



Datasets of IPERION CH

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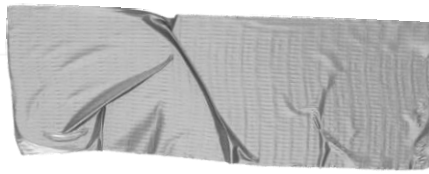


Datasets of IPERION CH

Laurent Romary et Marie Puren, Inria (Alpage)

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



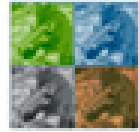


Intro

IPERION CH : a European project for
Cultural Heritage

Data management survey

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



IPERION CH

Integrated Platform for the European Research Infrastructure ON Cultural Heritage

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

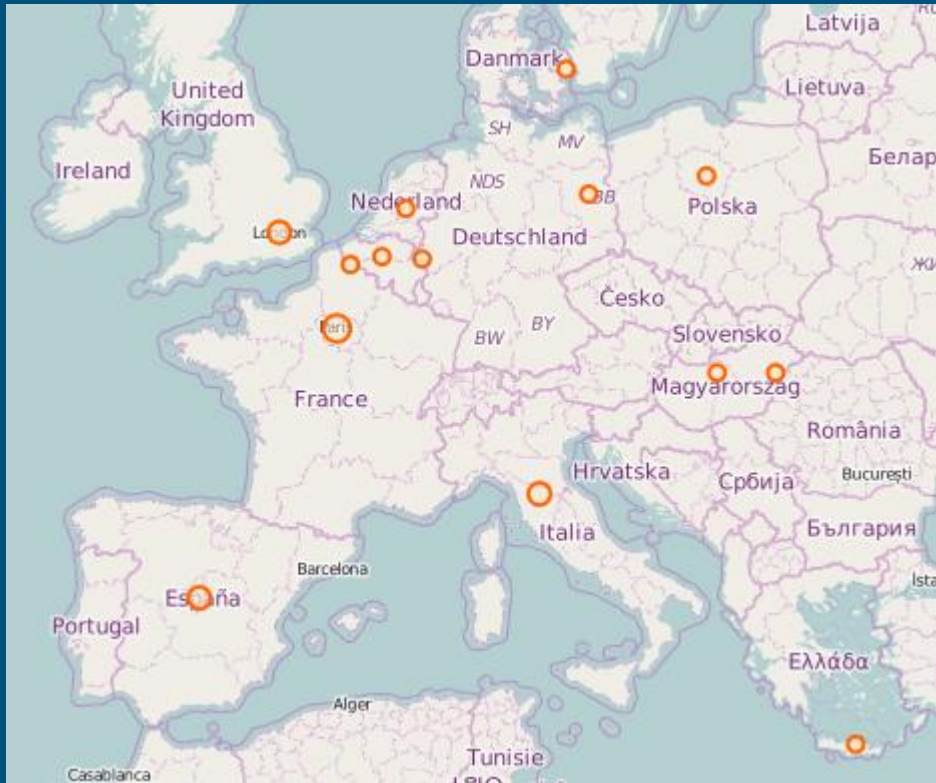
- ❑ 23 partners : Europe + USA
(Getty Institut)
- ❑ National facilities of excellence
- ❑ Access to scientific instruments,
methodologies, data and tools for
the preservation of Cultural
Heritage.
- ❑ Connecting researchers in the
Humanities and Natural Sciences
- ❑ Trans-National Access

European partners



Map available with [Dariah Geo-Browser](#)

Facilities



Integrated trans-national access platforms :

