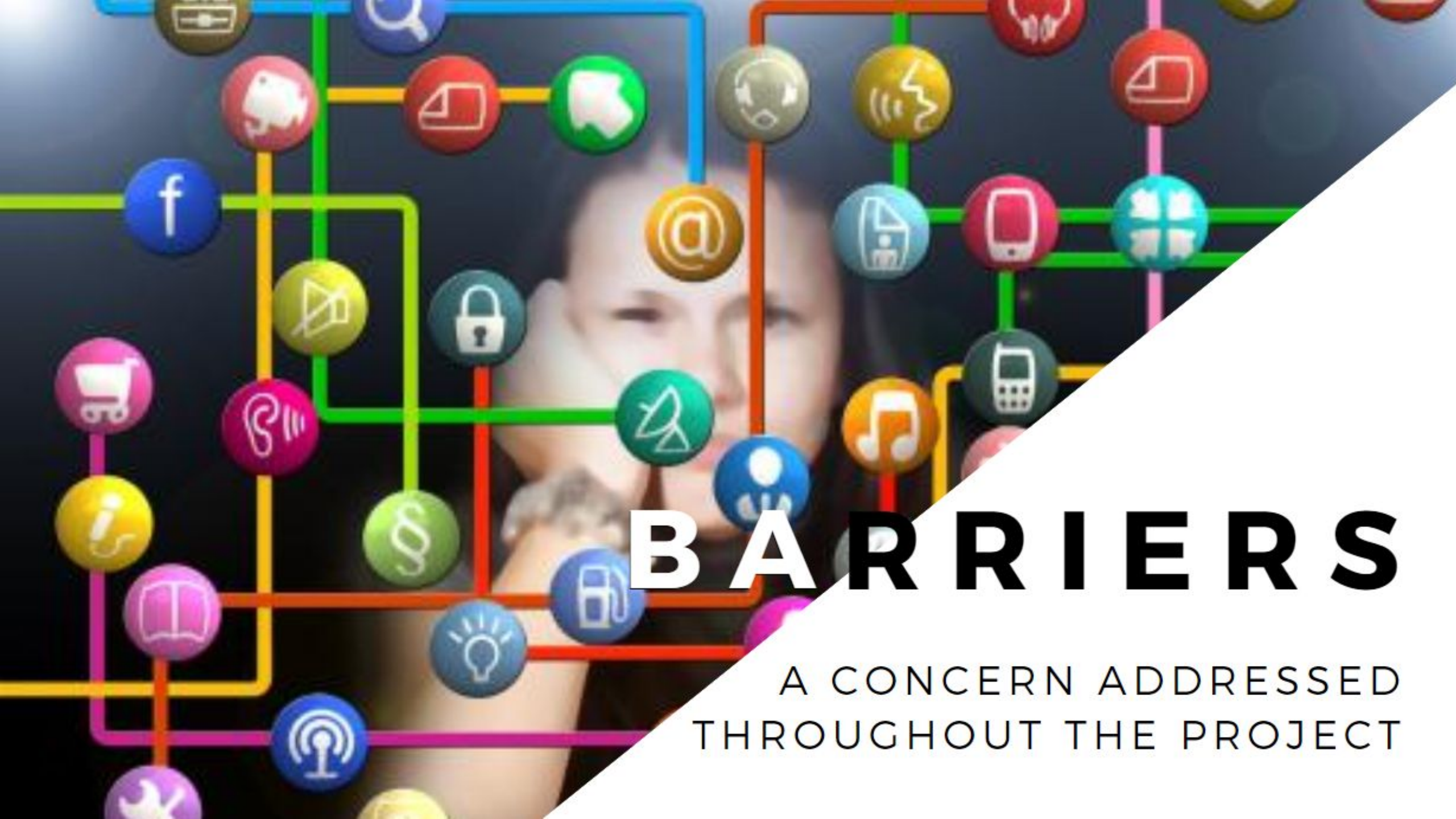
Understanding the barriers to adoption and implementation of EPOS tools and services

Olivier Frézot

EPOS
EUROPEANPLATEOBSERVINGSYSTEM

THE EPOS SP PROJECT HAS RECEIVED FUNDING FROM THE EUROPEAN UNION'S HORIZON 2020 RESEARCH AND INNOVATION PROGRAMME UNDER GRANT AGREEMENT N° 871121



