Universiteit Utrecht

# Libraries and Open Science: The Utrecht Example

—

ADBU Workshop

Paris, 21 November 2017

**Anja Smit**
University Librarian

# What does the library do for you?

You
- Gather information
- Assess information
- Study
- Meet peers
- Exchange ideas

The library
- Offers study space
- Trains information literacy skills
- Provides online and offline collaboration environmments
- Organises metadata
- Offers an accessible library collection
- Helps you find information

You
- Generate data
- Analyse data
- Write

The library
- Provides data management support
- Offers data storage advice

You
- Publish
- Teach
- Archive
- Disseminate

The library
- Provides educational support
- Gives advice about impact, Open Access and legal questions
- Provides archiving facilities

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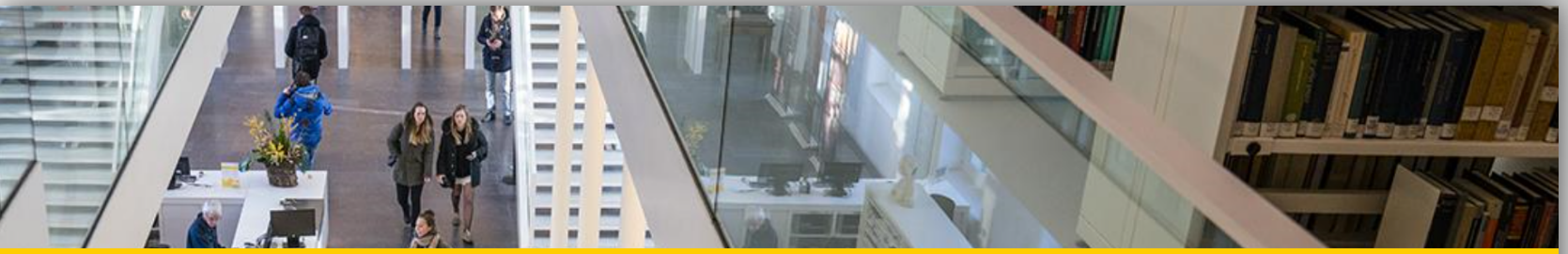


# The Academic Affairs' Office

The Academic Affairs' Office advises the Executive Board and the faculties on the development and implementation of strategic policies aimed at teaching, research and student affairs. Academic Affairs furthers the University's ambition to strengthen its international rep
create the preconditions for stu
enjoy an active student life with
responsible for guidance of stud
psychologists) and for informat

Director: dr. E.I. (Esther) Stieke
Administration Building
Room 1.74-1.80 (secretariat)
Heidelberglaan 8, 3584 CS Utrec
Tel. +31 30 253 42 71

## Faculty of Science

Research Education Collaboration About us News & Events Alumni Contact

UU.nl / Organisation / Faculty of Science / About us / Organisation / Operational management / Research Valorisation In Dutch / Research Support Office Faculty of Science

### Research Support Office Faculty of Science

Faculty of Science

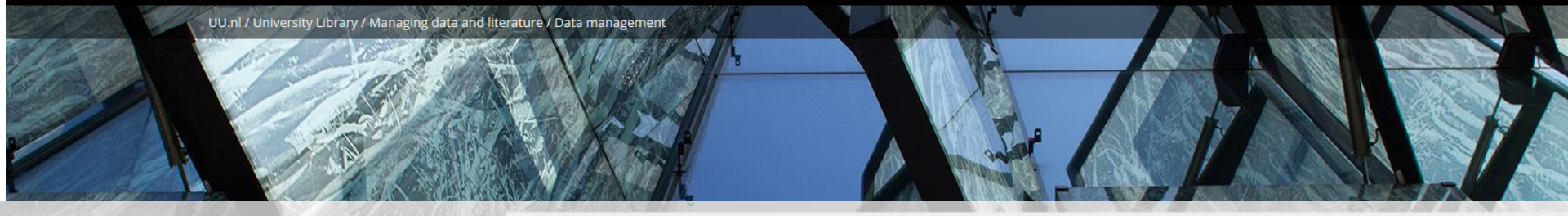
- Research
- Education
- Collaboration

The Research Support Office (RSO) of the Faculty of Science supports researchers in finding external funding for their research. There are many sources to fund research, each with their own goals and requirements, and many funding schemes are highly competitive. The RSO has extensive experience with the different funding schemes and can offer specialized support for researchers to maximize their chances of success.

University Library

Searching for literature | Managing data & literature | Publishing | Practical information | Locations | Collections | + More

UU.nl / University Library / Managing data and literature / Data management



# Data management

University Library

- Searching for literature
- Managing data & literature
  - Storing and organising
  - Analysing and writing
  - Archiving and sharing
  - **Data management**
  - Help
- Publishing
- Practical information
- Locations
- Collections
- About the library

*"We help you with questions about managing, describing, and making available research data."*

Check Research Data Management for all information.

