, in line with our revised strategy.

Metrics measured through Google Analytics for this reporting period show that thematic collections continue to engage users better than the overall Europeana Collections site. Visitors are more likely to return to thematic collections (higher percentage of returning visitors), and are less likely to leave the site as soon as they enter (lower bounce rate). Visitors to thematic collections visit three times more pages and spend significantly more time on the site (pages per session; average session duration).

The automated dashboards for individual institutions have proved to be a lot harder to develop and maintain than expected due to the data structure. Many dashboards have bugs that require significant development efforts while the take up of individual dashboards is relatively low (a couple of dozen are active). We have therefore decided to re-evaluate the statistics dashboard. Short term we are going to disable the automated dashboards for individual institutions.

EUN took part in the Future Classroom meeting in Brussels (February 2017). Nineteen teachers from ten EU countries came together to test pedagogical scenarios and develop learning activities using Europeana content. EUN and EF collected their feedback on how they had used Europeana since the first workshop, including what worked well and where they need more support. During the workshop the teachers also developed and presented learning activities using Europeana content. More information about the workshop and its results is found in our blog.

To actively support the development of new distribution partnerships in education, we created a dedicated education area on Europeana Pro. Interested parties can now explore our partnerships, browse case studies of educational applications, resources and platforms featuring Europeana content, and get practical help from our collection of useful resources.

Europeana has also joined the 665 organisations featured on the OER (Open Educational Resources) World Map, and is now part of a network of developers of open educational learning resources, policy makers, teachers and learners from across the world. The OER World Map profiles Europeana as organisation/repository and Europeana Collections as educational resource. Find out more in our blog.

We also launched Europeana's first match funding call in close cooperation with our partner crowdfunding platform Goteo.org. The campaign will allocate 10,000 matches funding to support up to three creative projects in secondary education. The call for applications ran from 1 February till 15 March and resulted in 18 applications from across Europe. After careful evaluation by both Europeana and Goteo representatives, we announced three winning projects on 31 March.

3.2. Objective 6 – Champion interoperability
On the innovation level, we continue to support EDM to allow interoperability cross-domain and cross-language. Our Research and Development partnership (WP6) has been successful in advising other projects and consortia on our know-how. Europeana Tech is the major community under which these people come together.

A great example of interoperability, we built up our partnership with Creative Commons and integrated 470,000 openly licensed images from the Europeana Collections in the new CC Search beta. The current CC search tool is used by nearly 600,000 people globally every month and we believe this partnership will greatly contribute to a wider outreach to creatives around the world.

4. Strengthen the Europeana ecosystem

The final goal of the Business Plan is to strengthen the Europeana ecosystem. With this goal, we make the best use of the Europeana ecosystem, including the Europeana Network Association, the Member States, the European Commission, Europeana Foundation, and our partnership in the project.

4.1. Objective 7 – Achieve long-term funding
As explained in previous reports, a major result here were the Council Conclusions on Europeana, which were delivered during The Netherlands' Presidency of the EU in the first semester of 2016. Of course, we continued on this success by several (smaller) activities.

The Europeana 280 campaign, which was launched to promote and engage people with Europe's art heritage, came to a close at the end of 2016 (WP8). To mark the end of the campaign, our communications approach was to share and celebrate its success with those who participated through: this included targeted mailings, a dedicated Europeana 280 Slidebean that provided an overview of the campaign's success and was designed to allow participants to use it to promote their own participation and contribution to that success; a closing blog and a final social media rally.

The #Allezliterature campaign (WP8) was successful in showing the wealth of the written and spoken word as part of our cultural heritage. The campaign will run until the end of the project. In addition, we are preparing a new campaign to show the value of digital cultural heritage to all stakeholders in 2018.

Under WP4, we communicated and promoted the Europeana Generic Services opportunities with partners, resulting in four submissions for new thematic collections on Europeana. In addition, Europeana supported several H2020 projects from external partners.

4.2. Objective 8 – Transform the organisation from good to great

With support of the Network Association EF prepared the Europeana Business Plan 2017, which was published early February. It contains all plans for Europeana (DSI) in 2017 and is aligned with the revised Strategy 2020 and the Europeana DSI-2 DoA (insofar the project runs during 2017).

2. Progress December 2016 - April 2017

This document serves as the second progress report of the project. We will present progress in each work package according to the Description of the Action (DoA) in the period of 1 December 2016 to 30 April 2017. If applicable, each work package overview will end with an overview of deviations and changes in relation to the DoA.

Work package 1 Data Partner Services

This work package is responsible for the enhancement of the data and the aggregation infrastructure to preserve access to content that is already accessible, to improve metadata and content quality, and work with the aggregators to ingest new or updated content. The WP includes a much more proactive outreach to new content holders to join Europeana, with more openly accessible data, and fosters their active involvement.

Participants in this work package are:

- Europeana Foundation (EF)
- Association Cinématiques Européenes (ACE) and Deutsches Filminstitut (DIF), on behalf of EFG (representing the film archive domain)
- 2Culture Associates and AthenaRC, on behalf of CARARE (both representing the archaeology domain)
- Netherlands Institute for Sound and Vision (NISV), on behalf of EUScreen (representing the television and video archive domain)
- Freie Universität Berlin (FUB), on behalf of Open Up! (representing the natural history domain)
- MICHAEL Culture AISBL and Collections Trust (CT) (both representing the museums domain)
- Europeana Fashion International Association (eFashion) (representing the fashion heritage domain)
- Archives Portal Europe Foundation (APEF) (representing the archival domain)
- International Consortium for Photographic Heritage Photoconsortium (Photocons) (representing the photographic heritage domain)

These domain aggregators are complemented by three technical partners:

- National Technical University of Athens (NTUA)
- Poznan Supercomputing and Networking Centre (PSNC)
- Knowledge Integration Ltd (K-INT)

The objectives of this work package are:

- Innovate the data and aggregation infrastructure by developing business requirements for a shared workflow and toolset (task 1.2);
- maintain a data and aggregation service: Europeana DSI-2 will run aggregation services for 10 domains and themes (libraries, sounds, archives, museums, natural history, film, television, archaeology, fashion, and photography), including their technical services (task 1.3);
- increase knowledge of and expertise on the use of Europeana DSI-2 with the aim of increasing the participation of cultural heritage institutions in Europeana (task 1.4);

- implement and develop expert hubs: Europeana DSI-2 looks to the implementation of two expert hubs based on two domain aggregators, and sets up a best practice network with national aggregators (task 1.5); and
- improve data quality, according to the Europeana Publishing Framework tiers; Europeana DSI-2 will add 2,8 million records in tier 2 and above. In addition, Europeana DSI-2 will normalise and enrich metadata, such as provider names, date and language information (task 1.6).

Description of work carried out and achievements

Task 1.1. Manage the work package

All WP1 partners have a monthly reporting cycle, where recent achievements and upcoming work is reported in writing and during monthly progress calls between all partners. These calls are also used to align the work on tasks with several partners involved and help to find synergies between the works of the partners. The Aggregator Forum Basecamp project is used regularly to also keep the national aggregators that are associate partners of Europeana DSI - 2 up to date.

Task 1.2. Innovate the aggregation infrastructure for the Europeana DSI

Subtask 1.2.1. Develop business requirements for a new set of ingestion Workflows and tools
In early February 2017 the ingestion workflow business requirements update (MS1.1) was published, which gives an overview of the user requirements for Metis. A third iteration of the technical design plan for Metis was produced for this milestone document. See also T6.2.1.
EUscreen, Photoconsortium, Europeana Fashion, and the other MINT-powered aggregators provided feedback and suggestions to the further development and iteration of these documents and the Metis workflow.

Subtask 1.2.2. Market research and planning for shared data services and new set of ingestion workflows and tools
A stakeholder consultation with the partners of **OpenUp!** was held in Graz between 6 and 7 March, where both Europeana and OpenUp! data ingestion workflows were analysed at length and requirements identified for future features for Metis. We also had Metis demo sessions with DSI aggregating partners in this reporting period (APEF, EUscreen). Additional stakeholder consultations are being planned and prepared with Europeana Fashion, Photoconsortium and Europeana Sounds. These meetings are scoped but not scheduled yet.

K-INT have continued to maintain the legacy 'dark aggregator' platform from the Europeana Inside project for the use of Europeana Inside partners who currently have no other aggregator to use and also to provide access to shared service modules of the Europeana Connection Kit (ECK). K-INT have tested the validation and preview shared service components of Metis and provided feedback to the Metis team, much of which has been taken on board. A plan has been produced for the integration of these services into Culture Grid and the Dark Aggregator mentioned above. Full integration will take place in the next period. As part of the integration work, guidance will be produced to help other aggregators planning to integrate these services.

APEF has - after a successful pilot with the Europeana Operation Direct team, the result of which was shown during the Europeana AGM in Riga on 8 November 2016 - started a pilot with Metis.

Information on how to connect the Archives Portal Europe with Metis was exchanged between the Europeana and APEF technical teams and the result of this pilot will become visible in the next period. **Photoconsortium** and EUscreen also shared the satisfaction survey on the aggregation process, used to collect feedback from content providers, in their networks.

In this reporting period the prototyping and testing with Knowledge Integration started for the first two alpha version services (validation, preview). Other technical partners of aggregators were invited to start testing, incl. NTUA, AthenaRC, and others. For more details, see under T6.2.2.

Collections Trust (CT) has continued its work on the digital cultural strategy, led by the UK Department for Culture Media and Sport (DCMS), on the future of the UK national aggregator Culture Grid. It has taken part in consultation meetings and discussions with: Arts Council England; Minister of State for Digital and Culture at DCMS, with key sector stakeholders discussing digital infrastructure needs in the context of the DCMS museums review; Culture 24; and with colleagues at the British Library on core CultureGrid infrastructure.

FUB together with Europeana conducted a 1.5 -day stay of the Europeana team with Europeana DSI-2 FUB and AIT staff in Graz on 6 – 7 March 2017. The meeting was designed as consultation to evaluate the different set of tools and ingestion workflows of both sides with their special requirements, reconciling knowledge and expertise. We developed a common understanding of the commonalities and differences of the OpenUp! workflow and the workflow anticipated by Metis.

AthenaRC has continued to collaborate with Europeana and 2Culture about integrating the MORe aggregator with Europeana, completing pilot testing of the eCloud storage API and reporting the results to PSNC. There has been an ongoing collaboration with Europeana and 2Culture about Operation Direct. Athena RC successfully pilot tested the Operation Direct API demonstrating the feasibility of integrating the CARARE MORe aggregator. 2Culture and Athena RC initiated discussions between CARARE partners, the Deutsches Archaeologisches Institut, and Europeana concerning pilot testing of the Operation Direct API.

NTUA has collaborated with Europeana in order to test and integrate the new developed services, namely the Operation Direct and Metis. In particular, NTUA tested the functionality of metadata ingestion of Operation Direct, which proved to be working fine. NTUA also tested the validation and preview services of Metis, which also proved to be working fine. All comments and suggestions for further improvements have been sent to Europeana.

Task 1.3. Maintain and run data and aggregation services of DSI aggregating partners

The work **EF** is doing to maintain and run the Europeana data ingestion tools and services is reported under T6.2.4. EF also coordinated the work of the DSI aggregating partners towards the technical infrastructure maintenance plan (MS1.2), published in early February 2017.

Photoconsortium has been, and is currently, providing new associates who are interested in aggregating new datasets to Europeana with proper assistance in database refinement and use of EP-MINT aggregation tool. Also, refreshment about the MINT procedures is offered to former Europeana Photography partners for metadata improvement. Furthermore, it is currently preparing the annual event of Photoconsortium in Girona (9 June 2017), with a public event where the benefits of aggregating data and publishing in Europeana will be the focus of discussion with potential new content providers, possibly with hands-on sessions too.

APEF is constantly getting new partners and content providers on board and tries to interest those in forwarding content to Europeana also. It is expected that this will bear fruit now that the new APEF-

Europeana content policy is unanimously approved by the APEF Country Manager network as well as the APEF governing bodies, the Governing Board and the Assembly of Associates, who had their bi-annual face-to-face meetings on Malta on Friday 28 April 2017 and a regular and automated aggregation workflow will be in place.

EUscreen continued adding new partners and setting aggregation workflows. It updated its training components for the MINT metadata mapping pipeline and worked closely with Norwegian broadcaster NRK on mapping its rich, EBUCore-based metadata schema to EDM (for details, see: http://blog.euscreen.eu/archives/9171). It organised a partner network meeting in late March for existing and newly aggregating partners alike.

FUB: Technical developments for switching from harvesting the data provider's BioCASe web service record-by-record to harvesting the aggregated standard dumps of biodiversity repositories have been pursued further and the new ingestion workflow has been tested successfully with large quantities of data. The OpenUp! data and enrichment procedure has been adapted to the new BioCASe pipeline using the advanced Berlin Harvesting and Indexing Toolkit (B-HIT). The installation of the new B-HIT version was concluded, the required software changes in both the HIT user interface as well as the PENTAHO transformation process have been implemented. By now, overall 3,209,401 Records, collected from 31 institutions, 99% depicting images, 1% sounds, have been harvested in March 2017 by AIT for OpenUp!, using the new B-HIT version. Technical improvements will be ongoing in order to assure a persistent high-level performance of the ingestion workflow of OpenUp!. During the last reporting period, problems of broken links and missing thumbnails, showing a symbol instead of the cultural heritage objects (CHO) have been reported. Now, with work invested both on Europeana's and OpenUp!'s side, the overall appearance is enhanced; broken links as well as missing thumbnails have been reduced substantially. Only two of the smaller partners remain affected by both problems, while another three partners are lacking thumbnails as preview. FUB contributed to the MS1.2 technical infrastructure maintenance plan by describing and adding the OpenUp! Ingestion workflow.

The MUSEU (**MCA**) data aggregation infrastructure (MINT for MUSEU) is being constantly updated according to evolution of the Europeana technical requirements e.g. the latest EDM developments, the update of both LIDO to allow the publication of pictures in IIIF standard and the LIDO to EDM mapping.

The overall MUSEU contribution sums up now to 198,452 records from 7 countries and one dataset of 302 records from Italy published under AthenaPlus. Over 90,000 records are under publication. The highlights of this reporting period are 3,247 records from the Nationalmuseum (Sweden) in IIIF standard, 650 records from the Brandeis University (MA, United States) related to ancient documents recalling the 500 years of the Jewish Ghetto in Venice, and 436 items of the Schola Graphidis Art Collection of the Hungarian University of Fine Arts (Hungary) included in the Art Nouveau Season campaign.

2Culture works with Athena RC for CARARE providing expertise on metadata standards, ontologies and the data partners' user requirements from the aggregation services. During the reporting period 2Culture has continued to contact new and existing partners concerning publication of both updates to existing collections and new content to Europeana. Work to address quality issues such as broken links and missing thumbnails continues. Following discussions with Europeana concerning the thumbnail caching process for several CARARE datasets has been reinitiated.

AthenaRC continues to maintain and develop the MORe aggregator for CARARE. This includes maintenance of the infrastructure and the aggregator operation, and supporting data partners with expertise on mappings, data quality and data enrichment.

Some highlights from CARARE content published during the period includes [3D content from the Discovery Programme (Ireland) in Sketchfab](#), the [Aerial Photograph Archive of Romania](#) (created in a research partnership between the University of Glasgow, the University of Exeter and the National Museum of Transylvanian History, and made available by the Discovery Programme with funding from the Archaeolandscapes project), an update to the [Nederlands Architectuurinstituut](#) collection which increases the amount of tier 2 and above content. During the period CARARE has also provided support to data partners in the LoCloud project enabling the publication of new [3D content of archaeological objects](#) from the Technical University of Cluj-Napoca amongst others.

NTUA continues to support and maintain the MINT infrastructure for eFashion, EUscreenXL, Photoconsortium, eSounds, Carare and Locloud aggregators. The development of the MINT4ALL infrastructure has begun and in the next reporting period, the first version of it will be presented. In this version, a common MINT instance will be available for all aggregators including the additional services that have been defined for the MINT version.

The Europeana Fashion International Association (**eFashion**) maintained in collaboration with NTUA the fashion thematic aggregator, collecting both metadata and digital content from 38 active fashion GLAMs publishing more than 860,000 Tier 2 records to Europeana and hosting more than 1 million digital objects. eFashion maintain a team of two people dedicated to the ingestion and metadata mapping support for content providers and also maintain a Basecamp group where it offers online support for content ingestion related issues. eFashion also offers to all its content providers a cloud digital repository service based on Amazon AWS.

DIF sub-contracted a technical service provider to continue hosting and maintaining the EFG infrastructure. Together with the technical service provider, DIF has continuously invested work in revising and adjusting import filters for EFG data providers to be able to contribute new data or data improvements seamlessly. Revision of a number of import filters became necessary, as many of them date back from over 5 years and since then archives have changed local database structures. To date, EFG handles around 150 individual import filters that allow the ingestion of data to EFG by transforming the partners' local data structure to the EFG format during the ingestion process. Adjustments of import filters became also necessary due to more recent requirements of EDM and the Europeana Publishing framework. The technical subcontractor ingested new data sets of 3 archives and re-ingested existing data sets of 12 archives. To account for changes that affect all data sets, the technical service provider had to regenerate all existing data sets in EFG.

Task 1.4. Optimise relations with data partners, domain, thematic, and national aggregators

The Aggregator Forum Basecamp is active and continuously used for reaching out to aggregating partners. The main activity of **EF** under this task in this reporting period was the preparation of the first Aggregator Forum meeting 2017, which is being held right after the end of this reporting period, from 18 to 19 April 2017 in The Hague. We will have three working sessions with aggregators. One is dedicated to the future aggregation landscape, one to the distribution mechanisms for data in Europeana, one to data quality. With the two last sessions we would like to understand what aggregators need to convince partners to publish in Europeana and what we need to offer to make it more rewarding for institutions to publish in Europeana, and then to work on the necessary data

quality improvements to make data work for the audiences we work with. A report from the Aggregator Forum meeting will be provided with the final progress report of Europeana DSI-2.

EF participated in workshops organised by DSI aggregating partners, to support them to nurture and expand the partner network, to promote the opportunities offered by Europeana to distribute digital cultural heritage and to explore how to improve data quality. MCA organised two workshops in the reporting period where Europeana was involved (February 2017 in Barcelona, April 2017 in Budapest), and EFG organised one workshop in Potsdam (March 2017). More details about these workshops below.

Collections Trust (CT) took part in meetings and workshops of the Europeana Copyright Community. This has included the presentation of a case study on the updated Rights management procedure of the SPECTRUM collections management standard. In addition a Europeana Pro blog post was written, setting the work in the context of Europeana.