BARRIERS

A CONCERN ADDRESSED THROUGHOUT THE PROJECT

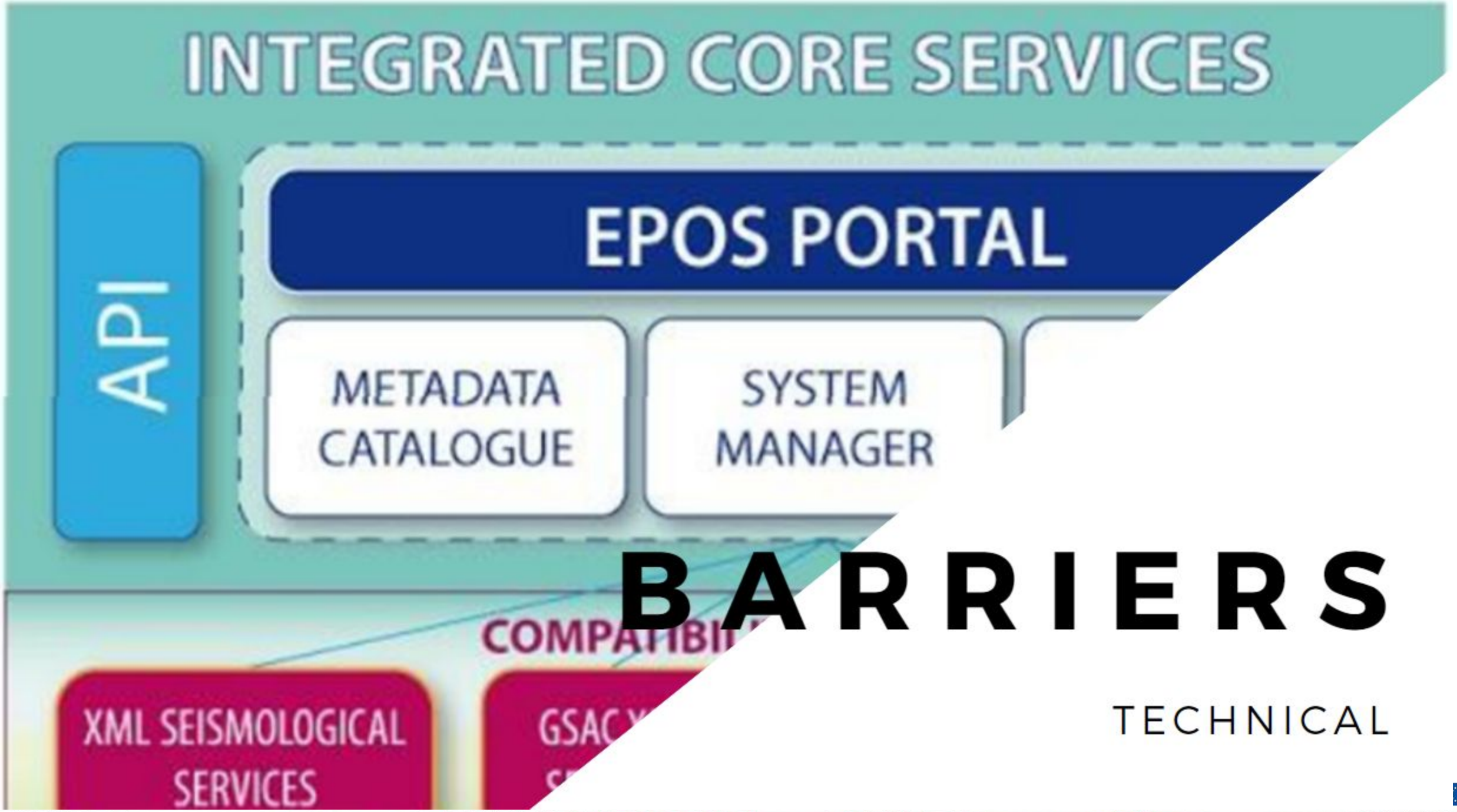
EPOS
Testing Version 1.0.2
SEARCH
Free text search
Filters
Seismology
58
* Output format
image/png
* Request type
GetMap
* Service
WMS
* Spatial Reference System
EPSG:4326
* WMS version
1.3.0
* Width of the output map
1536
Set to defaults
Apply
European Exposure Model Level 1 (OGC WMS)
Categories: Earthquake hazard and risk ser... > Exposure models
Visible on: Map
Status:
Fault rupture models (SRCMOD)
Categories: Seismological products service... > Earthquake source data
Visible on: Map Table
Status:
52.29372 : -0.3518
BARRIERS
FUNCTIONAL

