

Sharing, collaborating, and co-operating: the approach of DANS on the journey towards to the European Open Science Cloud

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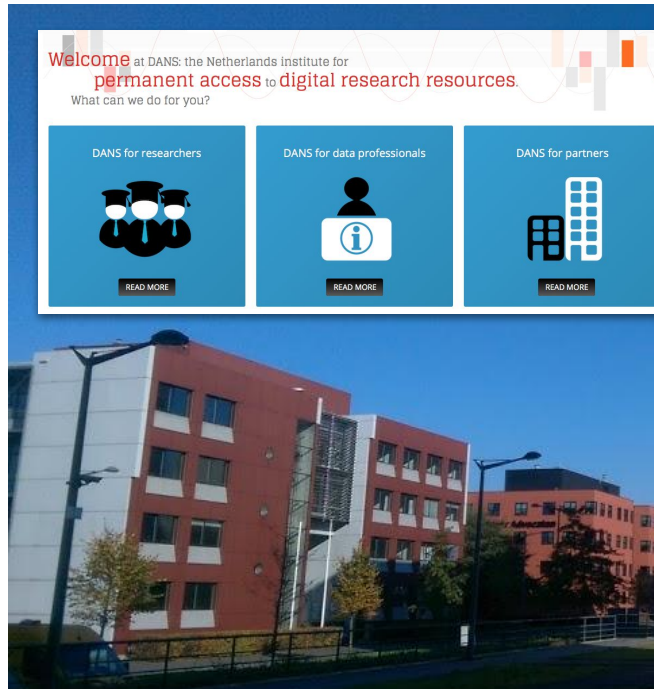


DANS

Mission: Promote
and provide
permanent access
to digital research
resources

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

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



DANS Expertise

We share expertise and collaborate with partners globally to promote **Open Science** and the **FAIR Principles**.

Our Research & Innovation Group publishes **peer-reviewed journal articles**; and we produce white papers, training materials, tools, and online resources related to topics from **Research Data Management (RDM)** to **Scientometrics**, **Digital Humanities** and **Knowledge Organization Systems (KOS)**.

We deliver Face-to-Face and online training on RDM and FAIR (including **Train-the-Trainer**) as well as collaborating to provide **educational programs and training events** such as bootcamps, and summer schools with partners like EUDAT, OpenAIRE, CODATA and Research Data Alliance (RDA). We also host workshops and conferences on topics such as **Research Classification** and **Software Sustainability** among other topics.

As a founding member of the **CoreTrustSeal** we have a trusted reputation. We review **Data Management Plans (DMPs)** for the European Commission/H2020, as well as now and again serving as the host institution for a range of **community-driven initiatives**. Right now we are the home for the RDA NL National Node.

DANS is about keeping data FAIR

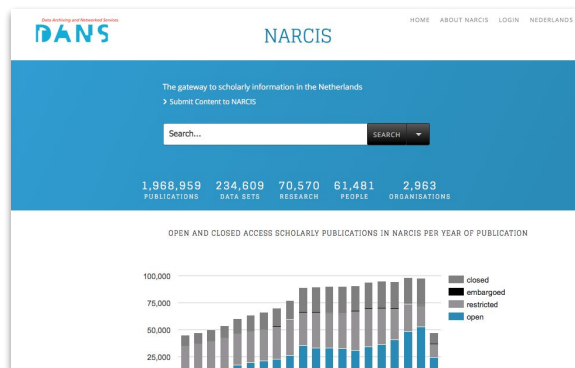
- Co-authors of the original publication on the FAIR principles
- Co-developed & tested the FAIR Metrics
- Developed Guidelines for FAIR Data Management; tools to rate the FAIRness of datasets; and a FAIR checklist for researchers
- Evaluated how our own data archives score on FAIRness
- Compared the principles to the requirements of the Data Seal of Approval and the CoreTrustSeal
- Explored the applicability of the FAIR principles to Software Sustainability
- We lead the INFRAEOSC 5(c) Horizon 2020 FAIRsFAIR project



