

# **EUDAT iRODS extensions**

PIDs, B2STAGE and B2SAFE

Christine Staiger  
SURFsara

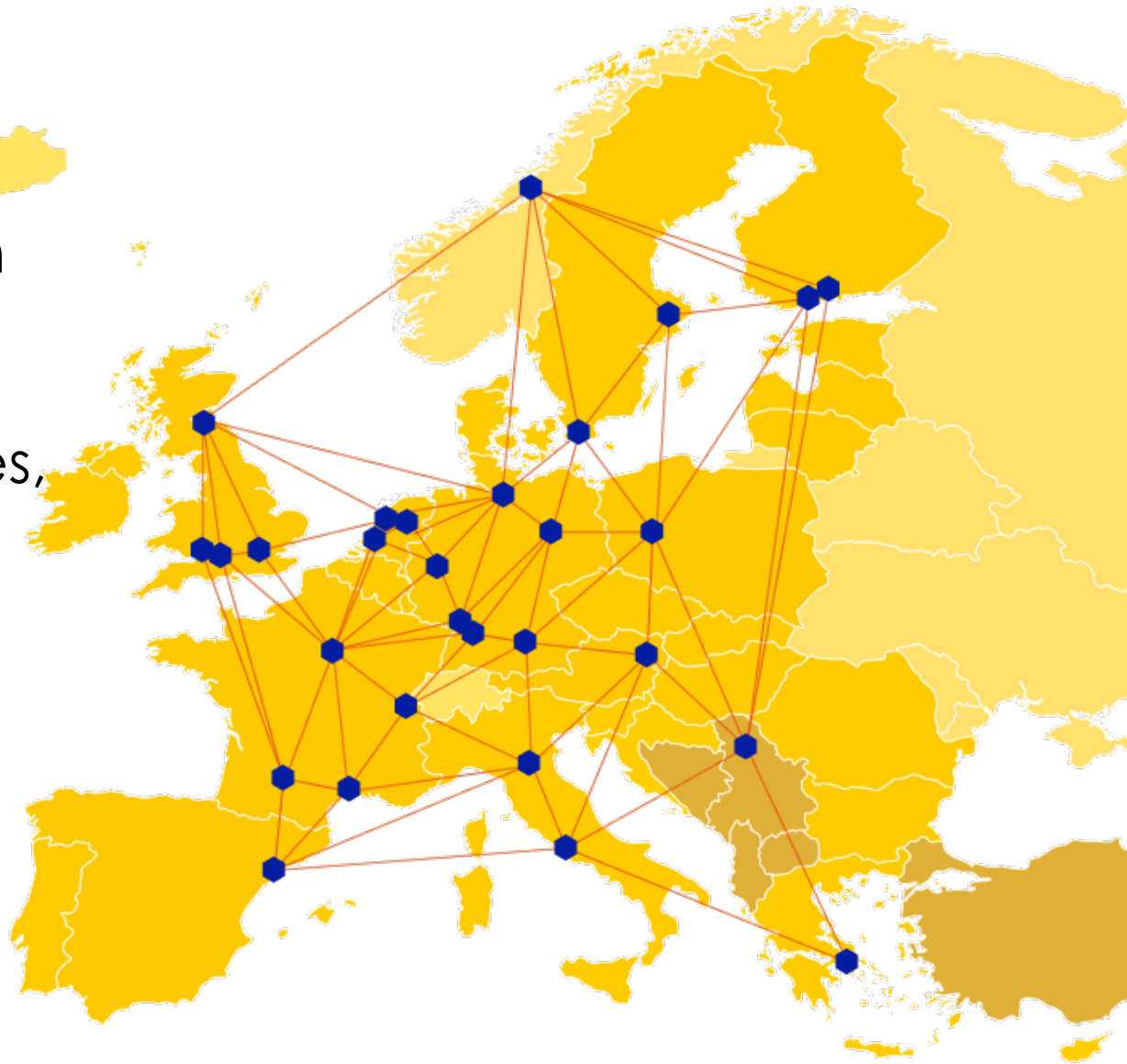
Workshop, Utrecht, January 18th 2016

# EUDAT Objectives

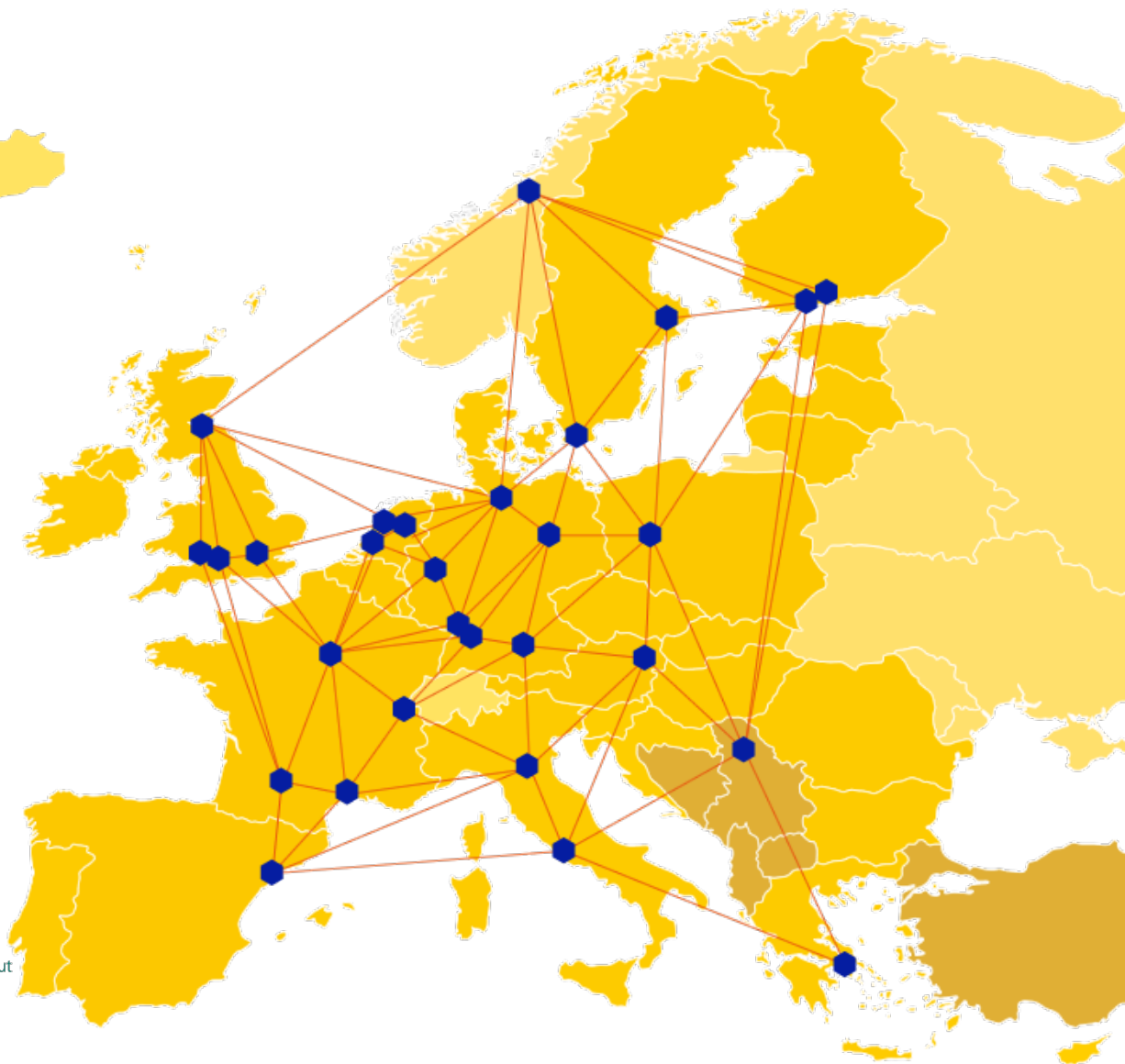
- Providing **sustainable pan-European** solution for **sharing, preserving and accessing research data**.
- **Support the European Commission policy on Open Access to Research Data** by **developing appropriate services** and tools
- Foster **interoperability between existing European e-infrastructures** and provide European researchers with seamless access to European resources in the area of networking, computing, grid, and data services.
- **Collaboration with the Research Data Alliance (RDA)** to remove barriers for sharing and (re)using data by working in close
- **Engage research communities** in the collaborative development