Photoconsortium is widely disseminating and providing support and information about Europeana Collections and the Europeana DSI-2, and two events are under organization: the annual event in Girona (see above T1.3) and a launch event of the Thematic Collection in Pisa (20 May) which will be also used to promote the work of aggregators. Photoconsortium since last year also runs a small blog (and connected social media activity) dedicated to the theme of photography and digital technologies, which is hosted in the Association's website www.photoconsortium.net. Currently, nine blog posts have been published about the Europeana DSI project and Thematic Aggregators activities, about one per month. The users of the website since the kick-off of the Europeana DSI-2 (period July 2016 to today) have been nearly 2.500, with over 6.100 pages visited and with a percentage of new visitors of 74%. In sight of the launch of Europeana Photography Thematic Collection it is foreseen a structured and dedicated promotional campaign which will include blogs, Facebook posts, Twitter posts and the opening of a Pinterest page.

APEF is actively participating in the EF Task Force on the Future of Aggregation, which was discussed at the Aggregator Forum meeting on 18 – 19 April 18 2017 in The Hague. In addition APEF is working on a new policy for forwarding digital archival content to Europeana, based on Europeana's new Content Strategy, to which APEF also contributed, and on Europeana's Publishing Framework and new rights statements.

During this period **FUB** focused on outreach activities and networking in the natural history scientific community. FUB participated in relevant community meetings to further disseminate the Europeana idea of publication. Presentations have been accepted for the annual SPNHC conference, the Society for the Preservation of Natural History Collections in June and for the Digital Library conference DigBib 2017 in March in Graz. FUB also was taking part in the National Meeting of Museum herbarium custodians in February in Berlin and will join the GBIF European Nodes Meeting in Stockholm in May. FUB also started to develop a presentation introducing Europeana to a broader audience at Berlin's Museum's Open House 2017 on 24 June this year. An OpenUp! Europeana DSI-2 dissemination workshop had been organised in Graz to instruct and encourage also smaller institutions to join and publish their digital collections via Europeana.

Ongoing work is the coordination effort for the incorporation of new partners and direct communication with potential new data providers, this time with emphasis on German-speaking areas. The inclusion of Darwin Core (as DwC-A) as ingestible standard data format in OpenUp! (in addition to ABCD/BioCASe) is constantly promoted to reach a wider range of potential data providers. We

expect that the new working format Darwin Core will substantially enhance the possibility of participation by a wider clientele. The additional use of LIDO, an ICOM-CIDOC XML-standard for museum objects beyond biological specimens is developed further and a first new data source from museum plus has entered its test phase.

MCA disseminated information and surveys toward communities thanks to its networks and partners such as NEMO and ICOM International. The awareness of museum communities concerning why and how to get involved in Europeana is the first step to improve data quality and new content providers. They need to be supported both on the challenges and on the technical aspects. Work meetings with its partner NEMO were held on dissemination of Europeana DSI-2 activities and MUSEU hub as well as on dissemination of surveys and relevant information. NEMO will also participate in the MUSEU DSI-2 meeting planned in April in Budapest. MCA met also ICOM International about Europeana DSI-2 including MUSEU hub, in order to disseminate relevant information & awareness to their numerous members.

MCA organised in cooperation with cultural heritage institutions from its member's two Europeana DSI workshops "Publishing on Europeana & Tools to make your collection widely visible". The aim of the workshops was to increase the knowledge and awareness of museums concerning the Europeana platform and digital tools to manage online collections; and get new content providers or new collections/data from current providers. The Europeana Thematic Collections are an important topic for the workshops, as it is an interesting incentive for communities to publish in Europeana. In addition, it allows liaising providers to Europeana thanks to workshops. The 23 - 24 February 2017 workshop in Barcelona was co-organised with GenCat and CRDI. The objective of the workshop was to push a data aggregation workflow from Catalan cultural institutions toward Calaix, the Catalan museum aggregator managed by GenCat, toward Europeana throughout MUSEU. More than 80 representatives of CHi attended to the WS. The second workshop was held on 4th April in Budapest, co-organised by Michael Culture, Petőfi Literary Museum and Schola Graphidis Art Collection.

ACE organised the workshop "Metadata Management in Film Archives" that took place on 29-30 March in Potsdam. The workshop targeted individuals responsible for collection management applications in film heritage institutions, cataloguers and filmographers as well as information professionals from related cultural and media heritage communities. Aim of the workshop was to share the practical experience of film archives working with the Cinematographic Works Standard and to introduce tools and manuals which help to create better cataloguing and metadata records. Pablo Uceda Gomez was invited to present what Europeana has already achieved in terms of data enrichment and data quality, how thematic collections are built and how entities are created in Europeana. It was a very successful workshop with more than 80 people attending, mainly from the film archives network and a perfect opportunity to familiarise film archives that are not represented in EFG with the work of Europeana.

2Culture continues to disseminate news and information via the CARARE website, and social media to the broad community of interest. A monthly news briefing is now being produced for dissemination to members and followers of the CARARE association. During the reporting period work has been underway planning for a CARARE workshop to be held in Leiden in June, and in reviewing papers submitted to EAA for a CARARE themed workshop.

eFashion regularly maintains a blog aimed at the fashion heritage community (publishing three or four blog posts a week) and engages its community through social media (Facebook, Twitter, Tumblr,

Pinterest and Instagram) reaching more than 30,000 followers. eFashion also manages a LinkedIn professional group with more than 200 members, mainly fashion specialists (curators, scholars, designers, etc.). Since July 2016, eFashion publish a bi-weekly newsletter with more than 1,600 subscribers. On the 22-23 May 2017 eFashion will organise at the IUAV - University of Venice an open symposium on fashion heritage and new technologies, with the participation of renowned speakers in the international fashion heritage arena.

Task 1.5. Develop aggregators into Expert and National Hubs

Subtask 1.5.1. Implementation and further development of the expert hub concept

Photoconsortium is part of the DSI Aggregators Task Force and fully supports the concept and approach of thematic expert hub, as it is central to the services provided by the association to their members (support to database setup and refinement, support for metadata treatment, thematic selection of collections, possibilities of reuse etc.).

EUscreen has thoroughly assessed the needs of its network and has responded by dedicated ample time at the network meeting on a dedicated session: in a 'Making meaning' workshop, producers and footage researchers were invited to lead a curation workshop on the topic of 1968 in the Media (see http://blog.euscreen.eu/archives/9198 for more info). It is currently redeveloping its blog into a knowledge sharing hub for the network.

APEF is working on the implementation of functionalities within its own system, the Archives Portal Europe's Dashboard, which will facilitate its content providers to easily adopt the new principles for forwarding digital archival content to Europeana, such as using the new rights statements and recognising which digital archival content would best be suited for which thematic Europeana channels. Furthermore APEF tries to get its content providers more directly involved in Europeana by getting them interested in selecting and contributing content for a new Archives Portal Europe - Europeana promotion campaign, focussing on highlighting textual digital objects from Archives Portal Europe and Europeana collections around the establishment of Democracy in Europe (scheduled for the second half of 2017).

FUB and **AIT** are participating in discussions on the nature of expert hubs and on possible features of creating a Natural History expert hub. With the addition of the LIDO standard for museums, the scope of objects would be expanded to a much wider range, for example to documentation material from expeditions, ethno-botanics etc. to target historical or societal issues. FUB and AIT joined and carry forward discussions on expert hubs e.g. at the Aggregators Forum meetings.

ACE (for EFG) is partner in the DSI Domain Aggregators next task force, actively contributing to the discussion how to shape to future of the domain aggregators. The findings will go into the final report and TF recommendations to be published shortly.

MCA does believe in the concept and need for expert hubs to support current and new data partners. The web interface is one of the tools for communication. It delivers various services and allows capitalisation of information and practices: technical information for aggregation and data re-use, information and capitalisation on workshops, relay between providers and Europeana, dissemination of surveys etc. and helpdesk contacts. MCA has launched MUSEU hub website, the development and enrichment is an ongoing process.

2Culture participates in the DSI Aggregator´s task force on behalf of CARARE, and continues to follow discussions about the role and nature of expert hubs within Europeana. 2Culture continues to support the CARARE pro website, which provides access to documentation and training materials for

members of the CARARE association. During the period planning for the development of new CARARE handbooks and materials to support the expertise functions of the hub has commenced.

eFashion is part of the DSI Aggregator´s Taskforce and also of the recently established Task Force on the Future of Aggregation, to participate - with the other TF members - in the discussion around this topic during the Aggregator Forum meeting on 18 – 19 2017 in The Hague.

Subtask 1.5.3. Facilitate the setup and coordination of a National Aggregators Best Practice Network
In this reporting period, national aggregators have joined a Task Force to work on a common understanding between all stakeholders what the future aggregation landscape should look like. Until this work is completed, the MoU between all national aggregators will not be completed and signed.

Task 1.6. Improve the Europeana DSI data quality

In early March we published the Europeana Content Strategy, which will guide our content acquisition process for the coming years. In addition we updated the Europeana Publishing Framework and Europeana Publishing Guide, to help with the implementation of the content strategy.

Subtask 1.6.1. Ingest and enrich metadata for Europeana DSI
Since the start of Europeana DSI-2 in July 2016, the Europeana database grew in total by about 1,247,599 (end of Europeana DSI-1 - 53,110,475; end March 2017 - 54,358,074). From the figure below it is obvious that the growth of the Europeana database is slower in the last few months than before. This is due to lower number of data aggregating projects and our efforts to clean up and improve the database, which includes depublication of datasets (see below). Based on the current development it is currently unlikely that we will meet the KPI of +3.5 million digital records accessible in Europeana (Tier 1).

Growth of Europeana since 2012.

From the other performance indicators progress is also low. We are supposed to have +2.8 million records compliant to Tier 2 and above (to have a total of 11.8 million records), while we currently have 8.2 million records. The numbers indicate that since the start of Europeana DSI-2 we have lost about 800,000 records with content compliant with Tier 2 or above. These decreasing numbers are to a large extent caused by de-publishing large datasets with high quality content but low quality metadata. We depublish only in consensus with the data partner, sometimes on a very explicit and pro-active request by data partners. It is expected that some of those datasets will come back, but this takes time to implement the necessary metadata quality improvements. We are also still processing a big backlog
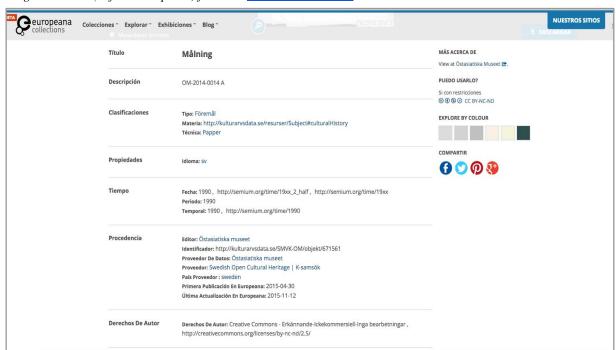
of data sets that failed the first round of technical metadata creation, which will certainly also surface a number of high quality sets (Tier 2+).

Below a few examples of achievements from the reporting period of work we do with non DSI aggregating partners. The achievements of DSI aggregating partners are reported under each of the partners.
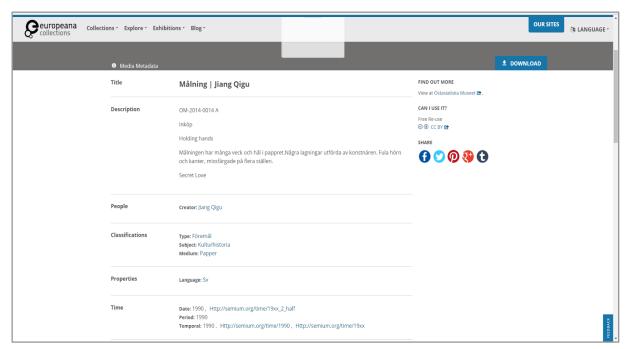
Rich heritage collections of countries in South-eastern Europe have not been available in Europeana until recently. The CSEEE (Collections of South and East Europe in Europeana) project provided assistance and the opportunity for them to be included. We published a new exhibition of vintage postcards to highlight some of those collections. The exhibition highlights interesting facts and details about the cities of the regions presented on vintage postcards that showcase their cultural and natural heritage.

IALHI is one of the domain/thematic aggregators that is not part of the Europeana DSI but still active and regularly publish in Europeana. The International Institute of Social History is an IALHI partner that recently published a new dataset Europeana that is compliant with Tier 4 of the EPF.

The work with the Swedish National Heritage Board (SOCH) to improve their data continued and we have seen the first improved data being published in this reporting period. A good example is the data from the Östasiatiska museet, which are now published with richer metadata and better access to digital media (see screenshots below).

Original record (before the update) from the Östasiatiska museet.

Updated record from the Östasiatiska museet, with richer metadata.

Although **Photoconsortium** in WP1 is mainly looking to improve the quality of existing datasets, small batches of new materials (tier 2 or above) are available or under preparation for Europeana ingestion.

Collections Trust (**CT**) has continued to work with the EF DPS team to fix broken links to Culture Grid hosted and other content. Also work was continued on update, quality and numbers, to existing collections, and new collections.

APEF is working on a new policy for forwarding digital archival content to Europeana, based on Europeana's new Content Strategy. It managed to get an understanding with its Country Manager network about the principles for this policy during its Country Manager meeting in Bratislava, held on the 30 November 2016. The main principle is to not forward all digital archival content to Europeana anymore, but only a selection of digital archival content on which both parties (APEF's content providers and Europeana) agree that it is content suitable for publication in Europeana. This entails a focus shift from quantity to quality, which is fully in line with Europeana's new Content Strategy and Publishing Framework. In more detail this means only forwarding digital archival content with:

- no technical limitations: less hierarchy, at least not with too many levels without digital objects attached, not to many scans,
- no restricted access to scans (no paid access), no watermarks,
- perfect thumbnails (size according to tier 2 of the Europeana Publishing Framework, so 800+ pixels wide, preferably real ones and not substitute icons, we could consider creating them in our system),
- perfect rights statements (according to the new Europeana rights statements),
- overall quality: at least tier 2 from the Europeana Publishing Framework
- preferably connected to the general Europeana channel theme's: e.g. 1914-1918, art, manuscripts, migration, music, photography.

An official content policy document was presented for approval during the last APEF Country Manager network meeting in Malta (28 April 2017). At the moment the existing Archives Portal Europe - Europeana content contributions are already evaluated according to these new principles. With the content policy now officially approved, the functionalities, which have to support this, will be fully implemented in the Archives Portal Europe's back-end and the Dashboard (for which a new release is scheduled at the end of May 2017). Then a regular and automated flow of content from the Archives Portal Europe to Europeana has to be established to fully implement the content policy.

FUB is working on integrating new partners with good content quality, solving technical and structural hurdles. Also FUB takes further steps to enhance the metadata quality of partners by searching for crucial points, e.g. datasets with good content quality but low metadata level, heading to minimize the percentage of objects on lowest quality level.

MCA finished the checking of all datasets published under the ATHENA, Linked Heritage, AthenaPlus, Europeana DSI and Europeana DSI-2 projects. 369 datasets summing up to 7,237,022 records were controlled to check the status of thumbnails and broken links, the presence of links to digital objects and which ones are included in the three thematic collections. MCA just started to discuss the situation of the problematic datasets with the single providers. A meeting with the Europeana operations team is planned in April to draft a work plan.

Over 95% of the records published under MUSEU are legacy data that need to be improved and republished. The first step of improvement is the switch from ESE to EDM records. At the beginning of Europeana DSI, MUSEU managed over 3.1M ESE records that now decreased by 6.2%. In fact 5 datasets (= 114,364 records) provided under the ATHENA and Linked Heritage projects were republished (e.g. the 3D objects of the German Library of Science and Technology) or are under publication (over 85,000 records).

Other improvement actions concerned the switch to tier 2 or above, the inclusion of the value of the intermediate provider for the aggregators, the adjustments of the rights value, and fixing broken links. Some datasets originally published via Athena Plus were republished under MUSEU, e.g. to raise of the quality of the pictures (Lithuanian Art Museum) or to adjust the rights values (e.g. the Ben Uri Gallery and Museum in London displaying modern and contemporary art pictures). Another example are all records of the German aggregator museum-digital.de provided via the Linked Heritage and AthenaPlus project are being republished in MUSEU (with the inclusion of new data) with larger images and separating the datasets under the name of each provider thanks to the use of the <edm:intermediateProvider> field. The inclusion of the <edm:intermediateProvider> is also planned for the data that CulturaItalia published in Europeana (over 2 million).

Another example of successful improvements was the update of media links in the datasets of the Estonian data partners (over 180,000 records provided under Athena, Linked Heritage and Athena Plus) making these data compliant to tier 2 of the Europeana Publishing Framework. The quality of the thumbnails of some other collections (e.g. Calaix - the heritage catalogue of the Generalitat de Catalunya) will be improved following the same approach used for the Estonian collections.

Working with Europeana we also discovered and removed from the live portal 200,381 records of digital collections whose requirements were not in line anymore with present Europeana parameters – e.g. the huge collection provided by the National Research Council in Italy that described websites – or containing broken links that can't be replaced.

eFashion ingested in this reporting period more than 40,000 new records in tier 2, and is constantly improving the metadata quality of the aggregated datasets (see [Annex for details](#)). The main achievements in this area are related to the normalisation of creator´s names and places. A member of the eFashion ingestion team is participating to the Data Quality Committee.

DIF was working to ingest more than 2,000 video items as new contribution to EFG/Europeana. Around 10,000 image and text documents are expected to be ready for ingestion in the coming month. Currently, most work for EFG goes into data improvement activities centred on legacy data that has been contributed to EFG years ago. Improvement activities focus on issues that exist across sets, such as updating old right statements or adding language attributes to all text collections, fixing broken links, adding thumbnails for video items that cannot be created automatically by EFG or Europeana and provision of unique identifiers for resources of Aggregation and ProvidedCHO as required by Europeana mapping guidelines. Many improvement activities focus on problems specific to individual collections, vocabulary matchings to common EFG vocabularies and the adjustments of individual import filters. All activities serve to improve data quality in EFG or ensure that data sets that were declined by Europeana previously (due to the lack of some mandatory information) can now be delivered. Under Europeana DSI-2, DIF so far has worked to improve data sets of 12 archives individually, in addition to improvements mentioned above that affected all data sets on EFG (38 partner archives). If improvements require the involvement of EFG data providers, DIF is in close contact with them to support them in providing updated data exports.

Subtask 1.6.2. Ingest high-quality material for thematic collections

EF is working very closely with Europeana Fashion and the Photoconsortium to publish the collections for the Fashion and Photography Collections, respectively. You can see more details below. With the start of the [Art Nouveau](#) season end of February 2017, we also celebrate the improvements we made on the data that fit the Art Nouveau theme, while some work with partners is still underway. We recently updated data provided via Partage Plus from [Muzeum Narodowe w Warszawie](#), now with working links to media suitable for the Art Collections. Based on the experience with the preparation of the Art Nouveau season, we have started to work on a process for future activities, to allow sufficient time to implement quality improvements and to identify the best partners to work with to get the most suitable content for the campaign.

