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**Project Title: Europeana Version 2**

## **D6.1: Release Report**

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## REVISION HISTORY AND STATEMENT OF ORIGINALITY

### Revision History

Revision No.	Date	Author	Organisation	Description
1.0	22 October 2012	Jan Molendijk	The Europeana Foundation	Release Report

### 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This deliverable contains original unpublished work except where clearly indicated otherwise.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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## **Introduction**

As a rule, in Europeana we now prefer to have frequent small releases in line with the Agile/SCRUM methodology. Over the past months, however, we have worked on one much bigger release, encompassing the Core libraries, the Europeana.eu portal, the Europeana API and the ingestion tools. The reason for this is that all of these components had to be made compliant with EDM, the Europeana Data Model.

In parallel we did make some minor improvements to the existing portal and backend tools, resulting in 9 minor releases. Chapter 1 describes these changes.

Chapter 2 describes the major release making both front-end and back-end EDM-compliant.

## Chapter 1. Minor Releases on the ESE-based production system

Since the beginning of the Europeana V2 project we have deployed 9 minor releases. Most were devoted to small functional improvements and bug fixes, in parallel with the work on rebuilding the Core, establishing a new schema and rebuilding the portal and the ingestion tools.

The biggest observable change has been the change of the ranking algorithm, a result of cooperation between the Europeana team and the ASSETS project. The ranking algorithm implemented is now BNF25, with ranking factors determined based on logfile analysis comparing 'successful' and 'unsuccessful' searches – where successful searches are the ones that lead to a user clicking on an object to visit the data provider's page.

Also considerable effort has been put in improving our Search Engine Optimisation, by improving our site maps and including more pages to be indexed by Google. This has led to a significant increase in the number of pages crawled by Google in May, and again in August, which in turn led to a significant increase in Search Engine traffic, and a boost in traffic overall.

A third area of change has been making the site ready for the release of the metadata under a CC-0 license. This involved creating an opt-out feature to give data providers the option to not include their thumbnails in the API responses, and an overhaul of the static pages related to rights and policies

An overview of the minor releases can be found in the table below:

<b>Version</b>	<b>Type</b>	<b>Date</b>
V1.5.0	Functionality	2011-10-11
V1.5.1	Bug Fixes	2011-10-13
V1.5.2	Bug Fixes	2011-10-21
V1.5.3	Bug Fixes	2011-10-25
V1.5.4	Functionality and Bug Fixes	2011-11-25
V1.5.5	Bug Fixes	2011-11-30
V1.5.6	Bug Fixes	2011-12-05
V1.6.0	Functionality	2012-02-15
V1.6.1	Bug Fixes	2012-02-22
V1.6.2	Bug Fixes	2012-04-18
V1.6.3	Functionality and Bug Fixes	2012-06-25