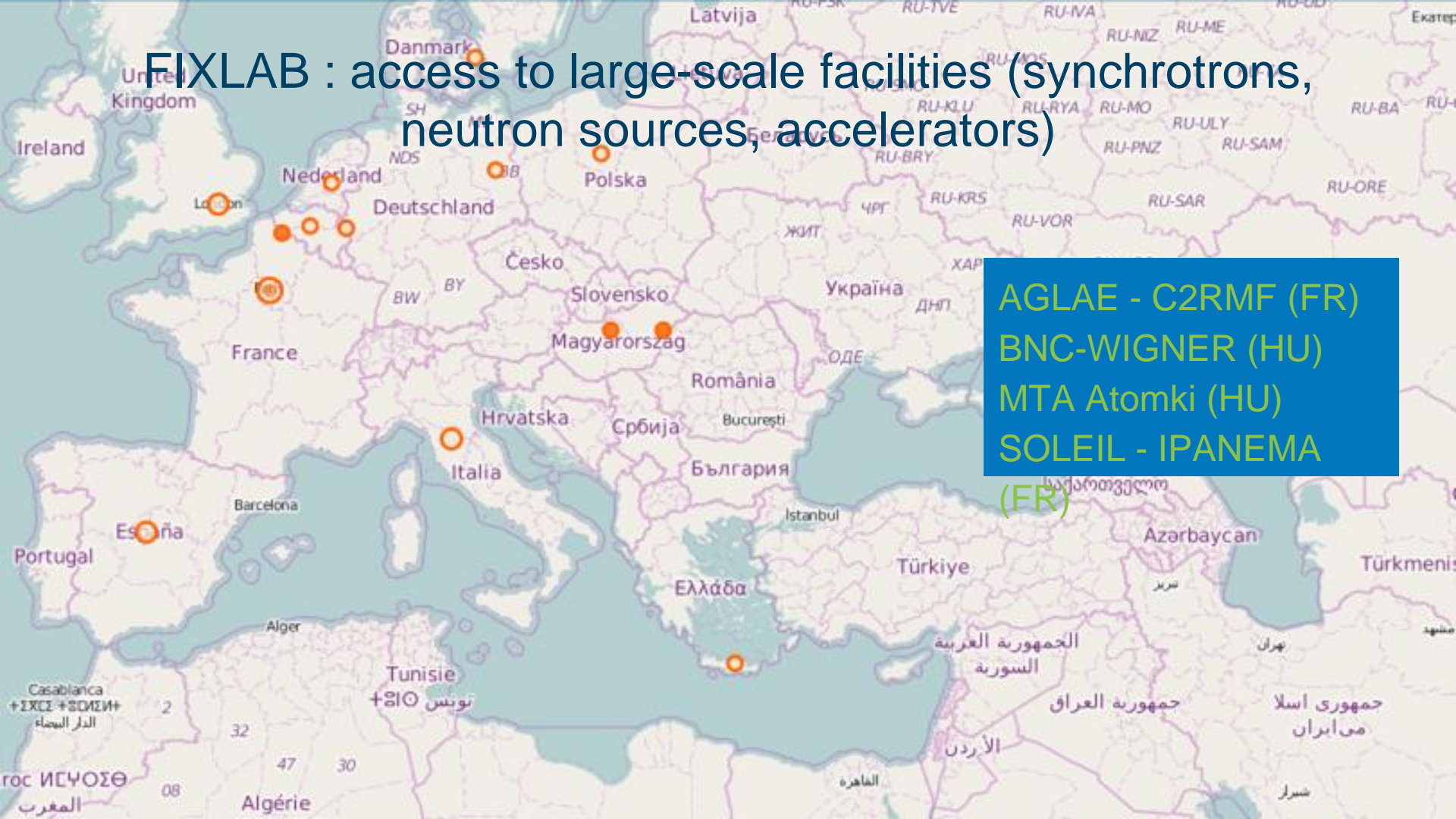
- ❑ Making scientific tools and knowledge available to Heritage scientists
- ❑ 3 platforms :
 - ARCHLAB
 - FIXLAB
 - MOLAB
- ❑ 19 facilities

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

BM (UK)
C2RMF (FR)
CATS (DK)
IPCE (ES)
KIK-IRPA (BE)
NG (UK)
OPD (IT)
PRADO (ES)
RCE (NL)
SPK (DE)

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

AGLAE - C2RMF (FR)
BNC-WIGNER (HU)
MTA Atomki (HU)
SOLEIL - IPANEMA
(FR)



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



A map of Europe and the Mediterranean region with orange dots indicating the locations of MOLAB facilities. The dots are located in the following countries: Spain (Barcelona), France (Paris), Germany (Munich), Netherlands (Amsterdam), Poland (Warsaw), Czech Republic (Prague), Slovakia (Bratislava), Hungary (Budapest), Italy (Rome), Greece (Athens), and Turkey (Istanbul). A blue box on the right side of the map contains a list of the facilities and their respective countries.

