Data Archiving and Networked Services

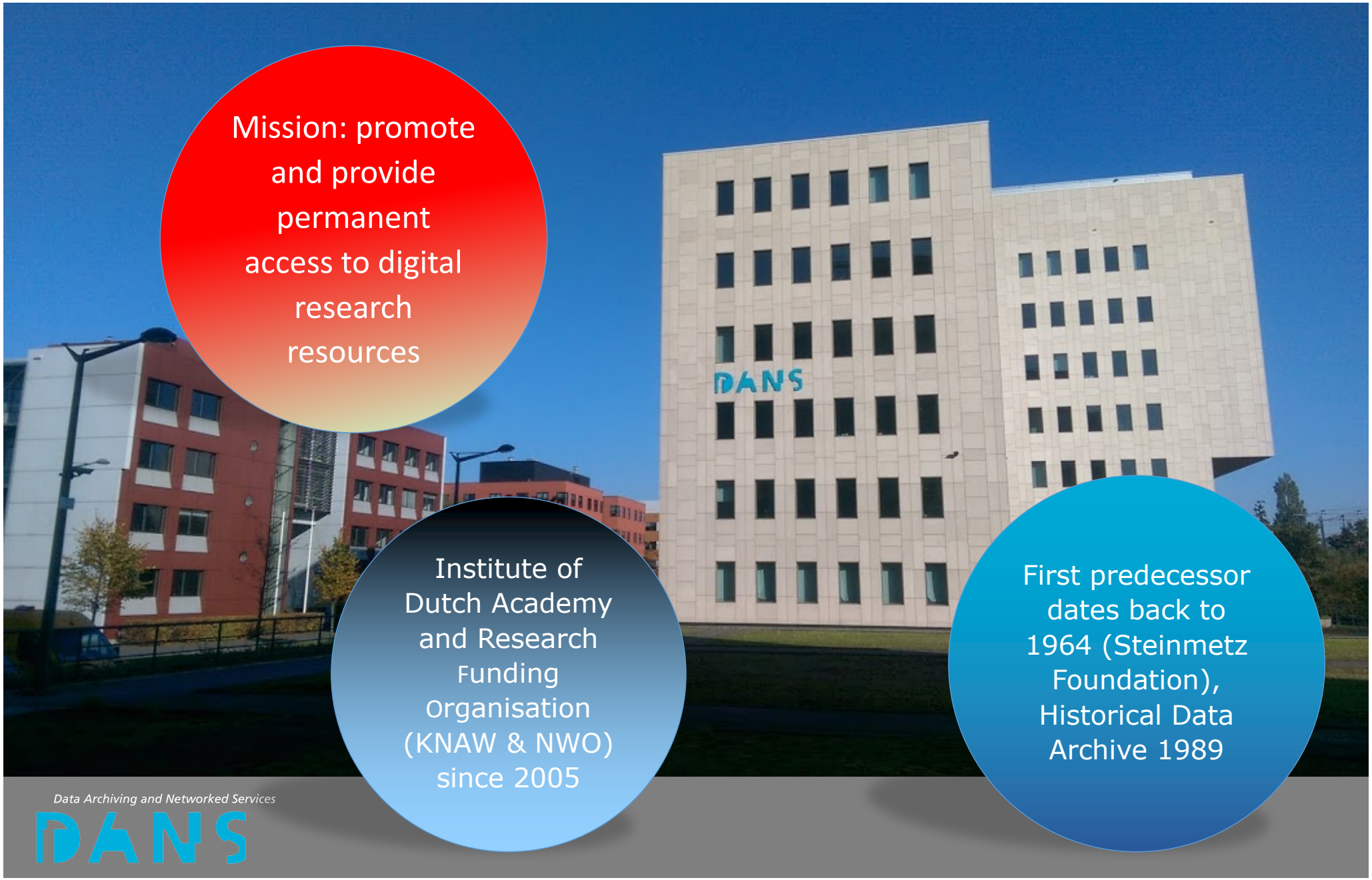
DANS

Enabling data sharing in the Netherlands

Ingrid Dillo
Deputy Director DANS

Canadian National Data Services Framework Summit
Montreal, 21 September 2017

DANS organisation



Mission: promote and provide permanent access to digital research resources

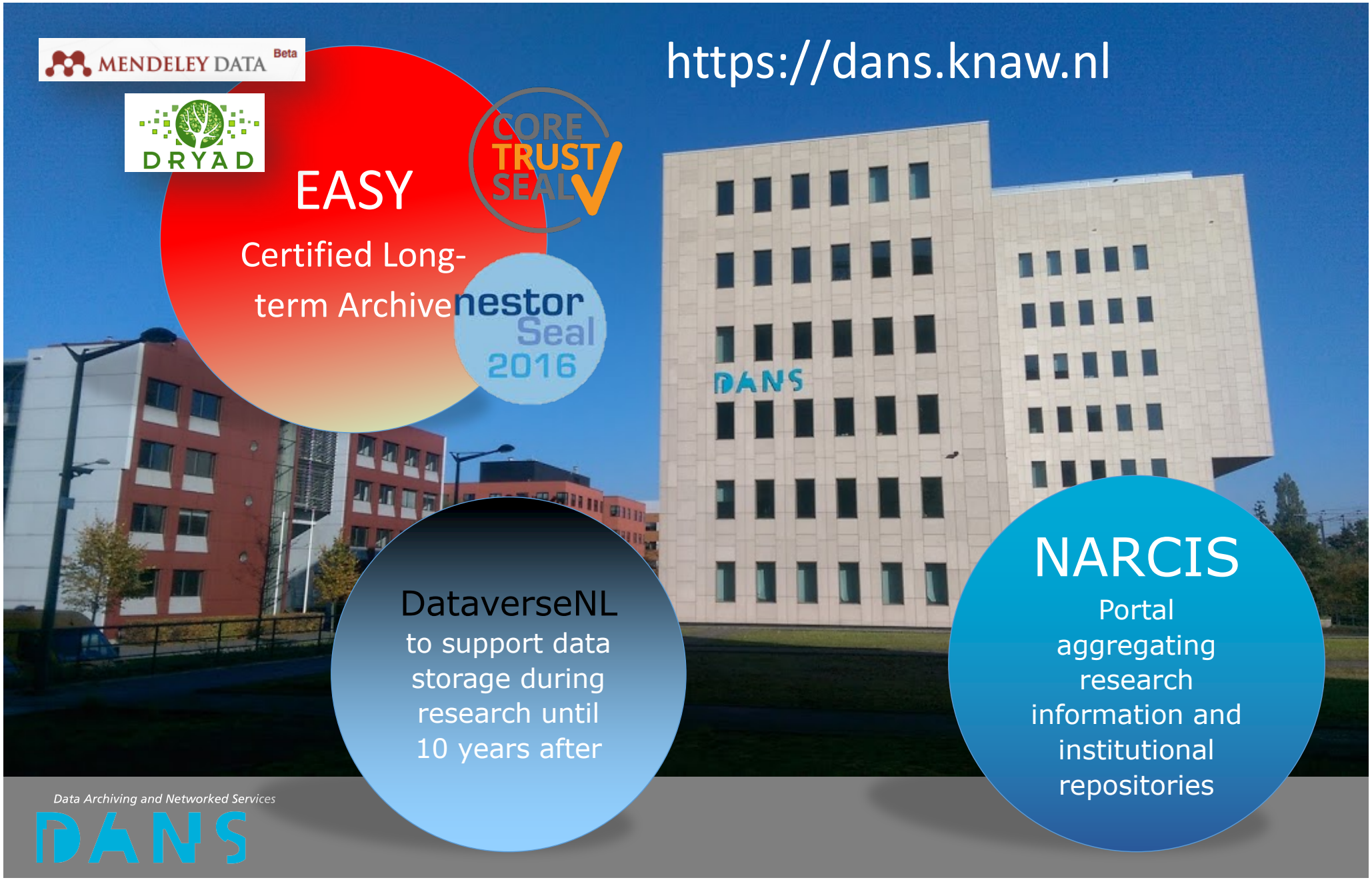
Institute of Dutch Academy and Research Funding Organisation (KNAW & NWO) since 2005

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

Data Archiving and Networked Services

DANS

DANS core services



national plan open science

Nederlands

Search on the site

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National Plan Open Science

Researcher meeting

Results meeting: National Plan Open Science and you

"Where Society feels the need to understand the world it regularly turns to the scientific community for analysis, insight and answers. Open science allows the public and scholars to keep the dialogue open as it enables all of us to provide a solid basis for decision making and develop opportunities for the future. I hope it provides also a source of

open access.nl

NL / EN