## D6.1: Europeana Release Report

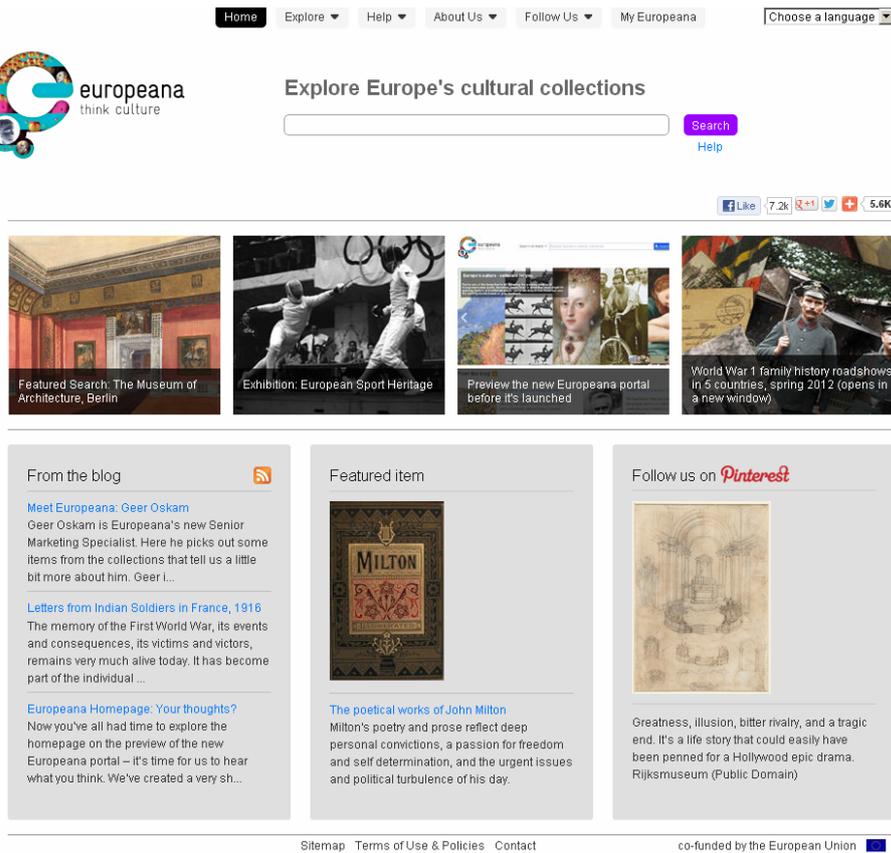


Fig. 1 Current Europeana.eu homepage

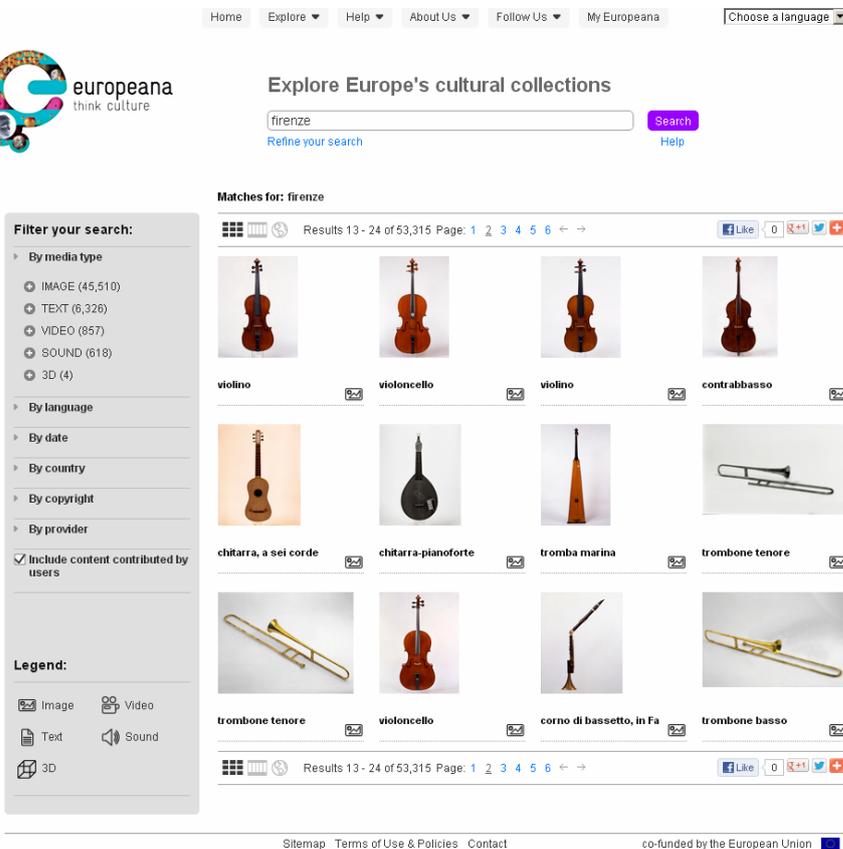


Fig. 2 Current Europeana.eu search results page

## D6.1: Europeana Release Report

The screenshot shows the Europeana website interface. At the top, there is a navigation bar with links for Home, Explore, Help, About Us, Follow Us, My Europeana, and a language selection dropdown. The main header features the Europeana logo and the text "Explore Europe's cultural collections". Below this is a search bar containing the word "firenze" and a "Search" button. A "Return to search results" link is visible on the left, and navigation arrows for "Previous" and "Next" are on the right.

The main content area displays the object details for a "trombone tenore". On the left is a photograph of the instrument with a "View" button and a Creative Commons license icon. The text provides the following information:

- Creator:** Huschauer, Joseph | ▶
- Date:** [1813]
- Geographic coverage:** Firenze ; <http://sws.geonames.org/3176959/>
- Type:** Tenor trombone | ▶ <http://www.mimo-db.eu/instruments/keywords/4368> | ▶ 423.22 Labrosnes with slides | ▶ <http://www.mimo-db.eu/HornbostelAndSachs/356> | ▶
- Description:** Questo trombone a tiro è un tenore in Sib, facente parte di un gruppo di tre strumenti simili ma costruiti in taglie diverse. Il caneggio in ottone è costituito da nove tratti di tubo uniti con ghiera. Molto probabilmente lo strumento era in coppia con l'altro trombone a tiro (Inv. 1988/182), che attualmente risulta tagliato in Reb, ma un evidente intervento di accorciamento fa supporre che si trattasse originariamente
- Data provider:** [Galleria dell'Accademia - Dipartimento degli Strumenti Musicali](#) | ▶
- Provider:** [MIMO - Musical Instrument Museums Online](#) | ▶ [Europe](#) | ▶

