



**B2SAFE**  
Replicate Research Data Safely

and



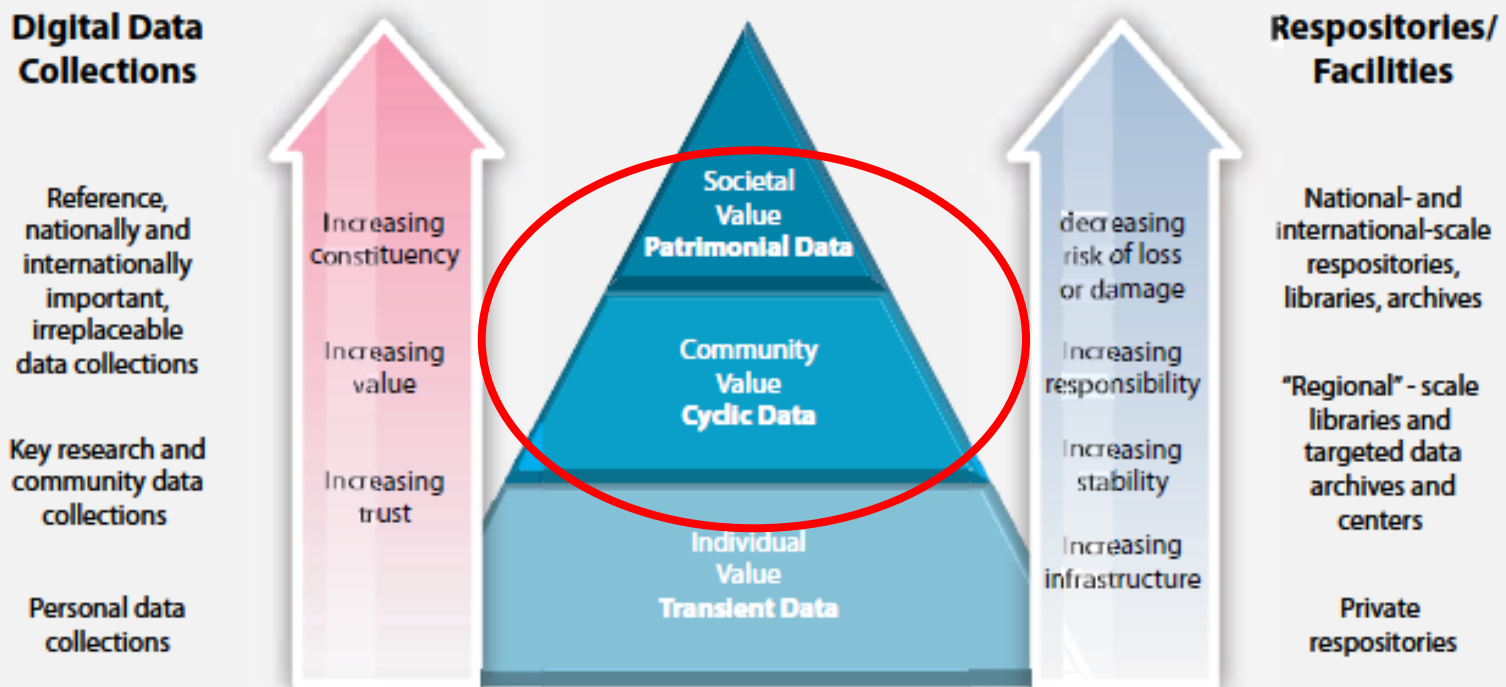
**B2STAGE**  
Get Data to Computation