News and events | What is open access? | In the Netherlands | Your role | Tools | References

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Publishing in open access? Look into the OA-deals with academic publishers. Some publishers are only publishing in OA. Or do you mean to publish in the repository of your university? For help and more information you can contact your University Library

@Open_access

NWO's Incentive Fund for Open Access to end on 1 January 2018 https://t.co/dDnGdJATwN

rdni research data netherlands

GO FAIR

Global Open FAIR Implementation Nodes

EU 2016

The Netherlands EU Presidency 2016

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Home > Events

Events

Apr 04 Open Science Conference

Expert or political meeting | Ministry of Education, Culture and Science | Competitiveness

4 April 2016 - 5 April 2016
Europe Building, Amsterdam

Open Science is a key priority of the Dutch Presidency. The Netherlands is committed to open access to scientific publications and the best possible re-use of research data, and it would like to accelerate the transition this requires.

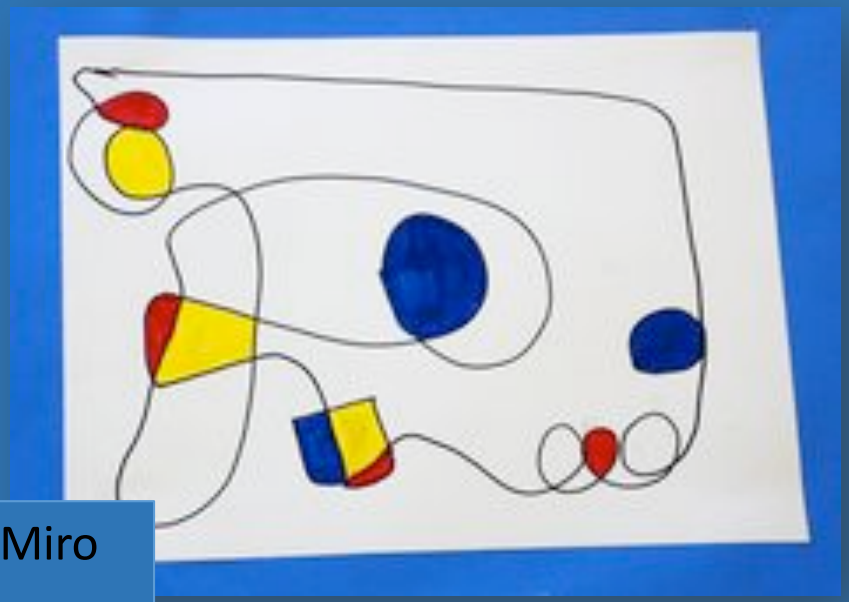
National Coordination Point Research Data Management

Reality?