Additional features include social media sharing buttons (Facebook Like, Google+, Twitter), a "Translate details" section with a language selector, and a "Cite on Wikipedia" link. A "See more" link is also present. Below the main text is an "Explore further!" section with a "Similar content" search bar and a carousel of five related instrument images.

At the bottom of the page, there is a footer with links for Sitemap, Terms of Use & Policies, and Contact, along with the text "co-funded by the European Union" and the European Union flag.

Fig. 3 Current Europeana.eu object page

## Chapter 2. Major Release EDM-based Europeana

Next to the changes described above, the Europeana development team has been working on the complete overhaul of both the front-end and back-end systems. This has resulted in a release on 19<sup>th</sup> of October to a preview environment. There we will test and evaluate the changes, and invite the Europeana Network to do the same, and provide us with feedback. The aim is to release this version to the full production environment after a 6 to 8 week testing period.

The main elements of the release are the following:

On the portal side:

- responsive design – mobile first
- make the site more visually appealing
- make the site more ‘sticky’
- technological clean-up: remove the Freemarket templates

On the API:

- implement new API, EDM based
- implement API console
- create automated sign-up procedure
- make API1 generate ESE-based responses from an EDM-based core

On the Ingestion Tools:

- implementation of UIM
- integration of REPOX
- updating MINT to be able to map EDM
- integration of MINT

These will be described in more detail in the following sections.

## 2.1 Europeana Portal Changes

One of the biggest visible changes to the portal has been the adoption of **responsive design**: with one website we now serve all screen sizes: mobile, tablets, desktops. Based on media queries we serve specially optimized graphics to mobile (typically low-bandwidth) and tablet clients.