**WE KNOW ALL ABOUT:**

- finding existing datasets
- workshops on Data Management Plan (DMP) and Open Data
- specific questions regarding data management (plans) or open data before, during or after your research

vsnu
vereniging van universiteiten
association of universities
THE NETHERLANDS

open access.nl

# The Netherlands: paving the way for open access

2014

- 100% full open access to publications in 2020
- Make research data optimally suited for reuse
- Develop recognition and rewards systems
- Promote and support open science

**2017**

Karl Dittrich

José van Dijck

Stan Gielen

Thom de Graaf

Rolf van Wegberg

Tjibbe Joustra

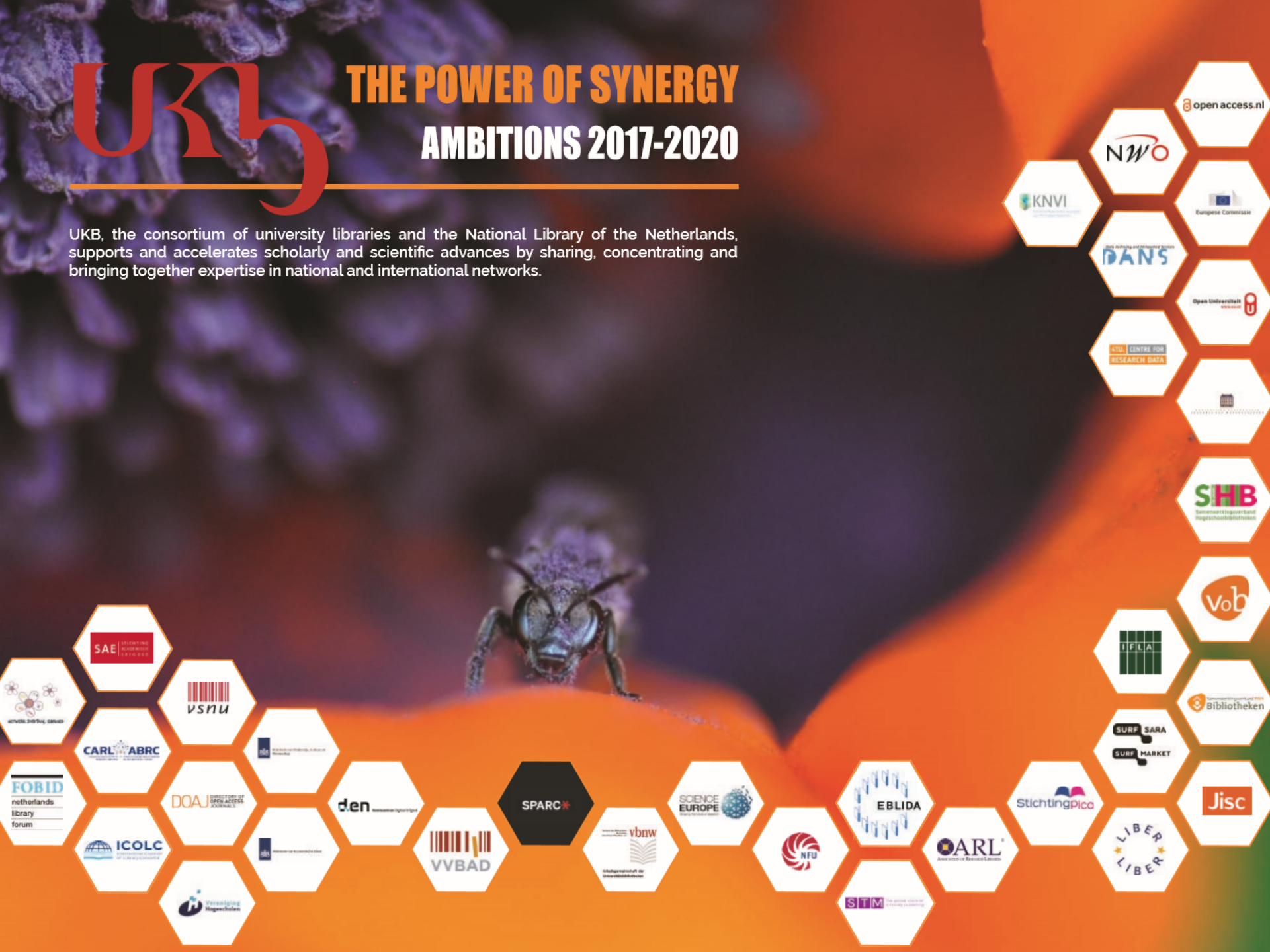
Paul Rullmann

Pancras Hogendoorn

Richard Janssen

Karel Luyben

This declaration is also herewith signed by the following parties: DANS, The Young Academy, DTL, LCRDM, Netherlands eScience Center, 4TU.Centre for Research Data, and UKB



