

eFAIRs - enhancing FAIRness in seismological data management

- Partners

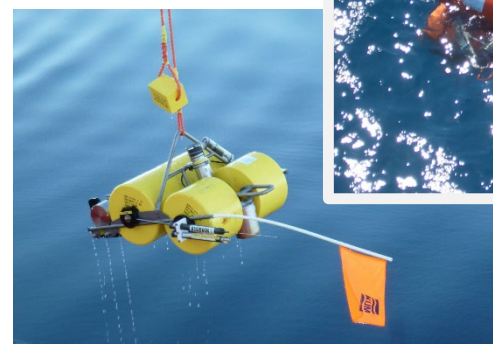
- **GFZ, AWI, GEOMAR** (other international links within FDSN, ORFEUS, EPOS/EMSO, RDA, EOSC)

- People

- A. Strollo, **L. Hillmann**, J. Quinteros, A. Heinloo, S. Hemmleb, C. Haberland, **M. Haxter**, M. Schmidt-Aursch, H. Kopp, D. Lange, **A. Dannowski** and others.

- Duration

- **01.05.2021 – 30.04.2023**



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- Objectives

- automate the integration of instrument PIDs in the **standard metadata generation workflow**;
- **adoption of standard and interoperable vocabularies** in the DOI and EPIC Identifiers metadata;
- develop **tailored metadata consistency/quality checks**;
- achieve full **integration of OBS data sets** in the routine seismological data management workflow for long term archival;
- foster adoption and usage of these fully **FAIR data management policies** within the community to enable **data provenance** from the derived products to the instrument producing the initial bit of data and vice versa.



Envisaged data-workflow

National initiatives:
NFDI

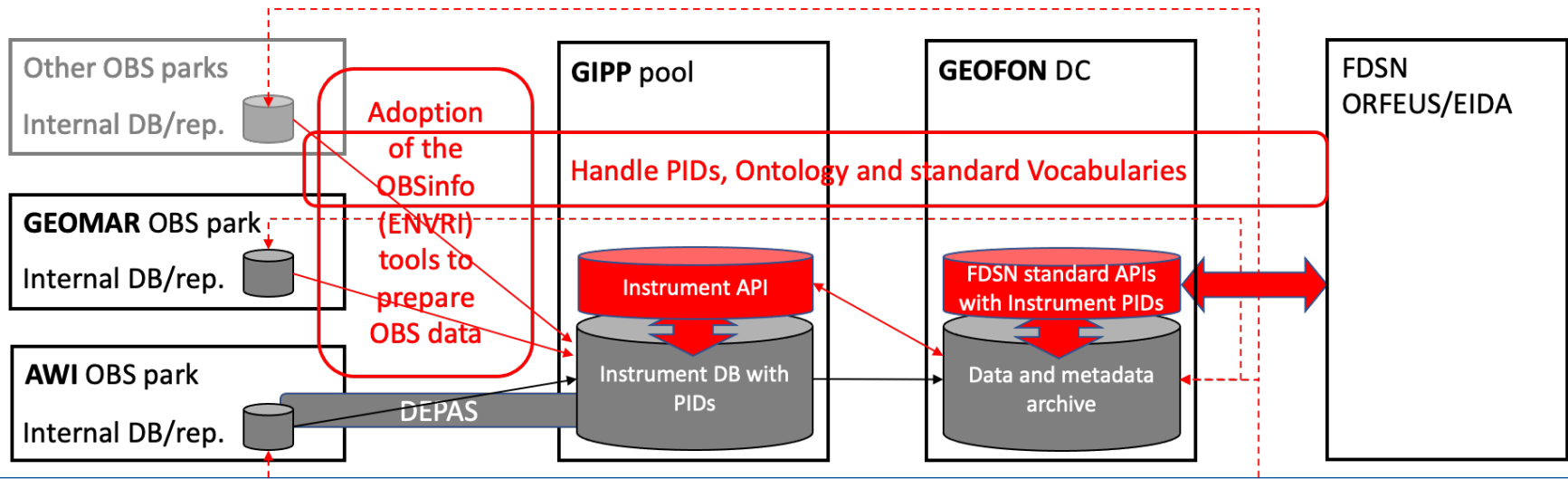
Helmholtz Initiatives:
DataHUB, DigitalEARTH, MOSES, POF IV Program

International Initiatives:
RDA, EOSC, ENVRI, EPOS

Generic domain (inter-community common dictionaries and definitions)

FAIR data

Technical domain (intra-community specific/detailed)



HMC support, linkage and integration

- How can HMC support your project (infrastructure, tools, ...) to be successful?
 - Support for interoperability: dictionaries and ontology.
 - Long term Helmholtz federated services: AAI, Storage, PIDs, etc.
- Where do you see the linkage to HMC?
 - Handy demonstrator within the Earth and Environment to reach the HMC's goals.
 - A fully FAIR data asset facilitating innovative multidisciplinary data science applications.
- How do you plan to integrate your project results?
 - Bottom-up approach, community driven in synergy with Institutional, National, European and Global initiatives.