

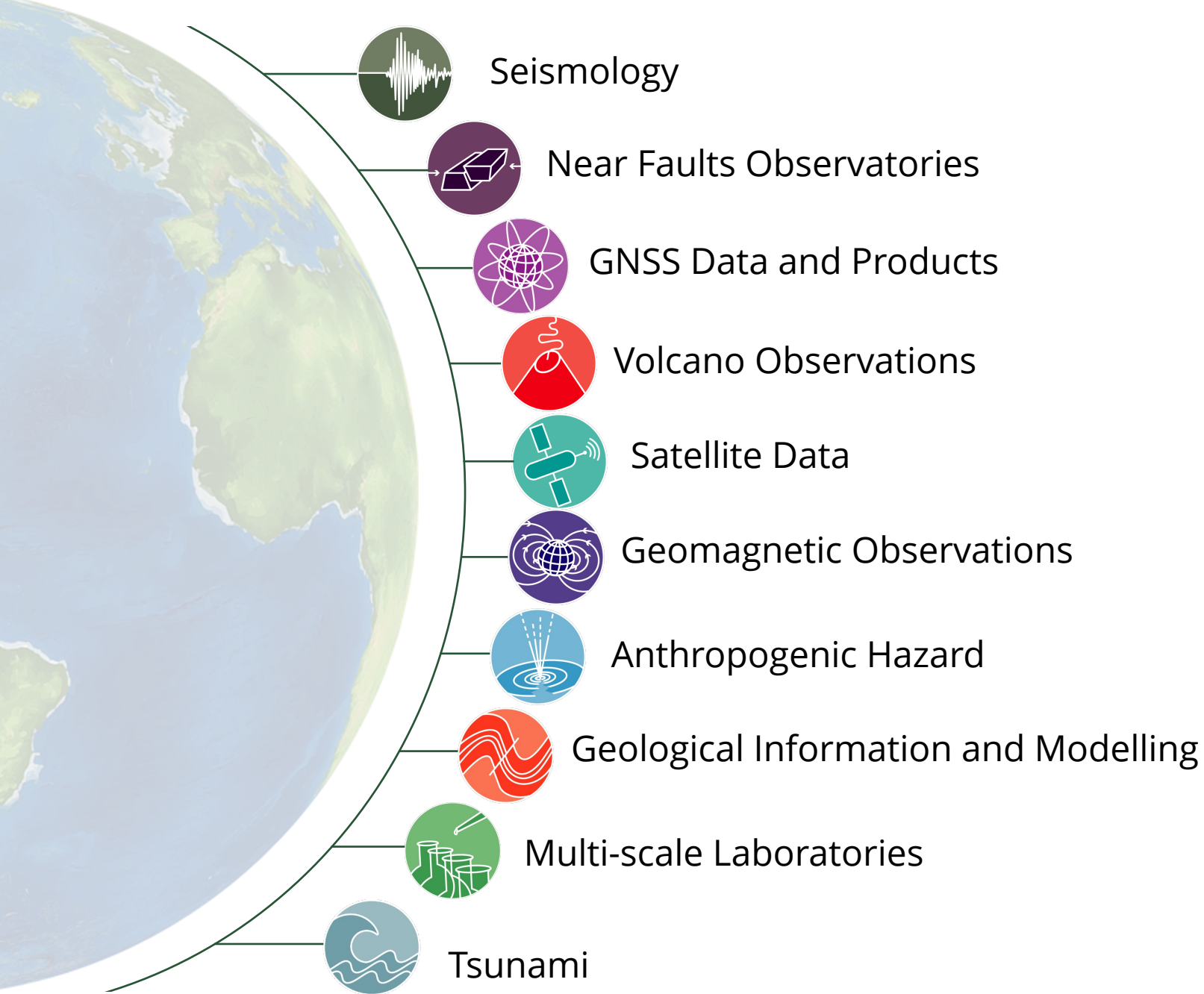


EPOS Data Portal

<https://www.ics-c.epos-eu.org/>

Rossana Paciello