Functional barriers

- A new product is a new way of doing. A value needs to be highlighted to motivate a change.
- A user comes with an intention of solving a problem and not of using EPOS. The Portal is (more than) a very nice demonstrator and an help to use a service independently.
- The new generation scientists are often developpers. In the cube of EPOS they may use directly ICS.

EPOS EUROPEAN PLATE OBSERVING SYSTEM

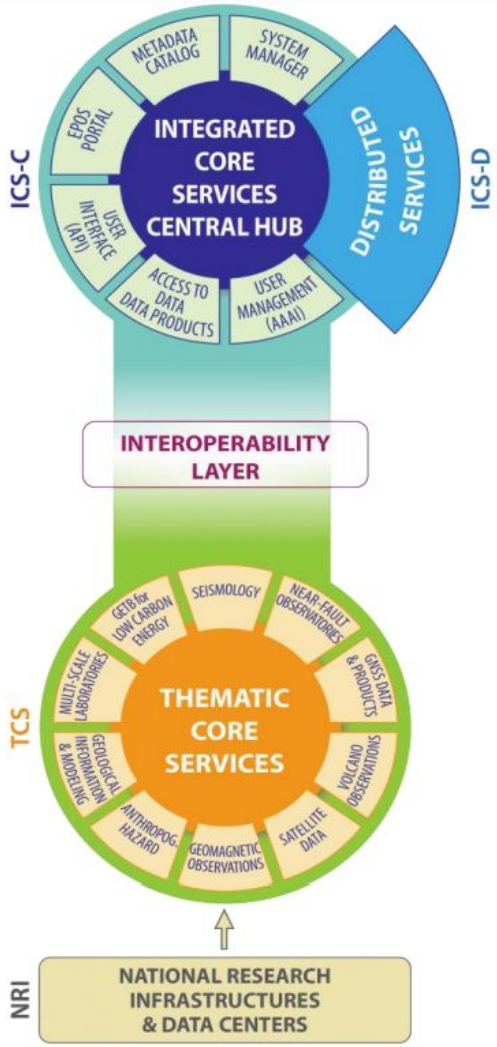
The EPOS SP project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 871121