Dream?

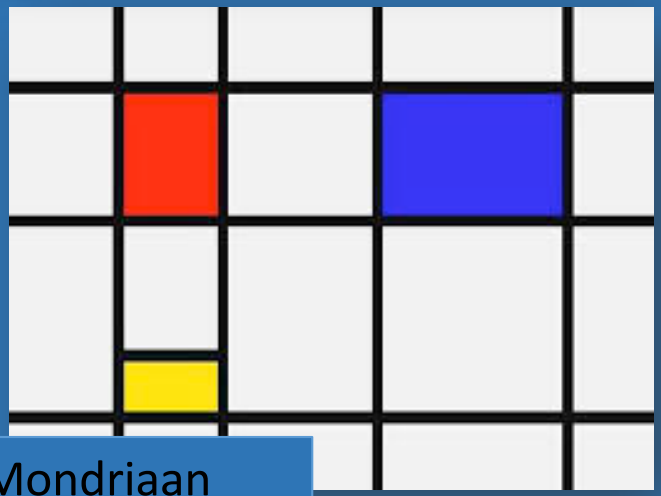
Dutch (infra)structure in cheese & art

Emmenthaler



Miro

Gouda



Mondriaan

RDM Actors

Research Institutions:
- Universities: 14
- University Medical Centers: 8
- Research Institutions: KNAW (15), NWO (9), TNO
- Research Institutes/departments in the private sector: eg. Philips
- Schools/Universities for Applied Science: 37

Umbrella Organisations (Policy/Governance)
- Association of Universities in the Netherlands (VSNU)
- Netherlands Federation of University Medical Centers (NFU)
- Royal Netherlands Academy of Arts and Sciences (KNAW)
- Netherlands Organisation for Scienctific Research (NWO)
- Netherlands Association of Universities of Applied Sciences (VH)
- Netherlands Organisation for Applied Scientific Research (TNO)

Government
- Ministry of Economic Affairs
- Ministry of Education, Culture & Science

Funding
- ZonMW: Funding for health research
- NWO: Funding for general research

RDM Actors

Networking Organisations :

- SURF: ICT for higher education & resesarch
- Netherlands eScience Center
- 4TU Research Data (4 Technical Universities)
- Research Data Netherlands (DANS, SURFsara, 4TU)
- Dutch Tech Center for Life Sciences (DTL)
- eHumanities.nl (KNAW)
- Network Digital Heritage (libraries, archives, heritage institutes: KB, NA, S&V, CHA (RCE), KNAW, DEN)
- National Coalition Digital Preservation
- Research Infrastructures related cooperation (e.g. CLARIAH)

Networking Initiatives

- SURF: Special Interest Groups
- UKB: Coalition of University Libraries and National Library of the Netherlands