## Core Services of the EUDAT CDI

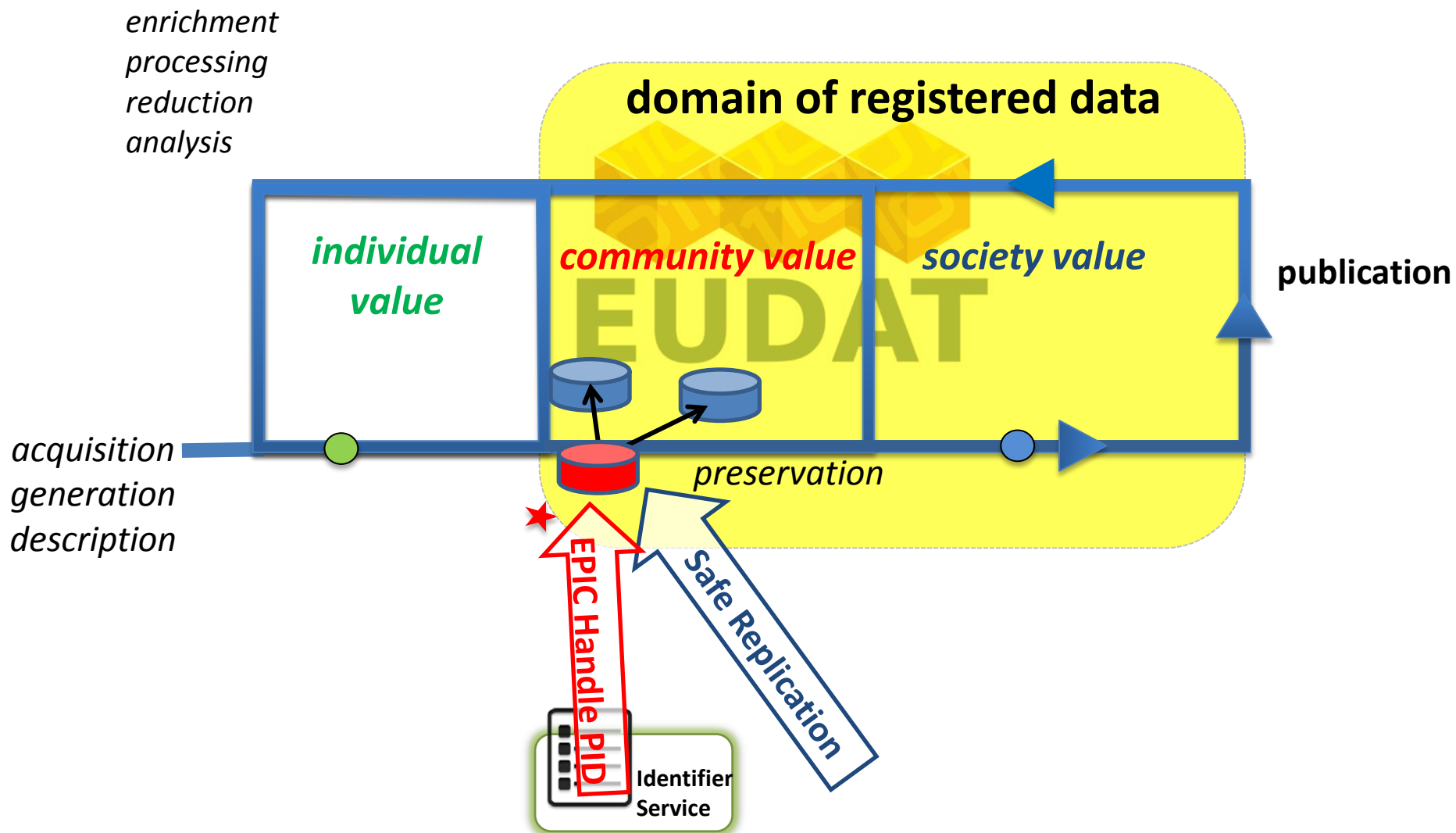
Johannes Reetz, RZG  
2nd EUDAT conference  
Rome, 29 Oct 2013