The #AllezLiterature campaign is not a thematic collection but follows a similar approach, so we are also searching for content that fits the theme. To [celebrate World Poetry Day](#), we have worked with several libraries to improve or open up their data to feature them on social media. The National Libraries of Iceland and Croatia are just two examples that provided Public Domain poems to be used in this campaign.

Photoconsortium selected various content providers to work with, who are willing to participate to the Thematic Collection, improving their datasets and metadata and also providing high-quality materials, particularly for supporting editorial work on the channel. Negotiations have been long and time consuming, because of the need of convincing the content providers about the benefits of being showcased in the thematic channel and of improving their datasets in Europeana; happily now subcontracts are progressing at different stages (some finalized, others under finalization), but the work has started. In facts the alpha version of the channel has been released and the official launch is foreseen on 20 May 2017.

In particular the work identified with content providers, to be done in the next period, consists in:

- CRDI: metadata quality support, participation in the Data Quality Committee, participation to editorial work for the thematic collection
- GENCAT: alignment to tier 2, improvement of English titles and descriptions, participation to editorial work for the thematic collection
- Parisienne de Photographie: alignment to tier 2, participation to editorial work for the thematic collection
- United Archives: improving accuracy, precision and specificity of metadata, particularly of title and descriptions, participation to editorial work for the thematic collection
- Promoter: provision of new datasets aligned to tier 2 and above, participation to editorial work for the thematic collection, participation to dissemination
- KU Leuven: alignment to tier 2 of existing datasets, provision of new datasets aligned to tier 2 and above, participation to editorial work for the thematic collection
- TopFoto: alignment to tier 2, participation to editorial work for the thematic collection
- Alinari Archives: participation to editorial work for the thematic collection, with provision of HR images for the galleries
- NALIS: improvement of titles in English language
- MHF: participation to editorial work for the thematic collection
- MuseoVirasto: participation to editorial work for the thematic collection

APEF is working on aligning its existing "topic/tag cloud"-functionality to Europeana's thematic collections and aims at enabling its content providers to easily select content for these thematic channels and forward EDM records for them including this information.

About 22% of the records in the Art Collections are coming from MCA data partners, including [436 items of the Schola Graphidis Art Collection of the Hungarian University of Fine Arts](#) (Hungary) provided for the Art Nouveau Season. The data partner republished this small batch of records provided under AthenaPlus raising the quality of the images and adding other EDM fields to participate in the Art Nouveau Season. MUSEU provides now 39 datasets from 5 countries to the Art Collections. Other 12 datasets from 3 countries are now included in the Music Collections. MUSEU promoted the Europeana Thematic Collections to its data partners through online channels and in presence during the MUSEU workshops.

eFashion is regularly ingesting high quality content (minimum tier 2) in Europeana, and its whole datasets will be published in the Fashion Thematic Collections (100% of eFashion content is tier 2).

Subtask 1.6.3. Full adoption of the Europeana Publishing Framework by all aggregators and data partners
The review of the annex of the Europeana Publishing Framework (EPF) was completed in the reporting period and the EPF and the Europeana Publishing Guide were updated accordingly. The EPF is an important tool we work with to clarify with partners what they get when publishing in Europeana. It is used in workshops with aggregating partners, but also in national workshops (see WP4) to make partners understand what we can do for them.

Photoconsortium is promoting and adopting the EPF for all its members, recommends improving images to tier 2 minimum, and also supports less invasive forms of image protection, inviting partners to reduce the dimensions of their watermarks or to consider invisible watermarking technologies. Photoconsortium is also supporting an open approach which appreciates non-restrictive licenses for the digitized images.

APEF is actively promoting and adopting the EPF via its new content policy for forwarding digital archival content from the Archives Portal Europe to Europeana and is working on implementing functionalities which will facilitate this (for more details, see T1.6.1 above).

MCA promoted the Europeana Publishing Framework by its data partners through online channels and in presence during the MUSEU workshops.

2Culture has promoted the Europeana Publishing Framework to CARARE and LoCloud data partners. During the period 2Culture commented on the Europeana Content Strategy.

Also **eFashion** promoted in its network of fashion heritage institutions the Europeana Publishing Framework, and as stated before, already the totality of its aggregating content is at least tier 2, and a growing part is becoming tier 3 and 4.

Subtask 1.6.4. Adoption and implementation of new standards for metadata and content quality

In the reporting period a data quality plan was drafted and shared at the Aggregator Forum meeting. Following from the work on user scenarios by the Data Quality Committee and keeping the Europeana DSI-2 targets in mind, a set of objectives for quality improvements was defined. These objectives are general objectives for all aggregators, but the actual targets will be different for every aggregator. Therefore, the targets will be agreed on a one-on-one basis with aggregators after the Aggregator Forum meeting. The data quality planning is supported by thorough data analyses to understand the potential for improvements of data from our partners.

The Data Quality Committee published in December 2016 a progress report to summarise the progress towards some of the targets under this subtask, e.g. the completeness measure.

While not listed in the Europeana DSI-2 DoA as one of the new standards, we currently invest a lot to improve data that are suitable to benefit from IIIF. The Universitätsbibliothek Heidelberg was one of our partners to implement IIIF in Europeana. Their content is now displayed in the IIIF viewer and a case study was published to provide more details about this work: "Designing extensive EDM records - the Universitätsbibliothek Heidelberg case study". Alongside the data from Heidelberg, also other data are now available in IIIF: e-codices, University College Dublin, Nationalmuseum Sweden.

A metadata expert from **Photoconsortium** is member of the Data Quality Committee, providing the point of view and peculiarities of photographic archives metadata and indexing processes. Also, in the past months an overall check of former Europeana Photography records in Europeana (ingested in 2014) has been done and communicated to Europeana in February 2017, analysing the status of each collection (tier, quality/consistency of descriptions and titles, languages etc.) and identifying visualization issues (mainly about thumbnails and previews not showing) to be solved, in close collaboration with Europeana Ingestion Team. Following the analysis, Photoconsortium is interacting first and foremost with data providers who are members of Photoconsortium; but the review action was done on all the Europeana Photography datasets, and every data provider is asked for collaboration.

APEF follows the activities of the Data Quality Committee closely and is working on evaluating the existing Archives Portal Europe - Europeana content contributions according to the guidelines of the DQC and the principles of the new Europeana Content Strategy, which are adopted in APEF's new Europeana content policy (for more details, see T1.6.1 above).

FUB and NHM Wien are engaged in improving the accessibility of scientifically named objects by synonyms and multilingual common names, one of the value-adding services in the context of Europeana. Updating the workflow plan for common names web services usage and integration of further vocabulary data sources, all validated for their scientific quality and reliability by experts is

work in progress, the implementation of a monitoring framework assuring permanent accessibility under investigation.

FUB and AIT Graz have explored the service extension to process LIDO based multimedia content in the natural history domain, assessing the potential for further metadata enrichment. The OpenUp! aggregator generally uses ABCD XML standard or, since 2016, also the Darwin Core standard (DC-A). These community standards were designed to fit mainly biological specimen collections, so they won't support to the full range the descriptive information needed for multimedia objects of different nature. The latest version of the BioCASe provider software enables to publish also data in LIDO format as multimedia source; currently the development of LIDO mapping standard for one museum collection within the OpenUp! Network as a first prototype is completed; the subsequent transformation process of the data into EDM is under way.

MCA representatives continuously participated in the Europeana Data Quality Committee and contributed in particular to the work carried out on defining clearer metadata requirements for advanced support of the usage scenarios, which were identified earlier as guiding principles for the work of the DQC. Providing background on data modelling and metadata production in the museum community as well as specific data examples helped tailoring the recommendations of the DQC about the mandatories and revised definition of specific elements in EDM. Ongoing work is now to define a list of enabling elements that further support specific usage scenarios.

MCA, in cooperation with Nationalmuseum Sweden and Bildarchiv Foto Marburg, put a large effort in implementing in the LIDO intermediate profile of MINT the possibility of publishing IIIF records and updated the mapping towards EDM. The Nationalmuseum in Stockholm then updated and published over 3,000 records of high resolution images in IIIF. This was the first IIIF dataset published in Europeana via MINT and served also to tune the way these records appear in the portal (see also http://pro.europeana.eu/page/issue-6-iiif).

eFashion is participating to the activities of the Data Quality Committee and it's implementing internally its guidelines (see Annex for details).

Deviations and adjustments

Task 1.5. Develop aggregators into Expert and National Hubs

With the work and implementation plan to innovate the aggregation infrastructure (D1.1 of Europeana DSI-1) we developed the expert hub concept and a roadmap for its implementation. Over the last months we have refined the activities that we expect expert hubs to perform and shared this with the last Aggregator Forum meeting report. It is clear from the last progress reports that the DSI aggregating partners are taking first steps to operate as expert hubs. However, we do not have a common understanding of the vision for the future aggregation landscape. As this key step is not completed yet, we refrained from formally launching the first expert hubs as described in the Europeana DSI -2 DoA. Based on that, the two first expert hubs would be launched in 2017, the first in March 2017 (MS1.5) and the second one in May 2017 (MS1.6). Instead of launching any expert hubs now, we focus on developing a common understanding between all aggregators and Europeana Foundation what it needs to give access to digital cultural heritage in the future. This work is expected to lead into a policy paper that we are then going to use as a basis to develop a sustainability plan (MS1.7) and a development plan (MS1.8) for expert hubs. The policy paper is scheduled for August 2017.

Subtask 1.5.1. Implementation and further development of the expert hub concept

Following up on the Expert Hub Concept, a Domain Aggregator Task Force evaluated and refined the concept, agreed on the activities expert hubs need to perform and shared this with the last Aggregator Forum meeting report (see also progress report of the previous period for more details). It is clear from the reports of the Europeana DSI aggregating partners (see below) that they believe in the concept and in many ways operate as expert hubs, executing the activities we agreed for expert hubs. That includes everything from engaging with institutions to training and helpdesk activities to data normalisation and developing domain standards. What is still missing is a cohesive vision for the development of the aggregation landscape as whole, including the role of Europeana Foundation and national aggregators in it. Therefore, we have not formally launched the first expert hub in Europeana DSI -2 M8 and will not launch the second expert hub in Europeana DSI-2 M10.

To work out and agree on that vision, an Aggregator Task Force (domain/thematic and national aggregators) has been formed led by an external facilitator (work related to WP4, subcontract for the external facilitator is under WP4). This Task Force created some principles of digital access to cultural heritage. We think answering the question what digital access to cultural heritage look like in the future is central to determine what the European landscape of aggregators and cultural heritage institutions should look like in the near and far future. It is also central to determine the work that needs to be done, and the changes that need to happen, to approach that landscape. In the Aggregator Forum meeting in The Hague (18-19 April) we used being able to live up to the principles as the basis of the discussion about the players in the current landscape. This work in now being analysed and the Aggregator Task Force will reconvene end of May to discuss the results and resolve the next steps. This workshop aims to result in a clearer distinction of roles and responsibilities among the key stakeholders of the aggregation landscape (cultural heritage institutions, domain/thematic aggregators, national aggregators, Europeana Foundation). This will inform the vision of the future aggregation landscape and help to develop the next steps how to reach that goal.

Subtask 1.5.2. Coordination of expert hubs

The dialogue with the future expert hubs and the collaboration of the future expert hubs is continuing while we work on the future vision for the aggregation landscape as described under subtask 1.5.1. That work will lead to a policy paper published at the end of Europeana DSI -2 that will also address the development of expert hubs and their sustainability.

Subtask 1.5.3. Facilitate the setup and coordination of a National Aggregators Best Practice Network

In this reporting period, national aggregators have joined a Task Force to work on a common understanding between all stakeholders what the future aggregation landscape should look like. Until this work is completed, the MoU between all national aggregators will not be completed and signed.

Work package 2 End-user products & services

This work package provides end-users with an attractive experience via Europeana Collections and the Thematic Collections and to deliver data to end users on external platforms (such as Wikipedia). The work package is responsible for publishing Europeana Collections and the Thematic Collection websites, with improved search and presentation of results (to be specified in this WP and developed in WP6).

Participants in this work package are:

- Europeana Foundation (EF)
- 2Culture Associates (2Culture)
- AthenaRC (AthenaRC)
- Netherlands Institute for Sound and Vision (NISV)
- Europeana Fashion International Association (eFashion)
- International Consortium for Photographic Heritage PHOTOCONSORTIUM (PHOTOCONS)
- Facts and Files (F&F)
- Stiftung Preußischer Kulturbesitz - Staatsbibliothek zu Berlin (SBB),
- National Library of Latvia (LNB)
- Clarin ERIC (CLARIN)
- University of Glasgow (UoG)

The objectives of this work package are the following:

- Publish Europeana Collections (task 2.2);
- publish the Europeana Thematic Collections on art history, fashion, newspapers, photography, 1914-1918 and music (task 2.3);
- run and develop for each thematic area one case study that shows the value of the Europeana Publishing Framework (task 2.4);
- show the value of Europeana to partners by publishing the Europeana Statistics Dashboard (task 2.4); and
- publish Europeana Research as the main access point for the use of Europeana by Digital Humanities to researchers (task 2.5)

Description of work carried out and achievements

Task 2.1 Manage the work package

The thematic collection partners (**eFashion**, **Photocons**, **SBB**) are working closely with Europeana's Collection Team to discuss, plan, schedule work and activities. We learned throughout the Europeana DSI -2 the importance of sharing best practices and we initiated a new forum for discussion and collaboration; Europeana Collections Forum. The 1st Forum with our partners was held on 20 April in The Hague (following the Aggregator Forum) with the aim to discuss and share best practices to run thematic collections as effectively as possible.

Europeana Research partners (**CLARIN**, **AthenaRC**, and **UoG**) stayed in touch via a dedicated Basecamp space; in this reporting period one physical and one virtual meeting took place.

Task 2.2 Publish Europeana Collections

New functionalities and editorial

Image galleries went live on Europeana Collections in April 2017. Galleries present a curated selection of images on a certain theme. Some bring together artworks from across Europe, while some focus more on just one country. Most of the galleries connect to our thematic collections: Europeana Art, Europeana Music, Europeana Fashion and Europeana 1914-1918. Galleries bring together between 6 and 48 images (all of which are Tier 2+) on a specific topic, curated by the Collections team and our thematic collections partners and will be a key element of their editorial plans to support promotion of thematic collections.

Ten exhibitions on a previous platform (in multiple languages) have been migrated to our current exhibition to platform with redirects in place.

In this period, three new exhibitions were published:

- [Sausages and Cigars for Christmas](#): the story of Max Kranz and the men from Hatzenport in World War One. The Net Promoter Score for this exhibition so far is 32.

- [Art Nouveau: A Universal Style](#): presenting an overview of Art Nouveau in its historical context and highlighting important examples of the style. The Net Promoter Score for this exhibition so far is 54.

- [Picture this! Vintage postcards of Southeastern Europe](#): highlighting interesting facts and details about the cities of the regions presented on vintage postcards that showcase their cultural and natural heritage.

Each month, a new large banner image is added to Europeana Collections homepage ('hero image'). This image is themed to align with to promote thematic collections, exhibitions, campaigns, data partners or other relevant content. Hero images are always sourced from openly-licensed content. Since February 2017, the choice of hero image is given to Europeana's social media followers (choosing from a shortlist of 4). Research, undertaken in December 2016, shows that views increase for any object used as a hero image on Europeana Collections, Europeana Art or Europeana Music. Increases range from twice as many views as to more than 70 times as many. Work has continued to bring the Entity API into a public Alpha release to support entity-based search on Europeana Collections, improving users search experience through new Entity Pages.

Europeana Collections is now available in Estonian with a new language published, bringing us closer to our goal to support all official European Union languages.

Working with partners

We have developed user profiles for Europeana Collections CMS to allow Europeana DSI -2 partners to curate and prepare thematic collections. A comprehensive Collections CMS manual and guidelines were prepared and circulated to partners. The editorial calendar for Europeana Blog has been strengthened, and further activity will be undertaken to add more editorial elements to this calendar.
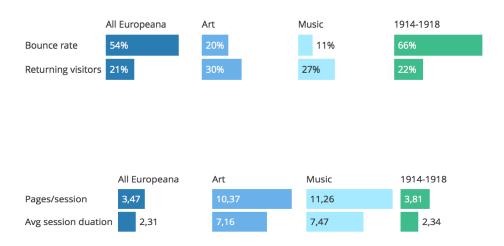
User satisfaction and research

We have embedded regular user satisfaction surveys and feedback gathering in our user consultation activities. A user feedback form is now displayed on Europeana Collections at all times. As part of user consultation, we run user satisfaction surveys for two weeks every two months. In this reporting period, two surveys were run on Europeana Collections - one in January and one in March 2017. The first had 904 responses, with 65% rating 4/5 or higher, and 83% rating 3/5 or higher and a net

promoter score of 35. The second had 676 responses, with 66% rating 4/5 or higher, and 80% rating 3/5 or higher and a net promoter score of 37. A survey of users' search motivation and preferences ran on Europeana Collections from mid-March to early April 2017. The survey was made by our Europeana DSI partner University of Sheffield. The survey received 240 useful and diverse answers, which will now be analysed.

Statistics for the period 1 January 2017- 31 March 2017

Metrics measured through Google Analytics for this reporting period show that thematic collections continue to engage users better than the overall Europeana Collections site. Visitors are more likely to return to thematic collections (higher percentage of returning visitors), and are less likely to leave the site as soon as they enter (lower bounce rate). Visitors to thematic collections visit three times more pages and spend significantly more time on the site (pages per session; average session duration).

	All Europeana	Art	Music	1914-1918
Bounce rate	54%	20%	11%	66%
Returning visitors	21%	30%	27%	22%

	All Europeana	Art	Music	1914-1918
Pages/session	3,47	10,37	11,26	3,81
Avg session duation	2,31	7,16	7,47	2,34

In the remaining Europeana DSI-2 project period, 1914-1918 (currently a standalone website) will be migrated to become a thematic collection on Europeana Collections. As can be seen in the statistics below, visitor engagement with material from 1914-1918 on transcribathon.eu is very high (see statistics in section on Europeana 14-18 below).

Statistics Dashboard

The automated dashboards for individual institutions have proved to be a lot harder to develop and maintain than expected due to the data structure. Many dashboards have bugs that require significant development efforts while the take up of individual dashboards is relatively low (a couple of dozen are active). We have therefore decided to re-evaluate the statistics dashboard. Short term we are going to disable the automated dashboards for individual institutions. We will maintain and improve (add social media, wiki and tier statistics) the overall statistics of Europeana and the participating countries and evaluate a better future course for the dashboard. Individual institutions that require statistics will be given an automated google analytics report.