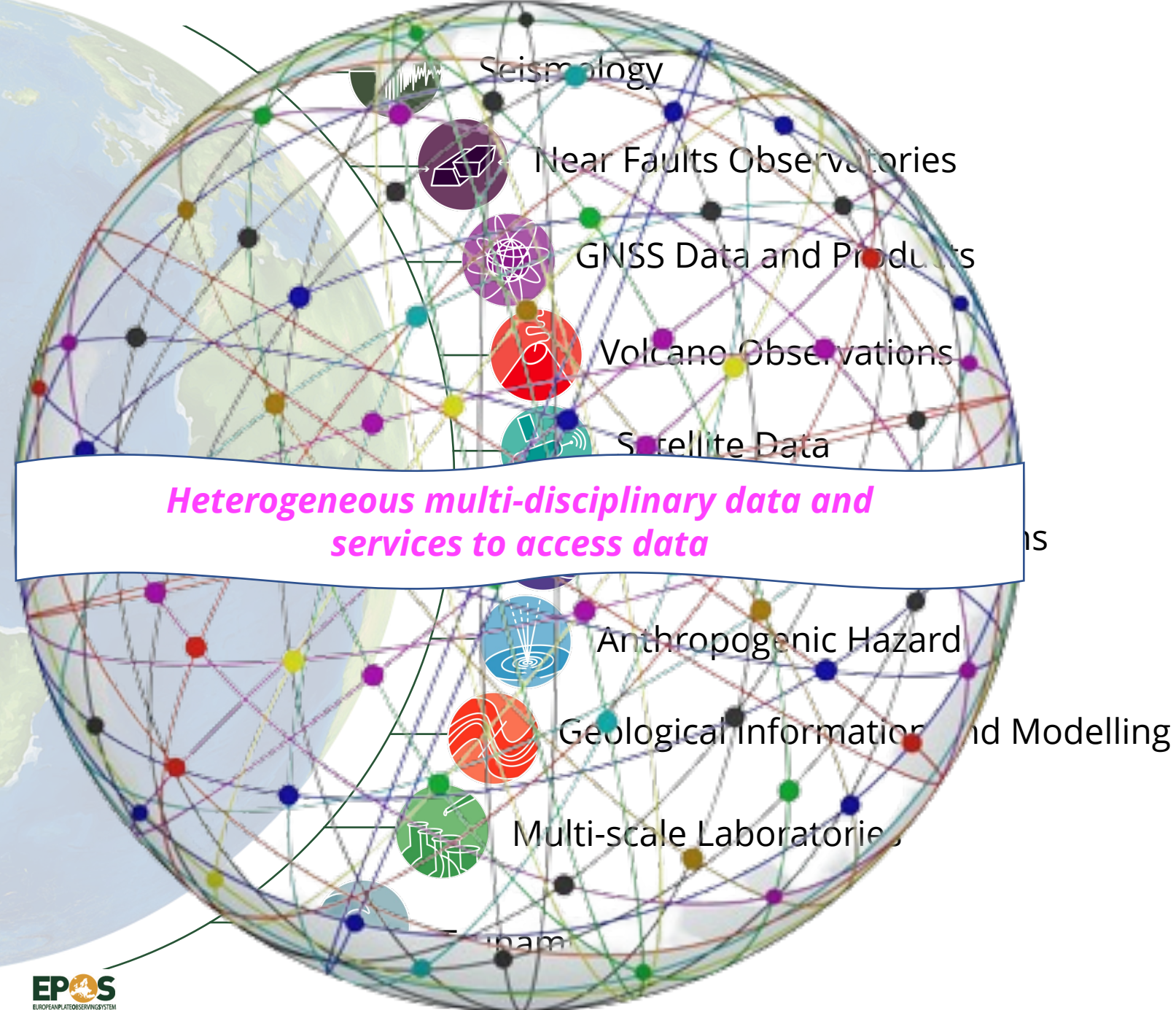
1st EPOS International Conference - EPOS Meets Africa and Latin America
13 July 2022, Sal Island, Cape Verde