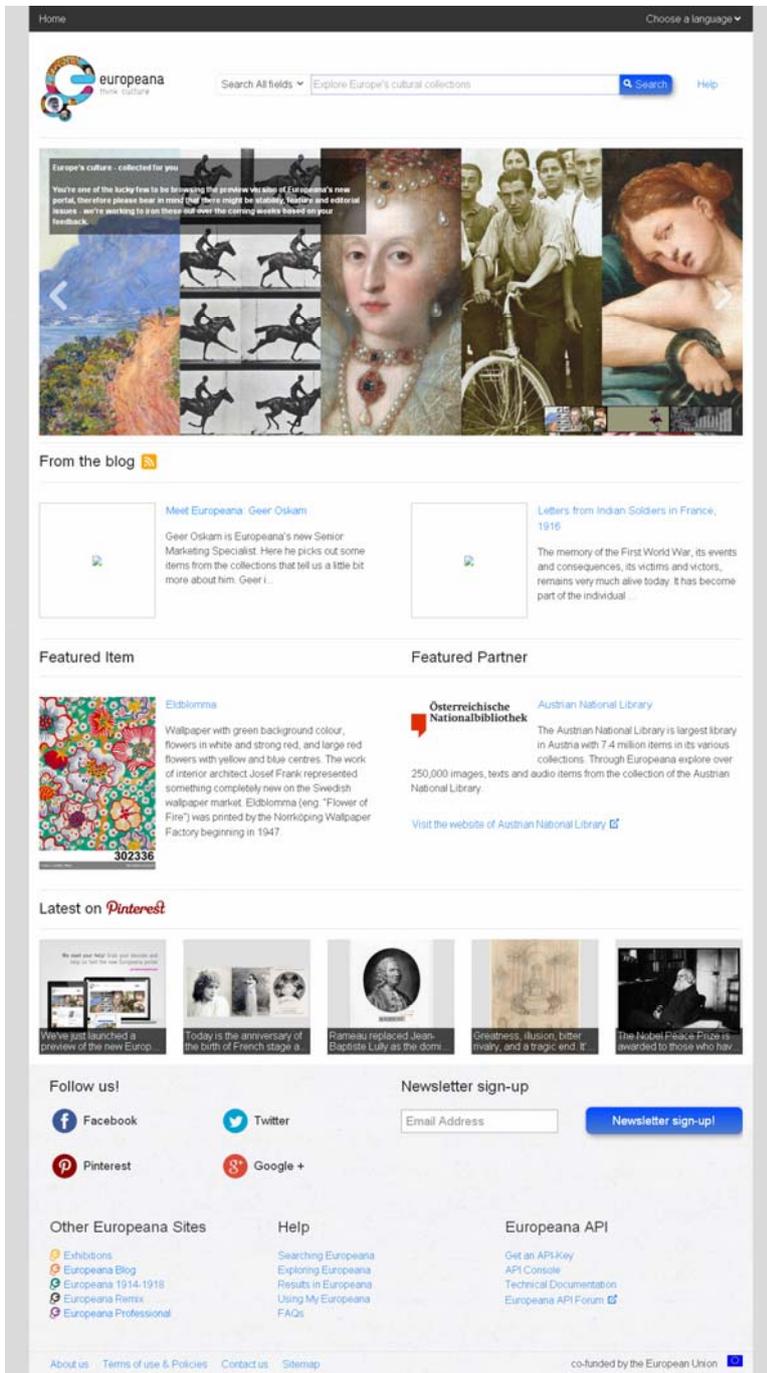


Fig. 4a - preview.europeana.eu – desktop view

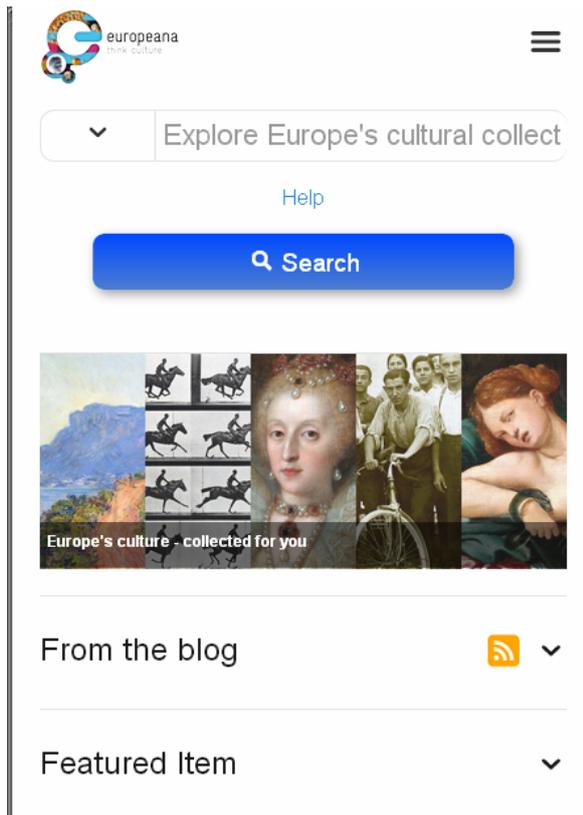


Fig. 4a - preview.europeana.eu – mobile view

This helps make the site **more visually appealing**, as does the use of more and larger graphics where possible. User research indicated that people love to click on images, rather than on text links, and now the content and sections we want to push are reachable through image links. We now highlight more content, exhibitions and featured providers. Also we show visually appealing content from Europeana that was posted on Pinterest.

Taking advantage of the more and more prevalent higher bandwidths, we now present 24 results per page by default, with the option to increase that to 96. We have also rearranged the faceted search to make the divisions and search refinements more logical.

