



research
data
netherlands

Enabling the re-use of research data: organising stakeholders and infrastructure in the Netherlands

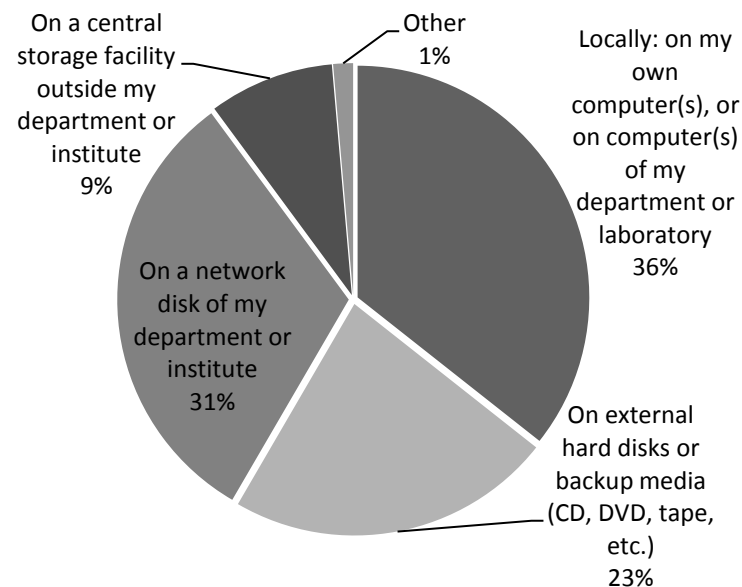
Ingrid Dillo, deputy director DANS

RECODE conference, Athens 15-01-2015

Challenges in sharing data

- **Technical challenges:** standardisation, accessibility, discoverability, preservation and curation, data security, etc.
- **Legal and ethical challenges**
- **Cultural challenges**


“The coolest thing to do with your data will be thought of by someone else”



Why not share?

- Those data are mine!
- Discredit my findings
- Still analyzing the data
- I cannot **trust** the data produced somewhere else





“Perhaps the biggest challenge in sharing data is trust: how do you create a system robust enough for scientists to trust that, if they share, their data won’t be lost, garbled, stolen or misused?”

The Data Harvest:

How sharing research data can yield knowledge, jobs and growth

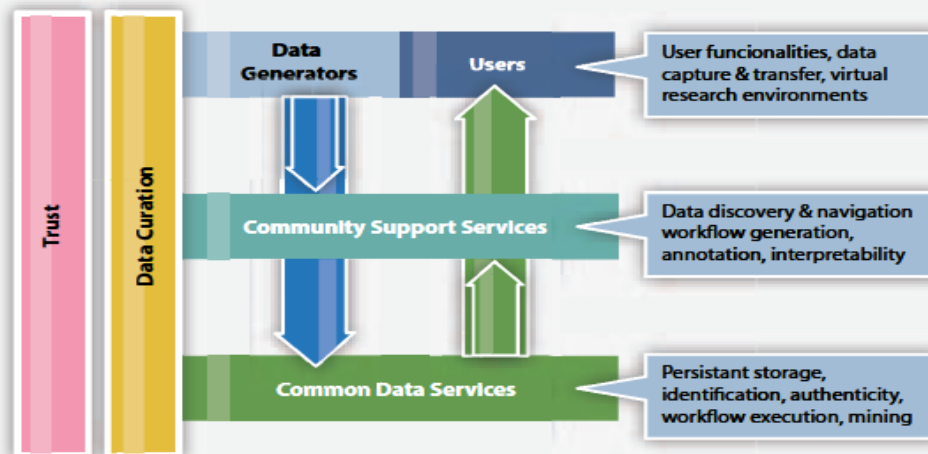
An RDA Europe Report

December 2014

Riding the Wave (Oct 2010)

