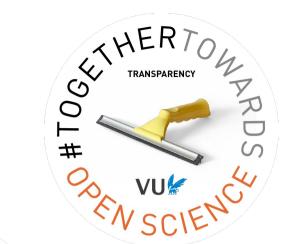
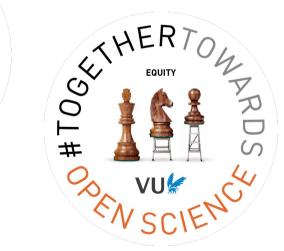
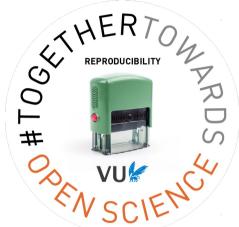
## **OPEN SCIENCE @VU**













# (INTER)NATIONAL CONTEXT



**UNESCO** Recommendation on Open Science







"Our vision is that the assessment of research, researchers and research organisations recognises the diverse outputs, practices and activities that maximise the quality and impact of research."





"The G7 will collaborate in expanding open science with equitable dissemination of scientific knowledge and publicly funded research outputs"



European

Commission



## WHAT IS OPEN SCIENCE?



"Open Science aims to

 make scientific knowledge openly available, accessible and reusable for everyone **Quality and integrity** 

 increase scientific collaborations and sharing of information for the benefits of science and society Diversity, equity, inclusion

 open the processes of scientific knowledge creation, evaluation and communication to societal actors beyond the traditional scientific community" **Collective benefit** 

# Open Science =





### THE SCOPE

FAIR &
RESPONSIBLE
RESEARCH

(Open Access)
Publications

(FAIR) Data & Software

(Open) Research Process

(Open) Evaluation

(Open) Hardware

PUBLIC ENGAGEMENT & IMPACT

Valorisation

Science Communication

Citizen Science

FAIR & OPEN EDUCATION

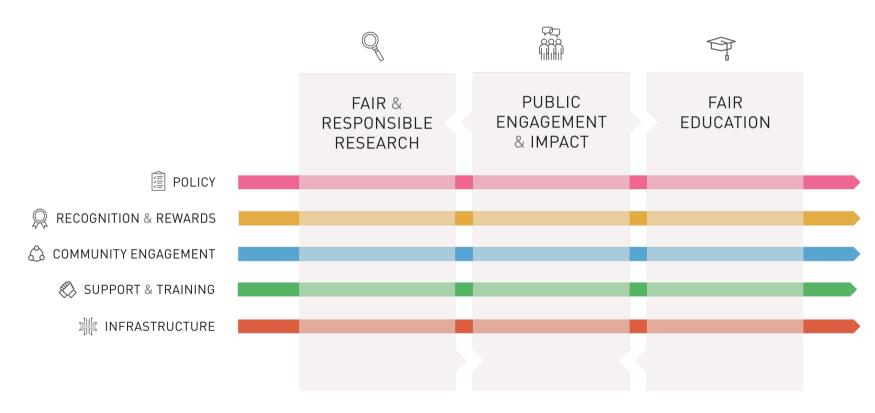
(Open) Educational Resources

(Open) Educational Formats

(Open) Pedagogy



## **TOWARDS OPEN SCIENCE**



https://vu.nl/openscience



## WHAT DO WE DO?







#### OPEN ACCESS

**POLICY** 

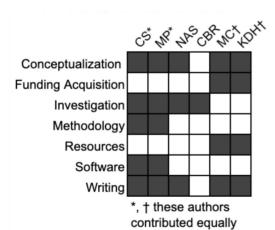




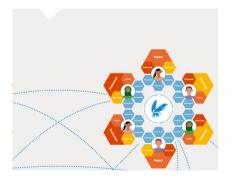








#### Academische Loopbaanpaden











### **INFRASTRUCTURE @VU**

Pure research information system/ publication repository

DMPonline data management planning

ResearchDrive storage

DataverseNL archiving

Yoda implementation of Yoda for storage/archiving

OSF research management, possible integration to other services

RDM administration integration of several overlapping administrative workflows

e-Lab journals research possible solutions

Storage connections Development of links between storage solutions

edusources national platform for open educational resources

CopyRIGHT tool for teachers

Monitoring of OS tracking impact/ monitoring OS practices

edusources

**Yoda** 



#### 2024

NRDS - RDM-administration (phase 2)