Core Services

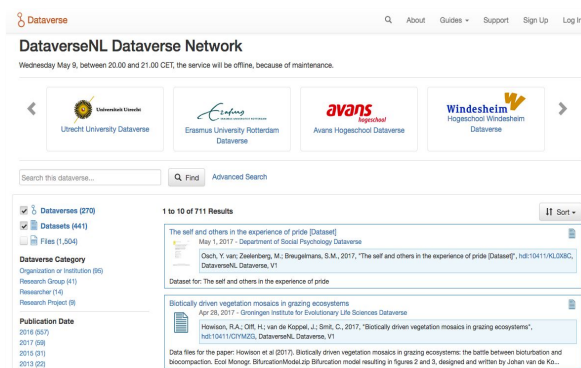
NARCIS

Gateway to scholarly information in the Netherlands



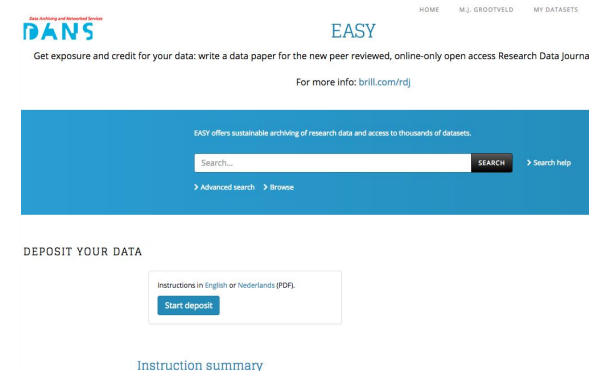
DataverseNL

For short & mid-term data storage



EASY

Certified long-term Electronic Archiving System for self-deposit



Training & Consultancy

Supporting the development of policies, practices and skills in data management; and the certification of repositories



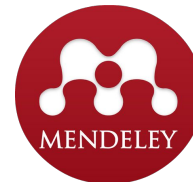
Additional Services

Research Data Journal for the Humanities and Social Sciences

(Data Publications & Publication Packages)



