

Datasets of IPERION CH

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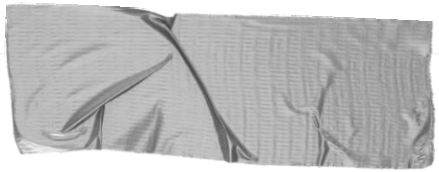


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Datasets of IPERION CH

Laurent Romary et Marie Puren, Inria (Alpage)

Avec l'aide de Loic Bertrand, Susanna Holowati, Sophie David,Ipanema



Intro

IPERION CH : a European project for Cultural Heritage

Data management survey

- ➔ 2 questionnaires
- ➔ Analysing datasets of IPERION CH
- ➔ Digital data
- ➔ Licensing

IPERION CH

Integrated **P**latform for the **E**uropean **R**esearch **I**nfrastructure ON **C**ultural **H**eritage

For more information :
http://www.iperionch.eu/home

Establishing

a unique European research infrastructure for restoration and conservation of Cultural Heritage

Horizon 2020 – Work Programme 2014-2015 for European research infrastructures

- 23 partners : Europe + USA (Getty Institut)
- National facilities of excellence
- Access to scientific instruments, methodologies, data and tools for the preservation of Cultural Heritage.
- Connecting researchers in the Humanities and Natural Sciences
- Trans-National Access

European partners



Map available with Dariah Geo-Browser

Facilities



Map available with [Dariah Geo-Browser]

Integrated trans-national access platforms :

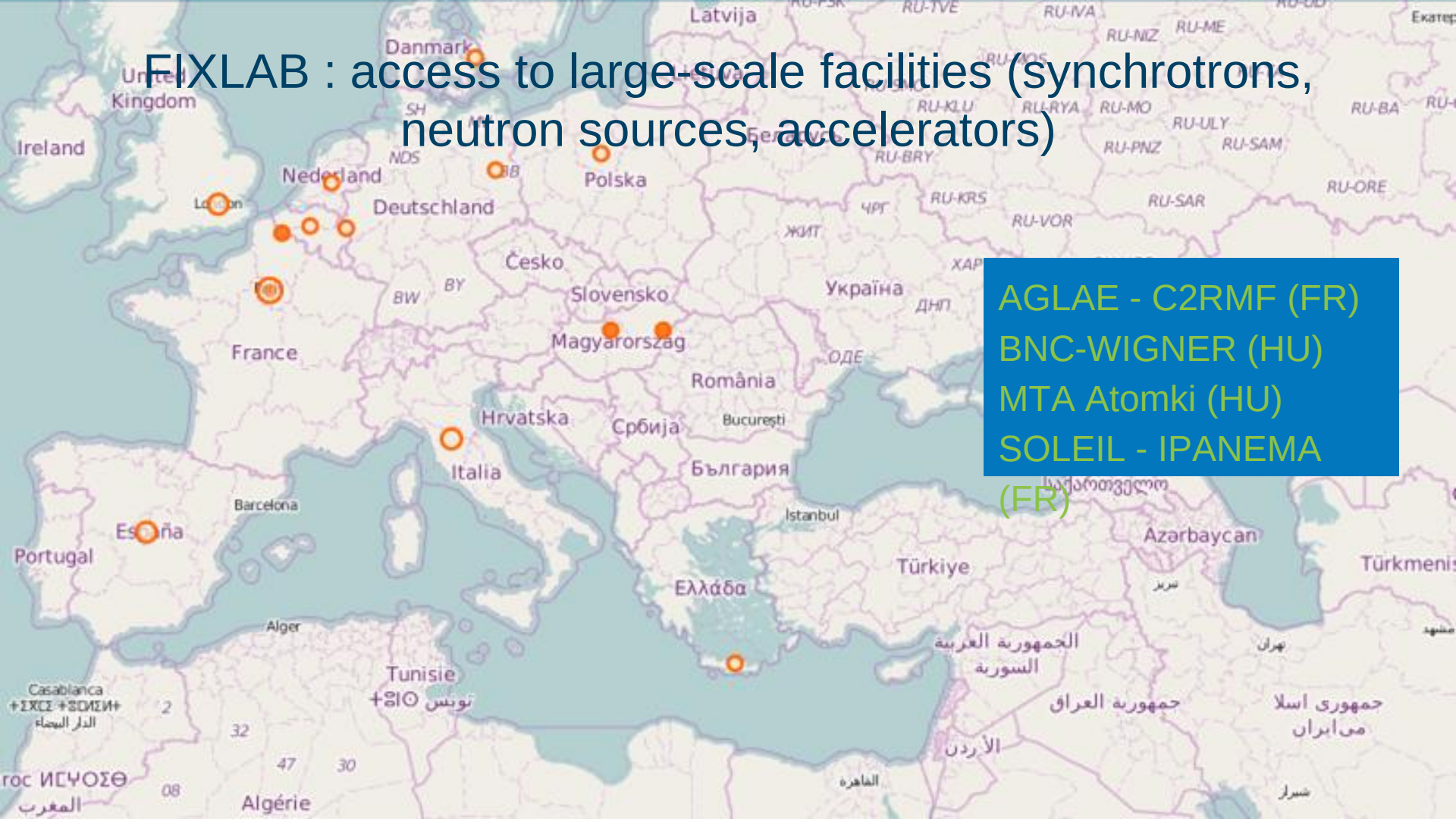
- ❏ Making scientific tools and knowledge available to Heritage scientists
- ❏ 3 platforms :
  - ARCHLAB
  - FIXLAB
  - MOLAB
- ❏ 19 facilities

