



# Driving culture change through Open Science: The Role of Research Funders

29 May 2024, Edinburgh Open Research Conference 2024  
Marta Teperek, Programme Leader FAIR Data at Open Science NL

*Presenting on behalf of the Open Science NL team*

# Open Science NL (OSNL) at the Dutch Research Council (NWO)



Hans de Jonge  
Director



Frederike Schmitz  
Citizen Science &  
Societal Engagement



Maria Cruz  
Open Research  
Software



Jeroen Sondervan  
Open Scholarly  
Publishing



Marta Teperek  
FAIR Data



Jeroen Scharroo  
Communications  
Advisor



Mark van Assem  
Programme  
Secretary

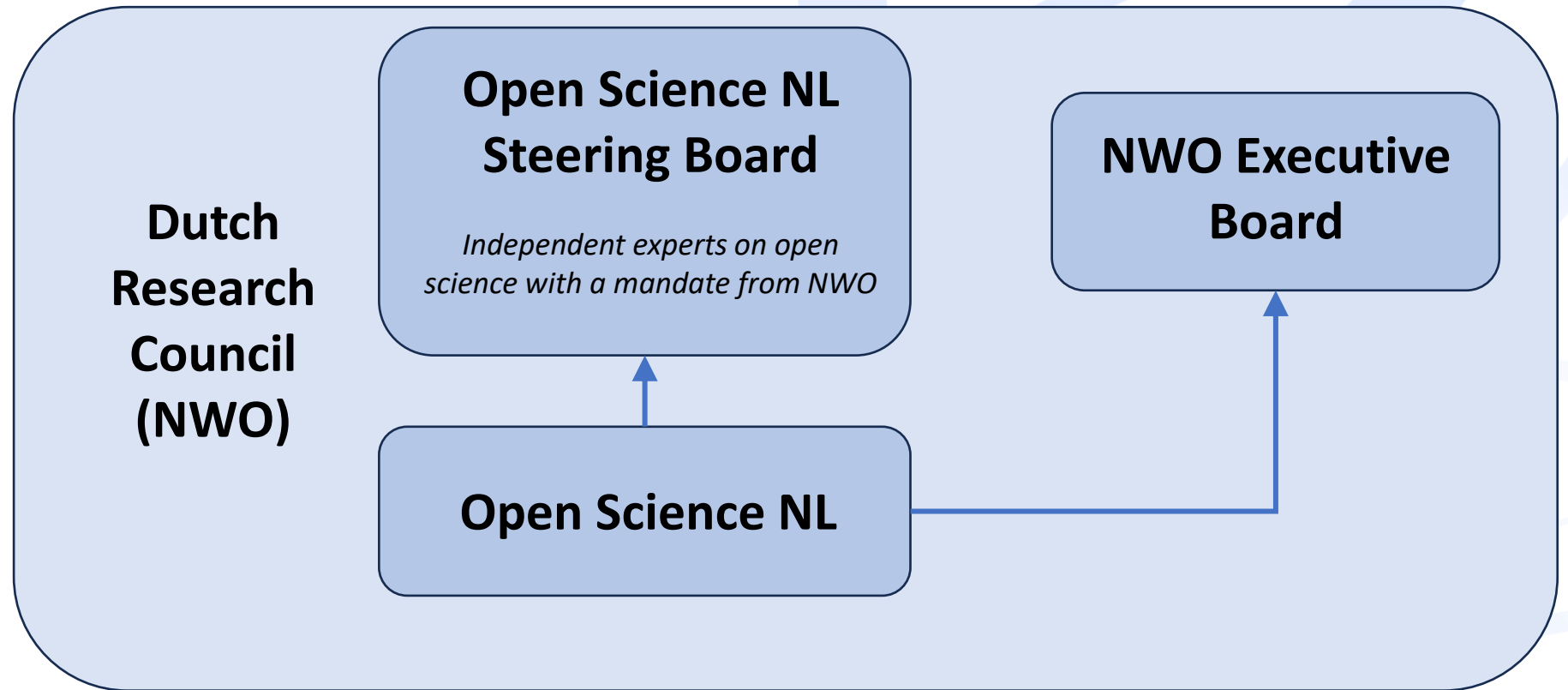


Mirjam Teunissen  
Secretary




Loes Buitendijk  
Assistant

*These colleagues  
contributed to all the work  
discussed. Attribution of  
other people will be  
explicitly mentioned on  
slides, as appropriate.*