## D6.1: Europeana Release Report

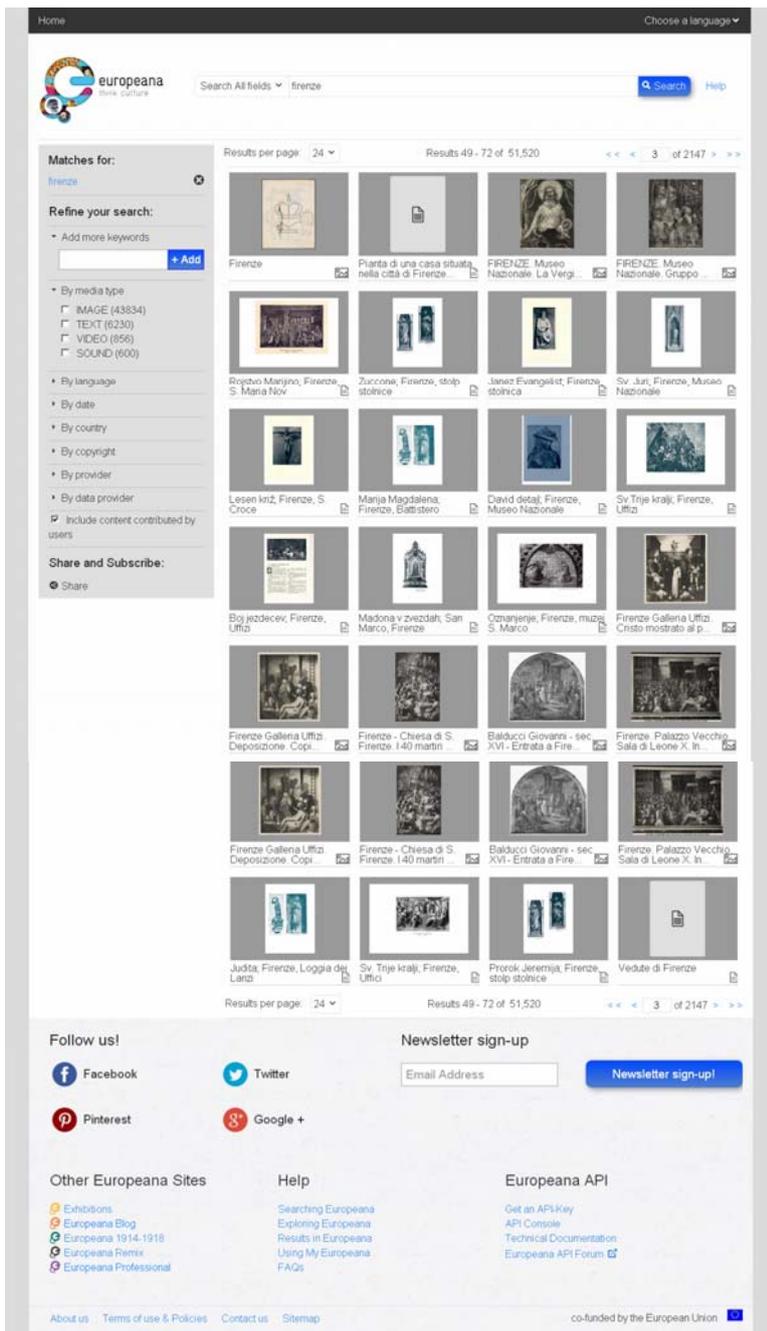


Fig. 5 – preview.europeana.eu search results page, desktop version

Because now more than half the Europeana visitors come in directly through one of the search engines, it has become important to **make the site more 'sticky'**. We already started doing this in the 'old portal', but have taken this further. This is most urgent on the object page: if users come in here directly from Google or Bing, they need to understand the available ways to further explore the Europeana collections.

## D6.1: Europeana Release Report

The screenshot shows the desktop version of the Europeana website. At the top, there is a navigation bar with 'Home' and 'Choose a language'. The Europeana logo is on the left, and a search bar with 'firenze' is in the center. Below the search bar, there are links for 'Return to search results', 'Previous', and 'Next'. The main content area features a large image of the painting 'La Vergine col figlio' by Giotto. To the right of the image, the title 'FIRENZE. Museo Nazionale. La Vergine col figlio. Maestro giottesco' is displayed. Below the title, there is a list of metadata including Creator, Contributor, Coverage, Date, Format, Subject, Identifier, Rights, Provenance, Source, Provider, and Providing country. To the left of the image, there are social media sharing options and a 'Translate details' section. Below the main content, there is a 'Similar content' section with six small thumbnail images of related artworks. At the bottom, there are sections for 'Follow us!' with social media icons for Facebook, Twitter, Pinterest, and Google+, and a 'Newsletter sign-up' form. The footer contains links for 'About us', 'Terms of use & Policies', 'Contact us', 'Sitemap', and 'co-funded by the European Union'.

The screenshot shows the mobile version of the Europeana website. The layout is simplified, with the Europeana logo at the top left and a search bar in the center. The search bar contains the text 'firenze'. Below the search bar, there is a 'Help' link and a blue 'Search' button. The main content area displays the title 'FIRENZE. Museo Nazionale. La Vergine col figlio. Maestro giottesco' and a large image of the painting 'La Vergine col figlio' by Giotto. The mobile view is designed for a smaller screen, with a hamburger menu icon in the top right corner.

Fig 6a and 6b – preview.europeana.eu object page, desktop view and mobile view

## D6.1: Europeana Release Report

In addition we have done a much-needed technological clean-up: we have removed the Freemarker templates, thereby simplifying the rendering of the HTML pages and keeping more of the business on the server, and the rendering details solely in css and javascript.