ARCHLAB : access to scientific information in archives, European museums, galleries, research institutions

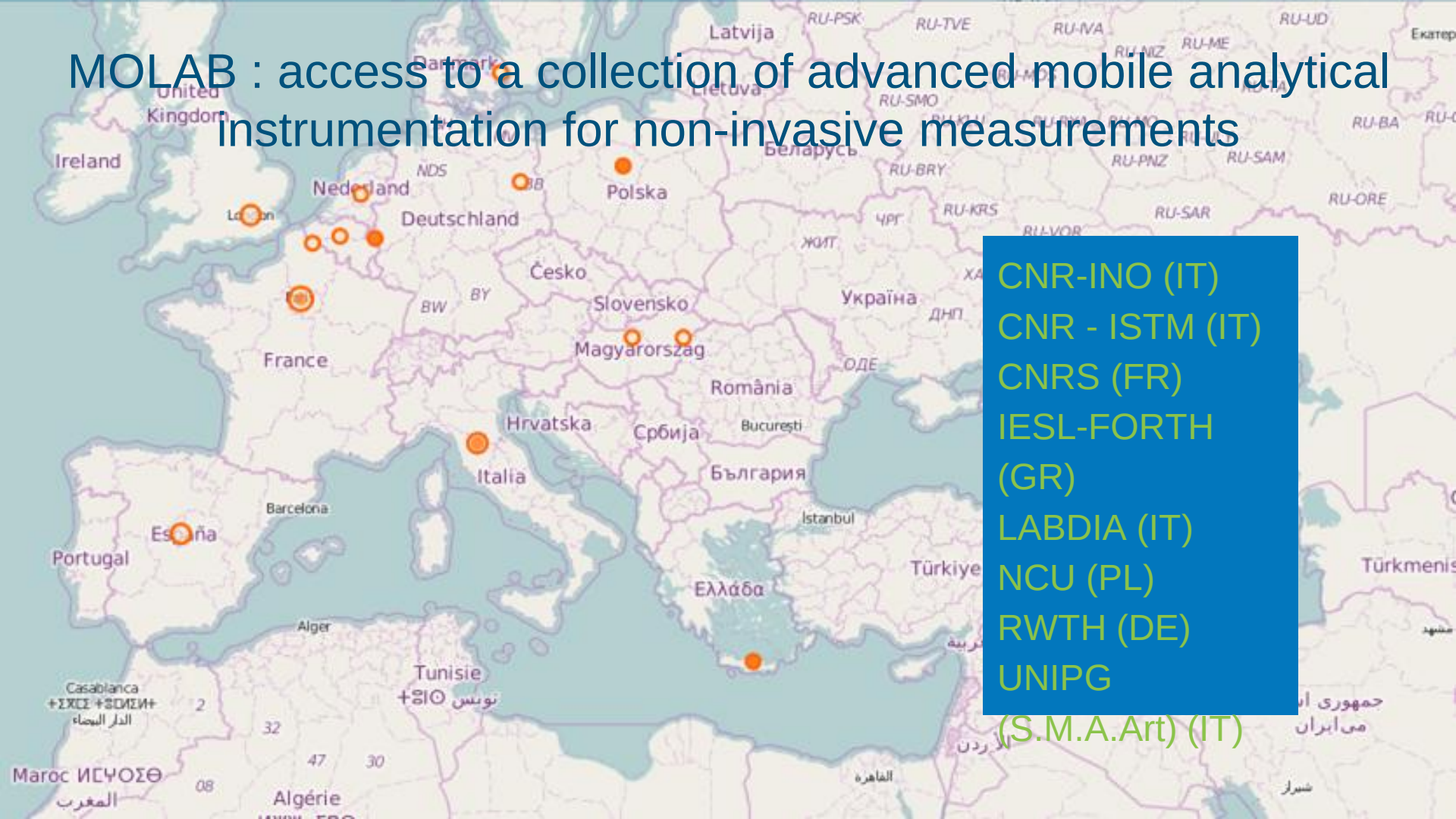


utors
ributors, CC-BY-SA

FIXLAB : access to large-scale facilities (synchrotrons, neutron sources, accelerators)



