OSCARS
Open Science Clusters' Action for Research & Society

Funded Project

HiMagnetOS: High Magnetic Field Open Science

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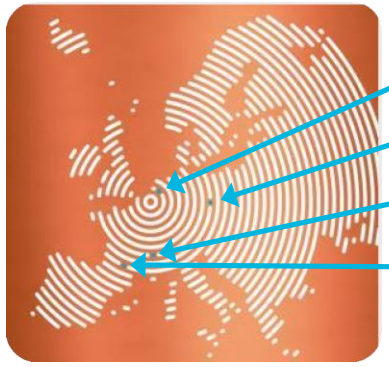
Implemented by

LNCMI

cnrs

Funded by the European Union

High magnetic field science community



HFML – Nijmegen

HLD – Dresden

LNCMI –Grenoble

LNCMI – Toulouse

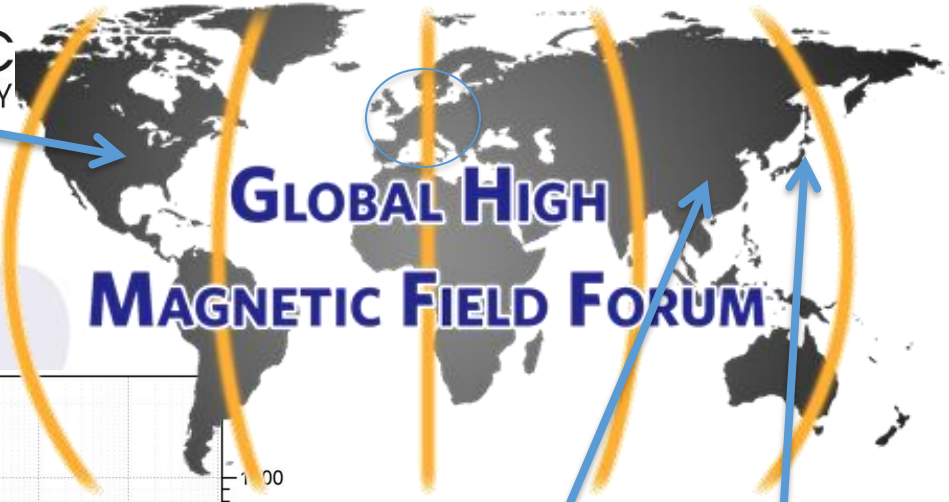
Members:

UK, Poland, Italy, CEA

EMFL

European Magnetic Field Laboratory

NATIONAL HIGH MAGNETIC FIELD LABORATORY



GLOBAL HIGH MAGNETIC FIELD FORUM

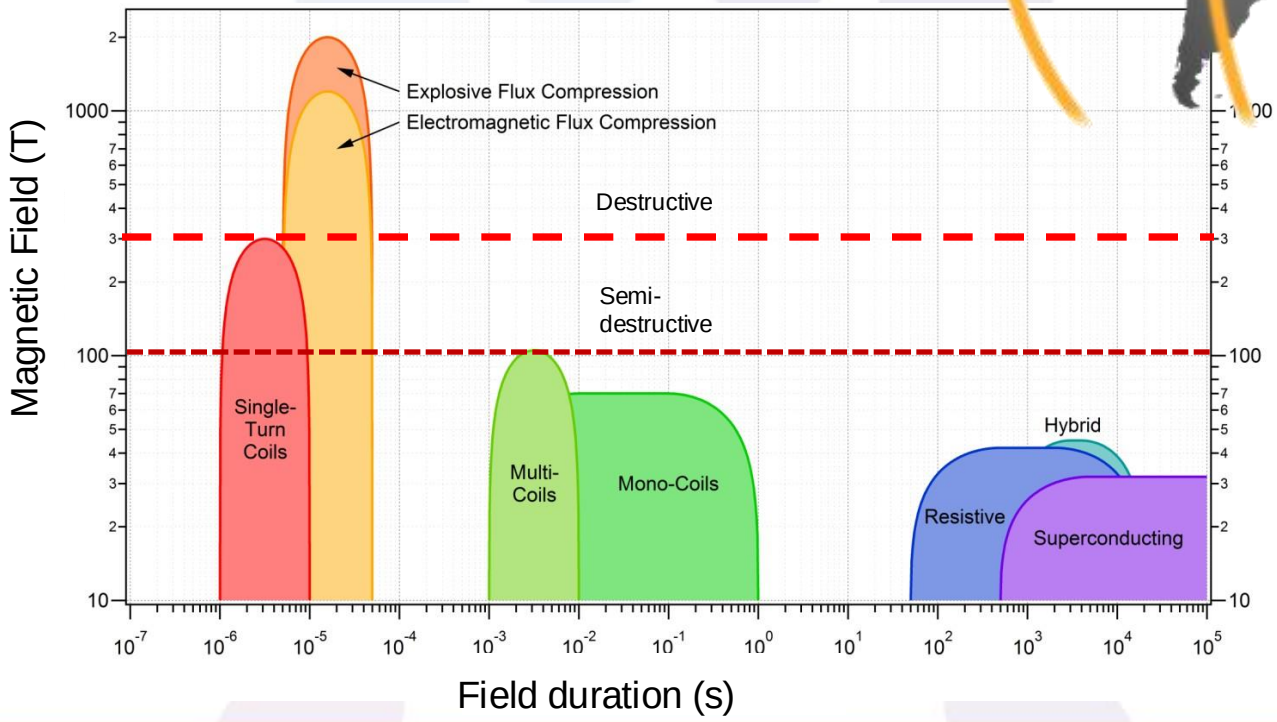
Wuhan National High Magnetic Field Center