Last but not least the whole site was adapted to use EDM based metadata, preparing for the added richness of expression that EDM offers over ESE metadata. Areas where this will be visible is objects that have more than one media file (image) associated with them, and a better display for hierarchical objects.

## 2.2 Europeana API Changes

The Europeana API is gaining in importance as a means to give access to digitised cultural heritage. Therefore the API has been adapted to deal with and return EDM based metadata, to be more easily managed (signup forms, statistics etc.) and to be better secured by adding http login security and avoiding using the API key as a URL parameter.

The existing API will be maintained in a backwards compatibility mode for current API users for at least 18 months. For this a 'back-translation' from EDM to ESE has been developed.

To support developers an API console was developed showing API queries and the responses they generate. The screenshot below gives an impression.

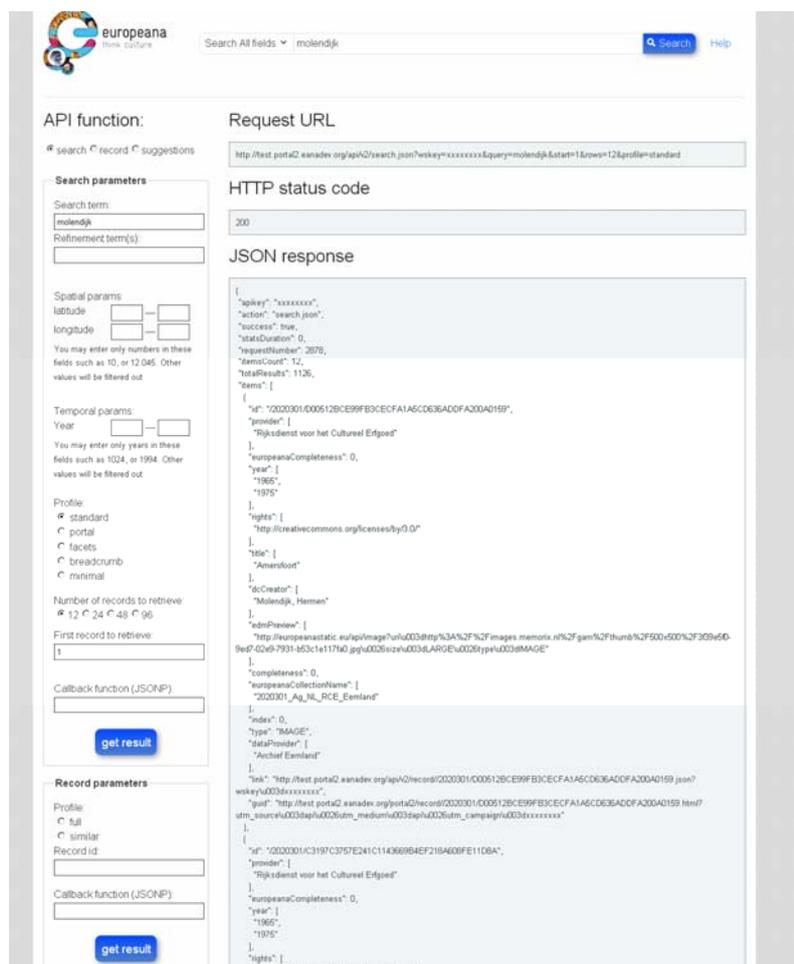


Fig. 7 – API2 console

## 2.3 Ingestion Tool Changes

In order to be able to harvest, map, validate, ingest, and index EDM records, a whole new ingestion workflow has been created. Where possible we have used existing tools, either integratig or adapting them to work together as seamless as possible.

The tools we now use are:

UIM – United Ingestion Manager, based on a joint implementation between Europeana and The European Library with input from the ASSETS project.

REPOX – OAI-PMH harvested, created by IST in Portugal and developed through many European projects

MINT – metadata mapping tool, created by NTUA (national Technological University of Athens) in Greece, developed through several European an national projects.

AnnoCultur – semantic enrichment tool

Also a dedicated interface was created to SugarCRM, the system where Europeana stores information about data providers and their collections (datasets).

Getting all of these tools to work together under the direction if the UIM has proved challenging and we are currently fleshing out the last remaining stability issues. The result is an integrated workflow that gives full control to the Europeana operations team.

The screenshots below illustrate some of that workflow.

The screenshot shows the 'Import Resources' section of the Europeana Ingestion Control Panel. It features a search criteria box and a table of resource ingestion records.