Wikimedia activities

Over three days in mid-February, Europeana convened the second "European GLAMwiki Coordinators meeting", hosted at the UNESCO headquarters in Paris. This attracted self-funded

designated representatives of 30+ Wikimedia national and regional affiliate organisations across the Continent to share best practices (report). Organising this gathering, at no cost to the organisation itself, ensures Europeana has a central role in the coordination of third-party reuse of open-access cultural heritage activities - downstream from the institutions themselves. It also enabled Europeana to showcase its major activities with targeted campaigns. Notably this includes the Europeana 1914-1918 'Wikimedia challenge' which launched during the period (see details in Task 2.3).
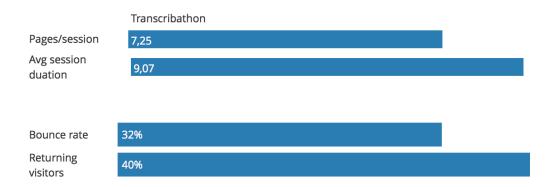
Task 2.3. Publish and Market Europeana Thematic Collections

Europeana 1914-1918

From the 13th December 2016 to 15th January 2017 the Transcribe Europeana 1914-1918 Christmas Run was held. Around 2,000 new documents were added to the Transcribathon, most of them a part of 50 specially-selected stories of Christmas and New Year. In the course of a month about 900 documents were fully completed – all in all amounting to 1,579 transcriptions made. We also welcomed 80 new transcribers See the full results of the Christmas Run 2016 here.

As integral parts of Europeana's new pan-European campaign #AllezLiterature (celebrating the written word and texts in 2017 working with libraries, archives and the public across Europe) two Transcribe Europeana 1914-1918 online campaigns were launched, both with a specific focus: one on love letters and one on poetry from World War One, respectively celebrating Valentine's Day (14 February) and World Poetry Day (21 March 2017). These campaigns are still ongoing,

In only a few months since its launch in November 2016 the online transcription tool has attracted a large number of participants (736 registered users per April 2017). As the statistics below indicate they are very dedicated to their transcription work. More than ¼ of all uploaded material has been fully transcribed.

Statistics 16 January (start date measuring traffic on Transcribathon.eu) - 31 March 2017

In close cooperation with Europeana Product Development preparations have started for the migration of the current Europeana 1914-1918 platform and its functionalities to the Thematic Collections platform (scheduled for June 2017).

On 16 February a keynote presentation by Europeana 14-18 focusing on the ongoing Wikimedia Challenge was held at the 2nd European GLAMwiki coordinators meeting in Paris. At the time of this report twenty national Wikimedia Chapters have already signed up to participate. In 2017, as part of the centenary of WWI commemorations, Europeana is asking Wikimedia affiliates to create a portfolio of their past and current activities relating to the theme of 1914-18. These portfolios will be judged by jury, submissions close on 31 July 2017. Europeana will showcase the collection of portfolios to

demonstrate the diverse, innovative, and high-quality ways that this important period of Europe's history can be understood through open-access heritage, with an emphasis on working with its partner cultural institutions across the continent. More information can be found here.

On 1 February the Europeana 1914-1918 Advisory Board was officially installed and held their first meeting (online). The next meeting (in person) is scheduled for end of June.

In close cooperation with Europeana 1914-1918, **F&F** and **NISV** preparations have started for the organisation of The Europeana Transcribathon Campus in June at the Berlin State Library. The Europeana Transcribathon Campus 2017 will bring people together, who are passionate about transcription, data enrichment and linking of various historical sources, institutional as well UGC for learning, knowledge sharing and entertainment. The focus will be on sources from the First World War as made available by the Europeana 1914-1918 and Europeana Newspapers projects. During the event the newly Europeana 1914-1918 thematic collection site will also be launched. From 21 to 25 March the Transcribathon Romania was held, an online competition for the transcription of personal documents from Romania from the First World War. The Transcribathon kicked off in Bucharest at the National Library and continued with events in the public libraries of Brasov, Sibiu and Cluj. In each city, teams competed in 48-hour runs transcribing Romanian manuscripts from the period. In just one week all volumes all Romanian content was transcribed - in total over 1 million characters - by all 66 participants of the 23 teams. More information about the winners in the various cities and all runners-up can be found on the campaign page:

http://transcribathon.com/en/romania/

For Valentine's Day, Europeana - Europe's digital platform for cultural heritage - launched a special Love Transcribathon, an online crowdsourcing campaign developed to unveil unique testimonies of the First World War by encouraging people to transcribe handwritten love letters from that time. On the occasion of Valentine's Day, Europeana invited people to bring the hearts of these men and women of the First World War back to life by transcribing digitised copies of their treasured stories of love, and to spread the word on social media using the hashtag #WW1LoveLetters.

The Love Transcribathon is an ongoing online challenge starting from Valentine's Day. It will feature over 40 love stories told in letters from the First World War written in 7 languages (initially English, French, German, Dutch, Croatian, Slovenian, and Greek) that can be found on Europeana 14 18. Participants were invited to take up the challenge from 14 February on the Transcribathon website, adding their own transcriptions, geo-tags and other annotations to digitised versions of the handwritten texts, enabling greater understanding and access to these originals letters.

The Love Transcribathon introduces and kicks off Europeana's new pan-European campaign #AllezLiterature working with libraries, archives and the public across Europe to celebrate the written word and texts in 2017. The #AllezLiterature campaign will run from now until June 2017, with a specific focus on love letters, poetry and important European texts respectively celebrating Valentine's Day, World Poetry Day (21 March 2017) and World Book Day (23 April 2017).

The Love Transcribathon is also part of Transcribe Europeana 1914-1918, the online crowd sourcing campaign to unlock important testimonies of the First World War for future generations that will run until the centenary of the end of the First World War in 2018.

On 3 April Europeana 1914-1918 was presented by Frank Drauschke (**F&F**) at the 15th East-West-European Memorial Seminar in Poland.

Europeana Art

Curatorial research, editorial development, data enrichment and a marketing plan were developed for a three-month season on Art Nouveau (21 February - 31 May 2017). This season launched on schedule and features a major online exhibition, ten guest blogs from partner museums, guest blogs on the website and app DailyArt, and 22 Pinterest boards, all supported by a detailed marketing plan. The Art Nouveau season has been very well received so far by audiences and partner institutions.

During the reporting timeframe, outreach to major institutions included the Mauritshuis, the Prado, National Galleries of Scotland, Gemeentemuseum Den Haag, die Pinakotheken and the Van Gogh Museum. The Collections Manager of Europeana Art also presented and participated at external events including the international art history hackathon Coding Dürer in Munich and Sharing is Caring in Hamburg.

Europeana Art continues to be actively supported by its Advisory Board of cultural heritage professionals from Europe's leading art museums. Finally, a dedicated Twitter account for Europeana Art has been established.

Europeana Music

Along with Europeana Music, Europeana Radio was launched in January 2017. Europeana Radio gives users access to listen to a vast collection of more than 200,000 tracks. Users were invited to engage with these tracks on #TagDayThursday – a twitter call for listeners to tag the music they hear on Europeana Radio.

On 15 March 2017 the Europeana Music Collection Plan has been submitted. The plan aims to cover the ambitions and high level milestones for the Europeana Music Thematic Collections over the period February 2017 until December 2017 (as funded under Europeana DSI -2). It will be evaluated on an ongoing basis against implementation, results and actual landscape to ensure effectiveness.

Europeana Fashion

Europeana Fashion was published as a new thematic collection in April 2017. A complete Europeana Fashion Collection Plan has been produced and published as D2.2. This document details a business plan for the Collection website highlighting its value proposition and detailing the editorial activities planned in the Europeana DSI-2 framework.

The thematic collection showcases more than 850,000 records from 38 leading fashion institutions from across Europe, including high quality images of historical dresses, sketches, illustrations, accessories and catwalk photographs. The thematic collection will be managed by the Europeana Fashion International Association, which is also maintaining the fashion thematic aggregator (for a complete list of activities on content ingestion and data quality management see WP1 report). Existing editorial content (blog posts, events and galleries) from the previous stand-alone website has been migrated to this new Thematic Collection. An online exhibition - Past and Present: Fashion Re-interpreted - will be published at the end of April 2017.

All the past published content on the Europeana Fashion social media has been redirected to the new Collection website, rerouting all the URLs pointing to http://www.europeanafashion.eu towards the new website.

Europeana Fashion features curated editorial content through blog posts, galleries and highlighted content. Europeana Fashion was published implementing a series of new technical features and functionalities as outlined in D2.2 Europeana Fashion Collections Plan (new landing page design, new

functionality to view browse and search results in a grid, searching specific fashion-related facets, date filter, etc.).

Among the new features, it's worth mentioning the completely revised homepage, which showcase curated content, regularly updated by the Europeana Fashion International Association editorial team, and the object record pages that now show more prominent links to the providing partners, displaying the logos of cultural institutions.

The new Europeana Fashion Collection website will be presented during the Europeana Fashion International Symposium[4] in Venice on the 22 May 2017.

Europeana Newspapers

The Europeana Newspaper Collections Plan D.2.4 was delivered on 27 February 2017. It covers the ambitions and high level milestones for the Europeana Newspapers thematic collection over the duration of Europeana DSI -2 and beyond and will be evaluated on an ongoing basis against implementation, results and actual landscape to ensure effectiveness. As part of this deliverable also the product development planning for the Europeana Newspapers collection was updated.

The www.europeana-newspapers.eu website has been renewed and restructured to make it easier to use and to find information and resources available from there.

Various calls and meetings have been held with researchers from the UK and US who are keen to make use of Europeana Newspapers data. Work has also progressed regarding the ingest of Europeana Newspapers in the EUDAT infrastructure, while also the possibilities of exposing Europeana Newspapers data via the CLARIN infrastructure are being evaluated.

The work on the EUDAT Data Pilot has continued. During this period, work has focused on establishing the technical mechanisms for publishing Europeana resources as research datasets in EUDAT, using Europeana Newspapers as a pilot. The API of EUDAT's B2SHARE service was tested and an Europeana client prototype was implemented and made available in GitHub. The Europeana Newspapers corpus was also used to test the scalability of the B2SHARE service.

Europeana Photography

Preparations for the launch of Europeana Photography on 20 May 2017 are ongoing and on schedule. Europeana and Photoconsortium are working together to define and refine collections data, business plans, editorial and marketing activities.

Photoconsortium issued subcontracts to coordinate scientific work. The subcontracts under this task serve for the coordination work and for the work of content providers on metadata improvement for participation to the realization of thematic channel and relate to work in both WP1 and WP2. For a full overview of activities with content providers see WP1 report.

A subcontract has been made with KU Leuven to coordinate the work on the Thematic channel. For the editorial work itself, a person was directly hired by Photoconsortium. The coordination work involved contacts with Europeana, and work on the technical aspects of implementing the channel, e.g. to build the browse entry points and general query on which the channel is based. The subcontract KU Leuven also addressed the daily overview and supervision of the person who does the editorial work on the channel and the interfacing with the WP1 effort and general coordination at the aggregator level. Contents for the channel were selected in accordance with the chosen themes on the one hand and pertinence for the history of photography on the other, but also considering technical constraints,

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[4] https://europeanafashion2017.eventbrite.co.uk

availability and quality of images and suggestions from providers. The subcontract also involves work on developing the impact and communication of the channel and co-organizing the launch event.

A collections plan has been developed and submitted as D2.3, detailing the Thematic collection contents and launch planning for the next year. It details the value proposition, target audiences, channels and key activities. It involves exhibitions each containing 4-6 chapters, each featuring several smaller sections devoted to particular topics or collections, and presenting up to 12 images. Exhibitions examples are "The Pleasure of Plenty", "Let there be Light" and "Portraits". The plan details Browse entry points, and activities like the Picture of the Month and social media interactions. There also will be a blog.

Task 2.4 Develop user engagement projects

NISV first presented the concept of the user-engagement projects during the kick-off, in order to brief the Thematic Partners on the aims of the Task and their expected involvement. This lead to various ideas for possible user-engagement projects in the various themes, which are currently being followed-up by NISV with the various Thematic Partners. This process is supported through a dedicated Basecamp environment. Especially within the domain of 1914-1918 (based on the experiences during the AGM), Photography and Fashion, NISV and the Thematic Partners are working with concrete ideas for the user-engagement projects. NISV developed concepts for three user-engagement projects related to Photography, Fashion and Research making use of 1914-1918 material as well as the Newspaper corpus.

For Photography the user engagement project, we are exploring the possibility to connect people to portrait heritage through the common practice of taking a selfie. Using facial feature recognition, selfies will be matched against thousands of portrait photographs present in the Europeana Photography Collection, resulting in the user being presented with their 'historical doppelgänger'.

For Fashion the user engagement project focusses educating fashion and design students about historical fashion trends and facts through an educational quiz. This quiz will be based on the Pop-up Museum technology, as developed in the Europeana Space project. This project will be first presented during the Europeana Fashion Collection launch in Venice end of May.

As mentioned earlier, preparations have started for the organisation of The Europeana Transcribathon Campus in June at the Berlin State Library, in close cooperation with Europeana 1914-1918, F&F and NISV. The user engagement project for Research (using 1914-18 and Newspapers material) will build upon this event in Berlin.

Together with EF NISV is aligning these user-engagement projects to the Impact Framework that is being developed in the context of Task 2.5.

Transcribathon Romania (see under Europeana 1914-1918).

Other planned events: Transcribathon Nederland (24-27 May), Europeana 1914-1918 Collection Days Estonia (tbc), Transcribe Europeana 1914-1918 Norway (tbc).

Task 2.5 Develop case studies and impact

Three impact studies will be developed with a focus on the importance of access to digitised cultural heritage for learning and research.

A subcontract for market research and impact assessment was issued with Sinzer with a focus on the development of an impact assessment of Europeana's activities in the areas of Photography, Fashion and Research. This will result in three separate impact studies on the three areas.

Task 2.6. Publish Europeana Research

<u>Subtask 2.6.1 Coordinating the Europeana Research Advisory Board (UoG)</u>

The Europeana Research Advisory Board held its third physical meeting since its establishment in 2015, on 2 December 2016 in The Hague. An important element for discussion was the Research Grants Programme and the selection of the 3 winners.

A virtual meeting took place in April and the next physical meeting is scheduled for June 2017.

The December meeting was an opportunity for the Board to agree a process of selection of the grant winners. The task of agreeing a shortlist of 20 was subsequently delegated to a subsection of the Board, and representatives of EF. This list was published in order to generate interest in the scheme, and to make clear the sort of projects that are possible when elements of the Europeana Ecosystem (content, tools, and methods) are used to address humanities research questions. Based on best fit to the Call for proposals, the detail of project plans, and the planned budget of each proposal, the subgroup then developed a process by which they selected three finalists and awarded funding to these projects. The final three were clearly the projects of the highest quality of the more than 150 submitted proposals.

The subgroup also developed a reporting template and guidelines on dissemination of project outputs for the winners. This group also coordinated publicity and interviews with the finalists via the Europeana Research website, and arranged for panel presentations at two conferences to disseminate outputs Feedback from the Board was documented in details and will contribute to shaping the template application form and process of selection next time.

<u>Subtask 2.6.2 Improving (and surfacing) Europeana collections via Europeana Research</u>

In close collaboration with the Europeana Data Partner Services team work has commenced on a firmer implementation of research specific data requirements. This is in line with recommendations that derive from the Cloud project and general improvements of data quality with the researchers needs in mind for surfacing research relevant material. New datasets continue to be surfaced on Europeana Research from raw audio features from the Europeana Sounds collection to designs for engravings from the Rijksmuseum.

<u>Subtask 2.6.3 Data sharing with third parties (CLARIN)</u>

A first complete and functional implementation of the EDM-CMDI conversion was produced[5]. We identified a number of Europeana collections that provide direct pointers to resources and contain the technical metadata for integration required for integration into **CLARIN's** infrastructure, and therefore are good candidates for demo cases for this task. We discovered that all available technical metadata is not available via the OAI-PMH protocol, which prevents us from completing the integration to its full potential; we have discussed this with the Europeana technical experts, who have committed to looking into this issue. Work on this task can proceed regardless, assuming that technical metadata will become available through the supported channels at some point in the future. We also ran into a number of technical issues with Europeana's OAI-PMH endpoint, and have discussed these with Europeana's technical experts.

A hands-on session for CLARIN developers, aimed at connecting new language processing tools to the Language Resource Switchboard (LRS)[6] is scheduled to take place during the CLARIN centre

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[5] Available at https://github.com/clarin-eric/metadata-conversion

[6] A service that allows users of CLARIN services and resources to easily find and apply tools for a given resource, see https://office.clarin.eu/v/CE-2016-0881-CLARINPLUS-D2_5.pdf

meeting in May 2017. Europeana resources will be provided as sample resources, and it is an explicit goal to extend the support for languages for which full-text resources are currently available through Europeana. Preparations for this session (the "LRS hackathon") have started as of April 2017.

Authors representing Europeana, CLARIN and the Berlin State Library have started writing an extended abstract to be submitted for the CLARIN Annual Conference, which will take place in September 2017[7]. The content of the paper will cover the relevant work carried out in Europeana DSI-1 and work in progress in Europeana DSI-2, and the potential for synergy between Europeana and CLARIN and integration of their respective infrastructures, and also aims to provide an introduction to Europeana and its services and resources to the members of the CLARIN community.

Subtask 2.6.4 Research Community Engagement and Scholarly Outreach (AthenaRC)

In December 2017 we were invited to give a talk on Europeana Research in a Digital Humanities workshop organized by the Research department at Utrecht University (ICON in the faculty of Humanities). The following month, January 2017, Agiatis Benardou was invited to give a keynote speech at the DIXIT conference in La Sapienza, Rome, in which Europeana Research featured extensively and raised a series of discussion points.

In March 2017, Agiatis Benardou was invited to participate in the 1968 in the Media International Seminar organized by the FIAT/IFTA Media Studies Commission in cooperation with Institut national de l'audiovisuel, France, in which she discussed the potential offered by Europeana Research in the study of 1968-related content and metadata.

A panel proposal on the subject of Europeana Research was prepared and submitted for the upcoming DH Benelux 2017 conference, focusing on the importance of cultural heritage for research and how Europeana Research aims to help with this. The proposal was accepted. The panel will comprise DH scholars, one of our Grants winners and members of the Advisory Board.

In March the spotlight was on our 3 Research Grants Winners in a series of interviews published on Europeana Research and promoted via Europeana marketing channels and our active dedicated @EurResearch twitter account (1486 followers).

All the three Europeana Research Grants winners are participating in an expert panel at DPASSH 2017 ('Digital Preservation for the Arts, Social Sciences, and Humanities' conference, a collaboration between Sussex Humanities Lab, Digital Repository of Ireland) exploring the public value of Europeana. This panel was initiated by an Australian scholar and shows the impact and recognition for our Grants Programme in the DH community and the interest in and importance of opening up cultural heritage for research purposes.

The grants have been issued to the grants winners according to the decisions of the Europeana Research Advisory Board. Two subcontracts have been issued and one reallocation of funds from EF to **UoG** has been done to run the winning project.