# THE POWER OF SYNERGY

## AMBITIONS 2017-2020

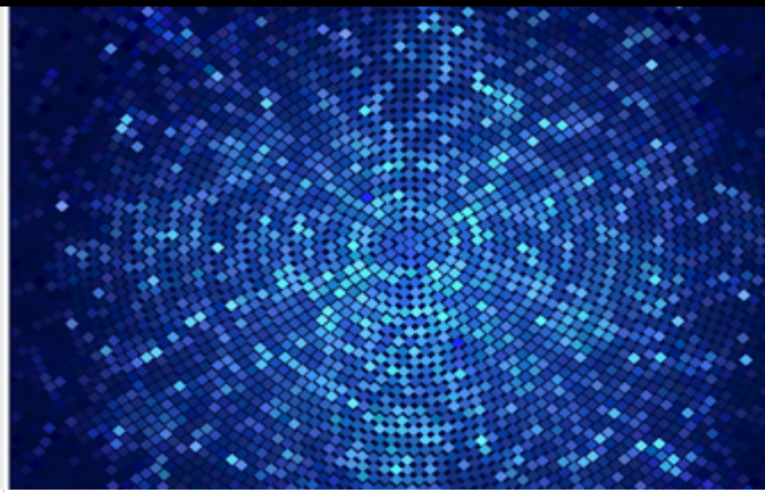
UKB, the consortium of university libraries and the National Library of the Netherlands, supports and accelerates scholarly and scientific advances by sharing, concentrating and bringing together expertise in national and international networks.

rdnl research data netherlands

*Your partner in research data curation*

ABOUT RDNL ▸ PARTNERS ▸ SERVICES ▸ NEWS AND AGENDA ▸

**Research Data Netherlands** is an alliance between 4TU.Centre for Research Data, Data Archiving and Networked Services (DANS) and SURFsara. With this coalition, which is also open to other parties, the three data archives join forces in the area of long-term data archiving.



4TU. CENTRE FOR RESEARCH DATA

Data Archiving and Networked Services DANS

SURF SARA

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National Coordination Point
Research Data Management

# A national strategy for research data management

| Facilities and data infrastructure | Legal aspects and ownership | Financial aspects | Researcher support and advice | Awareness / Engagement |
|---|---|---|---|---|

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# ResearchIT

Goals:

- Develop infrastructure
- Provide tooling to handle data
- Develop Research Data Management Support

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Nederlands

# Research Data Management

**ResearchIT**
**- Infrastructure**
**- Tooling**
**- Support**

Your data management guide | Data Management Glossary | FAQ | Support | Contact us

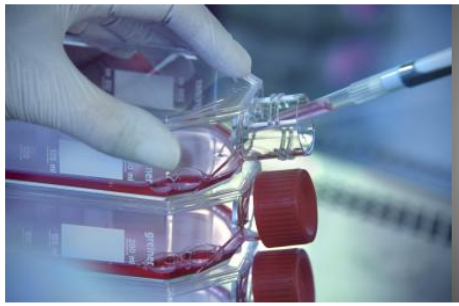
UU.nl / Research / Research Data Management

Your guide to Research Data Management at Utrecht University

**The library** leads the implementation of RDM-Support

Quick links

DATA MANAGEMENT PLAN | WORKSHOPS AND COURSES | CONSULTANCY AND ADVICE | POLICY FRAMEWORK



## Prepare

Before starting to collect data for your research, it is essential to plan and prepare.

READ MORE >

## Handle

Your data is valuable! Here are some tools and tips for protecting, storing and analysing it.

READ MORE >

## Preserve and Share

Research data needs to be able to be shared and verified for many years. Read how to ensure that yours will be.

READ MORE >

Utrecht University

# Tools for Research Data Management

**AN OVERVIEW OF ONLINE AVAILABLE TOOLKITS, GUIDES, CHECKLISTS AND SOLUTIONS TO MAKE RESEARCH DATA MANAGEMENT (RDM) EASIER FOR UTRECHT UNIVERSITY ACADEMICS.**

## FUNDING
- Research Funding Toolkit
- Data Management Cost Guide

## IT SOLUTIONS
- Data Storage Solutions
- Data Publishing Solutions
- High Performance Computing

## PLANNING
- Checklist for Data Management Plan (DMP)
- DMP Requirements Funding Organisations

## RDM SUPPORT
- info.rdm@uu.nl
- www.uu.nl/rdm

## PRIVACY & INFORMATION SECURITY
- Data Classification for Secure Research
- Privacy Checklist
- Privacy Impact Assessment

## UU POLICY FRAMEWORK
- Policy Framework for Research Data
- Information Security Policy

## LEGAL
- Guide to Rules and Regulations (In Dutch)
- Guide to Legal Documents for RDM

## ETHICS
- Data Ethics Decision Aid (DEDA)
- Do's and Don'ts Informed Consent for Sharing Data

**TO ACCESS THESE TOOLS, PLEASE VISIT UU.NL/RDMTOOLS**

# News from Research IT

**In need of tools to help you with Research Data Management?**

RDM Support created an overview of online available toolkits, guides, checklists and solutions to make your Research Data Management (RDM) easier. There are direct links in the overview to take you to the specific tool(kit), guide or checklist.