SCIENCE EUROPE
Shaping the future of research
netherlands eScience center
NFU
NEDERLANDSE FEDERATIE VAN UNIVERSITAIR MEDISCHE CENTRA
CODATA
clio infra
KNAW
RDA
RESEARCH DATA ALLIANCE
SURF SARA
Centraal Bureau voor de Statistiek
TU Delft
NCDD
linking european data resources
euroCRIS
Current Research Information Systems
UNIVERSITEIT TWENTE.
europeana cloud
TILBURG UNIVERSITY
OpenAIRE
rijksuniversiteit groningen
NWO
Netherlands Organisation for Scientific Research
EUDAT
CL@RIAH
DANS
rdnl
research data netherlands
4C
EHRI
EUROPEAN HOLOCAUST RESEARCH INFRASTRUCTURE
KB
Koninklijke Bibliotheek
DARIAH EU
Landelijk Coördinatiepunt Research Data Management
EOSCpilot
The Dataverse Network Project
Universiteit Utrecht
UNESCO-IHE Institute for Water Education
TU Delft
APARSEN
Alliance Permanent Access to the Records of Science in Europe Network
NPSO
ZonMw
DTL
DUTCH TECHCENTRE FOR LIFE SCIENCES
The Language Archive
Rijksdienst Cultureel Erfgoed
RDA
Research Data Sharing without barriers
RESEARCH DATA ALLIANCE
SCIENCE EUROPE
Shaping the future of research
UVH
3TU.Datacentrum
eHumanities
Royal Netherlands Academy of Arts and Sciences
DwB
CentERdata
HBO Kennisbank
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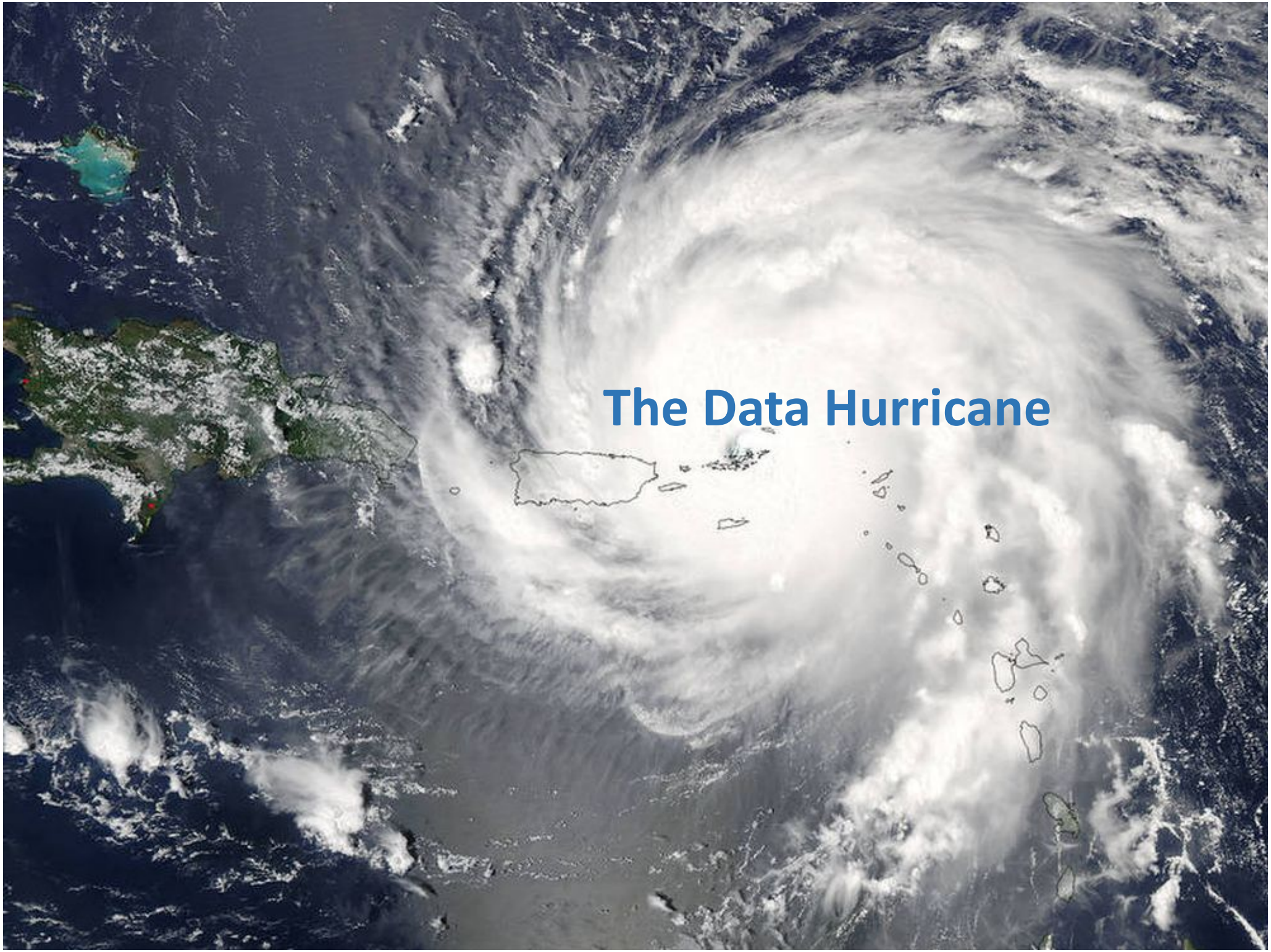
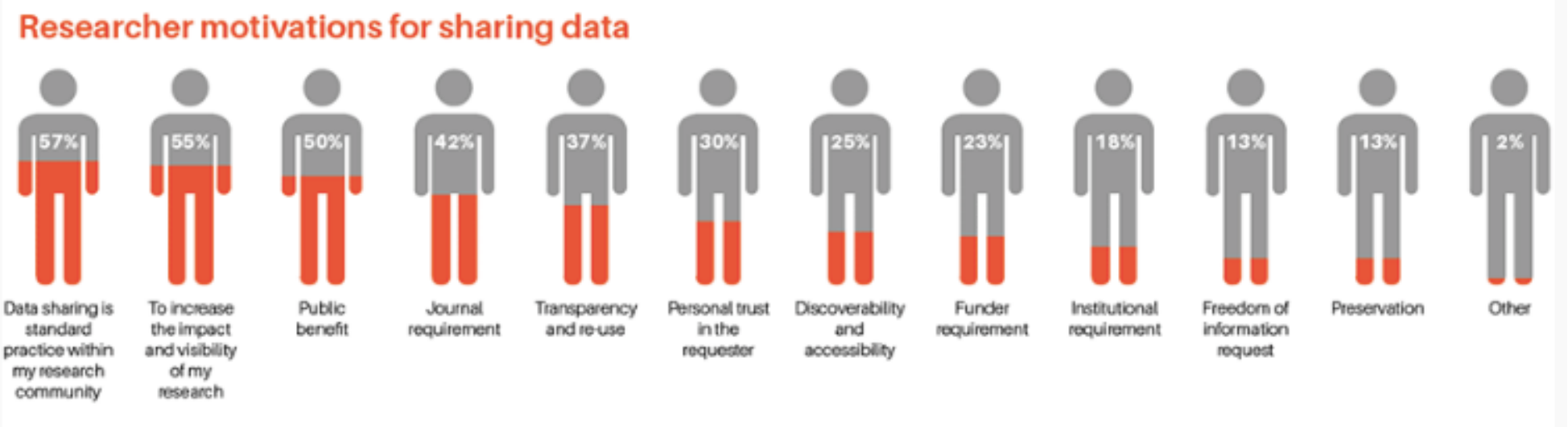
PARTHENOS
Pooling Activities, Resources and Tools for Heritage E-research Networking, Optimization and Synergies
CLARIN
Data Archiving and Networked Services
DANS



The Data Hurricane

Motivations for data sharing



Source: Wiley's Research Data Insights Survey (2014).
Retrieved: December 23, 2016 . Figures have been redrawn from the originals.