CASHIPS

TOHOKU UNIVERSITY

The University of Tokyo
The Institute for Solid State Physics

Static and pulsed magnetic fields



CHALLENGE ADDRESSED

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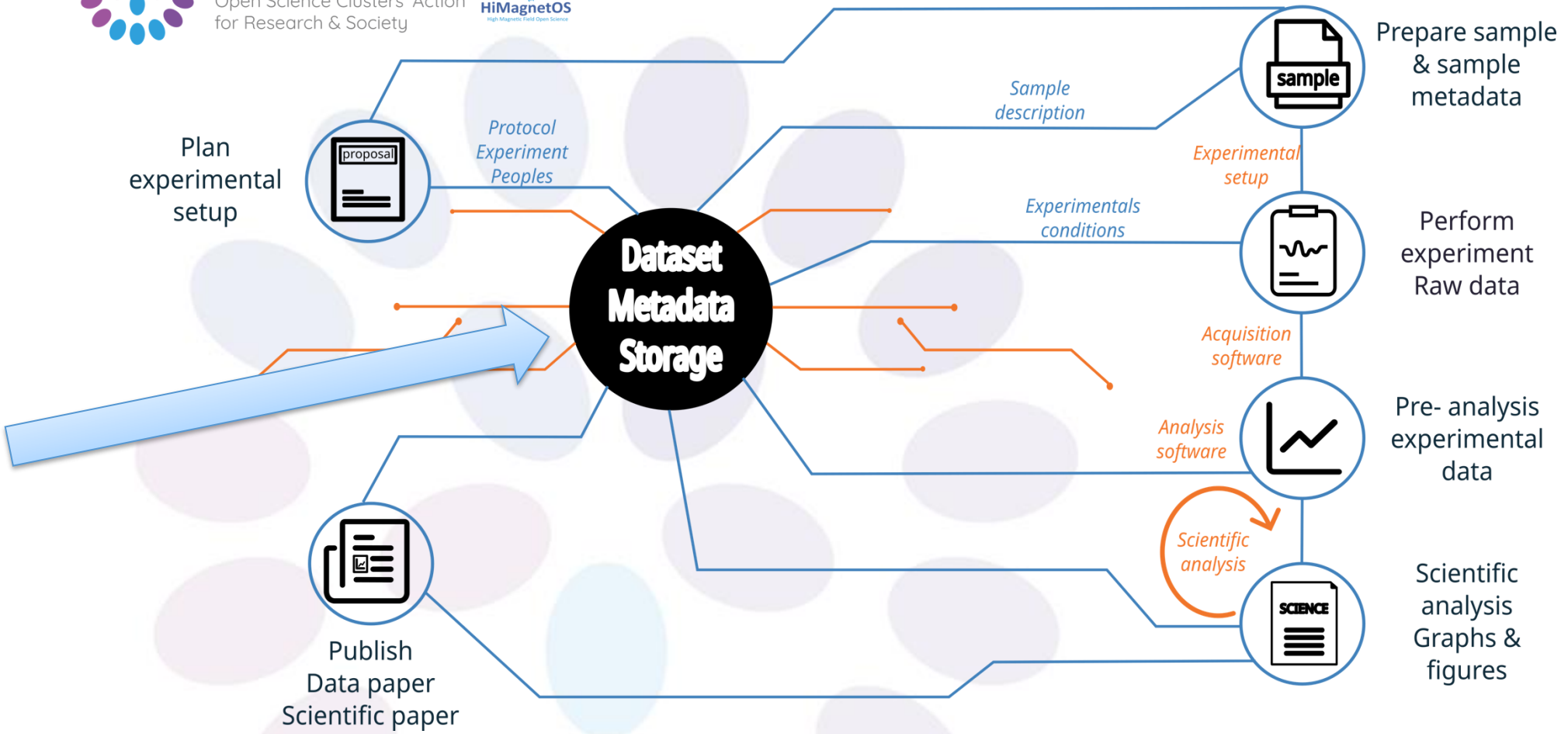

HiMagnetOS
High Magnetic Field Open Science

SOLUTION

High magnetic field data repository

Open sourcing data reduction software

Identify & connect all data and metadata (PID)

Train users and local contacts

RESULTS

- Open data repository : https://entrepot.recherche.data.gouv.fr/dataverse/lncmi
- Open source software's repo: on github or other public repos (not yet decided)
- Metadata collection pipeline from machine data and lab notebook linked to each proposal
- Training Material to the high magnetic field community

TEAM

- Nicolas Bruyant : LNCMI Toulouse User support
  - Open sourcing software
- Christiane Warth : LNCMI Grenoble Planning
  - Metadata and proposals link
- Sebastien Buisson & Stephane Levignac: IT support
  - IT architecture
- 2 short term position: (to be hired)
  - Sofware open sourcing and user's training
  - Repository creation and metadata link