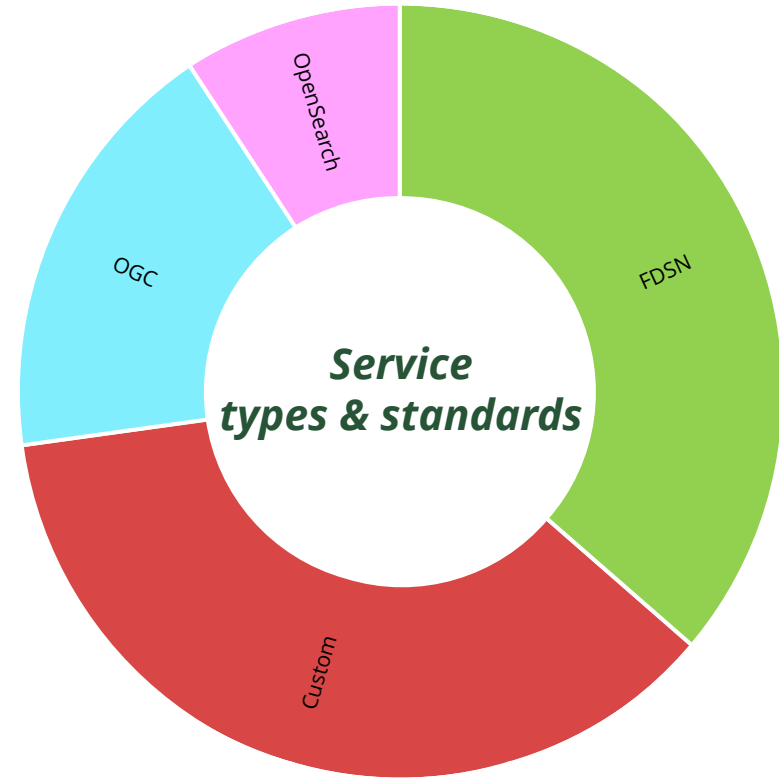
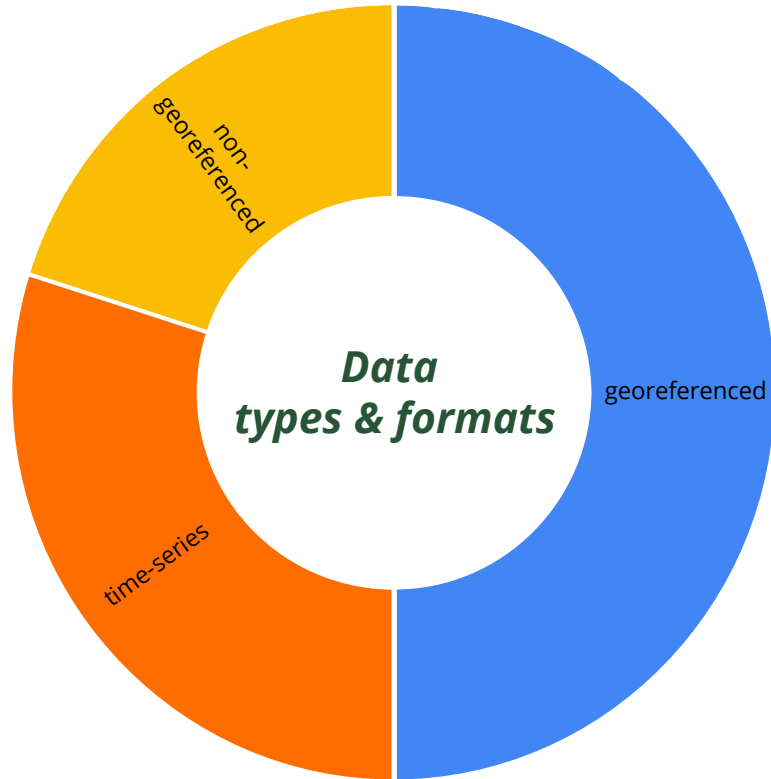
One-Stop
Shop