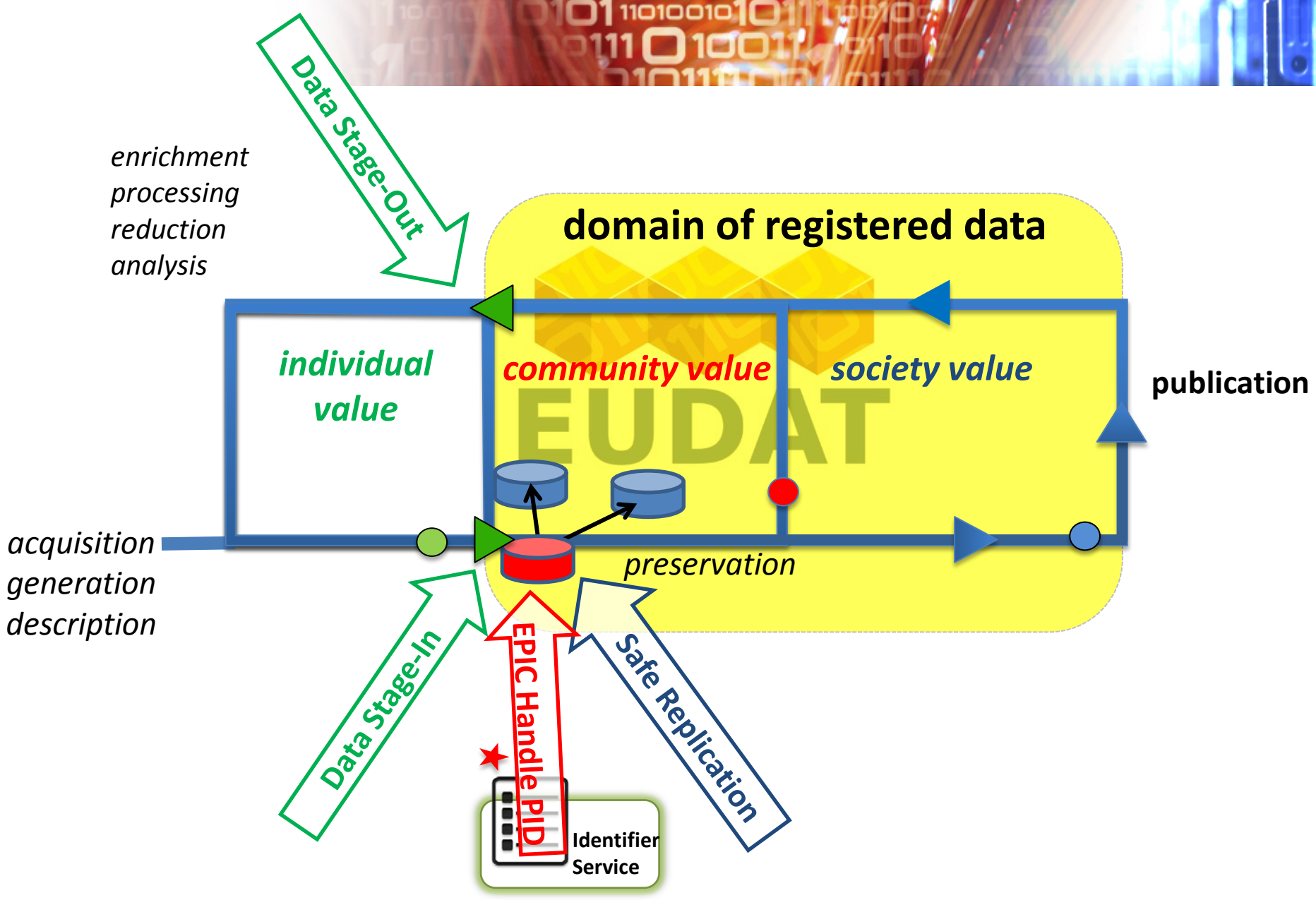


## The data pyramid - a hierarchy of rising value and permanence



Source: Adapted from Francine Berman, UC San Diego, in Communications of the ACM.







# B2SAFE

Replicate Research Data Safely

Replication from **repositories** to data storages in different administrative domains

- (long-term) archiving and preservation
- optimize access for users from different regions
- bring data closer to powerful computers for data analytics

## Typical policies triggered by Community Data Managers:

- *Replicate collection X from my repository to data centres A and B*
- *Store the replica safely for N years*
- *Check the integrity of the replica every M years*



# B2STAGE

Get Data to Computation

Transferring data from EUDAT storages to compute facilities

- reliable, efficient, easy-to-use tools to manage data transfers
- ingest data into the EUDAT domain of registered data