Data Vault for Repositories *(and Mirroring)*



Getting there... Software Sustainability

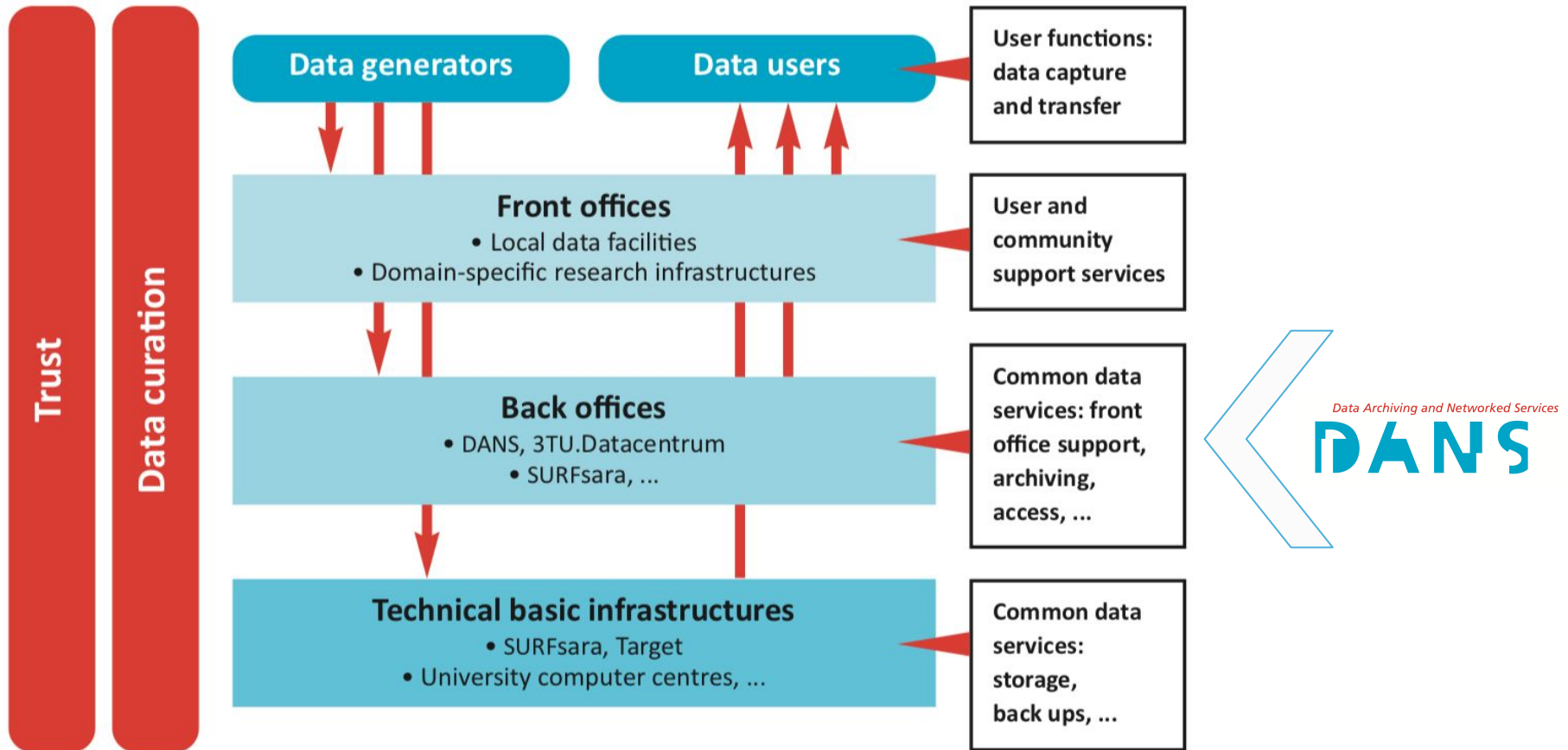


netherlands

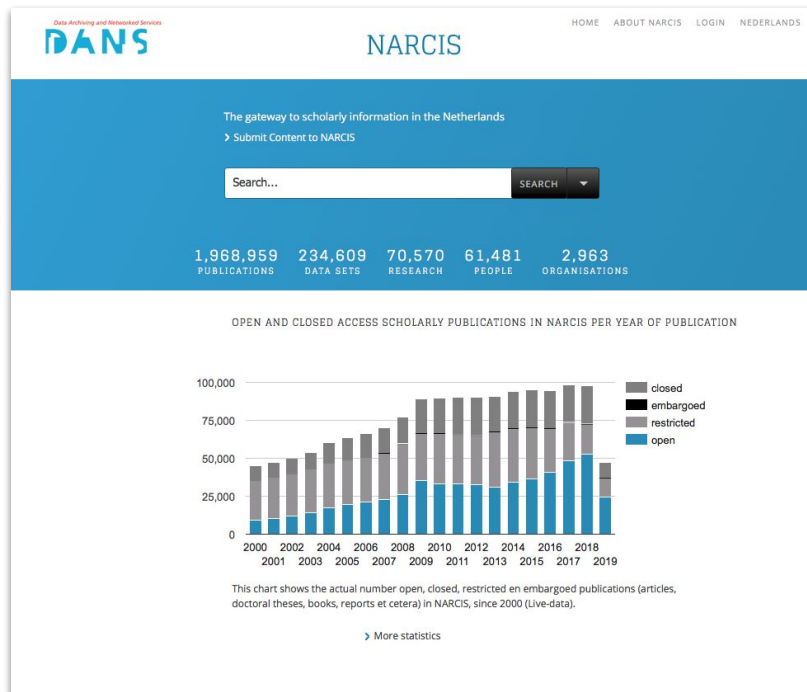
eScience center

Research Software Directory

The FO-BO Model



NARCIS (Collects **CRIS** information)



>70,500 **research projects**; >12,000 current

- Research by financier/by institution

>61,000 **researchers**

- 18,000 experts + expertise
- 9,200 professors and associate professors
- Gender division (not public)
- Working addresses
- Classified (NARCIS classification)