MOLAB : access to a collection of advanced mobile analytical instrumentation for non-invasive measurements



Data management survey:

- ❑ 2 questionnaires :
  - 1st : “IPERION CH data management survey for facilities”
  - 2nd : “Questionnaire on data sets of IPERION CH”
- ❑ Results :
- 78 homogenous datasets (1st questionnaire)
- 56 precisely described datasets (2nd questionnaire)



3 platforms

19 facilities

Data production
Analysed materials

Paintings
Pigments
Painttubes
Dyestuffs

Sculptures

Stones (natural, synthetic)

Writing instruments
Ink



Archeological materials

Photographic negatives and positives

Paleontological remains

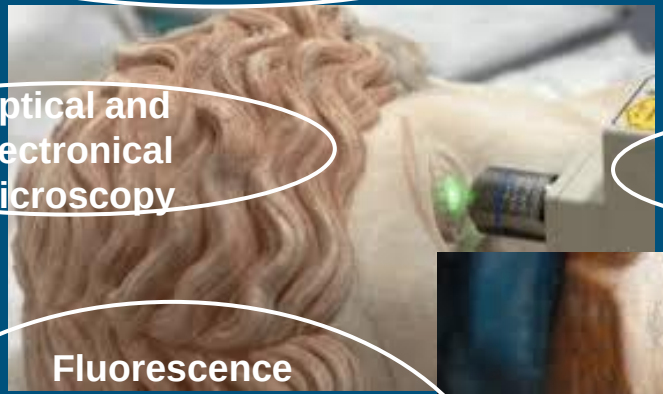
Graphical documents

Textiles

Data production
Methods : examples

Radiocarbon dating

Accelerator mass spectrometry



Optical and electronical microscopy

Tomography



Synchrotron radiation



X-radiography

Fluorescence spectroscopy
Fourier transform infrared spectroscopy (FTIR)
Raman spectroscopy
Terahertz time-domain spectroscopy (THz-TDS)

Chromatography

Infrared reflectography

X-ray fluorescence

Data types

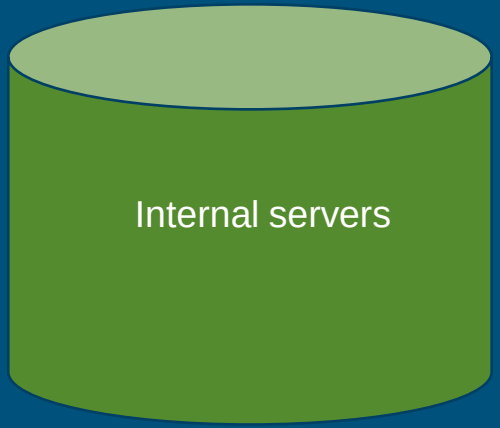
- Digital data except :
  - “Reports and grey literature collection” (C2RMF)
  - “Imaging collection” (C2RMF)
- Various formats :

Closed formats for images and raw data (analyses results)

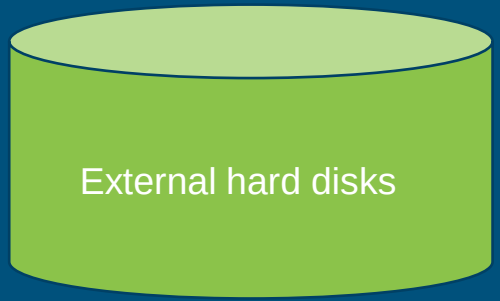
Open formats for texts and sounds

Data hosting

1st solution



2nd solution



Other solutions



Data access

- Data producer = data owner
- Data only available on demand
- No embargo except if a scientific publication is scheduled

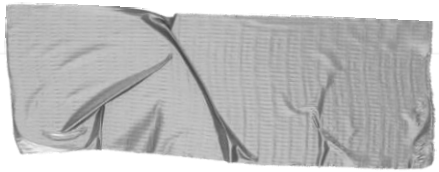


Complying with copyrights and intellectual property

Data licensing

- No license!
- Only one facility : Royal Institute for Cultural Heritage (BE) uses a licence **Creative Commons 3.0 by-nc-nd** for one dataset
- 2 facilities are thinking about licensing their datasets:
  - AGLAE-C2RMF (FR) for “Digital reports and grey literature” and “Digital imaging”
  - CATS (DK) for “CATS Reference Collection Database and Digital Documentation”
- Mutual agreements are preferred





Conclusion

19 facilities

78 homogenous datasets

Various materials and analyses methods

- Closed formats for raw data
- No licenses