



INDIGO - DataCloud
Better Software for Better Science

MuseiD-Italia use case for INDIGO – DataCloud

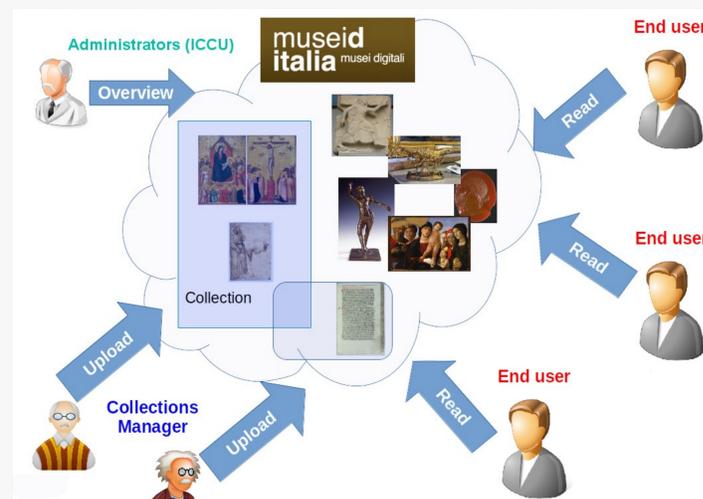
ISTITUTO CENTRALE PER IL CATALOGO UNICO (ICCU)

MuseiD-Italia (MDI) is a digital library devoted to museums and their digital collections, integrated in CulturalItalia, the Italian portal of culture, which serves also as national aggregator for Europeana.

MuseiD-Italia collects and manages three different types of content:

- **descriptions of places of cultural interests** such as museums, monuments, historical gardens, churches, archaeological sites and other cultural sites, acquired from the Ministry-run Italian National Registry;
- **descriptions of museum collections**, acquired through direct communication with partners or through other online repositories;
- **digital objects** such as images and videos, in different formats and resolution scales.

As of September 2016, MDI contains **6,500+ cultural sites descriptions** and **95,000+ digital objects**, organised in 449 digital collections. The database size is around 300 GB, with a growth estimate of other 200 GB.



The goal of this use case

Our case study will explore the integration of the current MDI workflow with INDIGO solutions, to significantly reduce the amount of manual work, while continuing to keep supervision and roll-back rights to preserve data quality.

Currently, the workflow allows every Cultural institution who has already digitised cultural objects to create its own collection(s) in MDI format, by using two different softwares, provided by MDI: the “**METS generator**,” that collects and organises objects into “METS packages”; and the “**METS validator**,” that checks for the package compliance to MDI standards. Validated packages are then sent to ICCU and imported through FTP to our central Fedora-based repository, called “**METSTeca**.”

The main challenge that MuseiD-Italia faces lies in the *high fragmentation* and in the existing difficulties of communication and inter-operability of databases. As of now, this results in data collection, generation, and upload phases that must be *directly executed*, and not just supervised, by dedicated people at ICCU. Moreover, correction and/or modification of descriptive metadata is also a task that must be executed by ICCU, since all of the digital materials descriptions are embedded in the “data packages.”

Our solution is to move to a **server-based, on-line repository, provided by OneData**, which can be accessed by all MDI partners through *federated access*. All institutions can access to the cloud environment and upload and manage their own collections of digital objects. This allows partners to keep control of their collections and to certify their quality, as well as allowing ICCU to keep supervision rights on the whole process.



ONE DATA

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