# EUDAT Participants

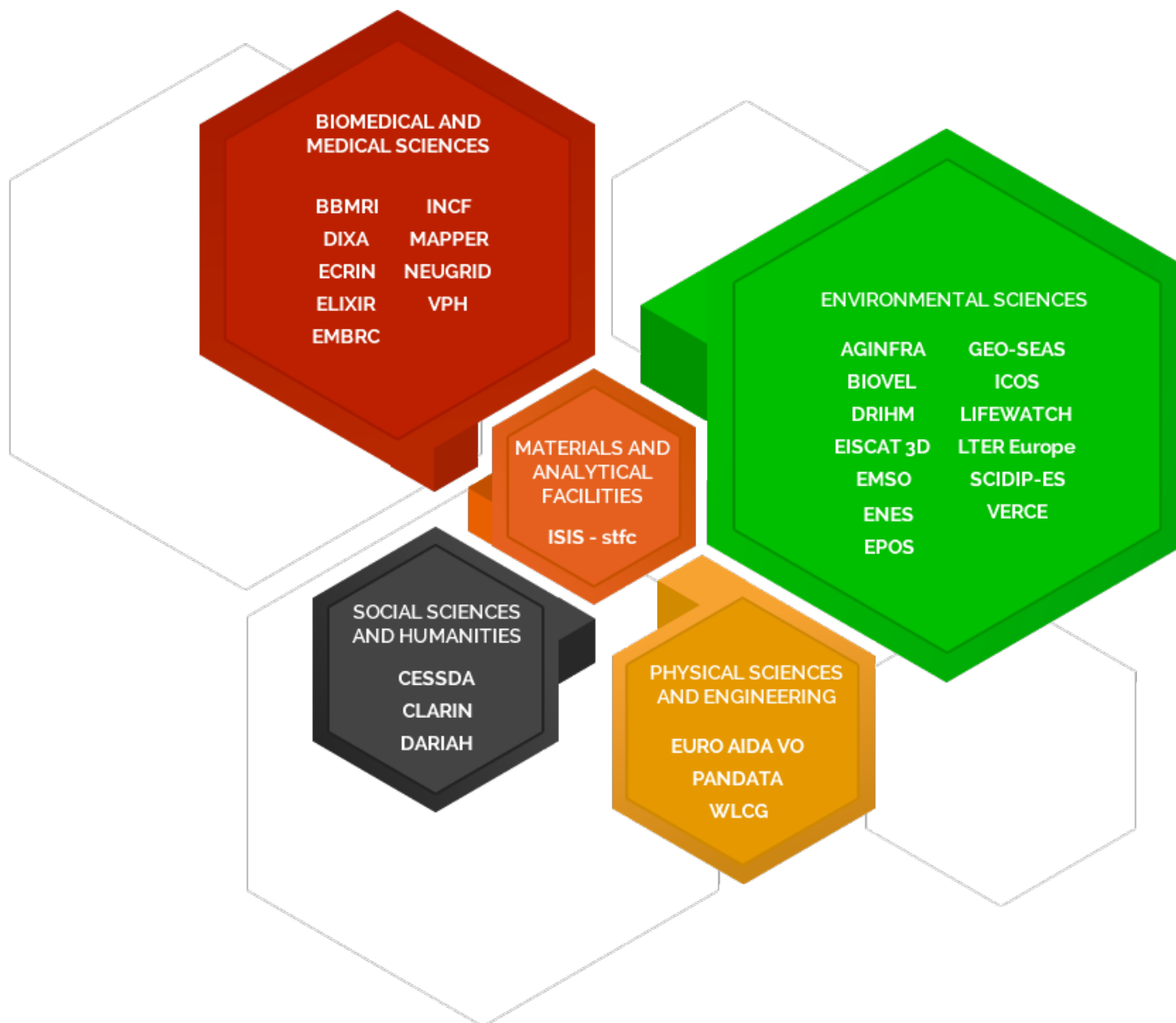
A consortium of high performance computing (HPC) / data centres, libraries, scientific communities, data scientists



## EUDAT Participants



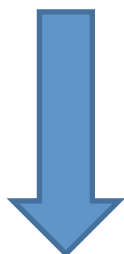
# Communities



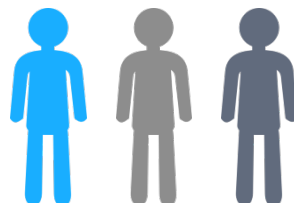
# Who can use EUDAT services?