NRDS - E-lab journals (phase 2)

NRDS - Develop RDM-infrastructure (SRAM, ResearchCloud)

NRDS - Federated databases

OS - Wetenschap in de Wolken - infrastructure for citizen science

https://vu.nl/en/about-vu/divisions/university-library/more about/rdm-tool

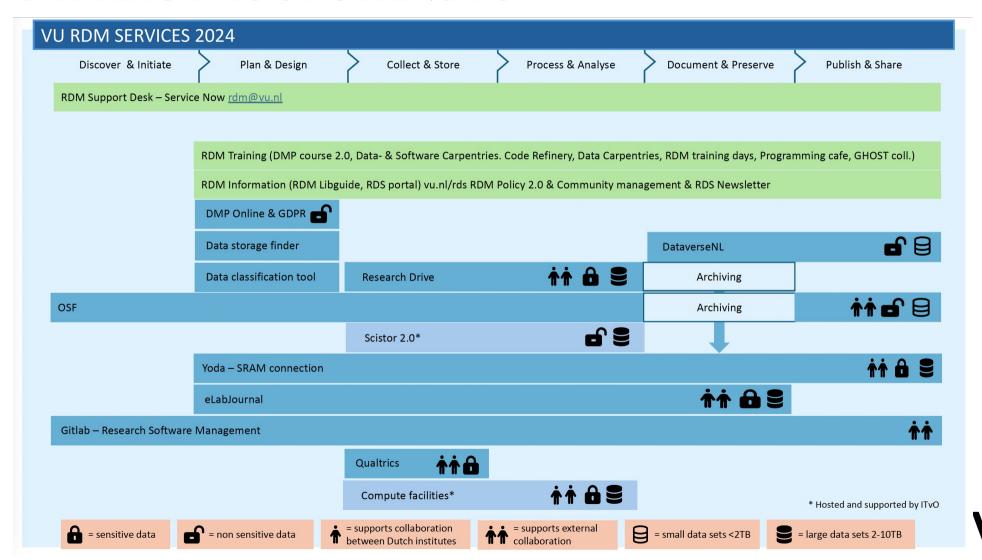
https://monitor.openaire.eu/dashboard/aurora

https://vu.nl/nl/over-de

vu/diensten/universiteitsbibliotheek/meer-over/oper



### **INFRASTRUCTURE @VU**



### INFRASTRUCTURE FOR CITIZEN SCIENCE

KennisCloud is a network where people, communities and organisations can meet and discuss societally relevant themes