*One-stop shop portal that
enables any user to access
Solid Earth data in an
integrated way.*

EPOS Data Portal



EPOS Data Portal Heterogeneity



EPOS Data Portal Challenges

- *Technical*
- *Maintenance & Management*
- *Community building*



EPOS Data Portal

Technical Challenge

- Adoption of a ***Metadata Model*** (and associated catalogue) that allows to describe concepts of interest from TCS in a formal and canonical language, using a common vocabulary and serialized in a machine-readable format.
- Adoption of a ***Service-based Architecture*** that implements modularity, enables scalability and allows interoperability with underlying services provided by TCS. This approach allows to *'leave data where they are'*.
- Adoption of an ***Authentication and Authorization*** system which allows to achieve the *"as open as possible, as closed as necessary"* principle mentioned in Guidelines on FAIR Data Management in Horizon 2020 (European Commission, 2016).



EPOS Data Portal **Maintenance &** **Management** **Challenge**



Continuous **Harmonization** activities are addressed to guarantee the integration and access of heterogenous data through the Data Portal.



In order to foster open, free and easy access to assets provided by TCS, a common **Data Policy** is adopted covering several aspects:

Open Access
Licensing
Quality Control
Liability
Privacy



A **Data Management Plan** is adopted by each TCS to ensure data and services are managed efficiently and delivered according to the Data Policy.

EPOS Data Portal

Community building

Challenge

- To achieve integration, significant efforts for **building, organizing, and keeping the engagement** of the community of scientists, e-scientist, data practitioners and managers is required.
- **Building a community** requires time and investments that increase exponentially with the diversity and the number of involved parties.
- Adoption of **co-development and agile approach** allows to manage developments and interactions within the involved diverse communities.



Filters



All

240



Seismology

58



Near Fault Observatories

37



GNSS Data and Products

14



Volcano Observations

45



Satellite Data

8



Geomagnetic Observations

19



Anthropogenic Hazards

36



Geological Information and Modelling

8



Multi-scale Laboratories

6



Tsunami

9



Favourites

7

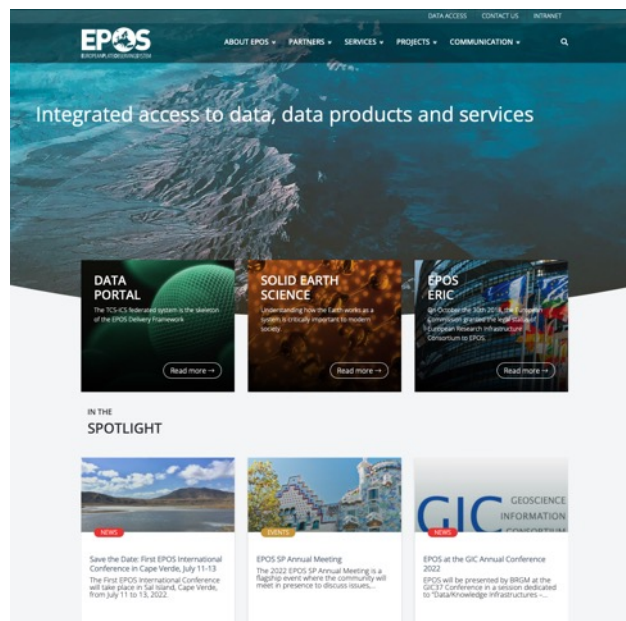
EPOS Data Portal ***is truly FAIR!***

EPOS Data Portal is the place where **FAIR principles** and **practices** are implemented thanks to the adoption of a **co-development** approach and **harmonization** actions across communities of developers and data providers.

<https://www.ics-c.epos-eu.org/>

Thank You!

Web site



www.epos-eu.org

Social media