Subtask 2.6.5 Research in user requirements towards the increase of exploitation and expansion of the use of Europeana Research (Athena RC)

Focusing on Europeana content, the aim of this task is to develop case studies employing a mixed methods approach (study of written sources or archival material, use of semi-structured interviews, direct observation - participatory or non-participatory – and/or study of physical objects) for research purposes. These case studies are thematic rather than user-centric. The Digital Curation Unit, Athena RC is developing two case studies in the context of this project.

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[7] https://www.clarin.eu/event/2017/clarin-annual-conference-2017-budapest-hungary

The first case study, entitled 'Creating a narrative of children's literature books and illustrations', is reusing Europeana content on 'children's literature', 'children's illustrations' and 'children's drawings'. Our objectives were: 1. To explore a content-centric topic deploying as much of the Europeana data, 2. To employ a mixed methods approach that will ensure the triangulation of results, 3. To produce a visual representation of the results (thematic exhibition), 4. To document and discuss advantages and drawbacks in using Europeana content for research purposes

Our work here built on previous work conducted in the context of WP1 'Assessing Researcher Needs in the Cloud and Ensuring Community Engagement' in the Europeana Cloud project. In a different context, Europeana content on children's literature was reused in the context of the project ARK4, a cooperation project between four Trondheim institutions and an international collaborator financed by the National Library of Oslo. In its new phase, ARK4 attempted to re-use digital content from the Cultural Heritage sector, mainly deriving from Europeana, to reach a wider audience through knowledge testing games. Thus, Children's Literature was the first of a series of knowledge testing games produced reusing visual records lying within Europeana.

Following the 1968 in the Media International Seminar organized by the FIAT/IFTA Media Studies Commission in cooperation with Institut national de l'audiovisuel, France, in which Agiatis Benardou discussed the potential offered by Europeana Research in the study of 1968-related content and metadata, Athena RC is currently working on a case study highlighting and exposing Europeana-hosted 1968 material, showcasing how it can be useful for research and creative industries (notably film-makers). The possibility of an Exhibition with the support and consultation of experts is also being explored.

<u>Subtask 2.6.6 Develop a network of research labs as a subgroup of the Europeana Network Association</u>

Preliminary work on the approach for research labs has commenced and follow-up conversations will take place shortly also in context of to be newly established Library Working Group as most lab environments find their origin in national and university libraries.

<u>Subtask 2.6.7 Demonstrate exploitation of NeDiMAH Methods Ontology for the Digital Humanities (NeMO)</u>

Preliminary work is being carried out between UoG and AthenaRC to develop a template for using NeMo to describe the research processes within the three grant award projects for wider dissemination.

Deviations and adjustments

Under subtask 2.6.4., two Europeana Research Grants have been issued to winners of the grant and one reallocation was done from subcontracting budget to staff costs, since one of the grant winners' organisation (**UoG**) is also a Europeana DSI-2 project partner, though in another department. The amount of reallocation is exactly the same amount as the intended grant. As explained, all grants have been selected on merit of the project proposals by decision of the Europeana Research Board.

Work package 3 Re-user services

This work package serves to open the data provided by the Europeana platform (DSI) by improving and widening content distribution mechanisms to maximise the re-use of digital cultural content by developers and digital innovators. It will create value for data partners by connecting cultural heritage institutions to creative industries, smart cities and education.

Participants in this work package:

- Europeana Foundation (EF)
- AthenaRC (AthenaRC)
- EUN Partnership AISBL (EUN)
- Platoniq Sistema Cultural (Platoniq)
- European Association of History Educators (Euroclio)

The objectives of this work package are to:

- manage and build the Europeana Labs community with the aim of providing the best customer service to cultural heritage developers and digital innovators and developing strong relations with these communities (task 3.2).
- develop strong partnerships in the areas of education, creative industries and smart cities; in line with the Europeana Business Plan 2016 it aims to develop two new educational partnerships, during 2016 (task 3.3).
- develop growth services to support creative industries in building new products and services with Europeana platform data: it aims to support 4 new start-up projects (task 3.4).

Description of work carried out and achievements:

Task 3.1 Manage the work package

WP3 activity planning, tasks progress and any issues during the reporting period were regularly discussed in more details with each WP3 partner in skype meetings and per email.

Task 3.2. Build the Europeana Labs community of developers and digital innovators

Subtask 3.2.1. Publish Europeana Labs

We have been enriching the content on Europeana Labs to make it a relevant online space for our target creative audiences. For this reporting period, we have published on Europeana Labs:

- 4 new datasets on the topics of Art Nouveau and history
- 4 new applications using Europeana content
- Ongoing updates on the API documentation

Subtask 3.2.2. Investigate the inclusion of a marketplace for cultural heritage developers

AthenaRC delivered a preliminary report on the potential Labs marketplace. This document presents a study of the existing service marketplaces across the world. It maps the global ecosystem of services and identifies possible business models, functionalities, architectures etc.

Subtask 3.2.3. Develop interactive relationships within the Europeana Labs community

We have been promoting the Europeana Labs offer and maintaining regular communication with our target audiences via all relevant channels. For this reporting period, we:

- Registered 5,179 Labs users on average per month

- Published four Europeana Labs newsletters (every month), each reached ca. 3.000 subscribers
- Steady growth of @europeanalabs followers (590 followers till 15 April, registered 205 new followers, 53 % increase)

In addition, we delivered D3.2. Europeana reuse business plans (education and creative industries). This deliverable combines of the individual business plans for the education and creative industries markets and describes Europeana activities in these target areas in 2017. This document replaces the deliverable D3.2 Europeana Labs business plan 2017-2020, as originally planned in the DoA. This change was necessary due to the Europeana strategy update published in February 2017 and valid until 2020. Further explanation is available in the deliverable introduction.

Task 3.3. Develop partnerships for the re-use of digital cultural content

Subtask 3.3.1. Develop existing distribution partnerships in education
The second workshop within the small validation pilot with EUN took place on 27-28 February in the Future Classroom in Brussels. 19 teachers from 10 EU countries came together to test pedagogical scenarios and develop learning activities using Europeana content. We collected their feedback on how they had used Europeana since the first workshop, including what worked well and where they need more support. During the workshop the teachers also developed and presented learning activities using Europeana content. More information about the workshop and its results in our blog.

In addition, **EUROCLIO** launched a new learning environment on their history education platform Historiana which will help educators make the best use of digital cultural heritage's learning potential, regardless of their confidence with digital tools. The new functionality enables educators to create learning activities with the Europeana content on Historiana in their own language, using and rearranging building blocks specifically designed for history education practice. This new learning environment was presented to the wider public during the 24th Annual Conference of EUROCLIO in Donostia – San Sebastián (Spain) from 2-7 April 2017. More information about the new functionality in our blog.

Subtask 3.3.2. Investigate new distribution partnerships in education
To actively support the development of new distribution partnerships in education, we created a dedicated education area on Europeana Pro. Interested parties can now explore our partnerships, browse case studies of educational applications, resources and platforms featuring Europeana content, and get practical help from our collection of useful resources.

Furthermore, we launched the Europeana4Education community. From policy makers to educators, we welcome everyone who believes that digital cultural heritage can enrich educational experiences. We organise the community in three ways. Firstly, interested parties can explore our vision for the Europeana4Education community on Europeana Pro. We also invite them to join the community on LinkedIn: this online group is open for anyone interested in discussing relevant topics and possible projects with like-minded peers, and we will encourage the sharing of best practice and case studies of Europeana content in education. Finally, anyone interested can engage with us on Twitter by using the #Europeana4Education hashtag to spread the word and encourage participation.

EF also participated in the fifth Open Education Week, an initiative of the Open Education Consortium, which took place between 27 and 31 March 2017 and consisted of approximately 130 local and online events. We presented Europeana's educational offer to educational institutions, publishers, academics, students and enthusiasts from across the world by publishing relevant online resources (guides, policy documents,etc.) and by giving two webinars on 29 March (for European and non-European audiences). More information in our blog.

We developed further our relationship with the Open Education Consortium and agreed that Europeana will host a one month long curated feature in September 2017 which will be dedicated to Open Culture with special focus on Education on their Year of Open platform. The feature will cover a series of interviews (incl. video) with policy makers and experts in culture and education from across the world.

Europeana has also joined the 665 organisations featured on the OER (Open Educational Resources) World Map, and is now part of a network of developers of open educational learning resources, policy makers, teachers and learners from across the world. The OER World Map profiles Europeana as organisation/repository and Europeana Collections as educational resource. Find out more in our blog.

Also, in February we executed a mailing campaign addressing key digital educational publishers in our six target countries (as outlined in our education business plan). As a result, we had introductory conversations (skype and physical meetings) with publishers in the Netherlands (Kennisnet) and Finland (Eliademy). The email to the Spanish publisher led to introduction to Procomun, an open educational resources platform developed by the Ministry of Education in Spain.
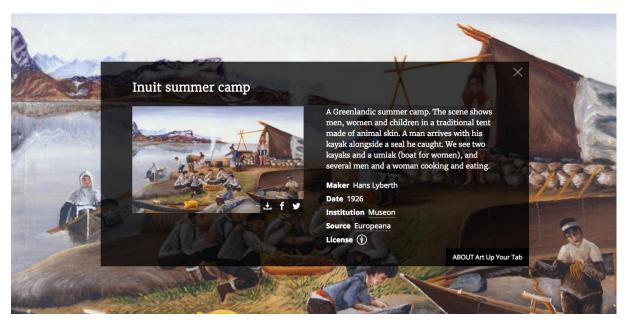
We have had discussions with the French Ministry of Education regarding a pilot which will integrate Europeana Collections on their national educational portal Edutheque and thus increase the awareness of and reuse of our content by French educators and students. First concept outline has been already produced and will be further discussed online and at the Europeana EU Presidency event on 23-24 May in Malta (under WP5).

Subtask 3.3.3. Develop distribution partnerships with creative industries intermediaries
We built up our partnership with the Creative Commons and integrated 470,000 openly licensed images from the Europeana Collections in the new CC Search beta. The current CC search tool is used by nearly 600,000 people globally every month and we believe this partnership will greatly contribute to a wider outreach to creatives around the world.

The two month collaboration with the design School of Form in Poznan was successfully finalised with a closing event at the National Audio-visual Institute (NiNA) on 17 February in Warsaw. The students showcased their unique creations inspired by Europe's cultural heritage which ranged from artistic installations to prints and domestic designs. More in our blog.

ArtUpYourTab is a hugely successful collaboration with Kennisland, Sara Kloster, Studio Parkers using public domain Art images in a Chrome extension. The project was actually enabled by Netwerk Digitaal Erfgoed funding.

For the second subsequent year, Europeana will be a key partner at THE ARTS+ fair 2017 in Frankfurt. According to the current discussions, Europeana will be represented in the business area and will be heavily involved in the event program.

Subtask 3.3.4. Connect to Smart Cities initiatives
No specific work has been performed in the reporting period.

Task 3.4. Develop and promote growth services based on the creative re-use of Europeana material

Subtask 3.4.1. Pilot subcontracting
EF signed a 20,000 EUR subcontract with NSAT, the company which developed the winning project CRAFT of the second Europeana Challenge 2016. The work started in January 2017 and continues as planned. The final prototype will be presented end June 2017.

We also launched Europeana's first match funding call in close cooperation with our partner crowdfunding platform Goteo.org. The campaign will allocate 10,000 matches funding to support up to three creative projects in secondary education. The call for applications ran from 1 February till 15 March and resulted in 18 applications from across Europe. After careful evaluation by both Europeana and Goteo representatives, we announced three winning projects on 31 March. The three projects are currently trained by Goteo on how to design a successful crowdfunding campaign. Their own campaigns will be launched on 26 April on Goteo.org and will run till end of June. Those projects which meet their minimum campaign financial goal will receive Europeana match funding and will start the implementation work from July on.

Subtask 3.4.2. Co-creation services
Europeana and Platoniq are planning a co-creation workshop with makers in May/June in Spain. This is in line with the planned maker's pilot (as outlined in the D3.2 Europeana business plan for the creative industries) and will encourage the reuse of digital cultural heritage content by these new creative audiences.

<u>Subtask 3.4.3. Services around financial capacity building</u>
Europeana is currently in discussions with our partner Media Deals about the second investor forum which will bring together the authors of selected high-potential reuse projects with investors and help these projects in their next growth stage.

Deviations and adjustments:
The deliverable D3.2 Europeana Labs business plan 2017-2020 was replaced by the D3.2. Europeana reuse business plans (education and creative industries). This change was necessary due to the Europeana strategy update published in February 2017 and valid until 2020. Further explanation is available in the document's introduction.

Work package 4: Policy and programme management

This work package is responsible for the full programme management of projects related to Europeana DSI (including Europeana DSI-2), making sure objectives and strategies align. This allows Europeana to adequately act on the progress of the project. In line with the progress of the project and needs of the consortium and the Europeana Network, the work package maintains and develops policies (such the Europeana Publishing Framework, the Europeana Licensing Framework, and Europeana Impact Assessment Framework). Europeana continues to be involved in copyright reform where it affects or prevents cross-border access and re-use of digital heritage material or the digitisation of twentieth century material and therefore its access. This work package aims to clarify and develop strategies, business models and policies for the further advancement of Europeana as a platform and access to European cultural heritage to achieve maximum impact.

Participants in this work package:

- Europeana Foundation (EF)
- Stichting Digitaal Erfgoed Nederland (DEN)
- Stichting Nederland Kennisland (KL)
- Österreichische Nationalbibliothek (ONB)
- Bibliothèque nationale de Luxembourg (BnL)
- James Lovegrove SPRL (Lovegrove)

The objectives of this work package are to:

- manage the full Europeana programme of projects with the aim of providing high-quality programme management and cross-project expertise sharing. (task 4.2)
- manage Europeana DSI as a project with 34 partners, to deliver the agreed outcomes of the project (subtask 4.2.1.)
- develop a mechanism to share knowledge on Europeana ecosystem (and beyond) to influence current and new policies, as well as measure impact of Europeana DSI (task 4.3)
- develop (and manages implementation of), based on the outcomes of its previous objectives, cohesive policies for digital cultural heritage for the use of Europeana platforms material (task 4.4)

- further develop and implements Europeana's impact, publishing and licensing frameworks with the aim to maximise uptake of Europeana and catalyse the cultural heritage sector in Europe (task 4.5.).

Description of work carried out and achievements:

Task 4.1 Manage the Work Package

The work in the work package is on track and according to plan.

Task 4.2. Manage the Europeana DSI programme

Subtask 4.2.1. Europeana DSI-2 technical project coordination

Under this task **ONB** carried out the technical project coordination of the project: reporting, communication, administration of the project.

All deliverable and milestone documents of this reporting period are available in the Project Documents section on [Europeana Pro](#)[8], project partners can access all documents in the Project Documents section on Europeana Pro; confidential deliverables can only be accessed by project partners, public deliverables are publicly available (for view and download).

We maintain a risk register on [Google Drive](#) that is shared with all project partners; all partners are encouraged to indicate risks that they have identified during their work. ONB maintains close and effective working relations with all partners; close collaboration and exchange with all partners and WP Leads allows to identify risks and to define mitigation actions at an early stage.

Subtask 4.2.2. Convening the Steering Committee of Europeana DSI

The Europeana DSI Steering Committee (the Europeana Foundation Board) met twice during this reporting period. It discussed progress of the Europeana DSI-2 project, forecasts for finance and related matters, as well as strategic issues.

Subtask 4.2.3. Coordinate Europeana DSI's programme

The programme management consisted of project management of Europeana DSI-2 (in relation with subtask 4.2.1) and related projects under FP7, CEF, Horizon 2020 and other funding programmes. Under this task, we raised awareness of the Europeana Generic Services (CEF) opportunities for the wider Europeana Network as well. Under this task, EF coordinated project commitments between all work packages and related projects.

Task 4.3. Improve knowledge sharing for Europeana Network partners and the cultural heritage sector

Subtask 4.3.1. Evaluate programme of projects that benefit Europeana's ecosystem

We set-up a task force that will evaluate how Europeana and its related projects should be positioned in future funding programmes of the EU and member states. Its main task is to set up and agree on an agenda for innovation in the (digital) cultural heritage area.

Subtask 4.3.2. Run an ENUMERATE survey on digitisation in Europe

DEN created the final list of questions for the survey to inventory the actual status of digitisation in European and recruited the national coordinators for the core survey. The survey is currently translated

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[8] http://pro.europeana.eu/get-involved/projects/project-list/europeana-dsi-2

into twelve European languages and programmed in Survey Monkey. Guidelines have been updated and sent to the national coordinators. The survey will be opened mid-May 2017.

The decision was taken to use a generic SAAS solution of SurveyMonkey to support the fourth European survey. As a result the subcontracting for designing and implementing of the platform was subcontracted for 3,500 euro. For the same reason the communication, translation and processing of the results was best done internally at DEN. That is why the budget for subcontracting was reallocated to personal staff costs.

Task 4.4. Develop and maintain cohesive policies for digital cultural heritage

Subtask 4.4.1 Awareness raising of Europeana in coordination with the Commission

Europeana's Member States information (in relation with WP5) has been updated and improved. **Lovegrove** has also engaged in progressing the dedicated area for member states on the Europeana Pro website (collect input, discuss content and presentation).

In the field of EU policy making on copyright **Lovegrove** and **Kennisland** have taken part of the work of engaging with stakeholders and policy makers in discussing the Commission's proposal on copyright in the DSM promoting the needs of CHIs in the copyright reform. The mandate was renewed late 2016 on what the Europeana Network wanted to see come out of the reform proposal with agreement (except for 3 members, BnF, IFFRO and FEP) on the areas Europeana should concentrate on, as these are integral to the existence of Europeana and its ability to function as a platform.

Subtask 4.4.2. Support, review and maintenance of open data policies

To support members of the Europeana Network in making cultural heritage more openly accessible, by sharing knowledge & best practices we have undertaken a number of activities to increase knowledge about IPR and open data competency. Along with data partners Europeana have prepared and published IPR training materials (presentations and videos). Two national workshops, in January and February 2017 were run in Spain and the UK, to support the delivery of open data to Europeana. These workshops were run in conjunction with network and data partners, and invited experts from those countries to participate in discussions with cultural heritage institutions.

A research brief was prepared by Europeana and Kennisland to explore the compliance with the Public domain charter and the acceptance criteria for rights statements. This research will be undertaken in the months of April and May, with the analysis and results due July.

BnL ran a workshop on the standardisation of rights with 30 experts in December 2016.

Subtask 4.4.3. Manage Europeana policy development on IPR and open data – coordinate the IPR working group

Between September - December 2016 the Copyright Working Group was consulted on the revision of Europeana copyright mandate, to serve as the basis for advocacy activities of Europeana aimed at improving the commission's proposals. The group held two meetings to review and shape the updates needed to the mandate in order for it to be relevant and effective in light of the ongoing development in the proposals for copyright reform in the EC and EP. The group broadly agreed the mandate, and organisations that did not support the mandate were clearly noted in the mandate, that was also approved by the Network Members Council. The mandate was published on Pro and the Network was informed through a blog post.