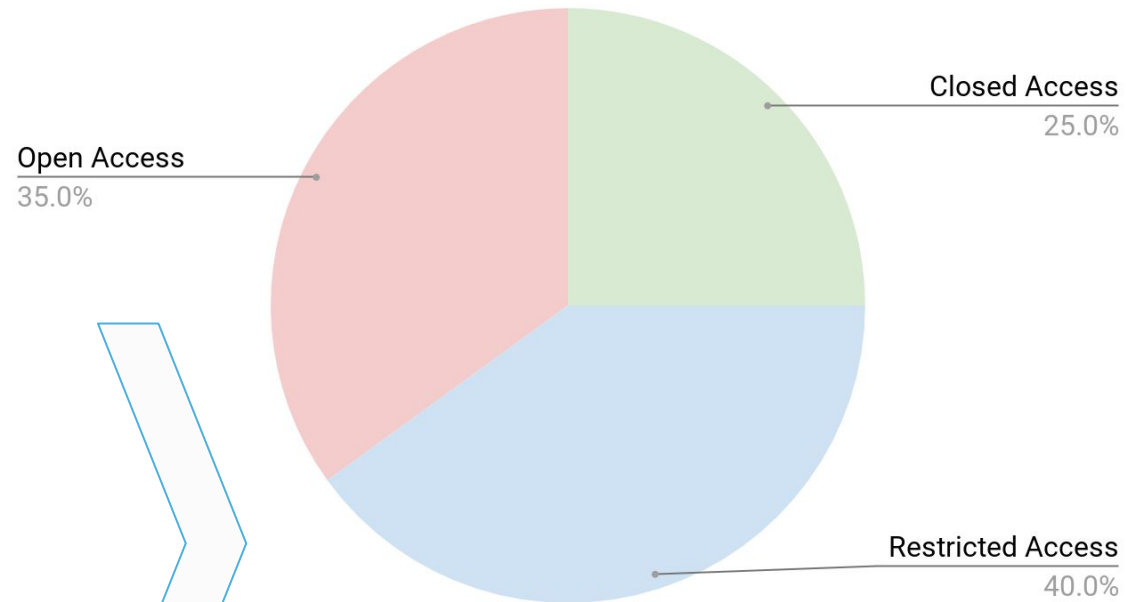
>2,900 **research institutions**

- For example: universities with underlying departments
- Classified (NARCIS classification)



In CERIF based database - euroCRIS

Harvesting 31 (+25) institutional repositories



> 1.8 million publications, including
> 700,000 **Open Access** publications

25 Universities of Applied Sciences

Sharing Metadata to Intl. portals

NARCIS



- > ANDS
- > Bolas, Dé leeromgeving voor informatievaardigheden
- > C-Content
- > CORE (CONnecting REpositories)
- > DART-Europe E-theses Portal
- > EBSCO
- > EUDAT / B2FIND
- > Ex Libris Group (PRIMO)
- > Google Scholar
- > HU Berlin, Institut für Bibliotheks- und Informationswissenschaft
- > ISIDORE
- > Microsoft Academic Search
- > OCLC
- > OpenAIRE
- > ProQuest LLC (SUMMON)
- > TNet
- > WorldWideScience.org
- > ZPID - Leibniz-Zentrum für Psychologische Information und Dokumentation (PUBPSYCHE)

Google Scholar

OpenAIRE

OCLC

EUDAT

DART
EUROPE

ands²
AUSTRALIAN NATIONAL DATA SERVICE

DataverseNL (Storing data and sharing data during the research)

The screenshot displays the DataverseNL website interface. At the top, the Dataverse logo is on the left, and navigation links (About, Guides, Support, Sign Up, Log In) are on the right. Below the header, the 'DataverseNL Dataverse' section shows a metrics bar with '6,968 Downloads'. The 'DataverseNL Dataverse Network' section features a carousel of partner logos: 4TU Centre for Research Data, Vrije Universiteit Amsterdam, NIOO-KNAW Dataverse, and Tilburg University Dataverse. A search bar with the placeholder 'Search this dataverse...' and a 'Find' button is present. The main content area shows search results for '1 to 10 of 688 Results'. On the left, a sidebar filters results by 'Dataverses (257)', 'Datasets (431)', and 'Files (995)', and lists categories like 'Organization or Institution (93)' and 'Publication Date' (2016: 558, 2017: 37, etc.). The search results list includes entries such as 'Registered report: measuring unconscious deception detection by skin temperature [Dataset]' and 'When a stone tries to climb up a slope: The interplay between lexical and perceptual animacy in referential choices [Dataset]'.