#### **Offline**

- Kennisgroepen
- De Bibliotheek Midden-Brabant (Tilburg)
- Community Librarian

#### **Online**

https://www.kenniscloud.nl/

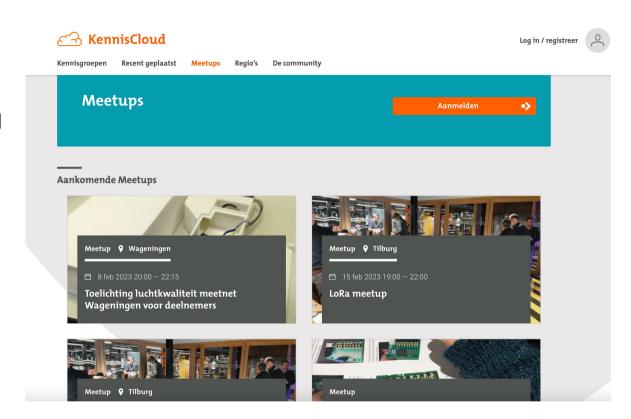












## **SUPPORT & TRAINING**

Network RDS

OS/RDM for staff

OS/RDM toolkit

Carpentries workshops Research Software Management

**OER Support** 

Strengthening support network at the

VU within departments

Embedding of OS/RDM in leadership

training

Toolkit with OS/RDM resources for

Ba/Ma

Growing a Carpentries community

Pilot SMP, development of support &

information

Creation of an OER Support Desk



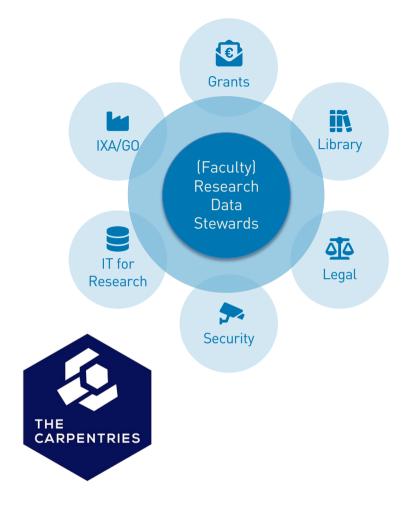
#### 2024

NRDS/OS - Build national network on training

NRDS/OS - Discipline-specific training/ guidelines for VU researchers

OS - Support for knowledge platform openresearch.amsterdam

OS - Accessible PhD lay talks





#### openresearch.amsterdam

https://vunl.libcal.com/calendar/universitylibrary?cid=7052&t=c &d=0000-00-00&cal=7052&inc=( https://openresearch.amsterdam.



## **RESEARCH SUPPORT**

Coordination/ training Library information specialists

Funder demands Grant advisors

Privacy officers/ legal

**Ethical committees** 

Intellectual property IP experts

Knowledge safety Policy officers/ Legal

Documentation Library information specialists

Data/ software management Data stewards/ managers

Research software engineers

IT





#### TRAINING

#### Training opportunities @VU

DMPonline Data management planning

YoDa Storage/ archiving

OSF Research management

Carpentries Basic data and software skill training

Coderefinery Advanced data and software skill training

OS/RDM toolkit Toolkit with OS/RDM resources for Ba/Ma students



CODE REFINERY





https://taxila.nl/







### **COMMUNITY ENGAGEMENT**

Community support
GHOST collective
Engagement campaign

OS Seed fund

ORCID campaign

Events, Art/Science collaboration!

OS against humanity!

Awareness and engagement campaign for

OS/RDM/OER

Funding for OS projects, in collaboration

with Open Seeds mentoring programme











NRDS/OS - RDM/OS Community management

OS – Ambassadors with faculties/departments

OS - Support OSCA/ SIOS (e.g. with OSCAwards)

OS – Community events





## **OS EVENTS**



### **KNOWLEDGE EQUITY!**

Knowledge Equity = Collective Benefit

We believe that scientific knowledge should benefit everyone.



#### **Knowledge Equity Symposium**

20 June 2024, 9:30 - 15:00

Join us for a day of insightful discussions and reflections on Open Science and knowledge equity as we celebrate signing the **Declaration on Knowledge Equity** and joining the **Knowledge Equity Network**.



Scan the QR code to register

The event promises to inspire meaningful discussion and collaborative action towards a more equitable and inclusive scientific landscape.

Register now!





## **OPEN SCIENCE COMMUNITIES**



Collaboration with the International Network of Open Science Communities (INOSC) – 12-week incubator programme for new communities

"bottom-up learning communities of researchers and students for learning and sharing about Open Science"





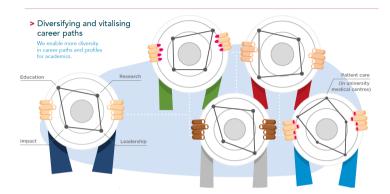
### **RECOGNITION & REWARDS**

Diversification and vitalisation of career paths Finding a balance between the individual and the collective Focus on quality

Stimulating **Open Science** Encouraging academic leadership

#### Room for everyone's talent

towards a new balance in the recognition and rewards of academics





More focus on qualitative assessment Broader definition of scientific output and success

Open Science as a pillar for assessment (e.g. Hong Kong Principles)





### **RECOGNITION & REWARDS**

Road show
Art of Engagement
Tenure-track policy
Commitment

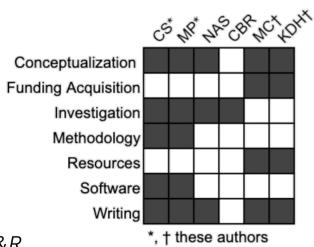
Registration workflows

Discussions within faculties/ services
Leadership/ team membership workshop
Align tenure-track policy with R&R
To R&R/ DORA/ Open Science
Which information do we want to register in our Current

Research Information System (CRIS)?

