

# e-lis Valencia 2018

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*e-prints in library &  
information science*  
**15th Anniversary**

# On the background

- Between the 4th and 7th of May 2017 **e-lis** migrated to a new host at **Center for Libraries “R. Pettorino”**
- The consistency of packages was at that moment:
  - Files (code,config and documents): 29GB
  - Database: 23GB
  - Total: a 52GB archive

# ...toward zenodo

- Just after migration we had to solve the problem of integrating RESEARCH DATA.

What we had to expect:

- Big files
- Different formats to manage:  
compressed/uncompressed, csv, json, xml, or even formats associated to a specific software (eg Geo-spatial or chemical data)
- They had to be OAI-PMH and OpenAire compliant

# Thinking for in-house solution

- Create a new instance/extend the existing one of our software: e-Prints ( <http://www.eprints.org/uk/> )
- This option has been discarded because:
  - 1) the e-prints code faces its time: manage the actual code to obtain a full OpenAire compliance seems not possible unless a strong revision of its core scripts, the same problem exists if you want to obtain an HTML5 compliant output (This creates severe limitations for usability on any device that's not a desktop pc)
  - 2) e-prints is moving to a different business model: free software/pay support. They have their reasons, a *tout-cout* free-software business model is not always sustainable, but this had strong implications on code updates: eg at the state of art doesn't exist an official plug-in for OpenAire Level 3 compliance, and it isn't in any roadmap; eg it hasn't be released any plug-in for GDPR compatibility.
  - 3) we are a small Center and we don't have the assets to store files in the order of TB/PB, as needed by this kind of DATA

# Looking at the cloud

- So another option has arisen:

One of the major software for Open Archives is released by CERN:

## **INVENIO**

a latin word

meaning

*I discover*



<https://invenio-software.org>

<https://github.com/inveniosoftware/invenio>

# Looking at the cloud

- INVENIO has a front-end built on top of it, released AAS (as a service):

ZENODO



- OAI-PMH & OpenAire compliant
- a PUBLIC and TRUSTED project
- OPEN SOURCE
- supports every type of file or package up to 50GB
- supports communities (very basic early stage of management)
- releases a DOI
- loves GitHub

# zenodo



Moreover... by choosing it: we don't have to install anything, we don't have to follow different releases, libraries or OS versions

Then ... zenodo roadmap plans an extended REST API

... so we can build just dedicated front-end without care of back-end management.



# zenodo

Our Occam's razor was:

- Build a community on zenodo
  - [https://zenodo.org/communities/elis\\_data](https://zenodo.org/communities/elis_data)
- Connect e-lis repo items with a technology that has roots in the dawn of WWW, a simple, common, unique:

**WEB URL**

# ...and beyond?

- Open a dialogue with CERN and zenodo team to improve its features.
- Organizations, institutions or private initiatives involved in Open Access could join forces to support at least:
  - the development of a plug-in that connect e-prints with a zenodo community (or a single user)
  - the development of zenodo code to improve the *Communities management*