DataverseNL is a collaboration platform

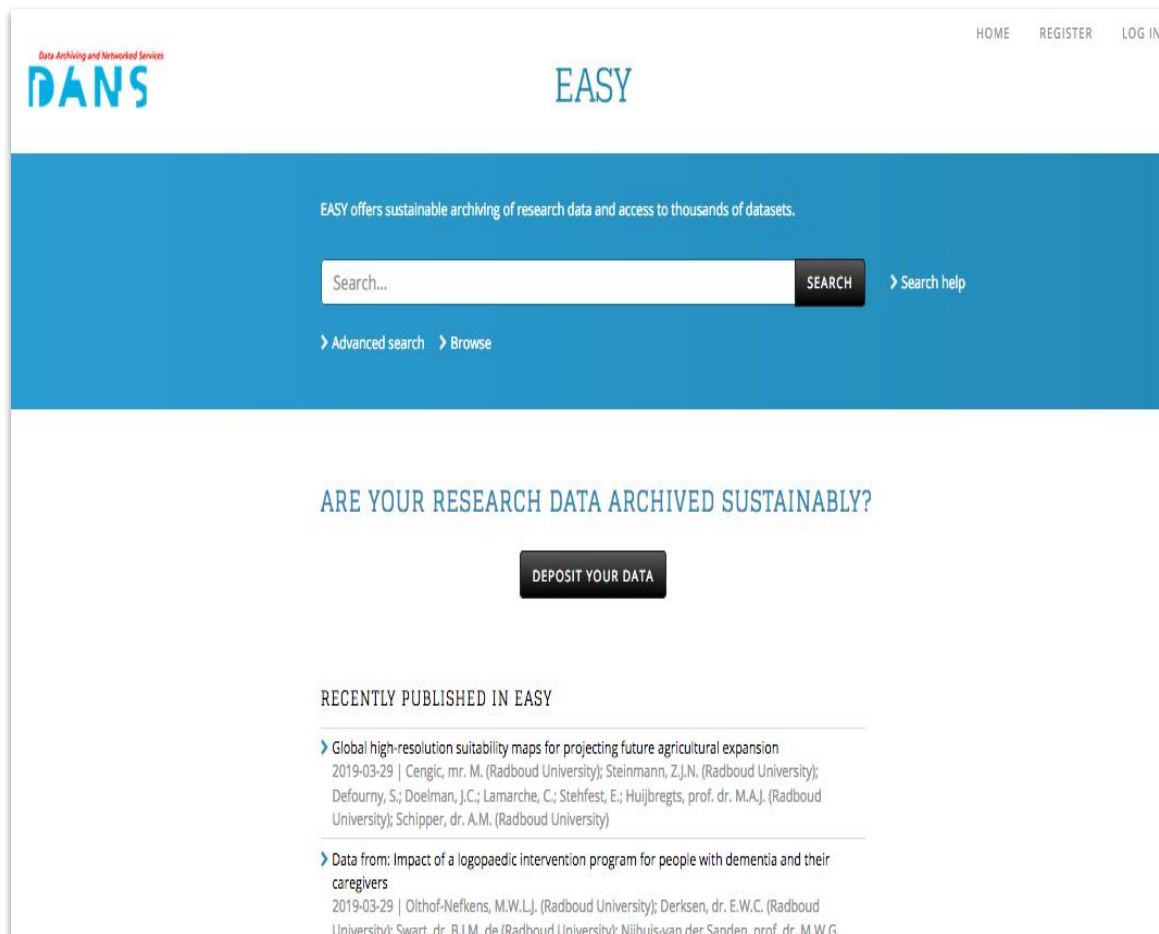


Collaboration of institutional data services with DANS:

- 4TU, VU, Tilburg, Utrecht University, Maastricht, Groningen, Leiden, (EUR)
- NIOO-KNAW, PThU, Hogeschool Utrecht
- Several more are following (Rijksmuseum, Trimbosch)

It is also possible to create your own “Research Infrastructure Dataverse” by becoming a member of DataverseNL.