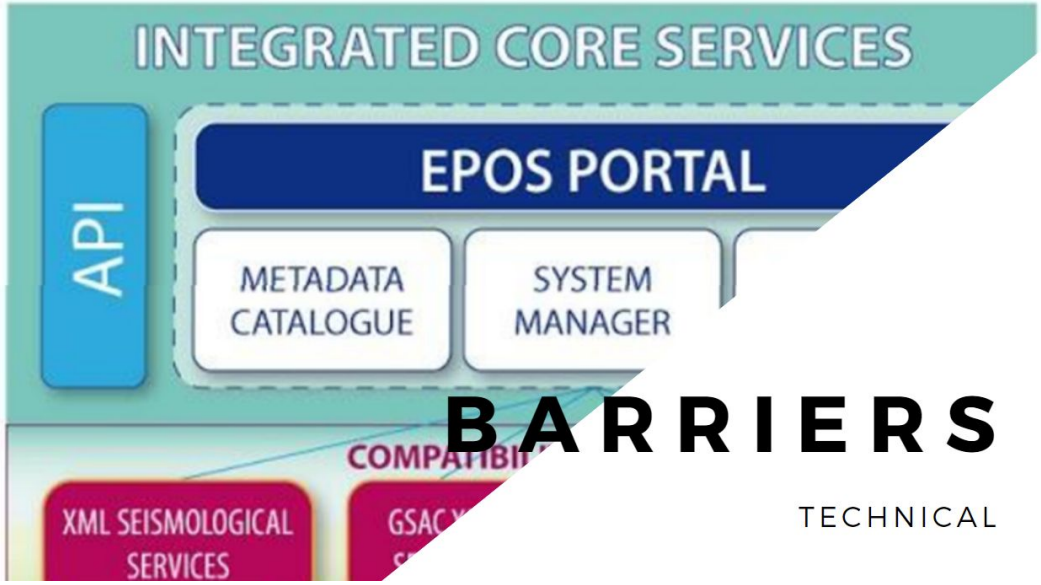


BARRIERS

TECHNICAL

Technical barriers



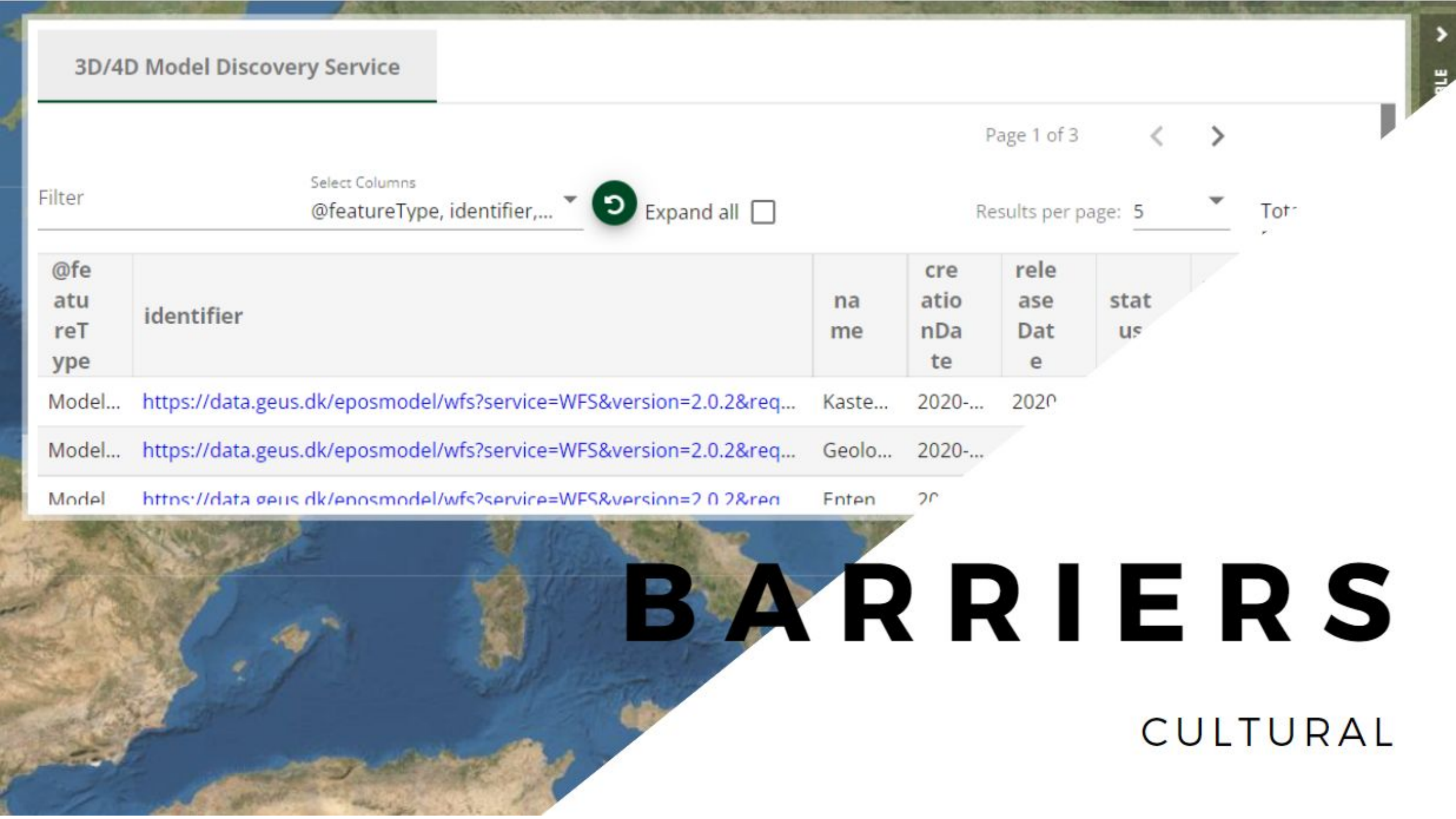


BARRIERS

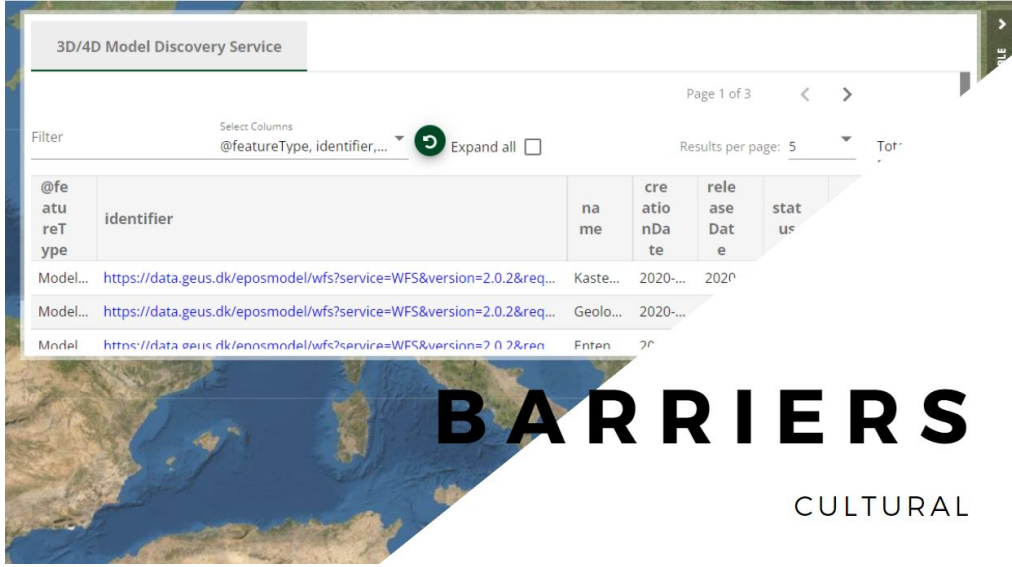
TECHNICAL

- Range of data existing and catalogued (degree of deployment and also question of legal issues). Between data and TCS, actions are needed in all the fields, not only those mentioned in the contract.
- Shape of the data (in some thematics the processing and shape of data are not within usual way to proceed).
- Data quality not guaranteed because EPOS-ERIC is not a data repository but an central integration hub

The EPOS SP project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 871121


3D/4D Model Discovery Service
Page 1 of 3
Filter
Select Columns
@featureType, identifier,...
Expand all
Results per page: 5
Tot
@featureType
identifier
name
creationDate
releaseDate
status
Model...
https://data.geus.dk/eposmodel/wfs?service=WFS&version=2.0.2&req...
Kaste...
2020-...
2020
Model...
https://data.geus.dk/eposmodel/wfs?service=WFS&version=2.0.2&req...
Geolo...
2020-...
Model
https://data.geus.dk/eposmodel/wfs?service=WFS&version=2.0.2&req
Enten
20
BARRIERS
CULTURAL