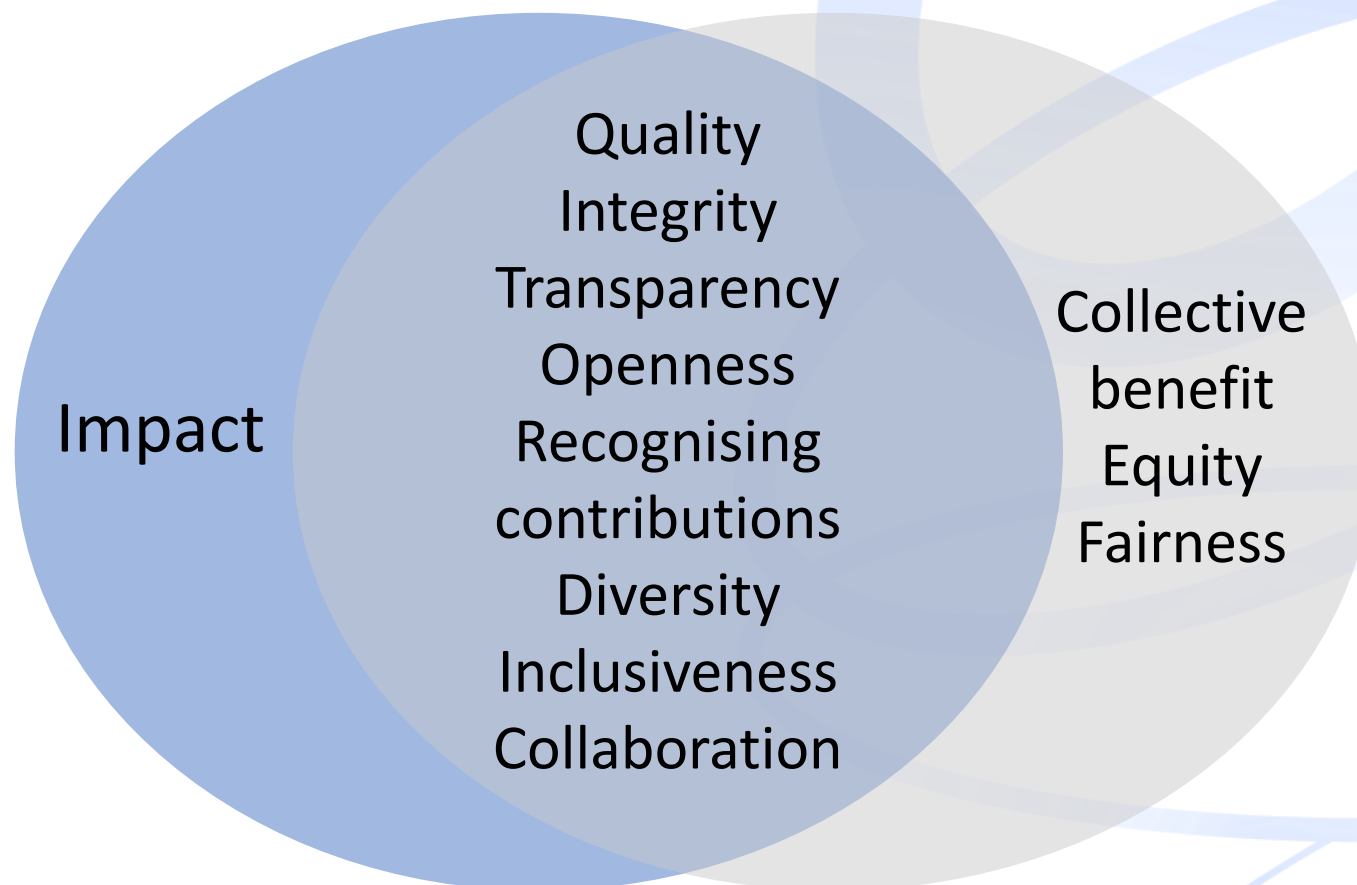
# Disclaimer:

*In the Dutch context, the term “science” (in Dutch: “wetenschap”) encompasses all three domains of research: social sciences and humanities, life sciences and health, and natural and engineering sciences. This means that the term "Open Science" in the Dutch context is equivalent in its meaning to the term "Open Research" as used in the United Kingdom, rather than just encompassing the science, technology engineering and mathematics.*



How is open science related to  
positive culture change in  
research?