RDM Support provides all kinds o
assistance to researchers of Utre
research. This can range from on
scale infrastructure coordination.

» | Share:

# More news

**prevent abuse of your online identity.** Visit uu.nl/work-safely for more information

**November 21, 8 PM**

Lecture by data scientist **Cathy O'Neil** on her book

# Education

**R Data Café on Hypothesis testing with R (November 13)**

R Data Café is an informal meetup for researchers working with the R-programming language. During the meeting, you can work on your R code, ask questions and learn from others.

**Big Data Alliance Member**

## Datamanagement IT services

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## High Performance Computing (HPC)

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## Research Data Storage

**Martin Schuckman**
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## Information Security

**René Ritzen**
Corporate information Security Officer
Information and Technology Services
Can also be contacted via ciso@uu.nl

## Datamanagement plan and workshops

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## Metadata (standards) and interoperability

**Otto Lange**
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## Overall Research Data Management Support

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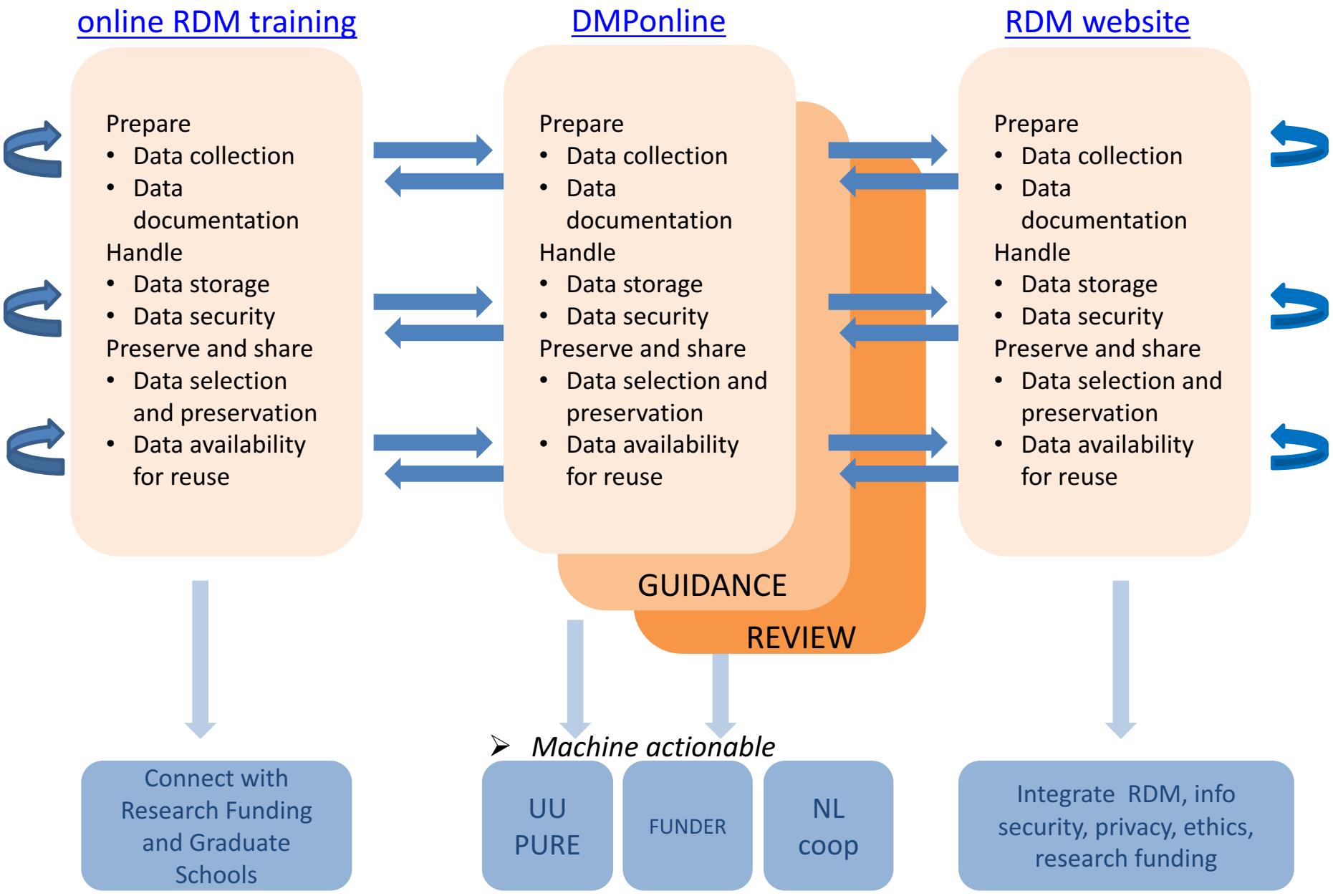
online RDM training
DMPonline
RDM website
Prepare
• Data collection
• Data documentation
Handle
• Data storage
• Data security
Preserve and share
• Data selection and preservation
• Data availability for reuse
GUIDANCE
REVIEW
Connect with Research Funding and Graduate Schools
➢ Machine actionable
UU PURE
FUNDER
NL coop
Integrate RDM, info security, privacy, ethics, research funding