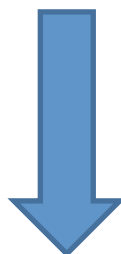
Single researcher



Upload, add metadata  
and download



Team



Upload, add metadata,  
share, download



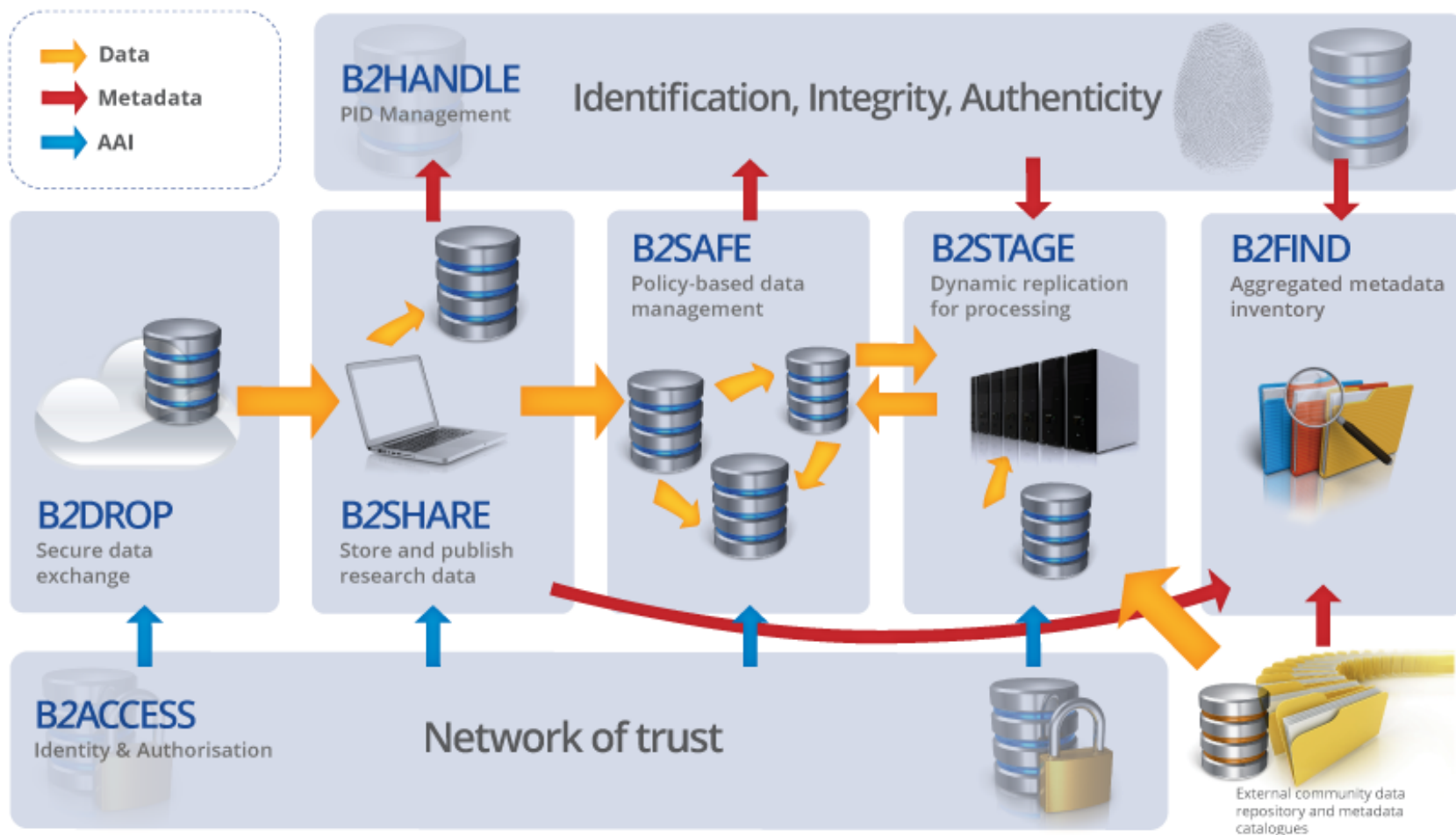
Community



Periodic transfers,  
quality checks ...

Different strategies for different usage scenarios

# The EUDAT B2 service suite



# Agenda

## **9.00 – 11.00 Persistent identifiers**

Concept

The Handle system

B2HANDLE

## **11.00 – 11.15 Coffee**

## **11.15 – 12.30 B2STAGE**

Data transfers with GridFTP

GridFTP, iRODS and PIDs

## **13.00 – 15.00 B2SAFE**

Data replication

PIDs for data replication



# Summary

- **Integration of three technologies for**
  - Referring to data unambiguously
  - High-performance data transfers
  - Stable and reliable data replication
- **We saw combinations of:**
  - PIDs and GridFTP
  - GridFTP and iRODS
  - PIDs and iRODS



# Hands-on Material

## Material on GitHub

- <https://github.com/EUDAT-Training/B2SAFE-B2STAGE-Training>
- Training module which provides hands-on material for:
  - EUDAT B2SAFE
  - iRODS4
  - B2HANDLE
  - and the EUDAT B2STAGE service.
  - Create your own test instances!

# Thank you!

B2SAFE, B2STAGE and B2HANDLE team

Claudio Cacciari, CINECA, IT

Roberto Mucci, CINECA, IT

Robert Verkerk, SURFsara, NL

Themis Zamani, GRNET, GR

Willem Elbers, CLARIN, NL

Johannes Reetz,

Max Planck Computing and Data Facility, DE



This work is licensed under the Creative Commons CC-BY 4.0 licence



EUDAT receives funding from the European Union's Horizon 2020 programme - DG CONNECT e-Infrastructures.  
Contract No. 654065