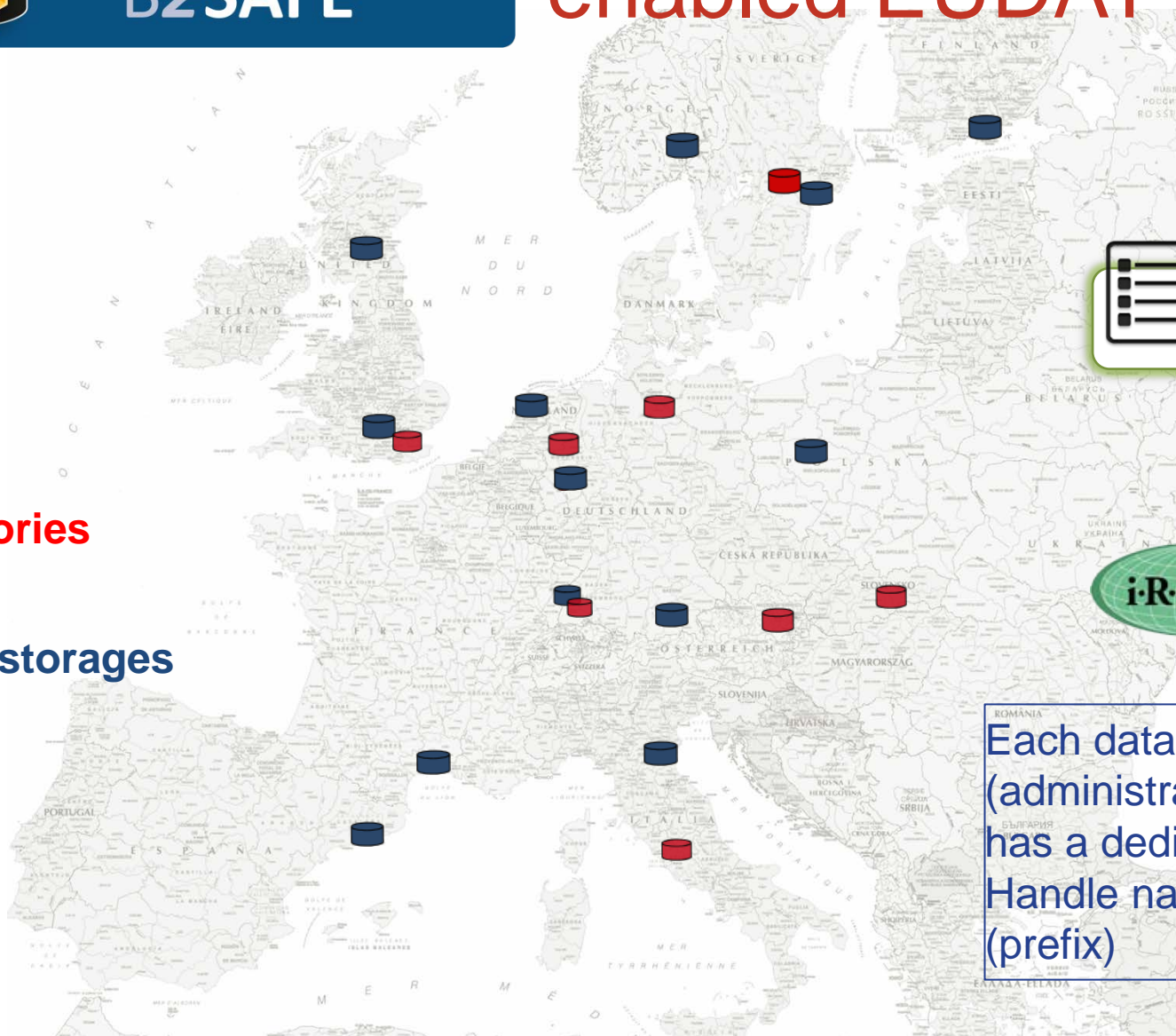


**B2SAFE**

# enabled EUDAT sites

 **repositories**

 **replica storages**



Each data centre (administrative domain) has a dedicated Handle namespace (prefix)