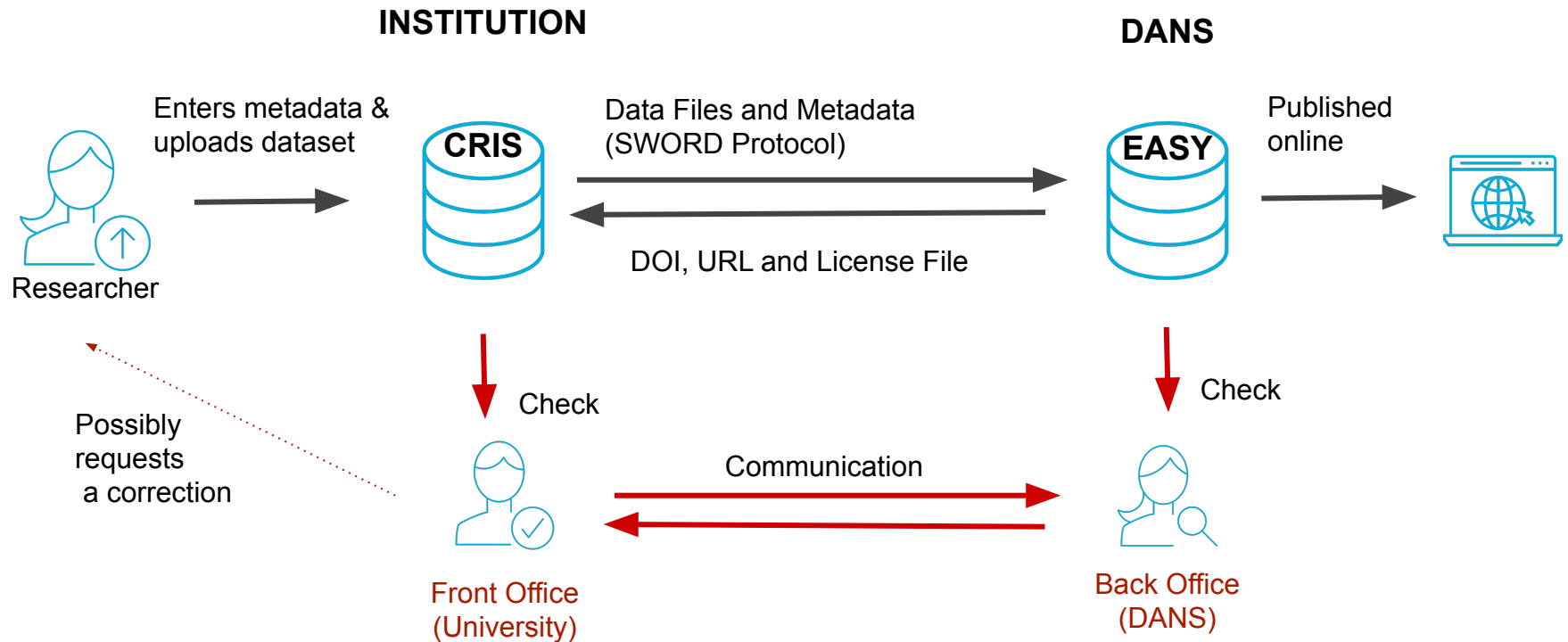
EASY (Storing data and sharing data **after** the research)



103,732
datasets published

Audience	
Behavioural and educational sciences	1518
Economics and Business Administration	256
Humanities	52790
Interdisciplinary sciences	14061
Law and public administration	872
Life sciences, medicine and health care	28582
Science and technology	544
Social sciences	5109

EASY (The FO-BO Model in practice)