## Principles of the agreement for reforming research assessment



# The Netherlands made a strategic commitment to Open Science in order to:

- “change academia for the better”
- foster an “environment of active collaboration and participation”

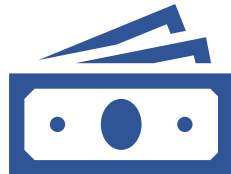




# Open Science NL received funding from the Ministry of Education, Culture and Science:



Open Science must become the norm

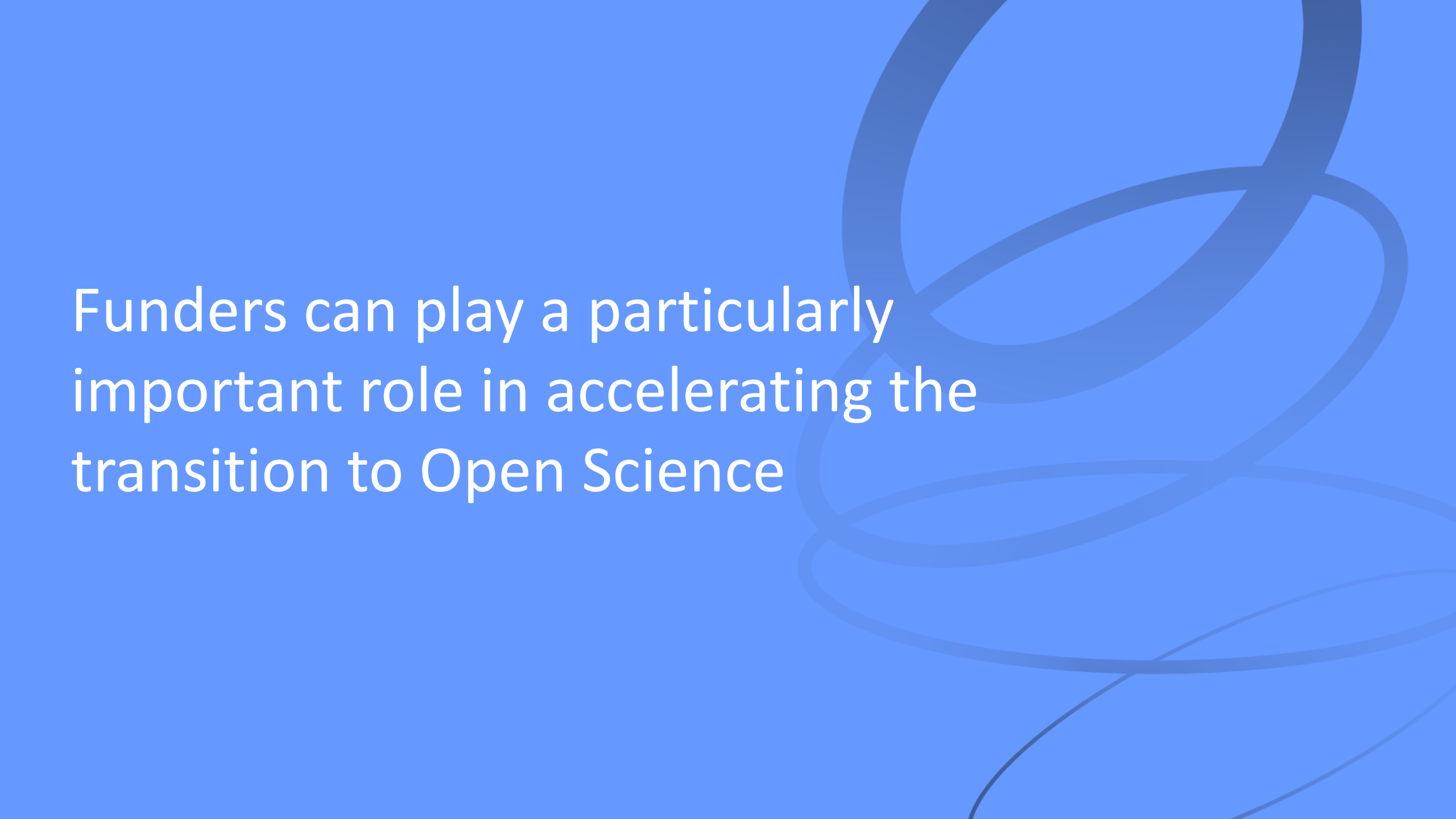


20M EUR per year for 10 years to accelerate the transition

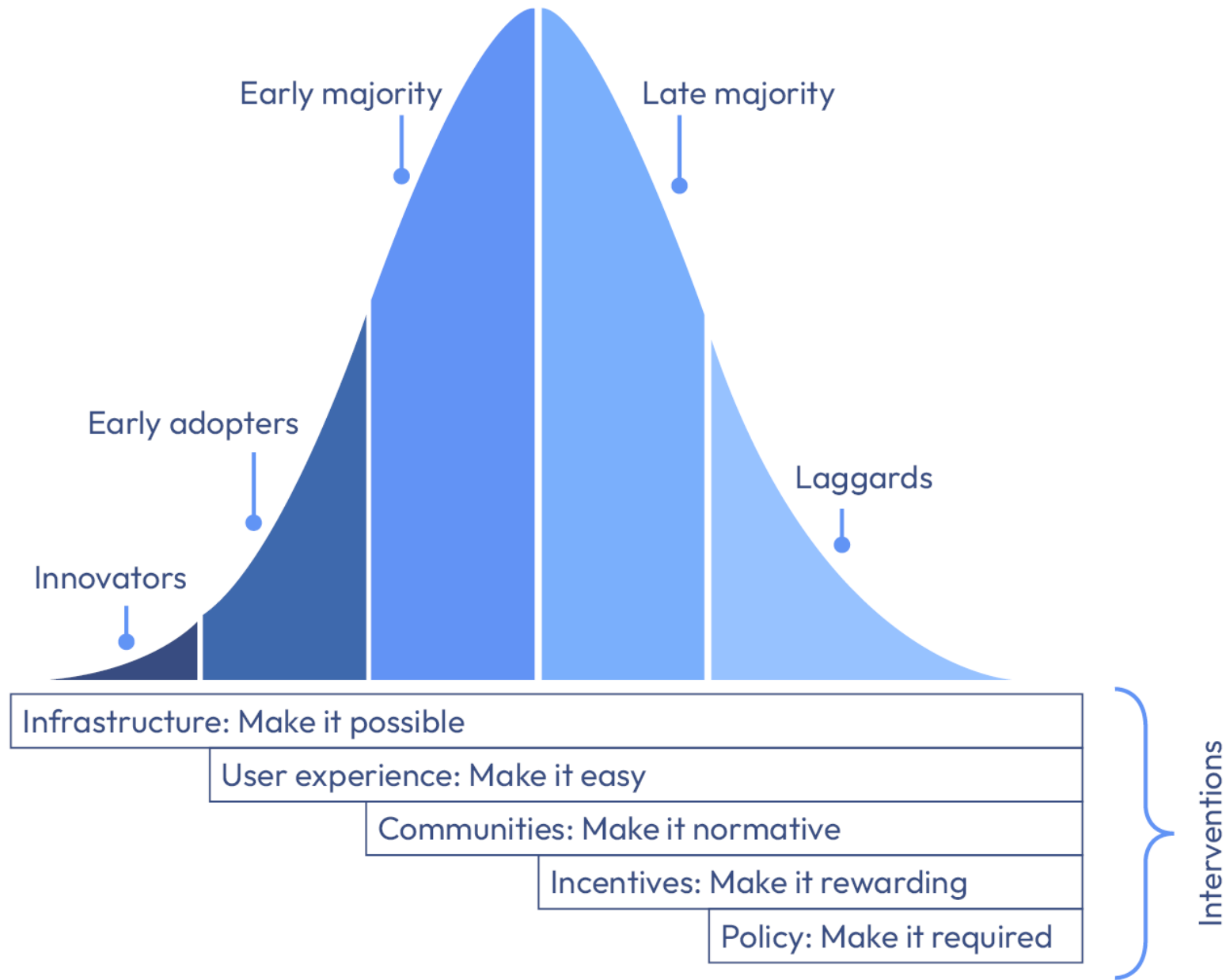


## Open Science NL's mission

“ To advance and accelerate Open Science in the Netherlands with the goal of making Open Science the norm. ”