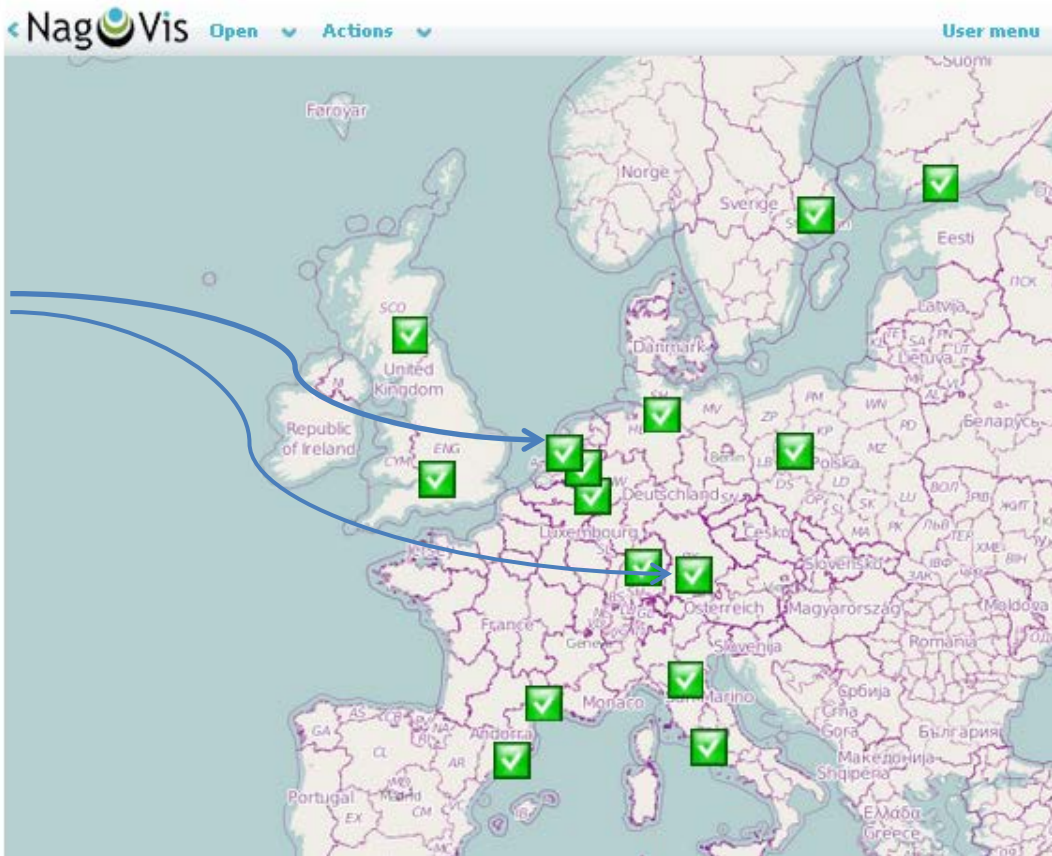
B2SAFE

# enabled EUDAT sites



Central Monitoring Server

<http://cmon.eudat.eu>



EPIC Handle Service



EPIC Handle Service



Each data centre (administrative domain) has a dedicated Handle namespace (prefix)





**B2SAFE**

# CLARIN (MPI-PL/TLA)

**production**





**B2SAFE**

# CLARIN (EKUT)

**production**







B2SAFE

# CLARIN (CUNI/LINDAT)

production





**B2SAFE**

# ENES (DKRZ/CMIP5)

**production**







**B2SAFE**

# EPOS (INGV)

**production**





B2SAFE



B2STAGE

VPH (UCL)