Data sharing incentives

- Influence of sharing norms within direct research circle
- Professional rewards for data sharing

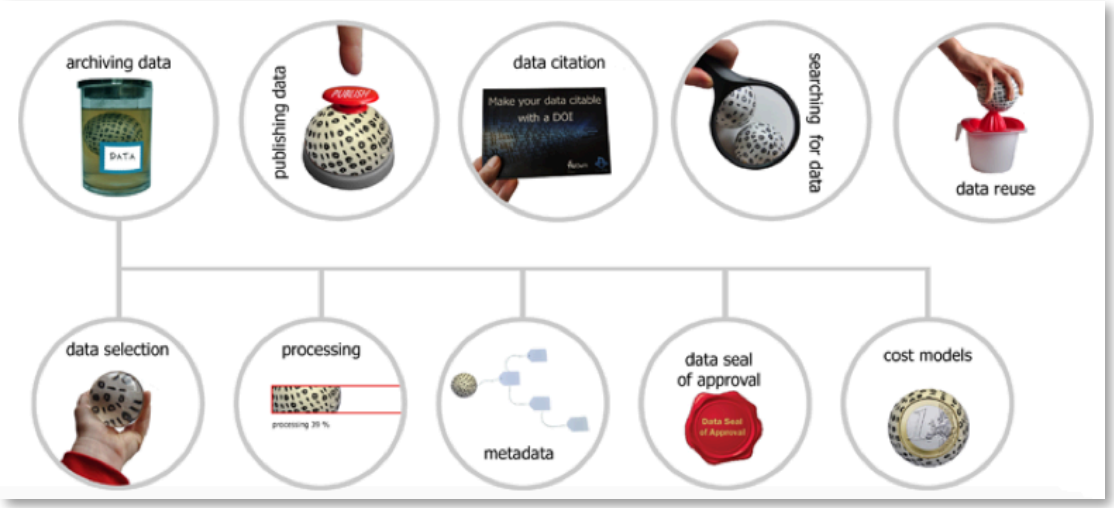
- External drivers:
  - Publisher requirements (DAPs)
  - Funder policies/mandates

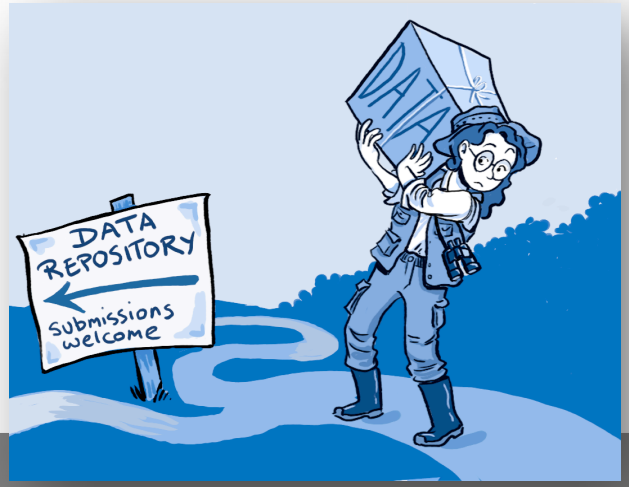
http://repository.jisc.ac.uk/5662/1/KE_report-incentives-for-sharing-researchdata.pdf

Other data sharing challenges

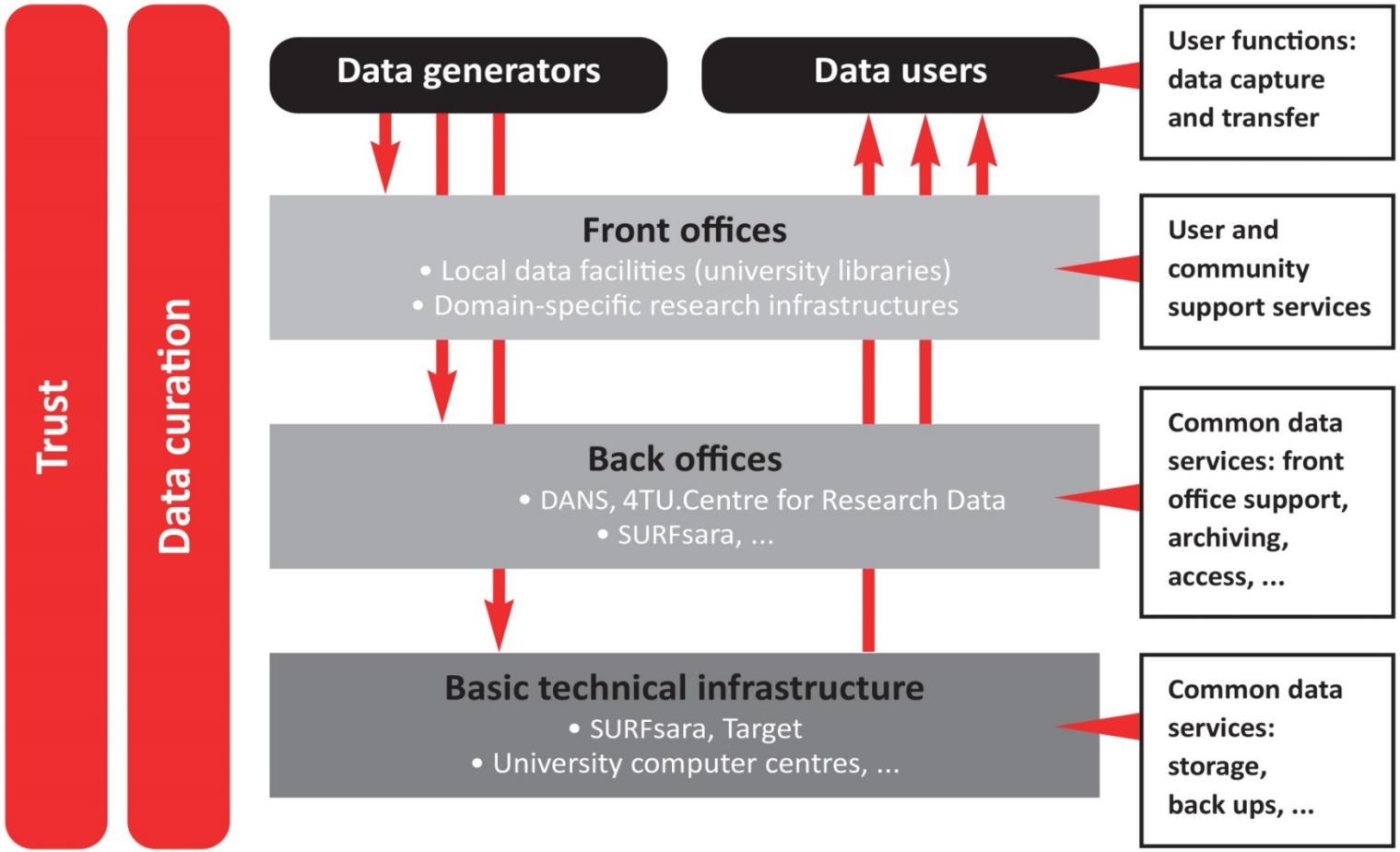
Enabling the researcher to comply with open data requirements:

- awareness raising, training and support for data management
- infrastructure for preservation of and long-term access to the data

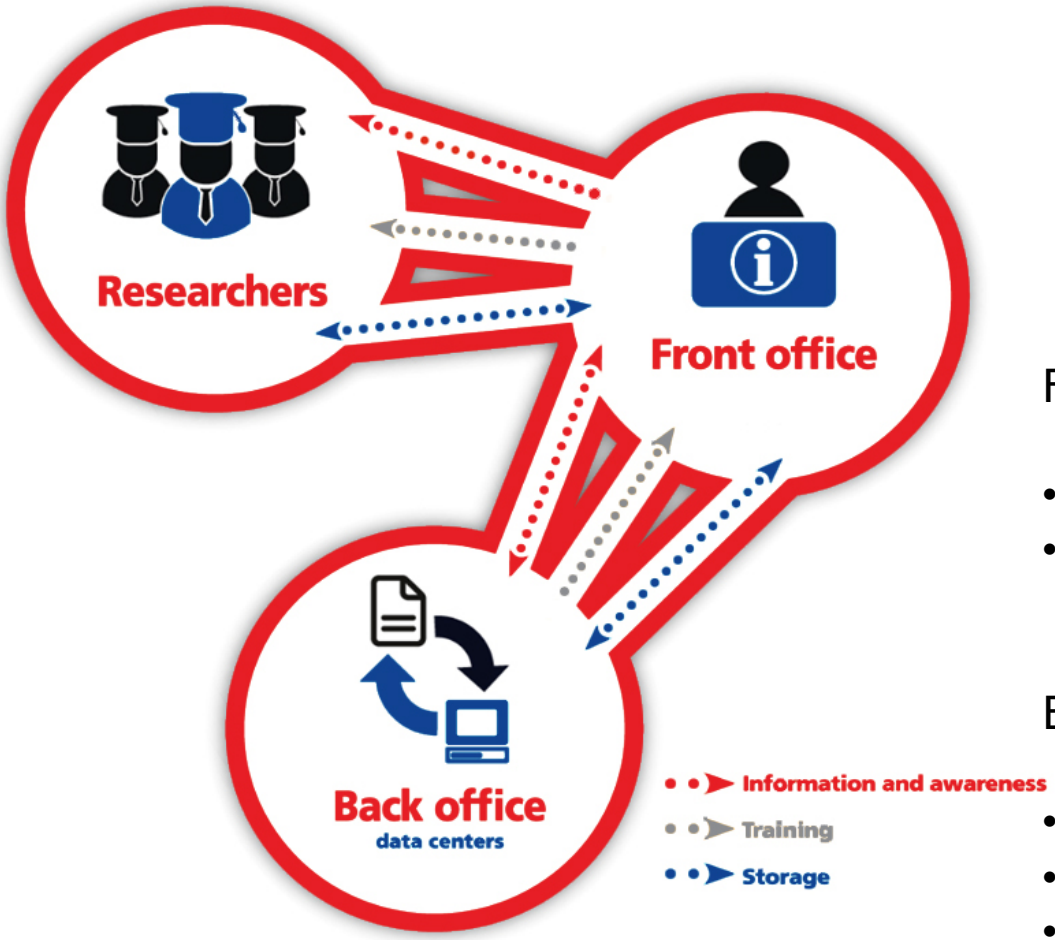


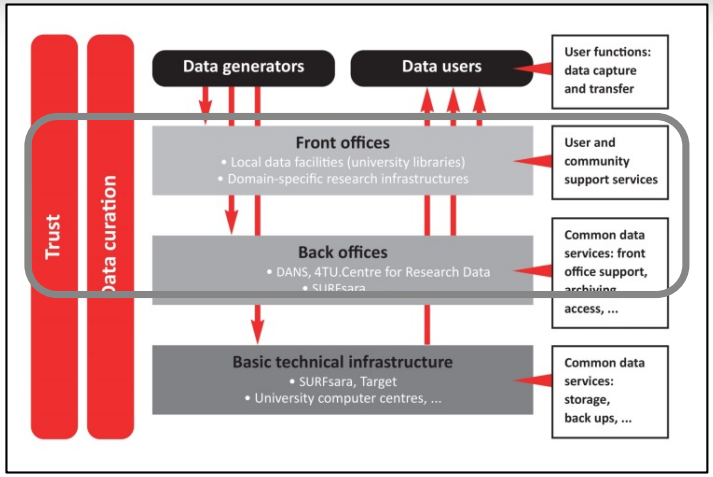


Federated infrastructure for research data



Front-office Back-office model





FO-BO model

- Division of labour
- Economies of scale

Backoffice

- Curation and preservation expertise
- Training of local data experts
- Long-term preservation infrastructure

What unites us?