- CNR-INO (IT)
- CNR - ISTM (IT)
- CNRS (FR)
- IESL-FORTH (GR)
- LABDIA (IT)
- NCU (PL)
- RWTH (DE)
- UNIPG (S.M.A.Art) (IT)

Data management survey:

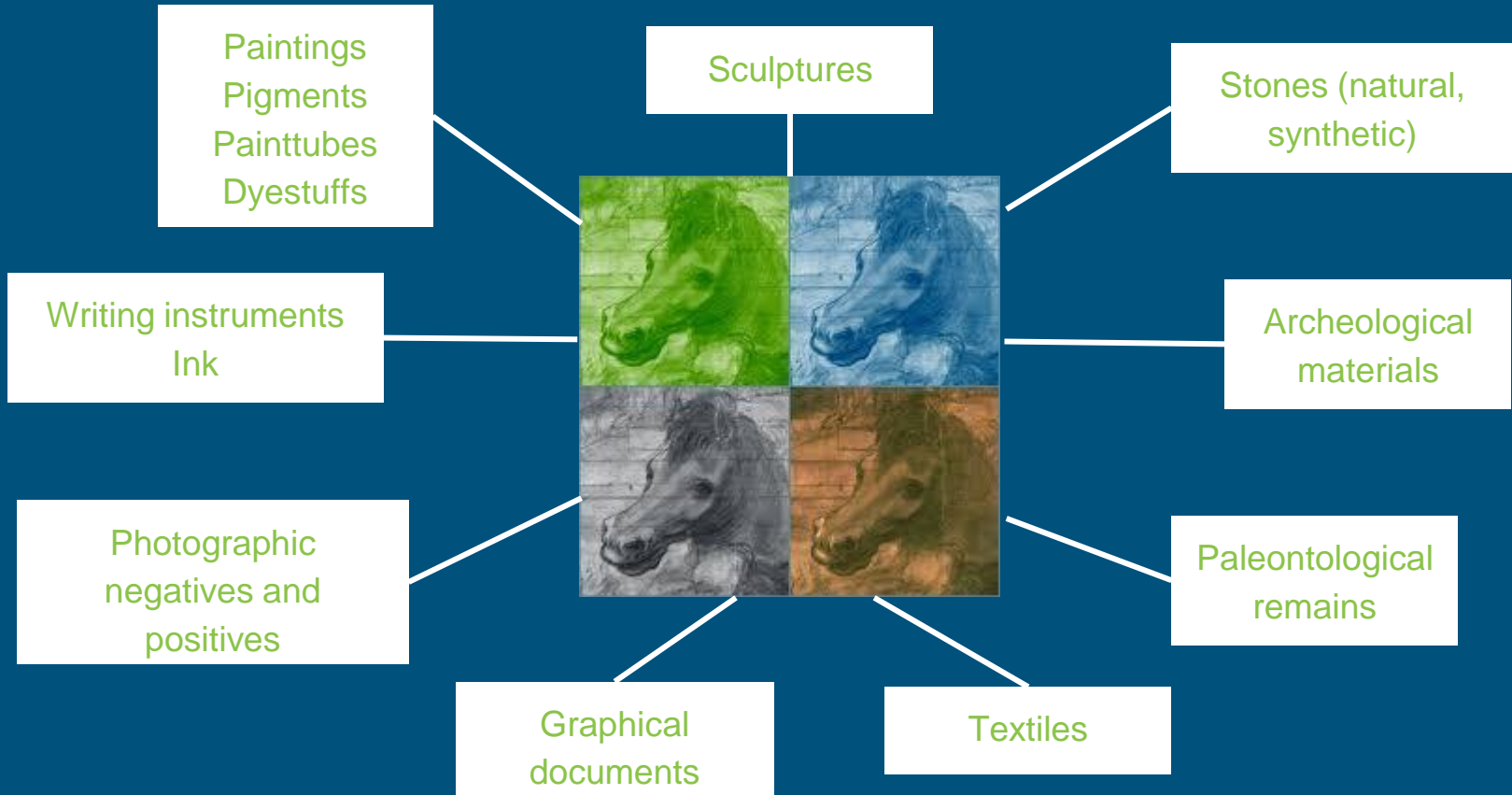
- ❑ 2 questionnaires :
 - 1st : “IPERION CH data management survey for facilities”
 - 2nd : “Questionnaire on data sets of IPERION CH”
- ❑ Results :
 - 78 homogenous datasets (1st questionnaire)
 - 56 precisely described datasets (2nd questionnaire)