Open if possible, **Protected** if necessary

Data sharing is according to your wishes and institutional policy

Collaborating at National level



National **Coordination Point**
Research Data Management

4TU. CENTRE FOR
RESEARCH DATA

Data Archiving and Networked Services

DANS

SURF SARA



RESEARCH DATA ALLIANCE
EUROPE

NL  NATIONAL
NODE

rdnl

research
data
netherlands

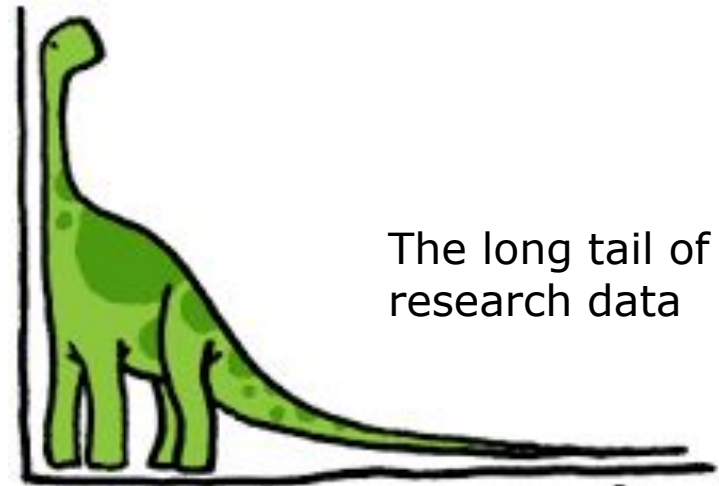
Data Archiving and Networked Services

DANS

Promoting Data Diversity



Characteristics for the Humanities
Each "V" poses another set of
methodological and technical
challenges



Championing SSH

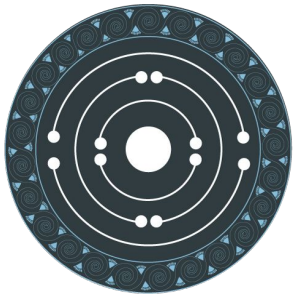
cessda

Consortium of European
Social Sciences Data Archives



DARIAH

Digital Research Infra
for the Arts and Humanities



PARTHENOS

Pooling Activities, Resources and Tools
for Heritage E-research Networking,
Optimization and Synergies