**Search Criteria:**

- DataSet Name: 01%
- SugarCRM Status: -

**Table of Resource Ingestion Records:**

State:	DataSet Name:	Organization:	Co	SugarCRM Status:	Amount of ingested items:	Expected Ingestion Date:	User:
<input type="checkbox"/>	<input checked="" type="checkbox"/> <a href="#">01203_L_FI_SwedishLiteratureSociety_sparatalet</a>	Svenska litteratursällskapet i Finland	FI	Ingestion complete	177		Francesca Morselli
<input type="checkbox"/>	<input checked="" type="checkbox"/> <a href="#">01904_L_SI_NUK_bell-of-ljubljana_tel</a>	Narodna in univerzitetna knjižnica	SI	Disabled and Replaced	11311		Francesca Morselli
<input type="checkbox"/>	<input checked="" type="checkbox"/> <a href="#">01201_L_FI_SwedishLiteratureSociety_stensbole</a>	Svenska litteratursällskapet i Finland	FI	Ingestion complete	37		Francesca Morselli
<input type="checkbox"/>	<input checked="" type="checkbox"/> <a href="#">01905_L_SI_NUK_new-chords_tel</a>	Narodna in univerzitetna knjižnica	SI	Disabled and Replaced	1549		Francesca Morselli
<input type="checkbox"/>	<input checked="" type="checkbox"/> <a href="#">01202_L_FI_SwedishLiteratureSociety_edelfeltmjl</a>	Svenska litteratursällskapet i Finland	FI	Ingestion complete	2676		Francesca Morselli
<input type="checkbox"/>	<input checked="" type="checkbox"/> <a href="#">01906_L_SI_NUK_new-music_tel</a>	Narodna in univerzitetna knjižnica	SI	Disabled and Replaced	160		Francesca Morselli

# D6.1: Europeana Release Report

Europeana Ingestion Control Panel

**Monitoring**

- Active Ingestions
- Finished Ingestions

**Managing**

- Start Ingestion
- Manage Resources

**Validation**

- Ingested Metadata Preview
- Failed Records Report

**Link Checker/Thumbnail**

- Link Validation
- Link Caching

**Importing**

- Import Resources
- Import Controlled Vocabulary
- Import Collection

### Finished Ingestions

This view shows all finished ingestion activities!

ID	Name	Dataset	Start Time	End Time	CF	Sche./Fail./Comp.	Cre./Upd./Del.	Log
50a07914675b0e	D: Dereference Collection/2021701	2021701_Ag_CY_hdl_10797_266	12.11.2012 at 14:20:01	12.11.2012 at 14:20:03	<input type="checkbox"/>	21/2/0	//	<a href="#">Log</a>
509b96e74678b0e	B: Import Repox data into Mint/09102	09102_Ag_EU_MIMO_ESE	08.11.2012 at 16:58:35	08.11.2012 at 16:58:35	<input type="checkbox"/>	0/0/0	//	<a href="#">Log</a>
509b0674678b0e	C: (Re)Import Data from Mint Mapping Tool/2021701	2021701_Ag_CY_hdl_10797_266	08.11.2012 at 16:57:51	08.11.2012 at 16:57:53	<input type="checkbox"/>	21/0/21	//	<a href="#">Log</a>
509b06764678b0e	C: (Re)Import Data from Mint Mapping Tool/2021701	2021701_Ag_CY_hdl_10797_266	08.11.2012 at 16:57:42	08.11.2012 at 16:57:43	<input type="checkbox"/>	21/0/21	//	<a href="#">Log</a>
509b9a2c4678b0e	B: Import Repox data into Mint/2021701	2021701_Ag_CY_hdl_10797_266	08.11.2012 at 14:57:00	08.11.2012 at 14:57:02	<input type="checkbox"/>	0/0/0	//	<a href="#">Log</a>
508e4da04675b0e	C: (Re)Import Data from Mint Mapping Tool/09495	09495_Ag_ES_Iaramendi	29.10.2012 at 10:34:24	29.10.2012 at 10:36:22	<input type="checkbox"/>	3070/0/3070	//	<a href="#">Log</a>
50800660b027b0e	F: Link Validation/2022012	2022012_Ag_EU_HOPE_SSA	24.10.2012 at 17:16:48	24.10.2012 at 17:16:52	<input type="checkbox"/>	93/0/93	//	<a href="#">Log</a>
508001f4b0f5b0e	C: (Re)Import Data from Mint Mapping Tool/2022013	2022013_Ag_EU_HOPE_CGIL	24.10.2012 at 16:58:05	24.10.2012 at 17:07:02	<input type="checkbox"/>	369/0/369	//	<a href="#">Log</a>
50800954b0f5b0e	E: Enrich Collection/2022012	2022012_Ag_EU_HOPE_SSA	24.10.2012 at 17:04:52	24.10.2012 at 17:05:00	<input type="checkbox"/>	93/0/93	//	<a href="#">Log</a>
508000504b0f5b0e	D: Dereference Collection/2022012	2022012_Ag_EU_HOPE_SSA	24.10.2012 at 17:03:47	24.10.2012 at 17:03:54	<input type="checkbox"/>	93/1/92	//	<a href="#">Log</a>
5087f7f4e30b0e	C: (Re)Import Data from Mint Mapping Tool/2022013	2022013_Ag_EU_HOPE_CGIL	24.10.2012 at 16:47:27	24.10.2012 at 16:50:44	<input type="checkbox"/>	0/0/0	//	<a href="#">Log</a>
5087f6a6ae30b0e	B: Import Repox data into Mint/2022012	2022013_Ag_EU_HOPE_CGIL	24.10.2012 at 16:39:34	24.10.2012 at 16:39:35	<input type="checkbox"/>	0/0/0	//	<a href="#">Log</a>
5087f683ae30b0e	A: Harvest Remote Repox Datasource/2022013	2022013_Ag_EU_HOPE_CGIL	24.10.2012 at 16:38:59	24.10.2012 at 16:38:10	<input type="checkbox"/>	0/0/0	//	<a href="#">Log</a>
5087c78ae30b0e	A: Harvest Remote Repox Datasource/2022013	2022013_Ag_EU_HOPE_CGIL	24.10.2012 at 16:34:32	24.10.2012 at 16:34:38	<input type="checkbox"/>	0/0/0	//	<a href="#">Log</a>
5086b78bae30b0e	C: (Re)Import Data from Mint Mapping Tool/2022012	2022012_Ag_EU_HOPE_SSA	22.10.2012 at 17:28:11	22.10.2012 at 17:28:47	<input type="checkbox"/>	93/0/93	//	<a href="#">Log</a>