3 platforms

19 facilities

Data production
Analysed materials



Data production
Methods : examples

Radiocarbon dating

Accelerator mass spectrometry

Optical and
electronical
microscopy

Tomography

Synchrotron
radiation

Fluorescence
spectroscopy

X-radiography

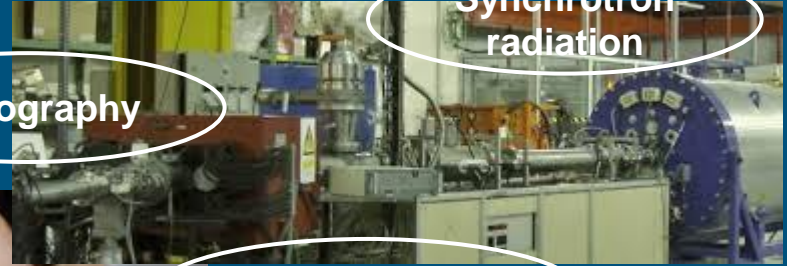
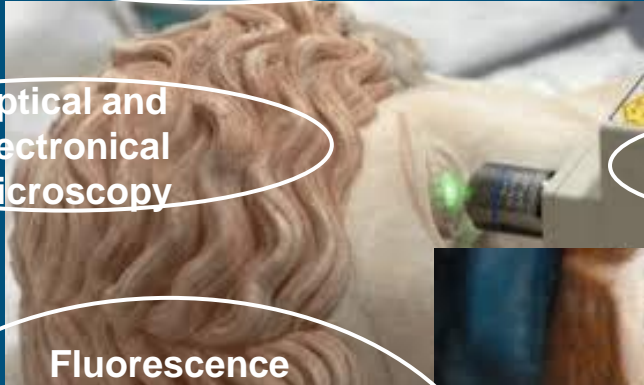
Chromatography

Fourier transform
infrared spectroscopy
(FTIR)

Raman spectroscopy
Terahertz time-domain
spectroscopy (THz-TDS)

Infrared
reflectography

X-ray fluorescence



Data types

- ❑ Digital data except :

- “Reports and grey literature collection” (C2RMF)
- “Imaging collection” (C2RMF)

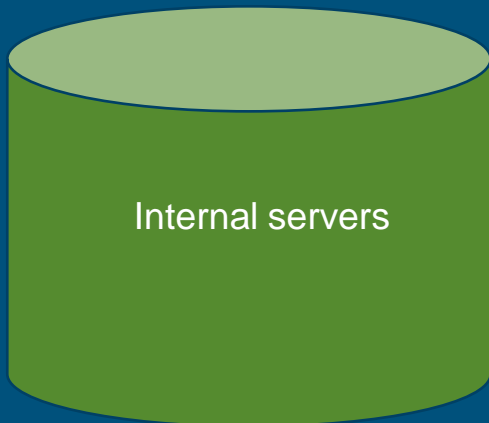
- ❑ Various formats :

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