- Our mission: to promote sustainable access to and responsible reuse of scientific research data in all phases of the research.

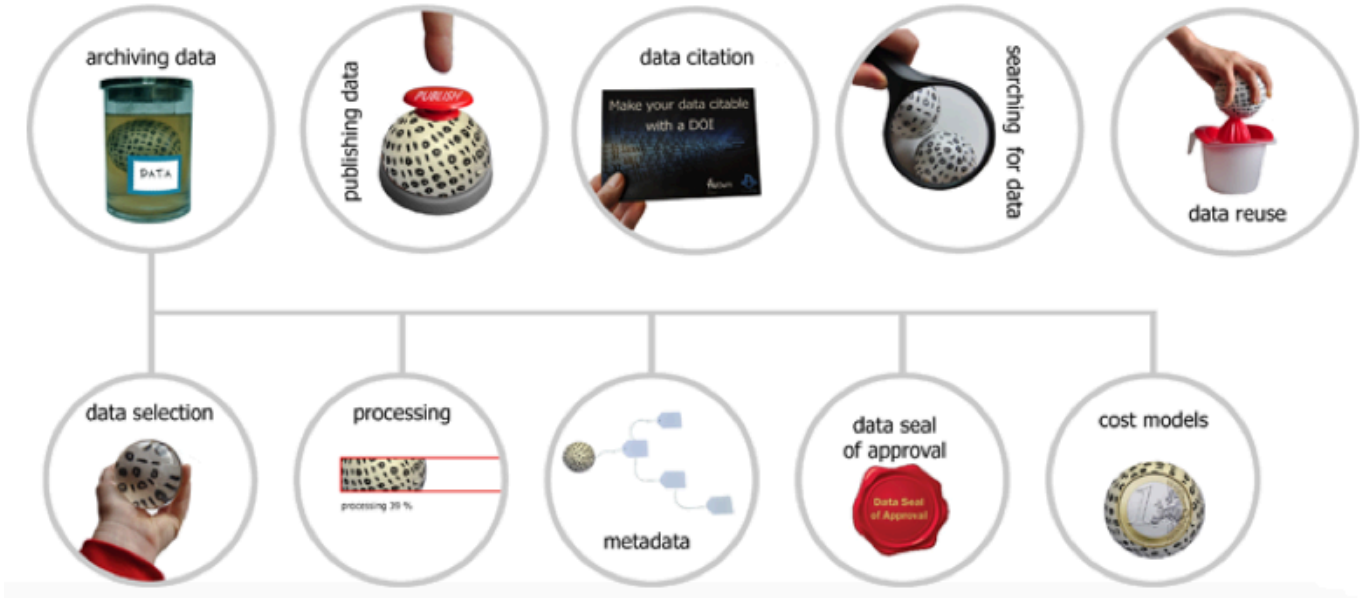
What do we have to offer?

- Certified trustworthy long-term data repositories
- Advice on policies and implementation of data stewardship
- Training, e.g. course "Essentials 4 Data Support"
- Dutch Data Prize

More information?

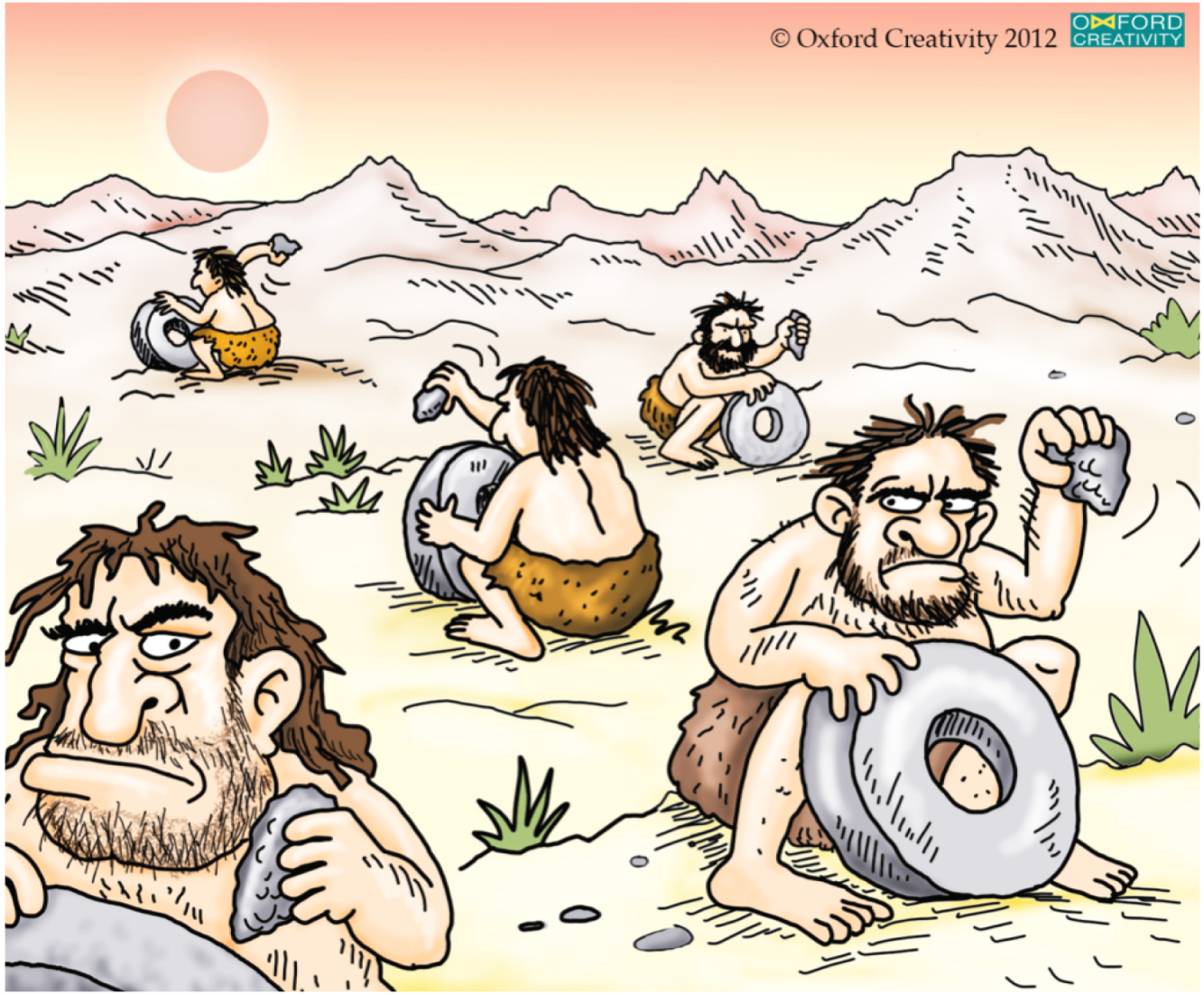
General: http://www.researchdata.nl/en or info@researchdata.nl