Academische Loopbaanpaden





#### 2024

Implement assessment procedures in line with R&R Roadmap for registration of new information Recognition & Rewards for early-career academics Pilot CRediT Aurora Open Science Monitor



contributed equally



## **POLICY**

Fund for innovations on Open Access Retrospective green Open Access

Cost analysis OA/RDM
Commitment for structural change

Guidelines for software management

#### 2024

Fund for innovations on Open Access Open Education policy Revision of RDM Policy Involvement in implementation of Open Science NL







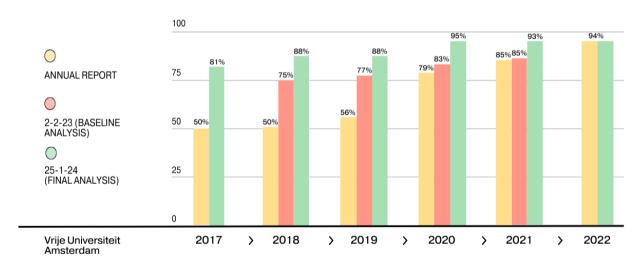


Green

#### OPEN ACCESS PERCENTAGES

During the Retrospective Open Access project:

- the Open Access percentages increased with an average of 9,75 percentage point. Baseline analysis could not be performed for 2017 and 2022.
- about 4100 publications in total were made Open Access.
- the average response rate of authors to a requested .pdf was 35%.





https://vu.nl/en/news/2023/vu-open-access-innovation-fund

## **NL UNIVERSITIES' OPEN SCIENCE AGENDA**

## Open Infrastructures

- 1. Federated network repositories
- 2. Central warehouse for open metadata
- 3. Public platform for scientific works

Universiteiten *van* Nederland

# Support & Training

- 4. Embedding Open Science in research curriculum & training
- 5. Strengthening capacity for FAIRification
- 6. Strengthening capacity for societal engagement

# **Community Engagement**

- 7. Open Science in education
- 8. Strengthening Open Science Communities
- 9. Open Science-practices in quality standards
- 10. Making OS normative through international collaboration

# Recognition & Rewards

- 11. Reward Open Science in HR-policy
- 12. Incorporate Open Science in institutional and national policy
- 13. Accelerate Open Science

# Policies & regulations

- 14. Development of funding instruments for Open Science
- 15. Strengthen Open Science via laws and regulations
- 16. (Inter)national conditions for purchase or development of digital services
- 17. Strengthening university policy
- 18. National monitoring of progress of Open Science



https://zenodo.org/records/1036246

# **OSNL WORKING PROGRAMME 2023-2025**

Capacity building	<ul><li>1.1 National training for support staff</li><li>1.2 Strengthen L/TDCCs</li><li>1.3 Citizen Science Hubs</li><li>1.4 Enabling Open publishing</li></ul>	4.8M€ 15.3M€ 2.0M€ 0.3M€
Infrastructure	2.1 Fund for pilot and implementation projects	17.5M€
Robust research processes	<ul><li>3.1 Replication studies</li><li>3.2 Software sustainability</li></ul>	5.2M€ 6.0M€
Evidence base for OS	<ul><li>4.1 Research on OS</li><li>4.2 Participatory citizen science calls</li><li>4.3 Monitoring and evaluation</li></ul>	2.8M€ 0.1M€ 0.4M€
Empowering communities	<ul><li>5.1 OS Festival</li><li>5.2 OS meetings</li><li>5.3 OS Communities</li><li>5.4 CSNL</li><li>5.5 Recognising and Rewarding Open Science</li></ul>	0.3M€ 0.6M€ 1.1M€ 1.1M€