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Europeana Ingestion Control Panel

**Monitoring**

- Active Ingestions
- Finished Ingestions

**Managing**

- Start Ingestion
- Manage Resources

**Validation**

- Ingested Metadata Preview
- Failed Records Report

**Link Checker/Thumbnail**

- Link Validation
- Link Caching

**Importing**

- Import Resources
- Import Controlled Vocabulary
- Import Collection

### Start Ingestion

This view allows selecting a provider, a collection, a workflow and optionally adjusted resources to start a new ingestion activity!

Resource Name	Resource Value	Update	Update
batch.subset.head		<a href="#">Value</a>	<a href="#">File</a>
batch.subset.shuffle		<a href="#">Value</a>	<a href="#">File</a>
batch.shuffle		<a href="#">Value</a>	<a href="#">File</a>
collection.only.lastrequest		<a href="#">Value</a>	<a href="#">File</a>
collection.from.request.dat		<a href="#">Value</a>	<a href="#">File</a>
reprox.fullingest		<a href="#">Value</a>	<a href="#">File</a>

**Ingestion Activity Settings**

**Name:** B: Import Repox data into Mint/15505

**Provider:** Kulturpool

**Collection:** 15505\_Ag\_AT\_Kulturpool\_bnoe

**Workflow:** B: Import Repox data into Mint

**Commandline:** bin:exec -o start MintImportWorkflow 15505

[Commit](#) [Cancel](#)

## D6.1: Europeana Release Report

The screenshot displays the Europeana Ingestion Control Panel. The main content area is titled "Manage Resources" and contains a list of resources. The resources are organized into columns, with the first column listing IDs (A through XT) and the second column listing names (e.g., HOPE, Europeana Local Austria, Kulturpool). The third column shows the country code (e.g., at, eu, fr, pt, ro). To the right of the list, there is a detailed view for a resource with ID "20220". This view includes tabs for "Resource Info", "SugarCRM", "RepoX", "Resource Properties", and "Resource Attributes". The "Resource Info" tab is active, showing the following details:

- Type: COLLECTION
- Name: 20220
- Description:
- Processing Phase: OAI-PMH testing
- Metadata Format: edm
- Is Collection Deleted: 0
- Is Collection Published: 1

Below the resource info, there is an "Integration Status" section with the following indicators:

- SugarCRM: ✔
- RepoX: ✔
- Mint: ✘

Fig. 8 – UIM screenshots