**25 COUNTRIES**

Austria, Belgium, Bulgaria, Czech Republic, Denmark, Finland, France, Germany, Grecee, Hungary, Iceland, Ireland, Italy, Netherland, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, United Kingdom

**4** INTERNATIONAL ORGANIZATIONS

Orfeus, Emsc, Euref, Intermagnet

**256** NATIONAL RESEARCH INFRASTRUCTURES

**4939** SEISMIC STATIONS

**2272** GPS RECEIVERS

**464** TB SEISMIC DATA

**118** LABORATORIES

**828** INSTRUMENTS

**Several PetaBytes** of solid Earth Science data will be available

**Several thousands** of **users** expected to access the infrastructure

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# 101 Innovations in Scholarly Communication

## The Changing Research Workflow

Jeroen Bosman @jeroenbosman
Utrecht University Library

Bianca Kramer @MsPhelps
Utrecht University Library


Science is in transition. This poster gives an impression of the exploratory phase of a project aiming to chart innovation in scholarly information and communication flows from evolutionary and network perspectives.

We intend to address the questions of what drives innovation and how these innovations change research workflows and may contribute to more **open, efficient** and **good** science.

### 101 Innovative tools and sites in 6 research workflow phases (< 2000 - 2015)

### Most important developments in 6 research workflow phases

| | Discovery | Analysis | Writing | Publication | Outreach | Assessment |
|---|---|---|---|---|---|---|
| Trends | social discovery tools | data-driven & crowdsourced science | collaborative online writing | Open Access & data publication | scholarly social media | article-level (alt)metrics |
| Expectations | growing importance of data discovery | more online analysis tools | more integration with publication & assessment tools | more use of "publish first, judge later" | rise of altmetrics for monitoring outreach | more open and post-publication peer review |
| Uncertainties | support for full-text search and text mining | willingness to share in analysis phase | acceptance of collaborative online writing | effect of journal/publisher status | requirements of funders & institutions | who pays for costly qualitative assessment? |
| Opportunities | discovery based on aggregated OA full text | open laboratory | semantic tagging while writing/citing | reader-side paper formatting | using repositories for institutional visibility | using author-, publication- and affiliation IDs |
| Challenges | real semantic search (ontologies & relations) | reproducibility | safety/privacy of online writing | globalization of publishing/access standards | making outreach a two-way discussion | quality of measuring tools |
| Most important long-term development | multidisciplinary + citation-anchored databases | collaboration + data-driven | online writing platforms | Open Access | more & better connected researcher profiles | importance of societal relevance + non-publication contributions |
| Potentially most disruptive development | semantic/concept search + contextual/social recommendations | open science | collaborative writing + integration with publishing | circumventing traditional publishers | public access to research findings, also for agenda setting | moving away from simple quantitative indicators |