Course: http://datasupport.researchdata.nl/en or cursus@researchdata.nl



Problems solved?

- Fragmentation and overlap in activities and approaches
- Re-inventing the wheel; not taking advantage of expertise and experiences



LCRDM

National Coordination Point Research Data Management

Objective

to support the most effective use of data in research and education by strengthening the knowledge pooling and knowledge sharing on all aspects of research data management

Approach

- obtaining a good overview of existing initiatives
- sharing successful approaches and results and promoting their re-use
- identifying gaps and putting them on the agenda

	2015	2016				2017			
	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
1. Facilities and data infrastructure Topics - Formulation of requirements, access, security, format, data standards (interoperability) - Facilities required for various research phases and types of data - How can we facilitate big data, long-term solutions, software sustainability?	Preparations: Put together team, current situation, planning	Realisation phase		Delivery: Statement of Requirements, overview of facilities, including long-term	Evaluation phase and determine follow-up		Realisation phase 2	Evaluation phase 2	
2. Legal aspects and ownership Topics - Who is allowed to do what with research data? - prerequisites and responsibility for keeping data available and accessible - How to deal with confidential data?	Preparations: Put together team, current situation, planning	Realisation phase		Delivery: Model guidelines, decision tree for researchers	Evaluation phase and determine follow-up		Realisation phase 2	Evaluation phase 2	
3. Financial aspects Topics - Financing data-management-related activities - Sustainable funding - Possibility/desirability of harmonising grant provider applications	Preparations: put together team, current situation, planning	Realisation phase	Delivery: cost sheet, costs definition, costs policy	Evaluation phase and determine follow-up		Realisation phase 2	Evaluation phase 2		
4. Support of the researcher Topics - Optimal organisation of the RDM triangle in the university sphere - What is the role of a Research Data office? - Determine the need for education and training for researchers per research phase		Preparations: put together team, current situation, planning	Realisation phase		Delivery: List RDM training courses, map needs	Evaluation phase and determine follow-up		Realisation phase 2	Evaluation phase 2
5 Awareness / Engagement Topics - Stimulate collaboration - Widen the scope of those involved - Exchange knowledge		Preparations: put together team, current situation, planning	Realisation phase	Delivery: virtual platform, list RDM projects, SWOT analysis, engage experts	Evaluation phase and determine follow-up	Realisation phase 2	Evaluation phase 2		

Community Building

72 working group members, dealing with 17 topics in the 5 focus areas

Visible, knowledgeable and efficient RDM community has been build, under the LCRDM umbrella

Concrete products

over 40 products: inventories, advices, tools, models, reference cards etc.

TOPICS	PRODUCTS
Financial Aspects of RDM:	
• **Putting Financial Aspects of RDM at governance level**	• Position Paper Financial Aspects RDM • Round Table Financers & Governance
Research Support & Advise:	
• **DMP**	• Inventory DMP templates • Document DMP Basic Criteria • Inventory DMP support (tips & tricks) • Inventory DMP reviewers (via questionnaire) • Inventory & Evaluation DMP tools • Advise DMP Tooling
• **FAIR data**	• Inventory FAIRness Data-repositories in NL (TU Delft) • Position Paper FAIR Data
• **Training**	• Inventory Training – wiki • Overview common elements curricula –wiki • Advise on Profiles related Training portfolio's • RDM-training MOOC
• **Safe data**	• Software sustainability – advise • Informed Consent Examples • Decision Tree Privacy related research & Data sharing
Engagement:	
• **RDM-eisen funders**	• Overview RDM-requirements funders
• **Incentives**	• Position paper Incentives • Overview Use-Cases • Teaching modules, information material
• **Use Cases**	• Inventory & interviews
• **Shades of Open**	• Mind Map
• **Engagement Sessions**	• As appears

Problems solved?

- Adoption of outcomes by stakeholders
- Creation of a structural RDM collaboration
- Funding
- Human resources in the data domain
- Connection with the researchers

Thank you for listening

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