The state of IIIF at Europeana

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OCLC Research Mini-symposium on the Discovery and Use of Open Collections
Leiden, Wednesday 19 June 2019
Who is Europeana?

- A non-profit foundation
- A community of 2400 experts in digital heritage – the Europeana Network
- A shared mission: improve access to Europe's digital cultural heritage

*We transform the world with culture. We build on Europe’s rich cultural heritage and make it easier for people to use for work, learning or pleasure. Our work contributes to an open, knowledgeable and creative society.*
What is Europeana?

- An Open Data platform providing several services
  - Europeana APIs - [https://pro.europeana.eu/resources/apis](https://pro.europeana.eu/resources/apis)
  - Europeana Collections portal - [http://europeana.eu](http://europeana.eu)
- Providing access to over 58 million objects from over 3500 museums, libraries and archives
Explore 58,794,452 artworks, artefacts, books, films and music from European museums, galleries, libraries and archives.
What’s inside Europeana?

- Descriptive and technical metadata
- Thumbnails

As a rule, *digitized content is served on our partners’ websites*

Except for some specific projects
- Newspapers
- User-generated content (e.g. Europeana 1914-1918)
Data flows in Europeana’s network

- **Data providers**: cultural institutions that provide metadata and links to digitized content

- **Aggregators**: organizations or projects that gather data from a specific country or domain (music, fashion, archaeology)
Why does Europeana support IIIF?

Concours de cycles nautiques sur le lac d’Enghien : Berregent piloté par Austerling
Agence de presse Meurisse
1914, National Library of France
France, Public Domain
Why supporting IIIF?

● IIIF can help us fulfill our mission
  We transform the world with culture. We build on Europe’s rich cultural heritage and make it easier for people to use for work, learning or pleasure. Our work contributes to an open, knowledgeable and creative society.

● IIIF allows us to better answer our users’ needs

● We believe that IIIF can help our partners fulfill their missions
What does IIIF bring to Europeana?

- Access rich content in a standardized way
- Promote an open access approach
- Content owners keep serving content, which enables better
  - control
  - provenance
  - attribution
  - visibility

*Good for content providers & re-users (incl. Europeana!)*
IIIF is also a community!

- IIIF Consortium (IIIF-C): over 50 institutions

- The community: almost 1000 individuals from over 130 institutions from many countries and professional backgrounds

https://iiif.io/community/
IIIF is also a community!

Standing functions
- IIIF-C Executive Committee
- IIIF-C Operating Committee
- Coordinating Committee
- Editorial Committee
- Technical Review Committee
- Code of Conduct Committee
- Event Program Committee

Community groups
- Museums
- Manuscripts
- Newspapers
- Software Development
- 3D
- Archives
- Outreach

Technical Specification groups
- Audio/Visual
- Text granularity
- Discovery

Communication channels
- Discussion list
- Slack
- Github
- Regular calls
IIIF is also a community!

- Very active
- Open
- That shares interests with us
- That does not discuss only image services
  - Annotation
  - Discovery,
  - Specific content (newspapers)
  - Linked Data
  ...

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What has Europeana been doing with IIIF?
(Meta)Data

- We have adapted our data ingestion to recognize and specifically process IIIF resources

- With a specific IIIF extension of our Europeana Data Model (EDM)

Sketch model from a discussion on EDM and IIIF at IIIF Ghent meeting.
Glen Robson
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(Meta)Data

Collections providing metadata with our EDM IIIF extension
- University Heidelberg
- University College Dublin
- Swedish National Museum
- eCodices
- Biodiversity Heritage Library
- Manuscriptorium
- National Library of Wales
- National Library of Scotland
- Instituto Centrale per Catalogo Unico (ICCU)

Other collections
- Gallica, Bodleian, ONB, Europeana Newspapers
This 6.5 meter long parchment scroll depicts the history of the world, from Adam and Eve up to Christ, as a "Heilsgeschichte" (history of salvation); central events are illustrated with multicolored pen and ink drawings. Representing later epochs up to the middle of the 14th century, tables list the popes up to Innocent IV (elected in 1352) as well as the kings and emperors up to Charles IV.

St. Gallen, Kantonbibliothek, Vadianische Sammlung, VadS\textit{lg Ms. 1000 : Iohannes de Utino, Compilatio nova super tota biblia e-codices, University of Fribourg - Universitas Friburgensis}

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Viewing and data distribution

- As part of the Europeana Media EC-funded project, the viewer will be expanded to (IIIF) audio-visual content
- We also advertise IIIF resources via our APIs
Europeana Newspapers (1)

- 18 million pages digitized, 10 million pages OCRed
- Hosted by Europeana on a IIIF server

Berlin Börsenzeitung - 1927-07-21

Berliner Börsenzeitung
Staatsbibliothek zu Berlin - Preußischer Kulturbesitz
Public Domain

Europeana Newspapers (2)

- Based on an EDM extension for full-text
- Which re-uses modelling recipes discussed in the IIIF Newspapers Community Group
Community – IIIF side

Europeana is an active member of the IIIF community

- Founding member
- Elected member of IIIF Executive Committee
- Participating/presenting/co-organizing at IIIF events
- Involved in Newspapers and Discovery groups
- Member of the Technical Review Committee
Community – Europeana side

Goal: promote adoption of IIIF in our Network

- Cf Recommendations of Europeana Task Force “Preparing Europeana for IIIF involvement”
- Publications: case studies, blogs, technical papers...

Check some of that on the pages of the EuropeanaTech community: https://pro.europeana.eu/europeana-tech
R&D – metadata aggregation

- Europeana’s data ingestion is based on now old technology (OAI-PMH)
- We want to update it
- Seizing opportunities arising from adoption of IIIF & Linked Data (Schema.org)
- We are especially involved in developing (with) IIIF Discovery specs for finding and updating IIIF resources and accompanying metadata
R&D – metadata aggregation

Data Aggregation Lab
https://github.com/nfreire/data-aggregation-lab
R&D – metadata aggregation

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Conclusions

Why has Europeana invested in IIIF?
● IIIF allows us to better fulfill our mission

What is our investment?
● Ingestion and sharing of links to IIIF resources
● Viewing IIIF content
● Participation in IIIF community
● Promote IIIF adoption in our Network
● R&D for metadata aggregation