Subtask 4.4.4. International standardisation of rights information

In the second half of 2016 Europeana implemented the 'Migration plan to internationally standardized rights statements' which resulted in updating 26 Million+ data records published via the website, this was done in collaboration with WP1.

Europeana co developed the governance structure of rightsstatement.org and has taken steps to invite fellow international digital libraries and aggregators to participate in that governance structure. This work is ongoing and further progress will be made in the remainder of the project.

Subtask 4.4.5. Coordinate communication of copyright knowledge to the Europeana Network (KL)

The Europeana Network are informed on copyright developments through regular blogs & promoted through social media and newsletters, available via Europeana Pro, covering a range of topics from the work on advocating for EU copyright law reform through to sharing best practices from within the network.

The permanent resources and information published on Europeana Pro have been updated following the migration to international rights statements. The permanent resources and information shared via Europeana Pro are under review and it is intended they will be updated in the second half of the project.

Subtask 4.4.6. Explore IPR implications of alternative data acquisition mechanisms such as crawling and indexing

KL has started this work in cooperation with the Europeana Foundation. A research brief has been created to identify several scenarios. As expected a possible outcome will be the creation of a living document that identifies possible legal restrictions and possibilities. This document intends to inform other WPs of the Europeana DSI on the legality of new directions.

Task 4.5. Further develop and implement Europeana's impact assessment framework, business plans and strategy

Subtask 4.5.1. Manage the ENUMERATE Observatory

DEN and Europeana had a meeting to discuss the migration of the observatory from Europeana Pro to the Statistics Dashboard. Discussions are still ongoing.

Subtask 4.5.2. Implement Europeana DSI's Impact Assessment Framework

Europeana initiated a Task Force to support the development of a toolkit which will guide users through the implementation of the Impact Assessment Framework. The toolkit is being developed iteratively with the first results due in August 2017. The Network is being kept informed through regular blogs on pro.

The impact framework has been applied to the Europeana Business Plan 2017.

Subtask 4.5.3. Develop Europeana Business Plan 2017

With support of the Network Association **EF** prepared the Europeana Business Plan 2017, which was published early February. It contains all plans for Europeana (DSI) in 2017 and is aligned with the revised Strategy 2020 and the Europeana DSI-2 DoA (insofar the project runs during 2017).

Deviations and adjustments

The subcontract for **DEN** in task 4.3.2 was converted to staff costs as it was decided that the work was best done internally at DEN.

Work package 5: Network, events and sustainability

This work package covers the activities of the Europeana Network Association members who give time and expertise voluntarily to achieve the strategy of Europeana and to strengthen the role of cultural heritage in our society. As well as running and contributing to Europeana task forces, members of the Association disseminate the work and objectives of Europeana DSI. In 2016 and 2017 a major objective for the Association is to help ensure the long-term sustainability of Europeana through increasing public awareness and use. This will add to the goal of a strengthened Europeana ecosystem. Sustainability of Europeana comes from use and willingness to fund its existence.

Participants in this work package:

- Europeana Foundation (EF)
- Latvijas Nacionālās bibliotēkas - Latvian National Library (LNB)

Specifically, the work package:

- coordinates the Europeana Network Association with secretarial services for its governance, task forces, working groups, campaigns and regular meetings (task 5.2)
- to 8 Network Task Forces set up to allow Network Association members to take on specific subjects or areas of common interest and complying with Europeana's Strategy 2015-2020 (subtask 5.2.2)
- a new election campaign to appoint new Councillors on the Members Council; we target a 45% participation of the Network Association members (task 5.4.)
- manages and publishes Europeana Pro as the platform that supports all professional knowledge on Europeana DSI, its programme of projects and Network (task 5.3)
- organises and prepares the Europeana Network Association Annual General Meeting (AGM) and other plenary events (task 5.4)
- further aids the sustainability of Europeana by working with the Europeana Foundation Governing Board on its sustainability plan, in collaboration with the MSEG, the Europeana Network Association members the European Commission and aligned with The Netherlands Presidency Council conclusions. (task 5.5)

Description of work carried out and achievements:

Task 5.1. Manage the work package

The WP is on track.

Task 5.2. Nurturing and coordinating Europeana Network Association development and contribution (EF)

2016 Voting and Members Council Elections

The 28 new (elected and re-elected) Members Council representatives who were elected by the Network Association members in November 2016 are Georgia Angelaki, Erik Buelinckx, Olimpia Curta, Francesca Di Donato, Wim van Dongen, Barbara Fischer, Sanja Halling, Karin Glasemann, Sergiu Gordea, Gill Hamilton, Susan Hazan, George Homs, Lizzy Jongma, Max Kaiser, Julia Katona, Paul Keller, Vera Kriezi, Joke van der Leeuw-Roord, Jef Malliet, Johan Oomen, Lars Rogstad,

Cristina Roiu, Merete Sanderhoff, Antje Schmidt, Sorina Stanca, Fred Truyen, Romain Wenz, and Uldis Zarins.

Each of the new elected representatives will be presented monthly via 16 dedicated "Meet your Councillors" blogs planned in 2017. The Councillors who completed their two-year term are René Capovin, Jiří Frank, Kerstin Herlt, Jana Hoffmann, Rolf Kallman, Breandán Knowlton, Aranzazu Lafuente Urién, Olivier Schulbaum, and Sašo Zagoranski.

Out of 1,523 eligible voters, 444 participated in the elections and voting, which represents a lower participation rate than in 2015 (30% in 2016 vs. 50% in 2015) - See Deviations below for more information. The new Council started working on 1 January and elected the new Management Board (See below).

Elections reporting on Pro:

Blog 1 - May 2016: Never mind those other elections!

Blog 2 - September 2016: Come forward and become a Members Council 2016 candidate

Blog 3 - October 2016: Fabulous turn-out: 48 candidates in the starting blocks for 2016 MC elections

Blog 4 - November 2016: Bravo! Introducing your new Members Council representatives

The Management Board of Europeana Network Association was revised in January 2017. The two-year term of the six in the Network Association Management Board came to an end in December 2016. Eight Councillors from the Members Council came forward as Management Board candidates last December. The Management Board elections took place in January and the new Management Board was announced on 20 January. The new Management Board was elected for two years until 19 January 2019: Max Kaiser, Paul Keller, Joke van der Leeuw - Roord, Johan Oomen, Merete Sanderhoff, Uldis Zarins.

The Management Board elected the Chair: Merete Sanderhoff, the Vice-Chair: Max Kaiser and the Treasurer: Paul Keller amongst themselves. Through a resolution in the minutes of the 27 February 2017 meeting in The Hague, the Europeana Governing Board formally re-appointed Max Kaiser, Paul Keller, Joke van der Leeuw - Roord, Johan Oomen, Merete Sanderhoff and appointed Uldis Zarins as Europeana Foundation Governing Board bestuurders (directors) for a period of two years from the Board meeting in which they were appointed, until the Board meeting that is closest to the end of their two year term i.e. 27 February 2017 to 26 February 2019.

The 1st Members Council Meeting (21-22 February, The Hague) The first Members Council meeting of this year took place on 21 and 22 February at the Europeana Office in The Hague. During the meeting, the new Management Board was formally introduced to the Council, and Councillors were presented with the new Europeana strategic positioning, Business Plan 2017, Association budget, and Association Activity Plan 2017. They were also presented with and discussed the Europeana 2017 #AllezCulture campaigns, including the new #AllezLiterature campaign, and the Association's input for the European Year of Cultural Heritage proposed for 2018.

Europeana Vision and Mission were revised in 2016/17 to comply with the revised Europeana Strategy; a Working Group composed of Association Management Board and Foundation Governing Board [Uldis Zarins, Marco de Niet, Max Kaiser, Merete Sanderhoff, Joke van der Leeuw-Roord, Aubéry Escande (Europeana Office), Jill Cousins (Europeana Office)] was put together. The Working Group on Europeana Vision and Association Mission considered that it would make sense to have a common vision statement for both Foundation and Association with different mission statements that

detailed the scope and remit of each organization, and therefore how they relate to each other. The group initiated their work in July 2016. They met again in September and submitted their work progress in form of Europeana Vision and Association Mission statement to the Members Council meeting in Riga in November 2016. They held their last meeting on 25 January 2017 to finalize the statement that is now called "Europeana Aspiration and Europeana Network Association Approach"

The Members Council endorsed the new joint Europeana Aspiration and Network Association Approach during their 1st physical meeting in February, and discussed the best ways to increase the Association engagement and Members Council Representation.

A large part of the February meeting revolved around the overview and evaluation of the existing and proposed Task Forces and Working Groups and their contribution to 2016 and 2017 Business Plans. The Council went through the voting and approval of 4 Task Force proposals (listed below), and set-up a new Library Working Group.

Subtask 5.2.1. Driving Europeana Network Association secretariat

During the reporting period, EF organised 5 Management Board meetings. Minutes and actions of those meetings are available on Europeana Pro page.

The 1st physical meeting of the Members Council was organised in The Hague - see above - and reported in the form of Minutes and blog. The Agenda covered Europeana Strategic repositioning, the Association Vision & Mission, Task Forces and Working Groups submission and CEF Thematic Collections.

The next Members Council physical meeting will be held in Copenhagen (SMK) on July 5-6 and the last one in 2017 in conjunction with the AGM in Milan (Italy) early December, 2017.

Subtask 5.2.2. Coordinating task forces and working groups

Network Engagement

Task Forces tackle issues and challenges affecting the digital heritage field. They are set up to allow our members (with the aid and supervision of the Members Council) to take on specific subjects or areas of common interest to the digital heritage field and Europeana 2020 strategic update. They run for a limited period of around six to nine months and result in the delivery of a set of recommendations on their subject.

Working Groups on the other hand Working Groups are set-up to address ongoing activities and issues of continuing relevance within the Europeana Network. There is no limited timeframe for Working Groups; they can remain in existence whilst their purpose is required. Working Groups are proposed and led by a member of the Members Council.

6 Task Forces are currently running. The Audiovisual Media in Europeana TF that was running since May 2016 ended and delivered its recommendations. Based on the revised setup of the new Terms of Reference, the Members Council reviewed and approved 4 proposed TFs in February: Advanced documentation of 3D Digital Assets, Europeana Resource Citation and Object Identity Standardization, Network Participation Framework, and Impact Assessment TF. They are now up and running, together with other 2 TFs that started in January (TF on Benchmarking Europeana, and Preparing Europeana for IIIF involvement TF). The Council postponed the approval of the Europeana Local Communities TF – it will be re-evaluated. The only TF that was rejected was the Campaign "Migration" in Germany and Austria and it will be integrated into the #AllezCulture WG.

6 WG are currently approved and running: Data Quality, Copyright, Europeana Pro, #AllezCulture campaigns, Governance/Voting/Elections, and Library WG that was approved at the MC meeting.

Subtask 5.2.3. Coordinating Members Council campaigns
The #AllezCulture WG supports the #AllezLiterature campaign driven by Europeana Office.

It is worth adding that the Members Council was heavily involved in the set-up and development Europeana Network Association's response to all the sections of the EC Draft Europeana Evaluation Roadmap and was submitted on 18 January. The evaluation of Europeana by independent experts will be presented to the EU Council by October 2017, providing clear orientations for the mid and long term development of Europeana.

Task 5.3. Managing and publishing Europeana Pro website

We aim to revamp Europeana Pro in Q3 2017. The platform will encompass Europeana Research, Europeana Lab and Europeana Pro under the same umbrella. The new platform was designed following the input of survey feedback and Europeana Pro Working Group's input. The soft launch of the new platform is scheduled in September.

Task 5.4 Coordinating and facilitating Network & Community building events

The AGM brings together representatives of the Europeana Network Association to inspire each other, transfer knowledge, and make recommendations for the future of Europeana. The AGM 2017 will be organised the day before the European Commission cultural event - European Cultural Forum - which will be held on 7 & 8 December in Milan. This year's AGM will be an opportunity to position Europeana as a partner in the 2018 European Year of Cultural Heritage. We will organise Europeana Plenary early 2018. More info in our next reporting period.

Subtask 5.4.1 Prepare and organise the Annual General Meeting 2016 and 2017
The work on preparing the AGM 2017 has not yet started.

Subtask 5.4.2. Prepare Europeana Plenary event
Initial talks about a Plenary event in 2018 have started.

Subtask 5.4.3. Organise EU Presidency parallel meetings or events and publish results
We are organising a Europeana meeting with the Ministry of Education & Employment of Malta - through the National Archives - on 23 and 24 May. The event entitled "Migration and Culture: how can our past educate our present" will help us bridge European Ministries of Education and CHIs with a focus on migration. The event is an opportunity to revise the "Europeana for education" recommendations designed in 2015, highlight best practices across Europe (Greece, Croatia, Netherlands, Spain, France), and finally prepare a new set of recommendations to better fit the "migration in education" thematic.

Task 5.5. Broaden Europeana's sustainability structure

We also launched a Member States, in accordance with Council Conclusions of May 2016 dedicated space on Europeana Pro that features Country Reports and all relevant documentation. We also publish a Quarterly Member States Newsletter that sheds light on Europeana news of special interest to Member States. Each quarter the newsletter will be pitched by one of the Member States to get them actively engaged. The 1st issue was launched on April 12.

Deviations and adjustments

The Percentage of voters in Europeana Network MC Elections in 2016 was lower than in 2015. We registered a 30% participation level in 2016. Correcting measure will be implemented in 2017 to meet the 2015 engagement level (50%).

There is a general consensus among Councillors that the elections campaign needs a more active input from elected representatives and candidates rather than EF push, which is being addressed in the Network 2017 Activity Plan.

We will also run a Membership campaign in 2017 as we did in 2015; this campaign is likely to impact the amount of network members (decrease slightly) but favourably increase awareness and participation level. The membership campaign will positively influence the elections participation and general network engagement. See MS5.1 Elections campaign communication plan for more details.

Work package 6: Development

The goal of this work package is to maintain and develop products to support the business in providing services for our data partners, end-users, re-users, researchers, the Europeana Association Network members and other professionals in the European Cultural heritage sector. Its development scope encompasses both short-term needs as well as more experimental developments that may not result in working product within the timeframe of Europeana DSI-2.

Participants in this work package:

- Europeana Foundation (EF)
- Netherlands Institute for Sound and Vision (NISV)
- Österreichische Nationalbibliothek (ONB)
- Instituto de Engenharia de Sistemas e Computadores Investigação e Desenvolvimento em Lisboa (INESC-ID)
- University of Sheffield (USFD)
- AIT Austrian Institute of Technology (AIT)
- Instytut Chemii Bioorganicznej PAN - Poznań Supercomputing and Networking Center (PSNC)
- Humboldt-Universität zu Berlin (HUMBOLDT)
- Semantika d.o.o. (SEMANTIKA)

Specifically, the work package:

- Designs and develops a new and improved set of data ingestion workflows, services and tools (task 6.2)
- Incrementally improves and extends public APIs for search, retrieval and user contributions (task 6.3)
- Improves and extends the Europeana Collections platform and the user experience of the sites (general Collections, thematic collections) built on it (task 6.4)
- Maintains, develops and consolidates the community sites Pro, Labs and Research (task 6.5)
- Maintains and improves the Europeana Statistics Dashboard (task 6.6)
- Coordinates the EuropeanaTech community and activities (task 6.7)
- Improves the Europeana search engine and better monitors the quality of the metadata it builds upon (task 6.8)
- Improves and extends the data interoperability framework and EDM (task 6.9)
- Innovates data publication on Europeana (task 6.10)

Description of work carried out and achievements:

6.1 Manage the work package

Continuous alignment of development tasks have been carried out.

6.2. Design and develop a new and improved set of data processing services

Subtask 6.2.1. Requirements analyses and user research
User research started in Europeana DSI-1 and will continue as implementation progresses (see WP1

Subtask 1.2.1). Currently, Metis, the new ingestion toolset, designs are finalised for the main pages: home page, overview dashboard, dataset profiles.

Subtask 6.2.2. Technical design and development of data processing services

A third and more detailed version of the Technical Design plan for the data processing services has been published. Feedback to the alpha version of the Europeana Collections preview and validation services was incorporated and beta versions are being implemented with improved features. Development of the Metis dashboards has started. Also, Integration of the Metis services to Europeana Cloud will start from May on.

Subtask 6.2.3. Improve and adapt LoCloud Collections
A product release roadmap for LoCloud Collections has been outlined. Market and user research has been initiated, interviewing both existing customers and potential customers. LoCloud Collections first version EDM output is now in review by the Europeana Data Partner Services team (WP1). Upgrade to Omeka 2.5 initiated and nearly completed.

Subtask 6.2.4. Maintenance of existing data ingestion tools and services
Bug fixes were done when needed, to support ingestion of data.

6.3. Develop, improve and extend public APIs

Subtask 6.3.1 Maintain and integrate existing APIs
Notable improvements to the Europeana REST API for record search and retrieval include:
- Improved storage for thumbnails and sitemap
- Technical debt improvements and bug fixes to the Search & Record APIs, Hierarchical objects and OpenRSS search

Release notes for the Europeana REST-API for search and retrieval are available on Github.

Subtask 6.3.2. Improve and extend the coverage of the Entity API
An internal alpha has been developed and also trial integrated in Europeana Collections and in Pelagios.

Subtask 6.3.3. Improve the Annotations API
The Annotations API has been made available as a public alpha. It is already being used in the production versions of Europeana Collections and Europeana Radio. In the former to display annotations contributed by users in Wikidata, Wikimedia Commons, and Europeana Sounds and in the latter in allowing users to add genre tags to the played tracks.
As notable improvements to the Annotations API include:

- Further stabilization of the production environment, including regular monitoring & tests
- Set-up of a proper release workflow and acceptance environment
- Improved search capabilities and search profiles for annotations
- Further technical debt improvements and bug fixes

All Annotations API release notes are available in the Europeana GitHub. Note that development of the Annotations API was until end of January 2017 formally part of the Europeana Sounds project.

Subtask 6.3.4. Develop image discovery services
A conceptual design for the image discovery service has been made. In brief it will focus on exploration of high-quality imagery via image similarity (so-called Content Based Information Retrieval) computed by analysing the features and colours of the images. The concept draws on the

CultureCam prototype[9] developed in Europeana Creative and aims towards users who are looking for inspiration and exploration of top quality imagery.

A selection of a first batch, about 120,000 images, of high-quality imagery that aligns with the Art, Fashion and Music themes have been selected and harvested for inclusion in the service. This selection and harvest is based on the Europeana Search API and its media search capabilities.

The technical design of the service has been drafted and software components selected. The service will use the open source LIRE framework which aligns well with the existing.

Subtask 6.3.5. Develop a user content contribution service
No updates since the previous report.

Subtask 6.3.6 Improve the Newspapers API
No updates since the previous report.