Cultural barriers

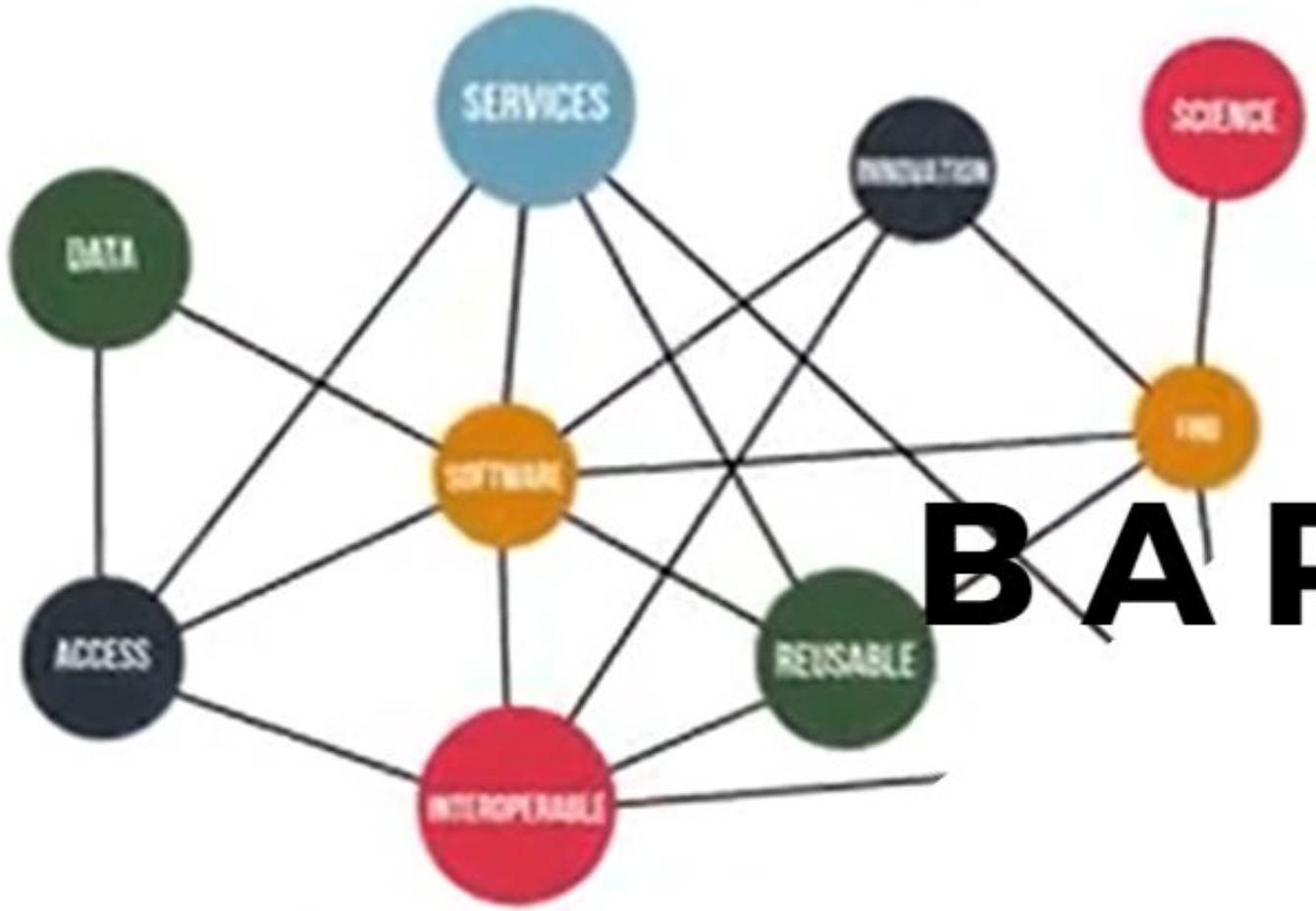


- Habits: why would a user come and use EPOS when he has his own solutions and habits to chain the data access, processing and representation?
- Cultural barrier means also trust to a data provider. How can the user be sure the data quality is as good as the user's end point habits? (what about the trust of processing results if one is not confident in the quality of the data ?).
- Communities may produce and transfer their data using their own formal or unformal channels.

