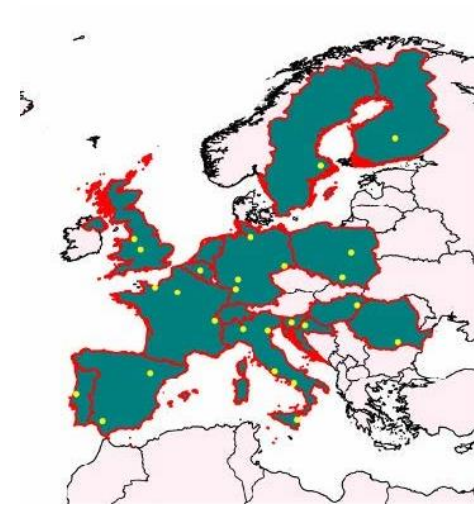




# EURO-LABS Project (WP 5.2)

Bringing the nuclear physics community  
into the EOSC framework



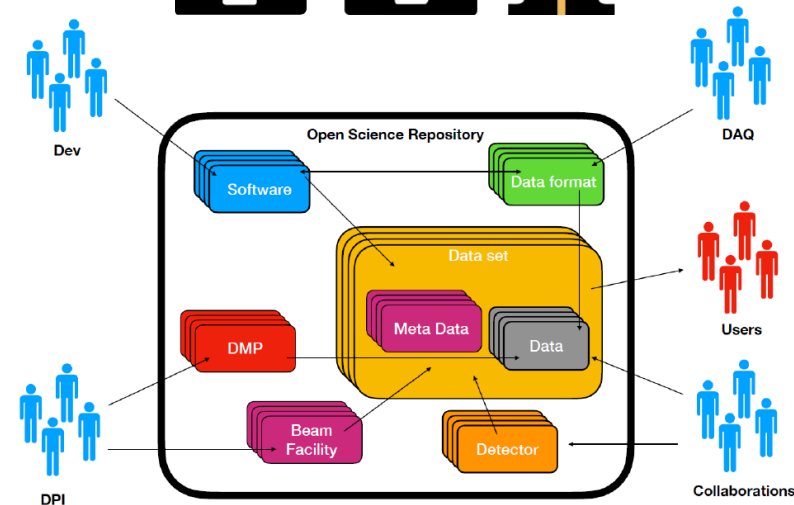
- Goals:
  - Providing efficient access to the available resources to a large fraction of EUROpean Laboratories for Accelerator Based Sciences (EURO-LABS)
  - Bringing together the three communities engaged in Nuclear Physics, Accelerator and Detector technology for High Energy Physics
  - Allowing a synergic implementation of best practices for data management and activities relating to targeted service improvements at these RIs
  - Creating synergies and collaborations between the RIs of the Nuclear and High Energy communities
  - Enhancing Europe's potential
- Proposal with new activities was granted

# WP 5.2: Open Science and Data Management

- Participants: CSIC, GANIL (Leading partners), INFN, CNRS, IJCLab, GSI
- Task leader: A. Lemasson (Ganil); subtask leader: C. Hornung (GSI), A. Matta (CNRS), M. Jouvin (IJCLab)



- Goals:
  - Bringing the nuclear physics community into the EOSC (European Open Science Cloud) framework
  - Developing services to enhance FAIR (Findable, Accessible, Interoperable and Reusable) data principles
  - Integration of Nuclear Physics community to existing infrastructures/services of EOSC environment - using present experience from ESCAPE/HEP physics community



## Milestones of WP 5.2

### 1st year

- Definition of the catalogue perimeter, architecture, and standards
- Identification of existing solutions in the EOSC ecosystem of Authentication and Authorization Infrastructures (AAI) and Data Storage and Adaptation and Integration of existing solutions to the Nuclear Physics Ecosystem

### 2nd year

- Release of first version of the Open NP Database service and of dataset and access tools
- The new toolkit deployed at selected facilities (at least two) and been used for an optimization

- Working **EOSC** for astronomy and particle physics
- Inside developed solutions will be adopted for the nuclear physics community
- Following **FAIR** principles:
  - **Findable** → Data is described with rich metadata, and assigned an unique and persistent identifier
  - **Accessible** → Metadata identifiers follows standard (open, free, universal) communication protocols
  - **Interoperable** → Metadata uses a formal, accessible, shared, and broadly applicable language for knowledge representation (metadata schema or standard)
  - **Reusable** → Data and collections have a clear usage licenses and provide accurate information on provenance



Rosie Bolton (SKA),  
Xavier Espinal (CERN)  
GSI: M. Al-Turany, T. Kollegger

# How to start the project?

- EURO-LABS project will start in September 2022
- Kick-Off-Meeting is planned for the beginning of October 2022
- Opening post-doc position for 2 years at GSI to work in the WP 5.2 is upcoming soon
  - Attached to the FRS/Super-FRS group (C. Scheidenberger)
  - Close connection to the IT department (M. Al-Turany, T. Kollegger) and to NUSTAR experiments (NUSTAR beam team)
  - Practical experience and good knowledge in website programming

**Thank you for your attention and everybody is welcome to join the common effort.**