Funders can play a particularly  
important role in accelerating the  
transition to Open Science



Credit for the figure: Brian Nosek, Everett Rogers, Anita Eerland, Alicia Dekker



Infrastructures – make it possible

# NWO's support for essential Open Science Infrastructures



# Open Science NL

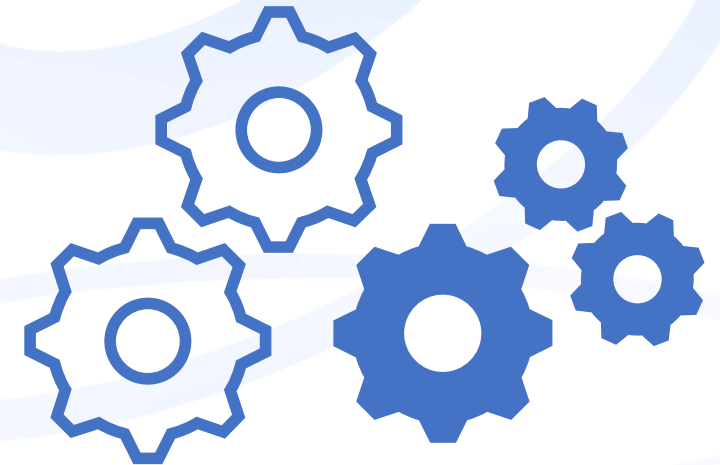
## Call for Proposals Open Science Infrastructure

### Goal:

- Support for infrastructures needed to put open science into practice

### What?

- 12.5M EUR split over two types of projects:
  - Small projects (up to 250k EUR for max. 2 years)
  - Large projects (up to 1.5M EUR for max. 4 years):
    - Consortia
    - Improvement and integration





Experience – make it easy



# NWO & OSNL Funding for digital competence centres (DCCs)



**Local DCCs:** data managers & research software engineers supporting researchers locally (ongoing funding)

- Current focus: open research software training & interoperability of research data



**Thematic DCCs:** domain-specific challenges and coordination (ongoing funding)

<https://tdcc.nl/>

<https://www.nwo.nl/en/calls/local-digital-competence-centers-ii>

<https://www.openscience.nl/en/calls/strengthening-local-and-thematic-dccs-software-training-and-data-interoperability>

Credit: Femke Stephan, Timo Schomann, Naomi Messing

# OSNL's tender for the National Training and Community Platform for Research Data Professionals



## Goal:

- Strengthen and consolidate training and community building for research data professionals in the Netherlands

## What?

- Almost 5M for 4 years



Community – make it normative

# OSNL funding to empower Open Science Communities



*Hubs where academics learn from their peers how to make their workflows more open.*

*Each community received 100k to facilitate and sustain their efforts.*

National coordination to support sharing knowledge & experience (400k for 3 years)



Incentives – make it rewarding



# Call for Proposals: Recognising and Rewarding Open Science

## Goal:

- Develop a plan, with roles and responsibilities for embedding open science within the institutional hiring, promotion and evaluation procedures.
- Scope: research and professional support staff

## What?

- 50k for every institution (non-competitive)
- 150k for coordination at a national level





Policy – make it required



# Evaluation of applicants at NWO



Removal of Journal Impact Factors and the H-index



Evidence-based CV

10 key outputs (incl. datasets, methodology, conference presentations, tools, workshop, etc)  
Special attention to Open Science

# Grant conditions: Open Access and Research Data Management Policies

- Publications need to be made Open Access (without embargo, under CC BY)
- As minimum: research data underpinning publications need to be made FAIR
  - Data management section at the application stage, and a data management plan before the project starts



# Challenges:

- How to find the right people?
- How to sustain the outcomes of the short-term funding initiatives in the long-term?
- How to assess progress?



Thank you!  
Questions?



Newsletter: <https://www.openscience.nl/en/newsletter>

Website: <https://www.openscience.nl>

Marta Teperek, [m.tepererek@nwo.nl](mailto:m.tepererek@nwo.nl)