EUROPEAN HOLOCAUST
RESEARCH INFRASTRUCTURE

Implementing the EOSC



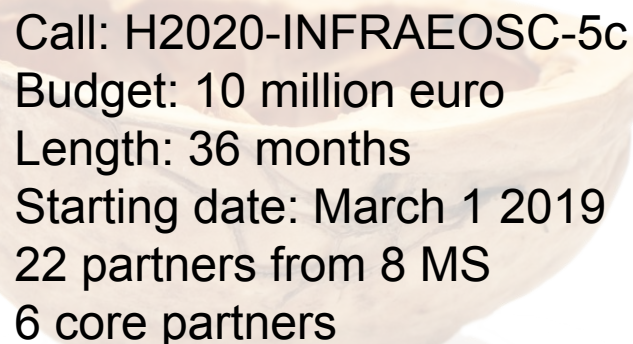
**EUROPEAN OPEN
SCIENCE CLOUD**



FAIRsFAIR in a nutshell

Data Archiving and Networked Services

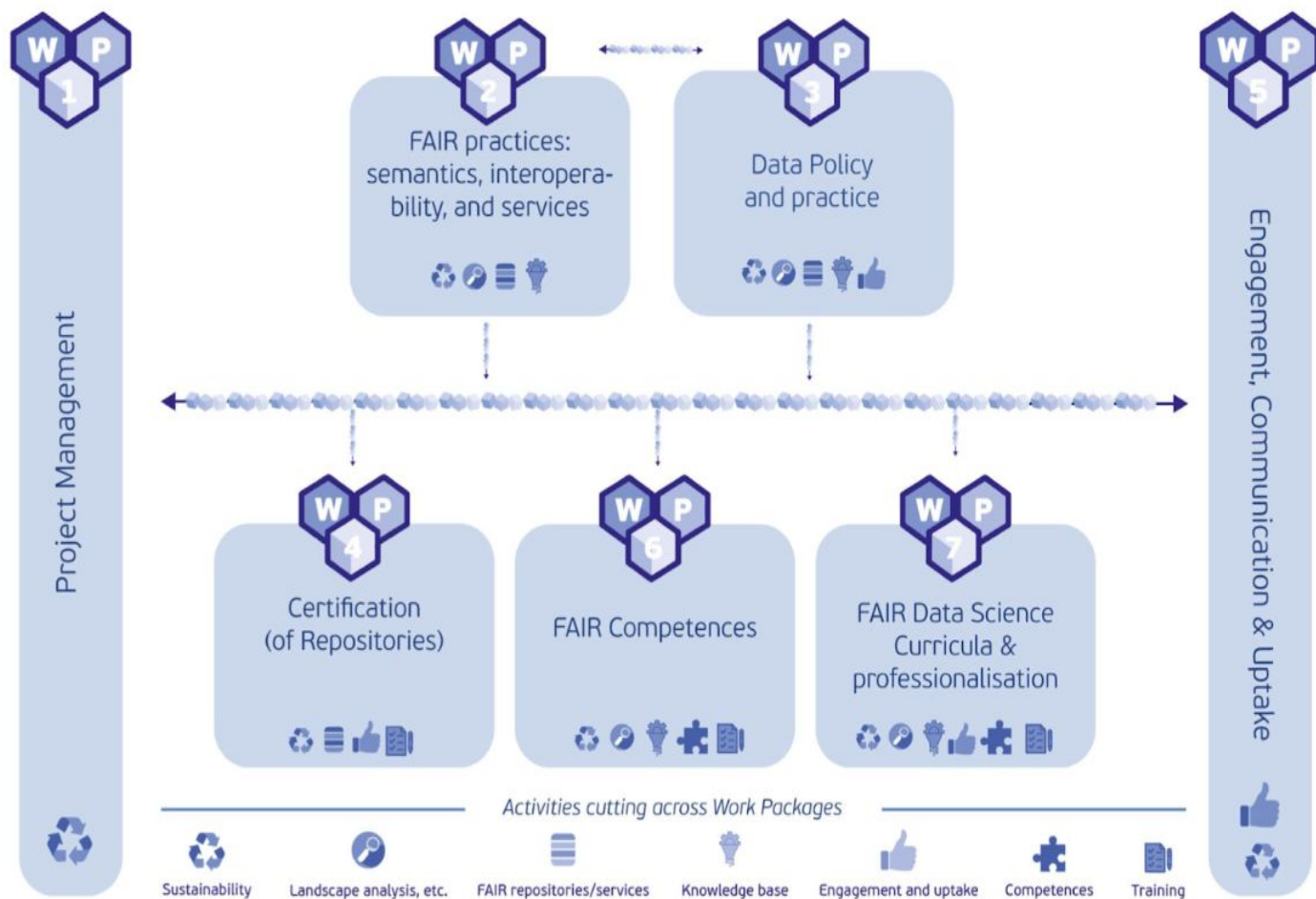
DANS



Call: H2020-INFRAEOSC-5c
Budget: 10 million euro
Length: 36 months
Starting date: March 1 2019
22 partners from 8 MS
6 core partners



FAIRsFAIR Work Packages



Related to FAIR and in collaboration with the other INFRAEOSC (a, b, c) projects, it aims to:

- Increase uptake of the FAIR Principles among the scientific disciplines involved in the project (*and make sure that solutions account for data diversity*)
- Develop a technical understanding of how FAIR will be implemented in the EOSC (A FAIR baseline & requirements)
- Add FAIR-compliant data repositories to the EOSC Portal
- Motivate service providers to implement FAIR principles and provide examples showing how they can FAIRify their services
- Provide tools to assess the level of FAIRness of EOSC data repositories
- Provide the technical framework to support FAIR practices in the EOSC at the level of implementation, validation and monitoring.

Any questions?

*Thanks to colleagues at
DANS for their
slides used for this presentation*

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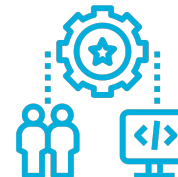
We value Trust



We are
Idea Generators



We are
Collaborators



We are
sociotechnical
Problem Solvers