### Typical workflow examples

Academic Services
Open Science
Collection Services
Library as a Place

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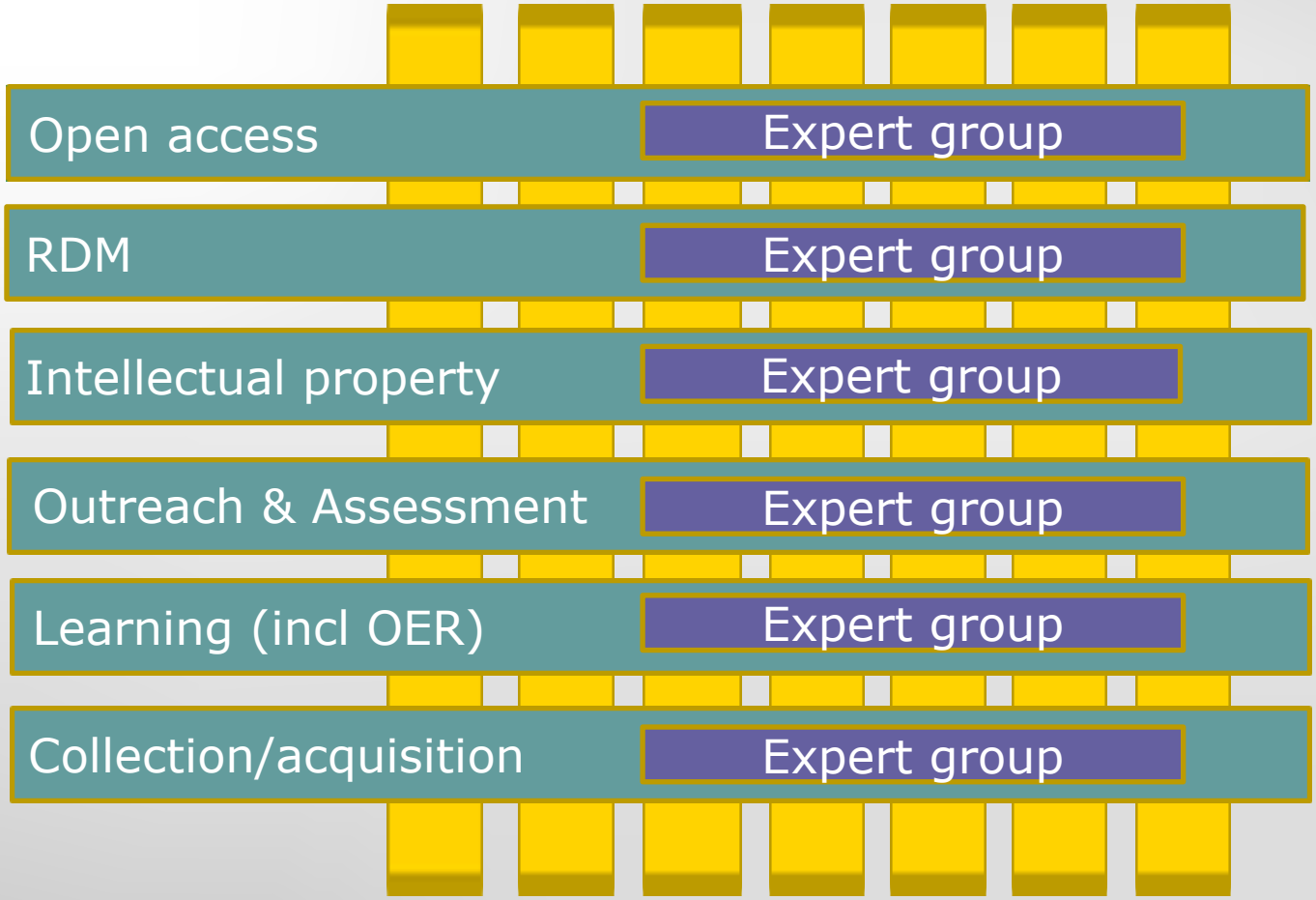
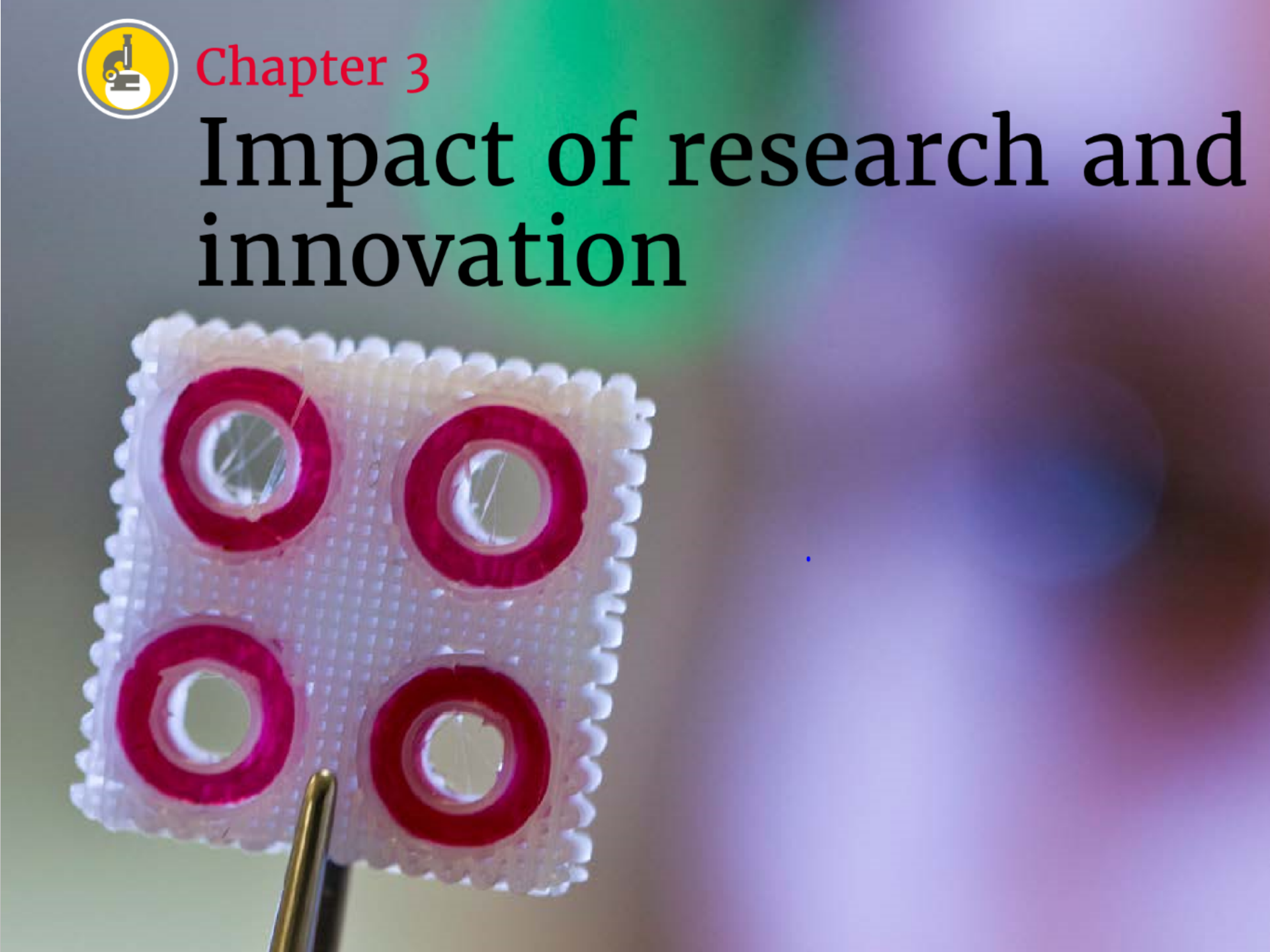