production



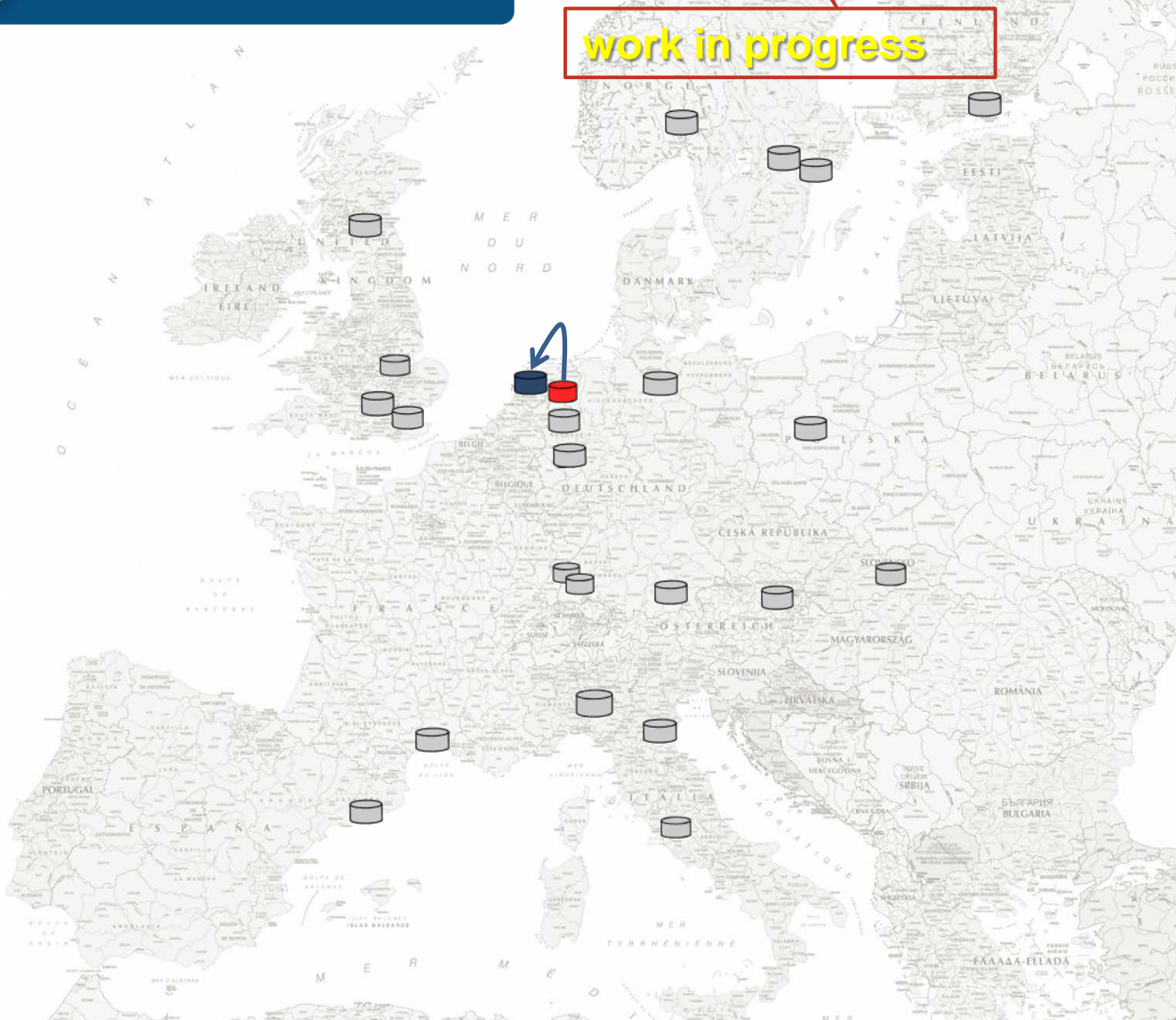




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# EPOS (ORPHEUS/ KNMI)

work in progress





**B2SAFE**

# INCF (KTH)

work in progress







**B2SAFE**

# DiXa (EBI)

work in progress





**B2SAFE**  
Replicate Research Data Safely

# use cases in production

14:00: **B2SAFE and B2STAGE: Core Services of the EUDAT CDI**, Johannes Reetz

14:10: **B2SAFE adoption in the EPOS community**, Claudio Cacciari

14:25: **B2SAFE for Replicating Linguistic Resources**, Willem Elbers

14:40: **B2SAFE Setup with a Dspace Repository**, Pavel Stranak

14:55: **VPH and the Biomedical Scientific Case for EUDAT**, Peter Coveney

15:10: **Community integrated B2STAGE tools**, Stefan Zasada/Giuseppe Fiameni

15:35: **B2SAFE Practical Policies**, Willem Elbers

15:45: **B2SAFE Data Policy Manager**, Maria Francesca Iozzi



**B2STAGE**  
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# practical policies and policy management

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## SAFE REPLICATION AND DATA STAGING - Speakers



**Johannes Reetz**  
RZG / MPG

**Peter Coveney**  
University College London



**Claudio Cacciari**  
CINECA

**Stefan Zasada**  
University College London



**Willem Elbers**  
Max-Planck-Institute  
for Psycholinguistics

**Giuseppe Fiameni**  
CINECA

**Pavel Stranak**  
Charles University

**Maria Francesca Iozzi**  
SIGMA/University of Oslo