EPOS EUROPEAN PLATE OBSERVING SYSTEM

The EPOS SP project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 871121

EUROPEANPLATEOBSERVINGSYSTEM



BARRIERS

MITIGATION PATHS

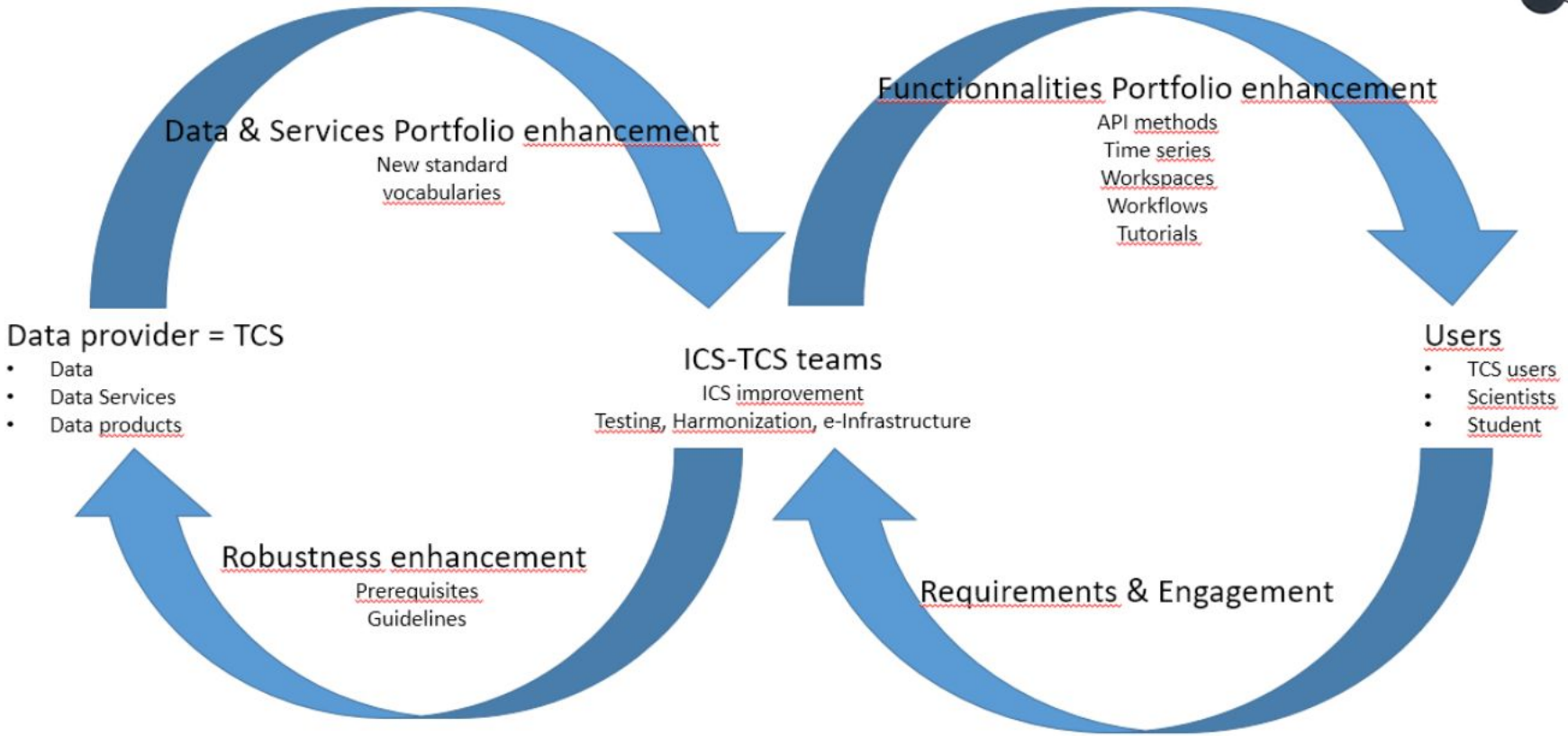
Preventing and mitigating

EUROPEANPLATEOBSERVINGSYSTEM

BARRIERS

MITIGATION PATHS

- Continuous animation



THE EPOS SP PROJECT HAS RECEIVED FUNDING FROM THE EUROPEAN UNION'S HORIZON 2020 RESEARCH AND INNOVATION PROGRAMME UNDER GRANT AGREEMENT N° 871121

Preventing and mitigating

BARRIERS

MITIGATION PATHS

- Functional and technical: Pilot Operational Testing
- Technical: a referenced dataset is an accessible dataset
- Scientific excellence (assessment of scientific impact…)
- Making access and integration of data and services not available without EPOS
- Exploitation of new and innovative services
- Registration of EPOS in all national roadmaps
- EPOS is a change of paradigm in the use of the data: many thematic services, one end point. The innovation is a keypoint and EPOS is not a substitute to a list of TCS

The EPOS SP project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 871121