Subtask 6.3.7. Improve APIs management
Notable improvements to the management of Europeana API include:

- Development of a new service for centralized API key management and validation to be used by all Europeana APIs has started
- Logging and regular reports of active API key statistics to assess KPI 3.1
- Further development of MyEuropeana including user management, authentication and client authorization for "write" access to Europeana APIs

Task 6.4. Improve and extend the Europeana Collections platform

Subtask 6.4.1. UX research, design and evaluation
This reporting period, coinciding with the end of 2016 reporting, the 2017 business planning and end of Europeana Sounds reporting has focused on user evaluations to establish baselines user satisfaction KPIs and checking if existing KPIs have been met.

The following websites have been have been evaluated (in the form of shorter polls and linger surveys):

- Europeana Music Collections
- Europeana Radio
- Europeana Collections incl. Exhibitions, multiple surveys
- Europeana Pro
- Europeana Labs
- Europeana Research

The result of the user evaluations is that Europeana Music Collections and Europeana Collections meet their set user satisfaction KPIs but Pro, Labs and Research do not. That Pro, Labs and Research would not was something we suspected would be the case which is why we have already initiated an improvement (see 6.5.2 below).

Subtask 6.4.2. Maintain and develop Europeana Collections components and features
We developed a new and improved version of Europeana Radio, increasing its available music recordings to c. 200 000 and introducing the ability for users to help us improve our data by adding genre tags. We have also added support for the display of user created annotation and have improved

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[9] Note: The CultureCam prototype works only in Firefox.

direct media access by supporting embedding the sound players of DISMARC and the British Library[10].

To better support users who prefer an exploratory style of discovery we have introduced a new landing page template that emphasizes browse over search. The first such landing page implementation is that of Europeana Fashion but others are likely to follow. This also means that we provide better support to thematic collections partners whose target audience and users tend to prefer browse over search.

To better support users who have a hard time finding the gems within the vast Europeana Collections via search we have introduced image galleries. This also means that we have added another tool to our thematic collections partners "curation toolbox" allowing them to surface and tell the story of or provide context to selections of their content. The galleries are intended to fill a curatorial & content marketing gap between blog posts and virtual exhibitions.

To improve the way users can navigate between searching and browsing for Fashion objects and reading blog posts about Fashion we have integrated display of such blog posts into the thematic Fashion Collections. This will later be done also for all the blog posts we write that are about objects in our collections and new features - regardless of theme.

All Europeana Collections release notes are available on Github.

Subtask 6.4.3. Develop custom features for three new thematic collections
The term "custom feature" in this context does not necessary mean that a feature will remain exclusive to the thematic collection that drove its initial development. Rather, all features developed in Europeana Collections should benefit as many specific thematic collections as possible. Custom feature is thus somewhat of a misnomer.

Development of "custom" features for the thematic Fashion Collections was completed in the previous reporting period. They have now been released in a first production version (previous version we considered beta functionality), see 6.4.2 above.

Development of 14-18 custom features has entered the design stages (technical and UX).

Task 6.5. Consolidate and incrementally improve the community sites Europeana Pro, Europeana Labs and Europeana Research

The design and new information architecture are finalized. The development of the new website started. So far we are on schedule to deliver the website by end of August.

Subtask 6.5.1. Maintain and perform minor feature developments of the Pro, Labs and Research sites and underlying software
We have a service level agreement for 24 hours a month to maintain the current sites. We stopped further development on these sites because we are focusing on delivering the new site and soon as possible. We are at the moment only maintaining the current sites to make sure that they are working properly.

Subtask 6.5.2. Begin the implementation of COPE across Pro, Labs and Research
Development of the new website started. The content types are in place. The first designs are also ready.

Task 6.6. Improve and maintain the Europeana Statistics Dashboard

A new version of the Statistics Dashboard was developed and released. This version did not add any new features; instead it was focused on improving the underlying code quality of the software.

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[10] We count this formally as part of Europeana Sounds

After having developed this new version and reviewing the total product development commitments we have taken the decision to investigate lower-cost/effort alternatives to reporting Europeana usage statistics and deprecate the Statistics Dashboard.

Task 6.7. Coordinate the EuropeanaTech community and activities

NISV composed 2 newsletters, one issue of EuropeanaTech Insight, participated in the IIIF TF, and began initial research for FLOSS White Paper.

NISV and **EF** have started the work needed in order to fit EuropeanaTech material into the coming new version of Europeana Pro.

Partners of tasks 6.7-6.9 have worked on papers for the Code4Lib journal (one accepted, one published), OCG journal (one submitted), ElPub conference (one accepted), JCDL (one rejected), TPDL (three submitted) and submitted presentation bids for IIIF (two accepted) ELAG (one accepted), DPLAfest (one accepted). We presented papers previous accepted at ISI, SWIB (two presentations).

EF and **INESC-ID** have presented at (upon invitation) the W3C workshop on Smart Descriptions & Smarter Vocabularies, the Discovery and Discoverability Forum, the Advisory Board meeting of the project Linked Data For Special Collections, a Getty Museum workshop on provenance, the EUDAT User Forum and Semantic Working Group events, a second IMLS Forum on shareable authorities, the Community Meeting of the project "Linked Data for Production".

Task 6.8. Improve (multilingual) search and metadata quality

Subtask 6.8.1. Improve Europeana search
EF has made a major breakthrough with respect to logging user actions on the Europeana Collections portal. A new logging system is in place. First analyses have been made with UoS and EF works on refining the framework.

UoS and EF have collaborated on running an online survey of Europeana.eu users, which was a success with 240 answers

EF has carried out experiments on evaluating object recommendations on Facebook.

AIT has started to load Europeana data (places and people from the Entity Collection) into Peripleo.

Subtask 6.8.2. Measure and enhance multilingual performance
HUB continued its contribution to the activities of the Europeana Data Quality Committee, focusing on multilingual completeness measures. They also helped with the user survey of Subtask 6.8.1 on multilingual aspects. They also started analysis of queries (500) made on the Europeana portal obtained through Google Analytics.

Subtask 6.8.3. Facilitate efforts for enhancing data quality
EF has continued the coordination of the Data Quality Committee, publishing the report of its first year and continuing the work on user scenarios, (multilingual) completeness measures, metadata problem patterns and the checking thereof.

INESC-ID has finished work on a new normalization plug-in to be later integrated in the Europeana ingestion system (Metis)

Task 6.9. Innovate data interoperability and exchange for Europeana

Subtask 6.9.1. EDM development
EF has implemented one update of the EDM Schema, changing the occurrence constraints of several elements. The EDM roadmap has been refreshed with the objectives related to Europeana's Business Plan 2017.

We have prepared and submitted a Task Force on EDM Governance.

We published two EDM case studies: one extending EDM for performing arts in collaboration with the University Library Frankfurt and one on enhancing the quality of existing EDM data for the University of Heidelberg.

We've been involved in two new W3C documents (Data on the Web Best Practices and Data Quality Vocabulary), which on the long run will facilitate our efforts for better data quality and data exchange.

Subtask 6.9.2. Explore and promote novel (IIIF-based) content publication means

The Europeana IIIF Task Force "Preparing Europeana for IIIF involvement" has been launched as planned. It had its first face-to-face meeting in April and is on the way to publish its recommendations before the end of the project. It already started to interact with the IIIF Community as well as the Europeana Network, especially by launching a survey for providers on IIIF and content publication technologies (67 answers). The group was also selected for a presentation at the coming IIIF event in June (Rome).

To inform about current IIIF-related work the latest EuropeanaTech Insight Newsletter focused on IIIF.

Finally, Europeana Foundation has been elected into the IIIF Executive Committee.

Subtask 6.9.3. Linked Data and alternative data acquisition mechanisms

INESC-ID has continued work on IIIF- and sitemap-based harvesting with University College Dublin and National Library of Wales. A client of the Linked Data Notifications protocol has been implemented.

INESC-ID and **EF** have started research on harvesting Schema.org data sources, notably the one produced by the project Linked Data for Special Collections.

EF and INESC-ID are involved in a new IIIF working group on discovery (co-chaired by EF).

Task 6.10. Prototype innovative technologies to empower collection owners to publish collections via the Europeana platform services

Further unit testing and performance testing of the prototypes developed during the previous phases of the project:

- Loading the database with real objects from the Europeana database, to achieve realistic load scenarios (150M CHOs, 2B objects overall)
- Running several standard mixes of load and measuring the results
- Testing the system with a few more examples of incoming data profiles
- Preview portal for previewing records on Europeana Collections was developed.

A comprehensive report with a detailed specification of the developed system architecture and performance results was submitted.

Work package 7: Technical infrastructure

This work package is responsible for the continuous maintenance and development of the technical infrastructure of the Europeana DSI. The Europeana DSI is becoming a full-fledged technology and business platform offering online products and services to various user communities. In that light, the overall goal of this work package is to design and develop new and adjust existing components of the platform to support this change as well as maintaining existing systems.

Participants in this work package:

- Europeana Foundation (EF)
- Poznan Supercomputing and Networking Center (PSNC)

Specifically, the work package is to:

- Ensure availability and stability of all Europeana systems and products (task 7.2)
- Harmonise, document and communicate the system architecture of Europeana's platform (task 7.3)
- Streamline operations of the Europeana DSI platform (task 7.4)
- Support development teams with DevOps services (task 7.5)
- Develop the infrastructure data layer (task 7.6)

Description of work carried out and achievements:

Task 7.1. Manage the work package

All the tasks within the WP are going as expected with no considerable deviations. The contracts are monitored and when necessary, actions are being performed to renew or check for alternatives.
A complete list of Europeana server and configurations are made available in this report. During the second report period report has been used to keep the list of servers up to date.

Task 7.2. Maintain all Europeana systems and products to ensure that they are available and stable

Maintaining the subcontracts and making sure that all systems are available and stable is the main objective here. Maintaining the subcontracts and follow up when needed is an ongoing process. Availability and stability statistics for some applications are provided below.

Europeana Collections (history)

Name ▾	Uptime	Response Time
April 2017	99.91%	789 ms
March 2017	99.12%	779 ms
February 2017	99.99%	766 ms
January 2017	99.89%	780 ms
December 2016	99.02%	807 ms

Europeana API: Search (history)   Europeana API: Search ▼   Recent   History ▼

Name ▾	Uptime	Response Time
April 2017	99.99%	1,366 ms
March 2017	99.72%	1,622 ms
February 2017	99.82%	1,906 ms
January 2017	99.84%	1,655 ms
December 2016	99.08%	1,767 ms

Task 7.3. Harmonise, document and communicate the system architecture of Europeana's platform

3-2-1 Strategy is being used for backup strategy of all critical data, as it was mentioned in the previous report several tools are being used to provide insight about the health of each component in Europeana technological ecosystem. Backup strategy is extended to include not only critical data and the process to deal with strategy is explained in Backup policy.

For simplicity and maintainability of system architecture, 8 servers were migrated from several environments into one backend environment (Hetzner).

New environments for test, acceptance and production have been implemented to support the development of Metis, Annotations API and Entities API. Metis, Annotations API and Entities API are also added Pingdom and also Nagios which are the tools already mentioned in the first report, used for monitoring solutions.

A new procedure to set up a central location (google drive) for all technical documentation and designs is set up and is in test phase to be able to communicate the system architecture and policies for entire Europeana's platform. This procedure is intended to make Europeana the owner of all technical documents.

Task 7.4. Streamline operations of the Europeana DSI platform

The DevOps progress by implementing automated jobs to make development life cycle faster and reliable. As mentioned in previous report, automated scripts have been made to deploy server-setups with one click to any desired environment; the automation process is an ongoing activity for more than just local environment. Virtualization technology (Docker containers) has been expanded to include not only local environment but also being used in production environment. CRF is an example of Docker usage when deploying to production. And Europeana 1914-1918 is using Docker technologies for the currently ongoing migration process.

A new production environment has been implemented for SPARQL endpoint to eliminate downtime when a new dataset is needed to import.

Task 7.5. Support development teams with DevOps services

Upon the last report, Centralized logging has been improved to handle parsing of big amount of incoming logs. This will provide more insight to the developer to understand where the attention needs to be directed to solve a problem, i.e. shorten the development life cycle.

Task 7.6. Develop the infrastructure data layer

PSNC is building the infrastructure (cloud) with direct involvement of Europeana developers. Developers of Cloud PSNC will be at Europeana in the second half March to streamline the activities to be done with products Metis (Europeana) and the infrastructure component being developed by PSNC. Many technical questions and answers from both sides and new understanding of how to continue further.

PSNC's main focus was in improving the performance of the Europeana Cloud infrastructure and to adapt its functionalities before the integration with METIS services. To bust up the performance another way of storing files was developed. Now, files can be stored in different storages configured optimal for the file size.

PSNC has also worked on implementing revisions and tags to support the ingestion workflows. Major changes were introduced to the data model. In addition, a data migration to deploy the revisions and tags work to production has been set up.

We have also investigated the integration of Metis services into DPS. Existing DPS services were updated to support revisions and tags.

Work package 8: Promotion and communication

The objectives of this Work Package are to position Europeana as a catalyst and an innovator in the field of cultural heritage, and to support promotion and communication towards the target audiences of the end-user, re-user and professional services, and the individual products and services they manage from Europeana Collections (including the thematic collections) to Europeana Labs and Pro. This will allow for a stronger Europeana ecosystem as well as increased use of Europeana.

Participants in this work package:

- Europeana Foundation (EF)
- European Museum Academy (EMA)

This work package is specifically responsible for:

- Supporting the strategic positioning of Europeana as a digital service infrastructure for cultural heritage in Europe. It will support Europeana DSI in realising its key objectives by fostering active involvement of stakeholders, such as data partners, the European Commission, Member States, and the general public (task 8.2)
- Running the Awards programme with Heritage in Motion (task 8.3)
- Promotion of end-user services promotion (Europeana Collections, Thematic Collections and Europeana Research) (task 8.4)
- Promotion & Communication of Europeana re-user services (especially Europeana Labs and Europeana Research) (task 8.5)
- Promotion & Communication of Europeana Professional services (task 8.6)
- One overarching yearly European thematic campaign. In 2016 this will be Europeana Art History 280, The theme for 2017 depends on the 2017 Business Plan focus (task 8.7)

Description of work carried out and achievements:

Task 8.1. Manage the work package

The WP-management is on track and on-going, taking into account relevant collaboration, coordination and information sharing with other WPs, most notably WPs 2, 3 and 5 and with the partner Heritage in Motion.

Task 8.2. Manage the strategic positioning of Europeana

Subtask 8.2.1. Develop overall strategic approach for Europeana communications
The strategic positioning of Europeana as a leader and innovator in the field of digital cultural heritage is an on-going task reflected across the board in the direction and support provided to external communications (including branding), advocacy and stakeholder engagement. Key highlights from this period include:
In December Nominet Trust, the UK's leading tech for good funder, named Europeana in their top 100 list. The NT100 is a global celebration of the most inspiring innovations using digital technology to drive social change around the world.
Europeana worked with Nominet Trust to contribute to a press and communications pack, including contributing to a Nominet Trust video, and approach that promoted the award in the context of the importance of digital innovation for social good. We worked with the Europeana Network,

stakeholders including the European Commission and the Network (example) to share this message including issuing a shared press release, targeted mailings, publishing a Pro blog and promotion via social media channels. Indicative coverage included Actualitte, Livreshebdo and BBF .

The Europeana 2020 Strategy Update has been published on 23 February. This update reinforced Europeana's leadership in the digital heritage sector and its commitment to its overall objectives for 2020, which were revisited in the light of a changing technological and economic climate, with the goal of strengthening Europeana's ability to achieve maximum impact.

Our communications approach was to call our audiences - partners, Network and Stakeholders - to action to support our new focus and to demonstrate how it was relevant to them. As well as producing and publishing the updated strategy in an online format, the communications approach employed video, images, targeted mailings, blogs and social media posts to first sell the headline messages and then to invite our audiences to dive into the relevant detail, with a further call to help share it. The Europeana 2020 update has been visited more than 1500 times to date.

We also positioned the Strategy Update as a precursor to the Europeana Business Plan 2017 published in March. Our message here was that this is how Europeana and its partners will support the implementation of the Strategy 2020 in 2017. This second phase of communications placed the focus on our new market approach and showed the benefits of the work being done to our partners, Network and markets. Again, targeted mailings, blogs and social media supported these messages and the publication.

Europeana's annual report 2016 Collaborating for Culture was also published in this period and in line with our digital first policy this was produced in an innovative digital format that allowed for easy access to information and for readers to be able to share easily via social media. The publication celebrated the contribution of Network, partners and stakeholders to Europeana's achievements in 2016 and consequently the communications approach reached out to those groups in advance of publication to underline that contribution and to encourage them to share the report on publication. Again, targeted mailings, blogs and social media supported the messaging and the publication.

Subtask 8.2.2. Develop a corporate communications plan

An overarching approach to communications, including corporate communications is outlined in MS4. This approach has been revised to reflect the update to Strategy 2020 and will continue to evolve to reflect developments in the technological, economic and political landscape. We are considering how to better present this plan as an internal tool across the wider organisation to support our communication efforts.

Stakeholders/market specific plans have been developed and implemented to reflect key products, services and launches. These plans support and therefore reflect D2.1, D2.2, D2.3 and D2.4. They will continue to be built upon throughout the course of Europeana DSI-2.

Subtask 8.2.4. Develop advocacy and education campaigns, including support of EU Presidency activities

The next Presidential event will take place on 23-24 May 2017 at the Conference centre of Hagar Qim; a communications work to support this will be detailed in the next reporting period.

Task 8.3. Run the Partnership in Awards programme

The Partnership Awards programme was launched beyond the Europeana Network by Heritage in Motion in December and promoted across Europeana social media. The submission date for applications was extended from March to 11 April 2017. This extension was a pre-planned approach

built into the Heritage in Motion communications plan, based on predicted response rates and submission timings from applicants in previous years.

Task 8.4. Europeana end-user services promotion & awareness raising (Europeana Collections, Thematic Collections and Europeana Research)

Subtask 8.4.1. Develop Europeana end-user services promotion & awareness raising

Efforts to promote and raise awareness of end-user services centred on online promotion, social media engagement throughout the reporting period. Response to user feedback, the promotion of content related to Thematic Collections and high quality and newly shared content and exhibitions were once again key areas of activity alongside the continued development of partnerships with external platforms.

The Europeana Music Collection received a boost with the official launch of Europeana Radio and its supporting communications plan. Working with the Europeana Sounds Consortium the communications approach focused on music enthusiasts and specialists.

Through our press release, (translated into French, Italian and Hungarian by our Sounds partners) toolkit for partners, end-user and professional blogs, and outreach to music bloggers, we invited readers/listeners to visit the station and explore its vast collection of more than 200,000 tracks. The story was shared by a number of partners and secured coverage on sites such as idboox, CNRS and hyperallergic to name a few. To promote user engagement, a #TagDayThursday was created – a twitter call for listeners to tag the music they hear on Europeana Radio. The launch saw almost 1000 tags in the first day. The tally is currently more than 5000 tags and people continue to actively share links to the radio player.

