

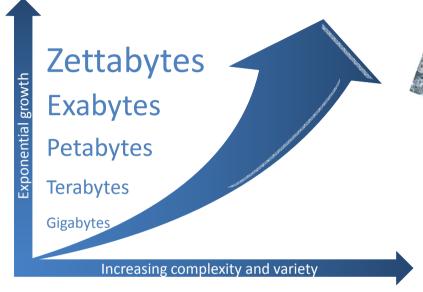
EUDAT: a crossdisciplinary data infrastructure in Horizon 2020



Kimmo Koski
EUDAT Project Coordinator
CSC – IT Center for Science Ltd



Things get more complex...







- Where to store it?
- How to find it?
- How to make the most of it?

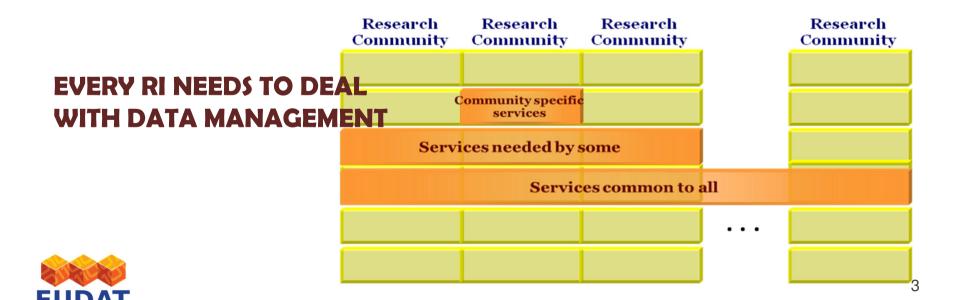




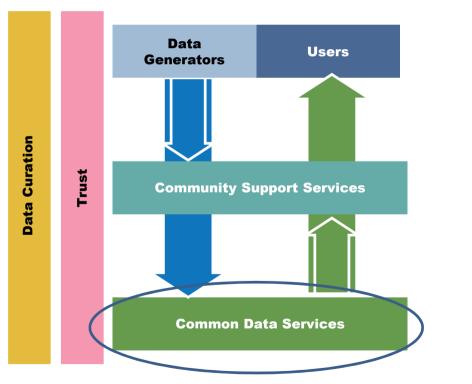


... and we need to promote synergy

- The worst case scenario: 300 RI equals 300 incompatible self-made ICT systems
- What can we do to promote collaboration and re-use of e-infrastructure?



The Collaborative Data Infrastructure -A framework for the future? -











European Data





- Duration: 36 Months

- Budget: 16.3 M€ (9.3M€ EC)

- EC Call: INFRA-2011-1.2.2

- Consortium: 25 partners from 13 countries

• National data centers, technology providers, research

- Objectives:

- Cost-efficient and high-quality CDI
- Meetings users' needs in flexible and sustainable way
- Across geographical and disciplinary boundaries

http://www.eudat.eu



Consortium















































Max-Planck-Institut

für Meteorologie





















User Forums + 25 communities





VERGE















EUROPEANPLATEOBSERVINGSYSTEM









Dandata_{europe}

































Metadata Catalogue

Aggregated EUDAT metadata domain. Data inventory



Data curation and access optimization



Data Staging

Stage data to computation



AAI

Network of trust among authentication and authorization actors



PID

Identity
Integrity
Authenticity
Locations





Simple Store

store (simple

Researcher data

upload, share and

New services to come



EUDAT Box

dropbox-like service
easy sharing



Semantic Anno

checking & referencing



Dynamic Data

immediate handling





Towards Horizon2020

Synergy

Sustainability

Trust

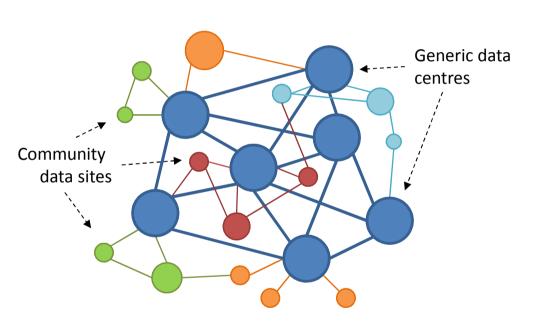
Global collaboration

User driven services

Joint e-infrastructure roadmaps



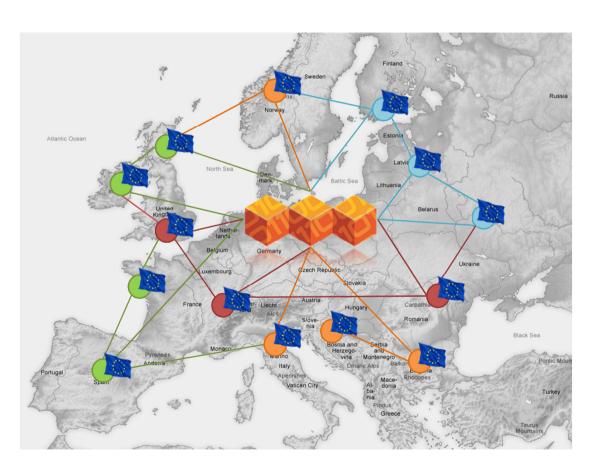
A Network of Trusted Centers



- Strong and sustainable generic data centers with existing trusted relationships
- Each having specific relationship with research communities
- EUDAT is about providing solutions in a federated environment



Bridging National and European solutions



 Strong requirement from researchers and funders

Path to Sustainability





Science is global. So should be the einfrastructure and related services



- Research collaborations are global
- E-Infrastructures must follow
 - Examples from the networks
- Sustaining Global Forums
 - RDA, CODATA





Three priorities towards H2020

- We need to build trust between researchers and einfrastructure providers
 - Synergy, efficiency, proper workload division
- What we do in European level need to link tightly to national and global activities
 - Most of the funding for e-infrastructure is national
 - Researchers don't want to have too many layers
- The services need to be user driven
 - What to do: user communities, how to implement: technology providers
 - Co-design: EUDAT has user communities as partners, not only as customers





But remember that in order to be successful...



... innovative and optimistic attitude is the main thing