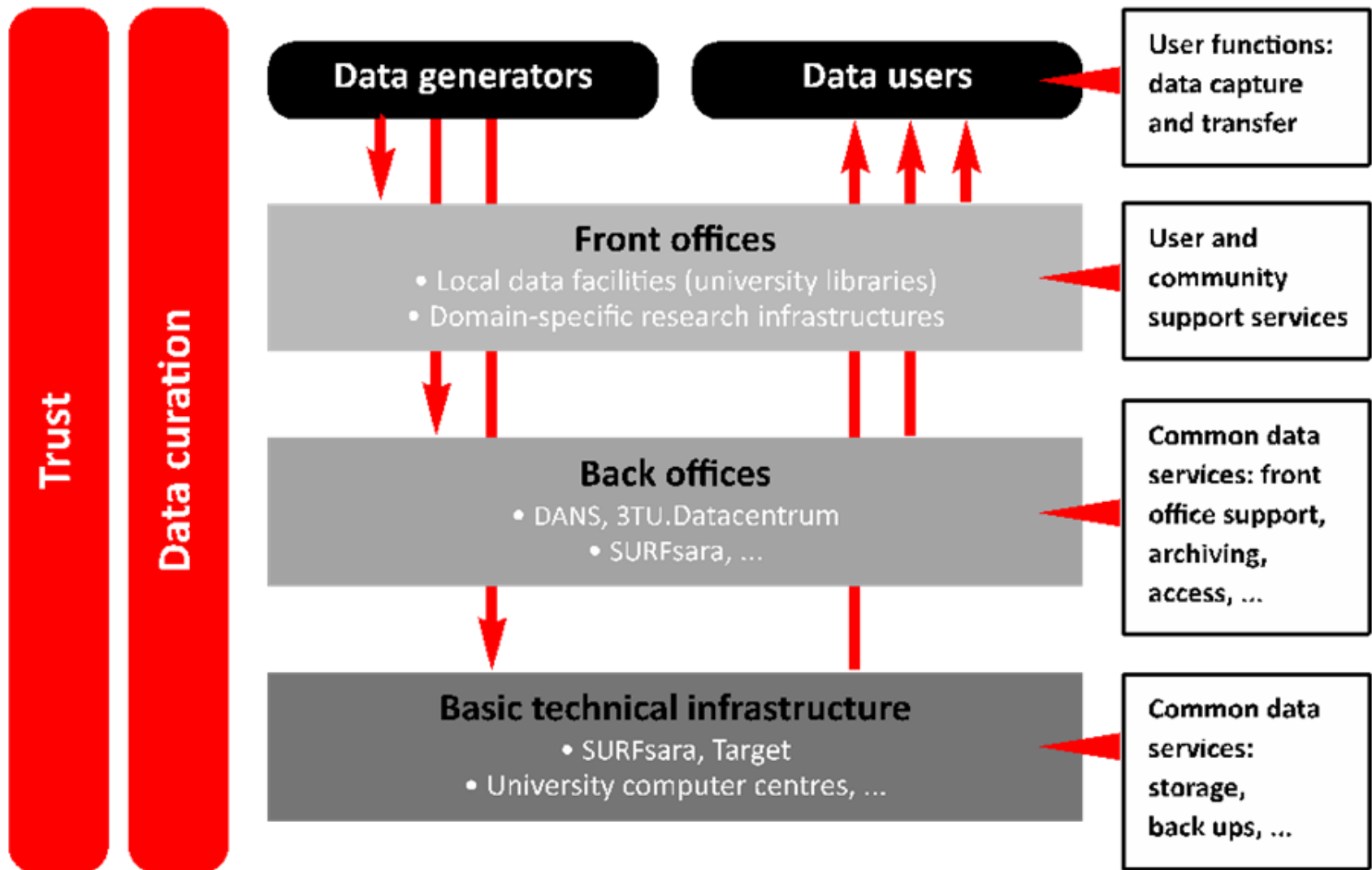


The Collaborative Data Infrastructure - a framework for the future



1st recommendation: Develop an international framework for a Collaborative Data Infrastructure

Federated data-infrastructure in the Netherlands





Services in the FOBO model

- Information and awareness raising on data management and curation
- Training (data experts at FOs and researchers)
- Storage (during and after the research)





Back office: roles and responsibilities

Focus on expertise and long term storage:

- Expertise and innovation in the area of data curation, data management and re-use of data
 - Providing expertise to the research community: contributions to FO training courses for researchers
 - Providing expertise to the front office: training courses for data experts, consultancy, contact persons
 - Long term preservation of data in a **trustworthy** digital repository (certification; at least Data Seal of Approval)

Data Seal of Approval

- DANS initiative (2005/6)
- International Board
- 16 guidelines
- Self assessment
- Transparency
- 37 seals awarded since 2010;
35 on the way



The research data:

- can be **f**ound on the Internet
- are **a**ccessible (clear rights and licenses)
- are in a usable format (**i**nteroperable)
- are **r**eliable
- can be **r**eferred to (persistent identifier)

BO Organisations

- 3 organisations, serving different disciplines



Data Archiving and Networked Services

DANS

SURF SARA

3TU.
Datacentrum

Institute of Dutch
Academy and
Research Funding
Organisation
(KNAW & NWO)
since 2005

First predecessor
dates back to
1964 (Steinmetz
Foundation),
Historical Data
Archive 1989

Mission: promote
and provide
permanent access
to digital research
information

Data Archiving and Networked Services

DANS



3TU.Datacentrum...

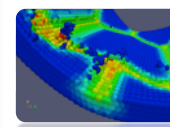
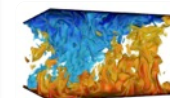
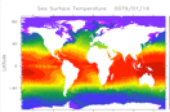
3TU.Datacentrum offers the knowledge, experience and the tools to archive research data in a standardized, secure and well-documented manner. It provides the research community with:

- A long-term archive for storing scientific research data
- Permanent access to, and tools for reuse of research data
- Advice and support on data management

National center for high performance computing & data services

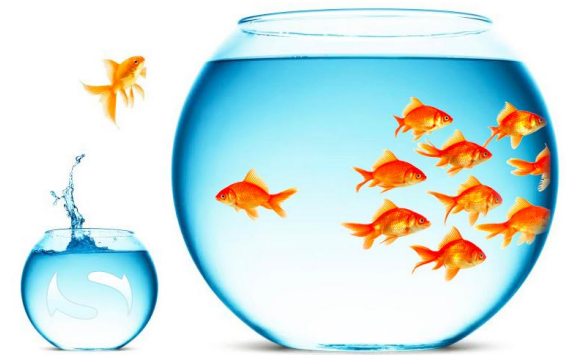


- **Mission:** SURFsara supports research and education in the Netherlands by development and deployment of HPC-infrastructure, services and expertise
- **Services:** SURFsara offers integrated Dutch national ICT research infrastructure and provides **services** in the areas of high performance computing, cloud, **long-term data preservation**, big data analysis & visualization
- **SURF:** SURFsara is an operating company of SURF, the collaborative organization for higher education institutions and research institutes in the Netherlands, aimed at breakthrough innovations in ICT



Research Data Netherlands (RDNL)

- Mission: the promotion of sustained access and responsible re-use of digital research data
- BO collaboration in order to serve the FO better and more efficient
- training data experts, Dutch Dataprize, data acquisition, exchange of technical expertise
- Expanding areas of collaboration
- Open to other trustworthy digital repositories



Challenges

- Expanding the model over all universities (institutional agreements)
- Creating one single back office “desk” (RDNL)
- Creating a technical infrastructure for automatic data ingest
- Developing a business model to cover the costs



Concluding remarks

- National and international funders are formulating open data policies
- Need to enable researchers to comply with these policies through awareness raising, DM training, high quality and reliable storage facilities
- Meet these researcher needs as effectively and efficiently as possible
- Federated data-infrastructure to enable stakeholders to collaborate, coordinate activities and divide roles and tasks based on their specific expertise (economies of scale, selection of data).
- Small country
- The total picture is for more complex: international and discipline specific infrastructures



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The work DANS does
summarized in a 4 minute
video, introduced by
Neelie Kroes

<http://youtu.be/HJbo-OAaJ1I>

Thank you for your attention

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<http://www.researchdata.nl/en/>

3TU.Datacentrum

Data Archiving and Networked Service
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*Research Data Netherlands is een samenwerking
van 3TU.Datacentrum, DANS en SURFsara.
www.researchdata.nl*