Awareness of the European Art Collections site has benefited from further cooperation with DailyArt for the site's ArtNouveau season. The successful external partnership created with DailyArt to feature and promote the #Europeana280 artworks has been further developed to support and promote artworks from the Art Nouveau season on. This has seen the Art Nouveau works featured in the Daily Art app, as last year, and now additionally on its new website www.dailyartdaily.com.

In April, Europeana Collections content has also been promoted through communications on the externally developed ArtUpYourTab Chrome extension - which displays a full screen image of selected Europeana content for each newly open tab or window. Working with partners in Kennisland, Studio Parkers and Sara Kostler a joint promotional online campaign was developed and implemented to encourage adoption of the Tab. In the first two weeks more than 750 people have installed the app, resulting in close to 100,000 impressions of Europeana content. The Tab started with a defined pool of content and as that expands a further phase of promotion will be implemented.

Task 8.5. Promotion and awareness raising of Europeana Re-user services (especially Europeana Labs)

During this period communications support has been provided in the key area of reuse

- towards the creative community with promotional activities online and via social media to support the launch of the Europeana 'makers pilot', a programme of research and promotional activities to explore how to harness the value of Europeana's free to reuse content for makers;
- also in Education, specifically the launch of the Europeana4Education campaign providing both online promotion via social media and Europeana Pro, and the development and dissemination of shareable promotional material.

Task 8.6. Promotion and awareness raising of Europeana Pro services

Europeana Pro services are promoted through an on-going programme of Pro blogs, newsletters and supporting social media that help keep the Network - and a wider community of GLAM professionals - connected around Europeana informed about events and opportunities and involvement in projects.

A key series in this period has been to introduce new Members' Council representatives with a dedicated weekly series of blogs on the Europeana Pro site providing profiles that give a human face and voice to the group, explaining not only their expertise but their motivation and ambitions to support the Network and Europeana.

Other key topics promoted and highlighted through Europeana Pro during this reporting period have included Europeana content in Education; Innovation in the reuse of content including shining a spotlight on work done by partners in the Network; Europeana's strategic approach to improving the quality of content through its content strategy; as well as work done to raise sectoral standards in areas such as sharing of high quality images on the Web through The Image Interoperability Framework (IIIF).

Task 8.7. Run an overarching European thematic campaign

Closure of the Europeana 280 campaign:

The Europeana 280 campaign, which was launched to promote and engage people with Europe's art heritage, came to a close at the end of 2016. To mark the end of the campaign, our communications approach was to share and celebrate its success with those who participated through: this included targeted mailings, a dedicated Europeana 280 Slidebean that provided an overview of the campaign's success and was designed to allow participants to use it to promote their own participation and contribution to that success; a closing blog and a final social media rally.

In addition to the on-going 'closed loop' approach to analytics throughout the campaign, we have also gathered and are reviewing specific lessons learned to feed into future campaigns.

Launch of the #AllezLiterature campaign:

In February 2017 Europeana launched #AllezLiterature, a social media based thematic campaign focused on libraries and archives, words and text. #AllezLiterature: highlights the importance and beauty of text; fosters active engagement with both the general public and with libraries and archives across Europe; highlights existing Europeana content and collects some specific high quality text; and emphasises that Europeana content is broader than visual images;

The campaign spotlights important letters, poetry, books and archives in particular.

The campaign launch and its first phase was linked to Valentine´s Day (14 February) and the Europeana 1914-18 Transcribathon.

The successful launch saw more than 7500 visits on transcribathon.eu, the number of registered users increased by over 250 and over 1200 documents transcribed in the initial period. 35 Articles about the Love Transcribathon have been written in 10 languages, in 12 countries including the US, and Mexico. A selection can be found "In the news" on Pro.

Phase 2 of the campaign was linked to link to World Poetry Day (21st March) with works chosen and provided by National Libraries across Europe. This included existing and content specifically contributed for the campaign. We worked with participating institutions to share and promote their content and activities took place on platforms such as Facebook, Pinterest, YouTube and Twitter and included providing templates to allow institutions and the audience to share favourite quotes and works easily.

During this phase we have also worked with the Europeana Members Council through its AllezCulture working group to engage their proactive promotion of the campaign towards their communities.

To date the campaign has reached almost one million people across platforms and has generated:

On Facebook - 474,963 impressions of Europeana #AllezLiterature and 11,720 engaged users.

On Twitter - 2,125,713 impressions; 352 posts from 200 contributors.

While the Transcribathon total now stands at more than 700 new transcribers and over 4,000 completed documents.

The Poetry phase of this campaign proved more challenging than the first for a couple of different reasons: poetry is more of a niche subject than Valentine's Day, love letters and WW1 which means that while it attracts a core audience of poetry enthusiasts, engaging a broader audience of more general enthusiasts is harder; more importantly the campaign has highlighted challenges relating to textual content. Libraries were the earliest contributors to Europeana and the online arena, and are suffering now from legacy problems: what worked in 2008 does not come up to expectations with users today. The positive is that we now know better what we need to do with our library partners to improve the use of their material online. While we have had direct, and ongoing, conversations on this issue with participating institutions during the campaign, we are using these challenges as an opportunity to start this discussion with institutions more widely.

During this period work has also started on preparation for the 2018 thematic campaign on migration and on Europeana's communications support for the European Year of Cultural Heritage, in particular in cooperation with colleagues at Europa Nostra.

Work package 9: Financial and HR management

Europeana DSI-2 needs people and resources including a physical work environment. This work package is designed to manage these resources and to control finance in terms of budget and reporting and the full compliance of the project with EU regulations. As the core project Europeana DSI-2 also manages all the other contributing projects and subcontracts. Close collaboration exists with WP4 which manages the project on a contents level.

Participants in this work package:

- Europeana Foundation (EF)
- Poznan Supercomputing and Networking Center (PSNC)[11]

This work package is in place to deliver

- Human Resource legal employment and Management (task 9.1)
- Financial control, and reporting of Europeana DSI-2 and other EU projects and subcontracts (task 9.2)
- Financial management of Europeana DSI (task 9.3)
- Business support (task 9.4)

Description of work carried out and achievements:

9.1. Manage the work package

The work package is managed in close collaboration with WP4, Europeana Directors and all project partners.

9.2. Human Resource legal employment and management

Between December and April, Europeana Foundation has added 4 employees and 7 employees left the Foundation. Currently EF has 4 vacancies. Under this task, all legal requirements for employment were managed by **EF**.

9.3. Financial control, coordination and reporting of Europeana DSI-2

In close collaboration which Programme Management at **EF** and project coordination at **ONB** (see also task 4.2) a communication structure, reporting structure and several formats for reporting were set up. We communicated final financial figures to the Commission as requested. The request for second payment of the project has been sent to the Commission by April 2017.

9.4. Financial management for Europeana DSI-2

Financial reporting to Europeana Governing Board is based on a quarterly basis. The information is regularly provided to the Board and steering committee. Internally the financial reporting is based on a monthly base to all WP-leaders.

9.5. Project and Business Support

Project knowledge sharing and management tools (basecamp, etc.) were maintained and updated if necessary, as part of the regular tasks of the WP.

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[11] PSNC is a participant in this WP since PSNC is required to have the project financially audited after project completion. No further work is envisioned for PSNC in WP9.

4. Overview of project deliverables and milestones

Milestones/Deliverables December 2017 – April 2017				
Month	No.	Title of the document	Delivered Date	Planned date
January 2017	MS1.1	Ingestion workflows business requirements update	M7	M6
January 2017	MS1.2	Technical infrastructure maintenance plan	M7	M6
February 2017	D2.4	Europeana Newspapers Collections Plan	M7	M4
February 2017	D3.2	Europeana Labs Business Plan 2017-2020	M7	M7
March 2017	D4.6	Europeana Business Plan 2017	M8	M8
April 2017	D4.2	Second project report	M9	M9
April 2017	MS5.1	Elections campaign communication plan	M9	M9
April 2017	MS7.1	Infrastructure Layer Version 1	M9	M9

5. Dissemination activities

The events during which the consortium members presented the project at external meetings and conferences along with online and offline publications and collaborations produced by consortium members and related to the project are listed below.

5.1. Presentations at external events

Partner	Name of Event	Activity	Location	Date	Website
PHOTOCONSORTIUM	Europeana Aggregators Forum April 2017	Attending workshops & discussions Antonella Fresa, Fred Truyen, David Iglesias	The Hague, Netherlands	18-19/04 2017	
eFashion	Europeana Aggregator Forum	Attending workshops & discussions and chairing a table on the possible scenarios for aggregation	The Hague, Netherlands	18-19/04 2017	https://www.eventbrite.co.uk/e/aggregator-forum-spring-2017-tickets-32320379124
eFashion	Europeana Collection Forum	Presentation of the Europeana Fashion curation and communication activities and participation to the discussions	The Hague, Netherlands	07/04 2017	https://docs.google.com/document/d/1rsD-JoLqDqhsxsVs4IndjSxM3c82I_c93DRG52I4-bo/edit#
eFashion	Presentation at The New School Parsons Paris	Presentation of the Europeana Fashion portal and Tumblr to the students of the fashion curation course at TNS Parson Paris. Marta Franceschini presented: "Europeana Fashion. How to curate fashion digital content online"	Paris, France	07/04 2017	

eFashion	Meeting for the Impact assessment Task Force	Participation to the Task Force activities and discussions. Presentation of the Europeana Fashion outreach activities.	Copenhagen, Denmark	03-04/04 2017	https://docs.google.com/document/d/1P8uQJYxi9typpsrWVt1GbG28z0g6zXuyuSmYTrzvefQ/edit?usp=drive_web
INESC-ID	"Semantics AND cultural heritage data"	EUDAT Semantic Working Group Workshop	Barcelona, Spain	03/04 2017	
F&F	15th East-Western-European Memorial Seminar	Presentation Transcribathon/Europeana 1914-1918	Krzyzowa, Poland	29/03 - 01/04 2017	https://www.bundesstiftung-aufarbeitung.de/internationales-gedenkstaettentreffen-kreisau-3169.html
Lovegrove	Library coordination meeting	Discussion on development on copyright reform with regards to cultural heritage institutions	London, UK	29/03 2017	
MCA	Restricted meeting on the European Year of Cultural Heritage	Organiser: French Ministry of Culture – CH Direction Speakers: European Commission, French and German coordinators of the EYCH2018. Dissemination on Europeana DSI-2 & Museu-Hub activities	Paris, France	29/03 2017	
F&F	Award ceremony of Transcribathon Romania Frank Drauschke/ Ad Pollé (EF)	Transcribing Europeana 1914-1918, District Library "Octavian Goga"	Cluj, Romania	25/03 2017	
eFashion	Meeting for	Participation to the	The Hague,	24/03	

	"The Future of Aggregation" Task Force	Task Force activities and discussions	Netherlands	2017	
Platoniq	Makerspaces in Public Librairies	Europeana labs, a space for makers. Presentation to the Spanish network of public libraries. Event organized by Subdirección General de Coordinación Bibliotecaria, Medialab-Prado and US embassy in Madrid	Madrid, Spain	23/03 2017	https://www.youtube.com/watch?v=yh3gbSmuwBo&feature=youtu.be
F&F	Transcribathon Romania – Sibiu, Europeana 1914-1918	Press conference, organisation, presentation and realisation of the event	Sibiu, Romania	23/03 2017	https://transcribathon.com/en/news/thats-a-wrap/
F&F	Transcribathon Romania – Cluj, Europeana 1914-1918	Press conference, organisation, presentation and realisation of the event	Cluj, Romania	23/03 2017	https://transcribathon.com/en/news/thats-a-wrap/
F&F	Transcribathon Romania – Brasov, Europeana 1914-1918	Press conference, organisation, presentation and realisation of the event	Brasov, Romania	22/03 2017	https://transcribathon.com/en/news/thats-a-wrap/
F&F	Transcribathon Romania – Bucharest, Europeana 1914-1918	Press conference, organisation, presentation and realisation of the event	Bucharest, Romania	21/03 2017	https://transcribathon.com/en/news/thats-a-wrap/
NISV	1968 in the Media + EUscreen Network Meeting	Organise	Paris, France	20-21/03 2017	http://blog.euscreen.eu/archives/9129
CLARIN	Meeting	General technical/project	The Hague,	17/03	

		meeting related to task 2.6.3	Netherlands	2017	
Lovegrove	Library awareness raising event	Over 100 million library users in the EU: how can copyright reform help them?	European Parliament Strasbourg, France	15/03 2017	http://pro.european a.eu/blogpost/a-framework-for-public-libraries
eFashion	Meeting with Luca Missoni (Missoni Archive)	Meeting with creative director Luca Missoni and Missoni Archive's staff to discuss new content provision and open licensing for Europeana Fashion aggregator	Varese, Italy	14/03 2017	
EUN	Europeana DSI-2 Second teacher workshop	2 day workshop with 20 teachers from 10 EU countries with presentations and activities involving Europeana content	Brussels, Belgium	27-28/02 2017	http://fcl.eun.org/euro peana-dsi2 and http://pro.europeana.e u/blogpost/europeana4 education-final-teachers-workshop-1
MCA	Europeana DSI Workshop: co-organised with GenCat and CRDI.	The objective of the workshop was to push a data aggregation workflow from Catalan cultural institutions toward Calaix, the Catalan museum aggregator managed by GenCat, toward Europeana throughout MUSEU.	Barcelona, Spain	23-24/02 2017	
INESC-ID	CLARIN-PLUS workshop "Facilitating the Creation of National Consortia:	Networking and dissemination of Europeana Research	Prague, Czech Republic	09-10/02 2017	https://www.clarin.eu/ event/20 17/clarin-plus-workshop-facilit ating-creation-national-consort

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	Repositories"				ia-repositories
PHOTOCO NSORTIUM	MID2017 in Maastricht organized by EADTU, in the context of Europeana Space MOOC	President Fred Truyen spoke about Europeana and he also mentioned current Europeana DSI-2 work and the Photography channel.	Maastricht	31/01 2017	
MCA	Forum Culture – Beyond The Obvious	Communication on MUSEU hub, the Europeana DSI -2 workshops, and the Europeana survey for content providers about Publishing with Europeana. Meeting with NEMO on those topics + coming Europeana DSI WS MCA participant : C.Szteinsznaider	Budapest, Hungary	26-28/01 2017	
INESC-ID	EUDAT Helsinki Meeting	Discussion meeting on the EUROPEANA Data Pilot, Networking and dissemination of Europeana Research	Helsinki, Finland	25-26/01 2017	https://eudat.eu/events /user-m eetings/eudat-helsinki- meeting -23-27-january-
PHOTOCO NSORTIUM	Second meeting Heritage Institutions Bruges	President Fred Truyen showed Europeana portal and similar portals		23/01 2017	
F&F	Europeana 1914-1918 planning meeting	Europeana collections 1914-1918, Trancribathon events 2017	The Hague, Netherlands	18-20/01 2017	
CLARIN	Meeting	CLARIN hosted technical meeting regarding metadata and infrastructure	Utrecht, Netherlands	19/01 2017	
Lovegrove	Informal event	Exchange of views on	Brussels,	11/01	

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	with rights holders, collecting societies and CHIs	COM proposal, seek understanding of copyright issues from different perspectives, discuss possible solutions	Belgium	2017	
UoG	Europeana Impact Workshop	Glasgow University RSE Heritage Workshop with harry Verwayen and Marco DeNiet	Glasgow, UK	16/12 2016	
MCA	ICOM International	Meeting with Icom Int: Presentation of Europeana DSI-2 and Museu-Hub MCA participants : R.Caffo & C.Szteinsznaider	Paris, France	15/12 2016	
PHOTOCO NSORTIUM	Meeting with Heritage institutions Bruges about their online strategy	President Fred Truyen showed Europeana DSI efforts as inspiration		09/12 2016	
MCA	Meetings with French Ministry of Culture	Several Meetings with Departments in Charge of Digital Innovation, Cultural Heritage, and European Affairs MCA participants: R.Caffo & C.Szteinsznaider	Paris, France	12/2016-04/2017	

5.2. Publications

Authors	Title	Description	Date	Website
PHOTOCO NSORTIUM	Upcoming launch event of photography channel in Pisa	PHOTOCONSORTIUM website and social media channels	24/4/2017	http://www.photoconsortium.net/europeana-photography-thematic-collection-launch-event-in-

				pisa-20th-may-2017/
PHOTOCO NSORTIUM	Makers campaign	PHOTOCONSORTIUM website and social media channels	18/4/2017	http://www.photoconsortiu m.net/inspire-makers-to-creatively-transform-europes-digital-cultural-heritage/
PHOTOCO NSORTIUM	The annual report	PHOTOCONSORTIUM website and social media channels	13/4/2017	http://www.photoconsortiu m.net/europeanas-annual-report-for-2016-collaborating-for-cultural-heritage/
NISV, Gregory Markus	MuPoP introduces Pop-up museums as an outcome of Europeana Space	in: Europeana Labs Blog	11/04/2017	http://labs.europeana.eu/blo g/pop-up-museums-as-an-outcome-of-europeana-space
PHOTOCO NSORTIUM	The aggregators forum	PHOTOCONSORTIUM website and social media channels	4/4/2017	http://www.photoconsortiu m.net/aggregator-forum-spring-2017-on-18-and-19-april-in-the-hague/
NISV	What clips did you watch most?	EUscreen Newsletter #2	30/03/2017	http://eepurl.com/cIHQc5
NISV, Moys Schuttert	Out of Frame: 1968 and the Media	EUscreen Blog	29/03/2017	http://blog.euscreen.eu/archi ves/9198
NISV, Mari Skarnes and Maja Wettmark	Norwegian Television History on Europeana	EUscreen Blog	28/03/2017	http://blog.euscreen.eu/archi ves/9171
F & F	Interview Frank Drauschke, Europeana 1914-1918 Transcribathon	RTT TV Brasov	22/03/2017	http://www.mytex.ro/stiri/2 73-cultura/546829-video-brasov-documente-vechi-de-100-de-ani-transcrise-de-studentii-universitatii-transilvania-la-competitia-transcribathon-galerie-foto-si-video.html
PHOTOCO NSORTIUM	Upcoming event in Girona	PHOTOCONSORTIUM website and social media channels	16/2/2017	http://www.photoconsortiu m.net/photoconsortium-annual-event-9th-june-in-girona/
Humboldt, Stiller	Multilingualism of Metadata - Measuring the Multilingual	in: 15th International Symposium of Information Science.	January 2017	

Juliane, Péter Király	Degree of Europeana's Metadata	Verlag Werner Hülsbusch. p. 164-176		
Humboldt, Petras, V., Hill, T., Stiller, J., & Gäde, M.	Europeana – a Search Engine for Digitised Cultural Heritage Material	in: *Datenbank-Spektrum*, 1–6.	January 2017	https://doi.org/10.1007/s13222-016-0238-1
PHOTOCONSORTIUM	The channel	PHOTOCONSORTIUM website and social media channels	13/12/2016	http://www.photoconsortium.net/europeana-photography-collection-at-the-starting-line/