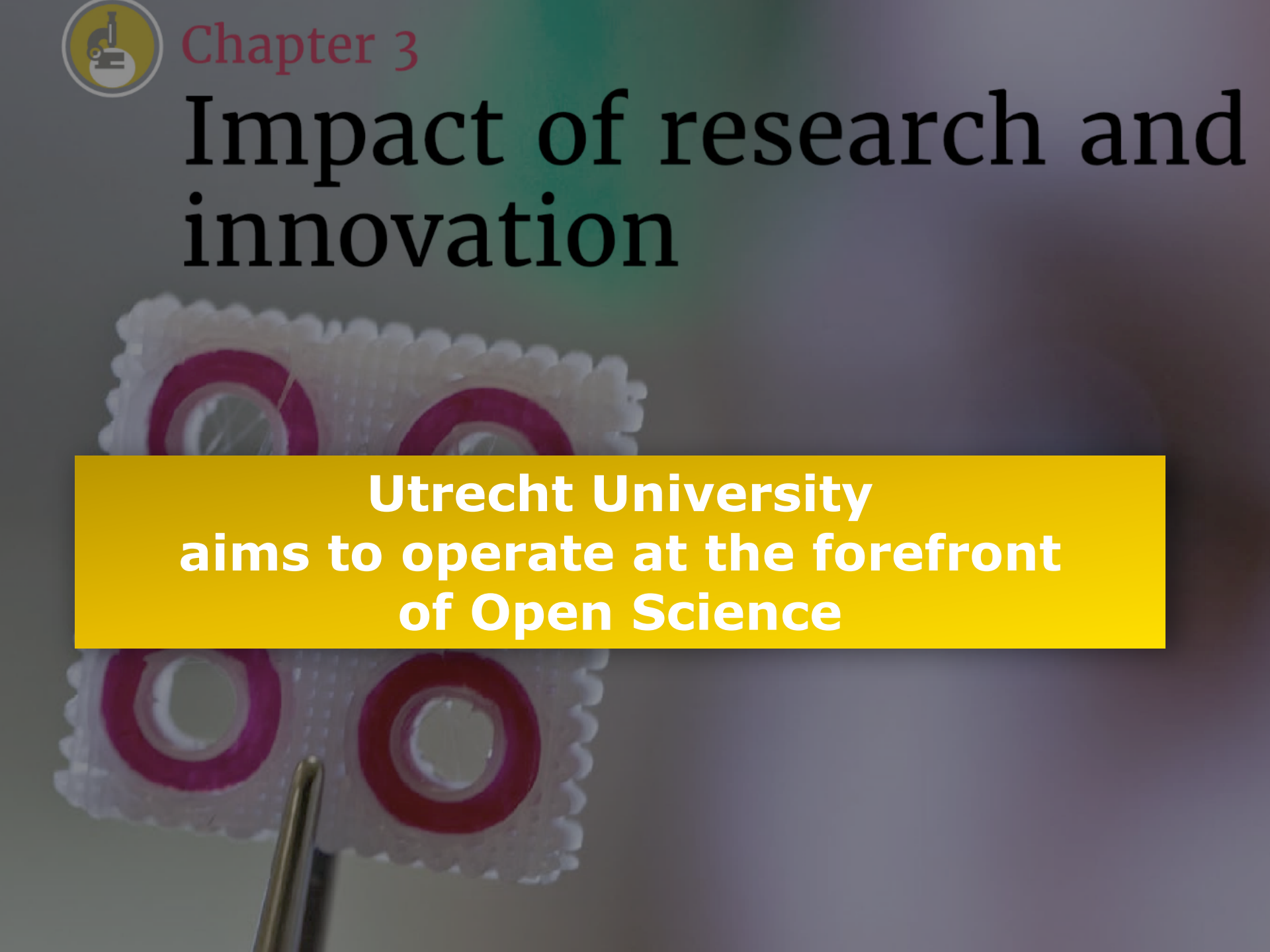
Chapter 3

# Impact of research and innovation



Chapter 3

# Impact of research and innovation



**Utrecht University aims to operate at the forefront of Open Science**

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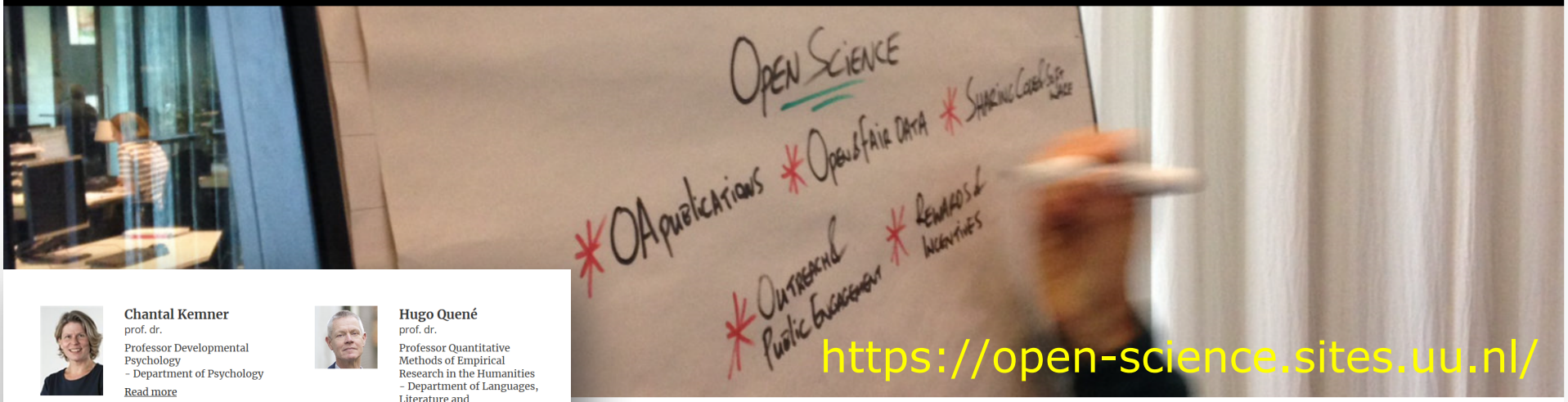
Search the Site...

# Open Science discussion at Utrecht University

Draft Open Science Programme 2018-2020 | About us | Contact






**Chantal Kemner**
prof. dr.
Professor Developmental Psychology
- Department of Psychology
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**Hugo Quené**
prof. dr.
Professor Quantitative Methods of Empirical Research in the Humanities
- Department of Languages, Literature and Communication
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**Sanli Faez**
dr. ir.
Assistant Professor Nanophotonics
- Department of Physics
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**Martijn van den Heuvel**
dr.
Professor Brain Center Rudolf Magnus
- Department of Psychiatry, University Medical Center Utrecht
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**Hans de Jonge**
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Project Manager Education Department
- Academic Affairs
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**Menno Rasch**
drs.
Project Co-ordinator & Manager Research Services and Data Management
- Information and Technology Services
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**Anja Smit**
drs.
University Librarian
- Utrecht University Library
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## Towards an Open Science Programme for Utrecht University

### University ambition

Utrecht University wants to promote open science as as part of its promise to make science more open and even more reliable, efficient and relevant to society. To follow up on the ambition formulated in the strategic plan a task force, supported by a university library work group, has drafted a first version of an intended Open Science Programme for the period 2018-2020. This draft is now open for consultation.

### You are invited to discuss and comment

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# Merci pour votre attention!

—

**Anja Smit**
University Librarian