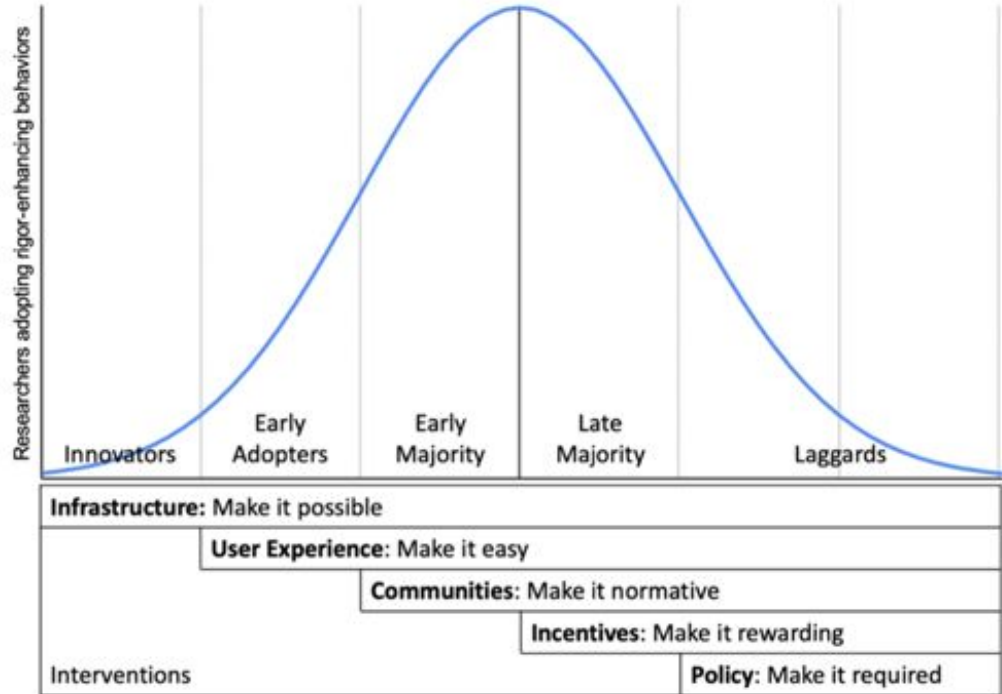


OPEN SCIENCE IN 2030

The Dutch approach: towards collective action.

Laurents Sesink, SURF

Towards Open Science becoming the new normal

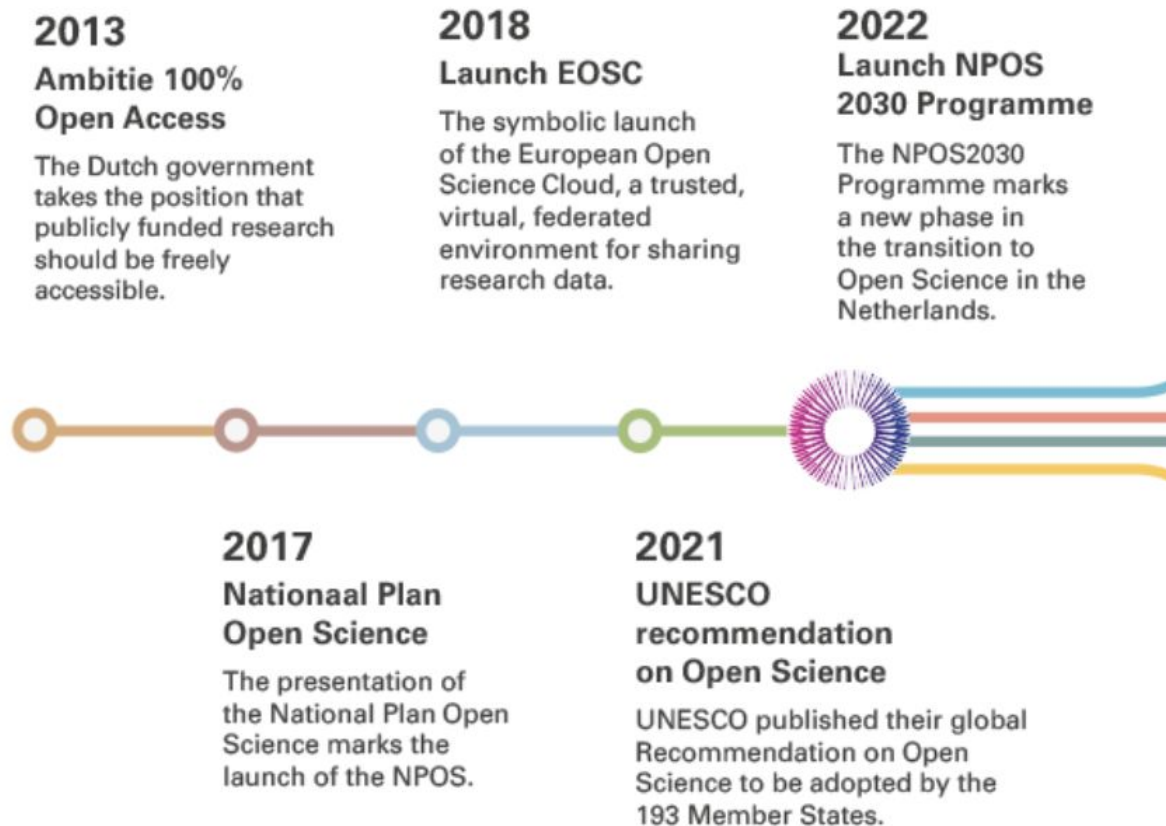


Rogers (2003), Nosek (2021)

We need:

1. Development of new and more effective use of already existing research infrastructures for effective and open knowledge sharing.
2. Development of open knowledge practice skills in the relevant scientific communities.
3. Investment in and the spreading of best practices and inspiring strong examples of effective knowledge sharing.
4. Reform the rewards and recognition system to include open knowledge practices.
5. Incorporate open science in the key responsibilities of academic leaders.

Top down and bottom-up initiatives < 2022

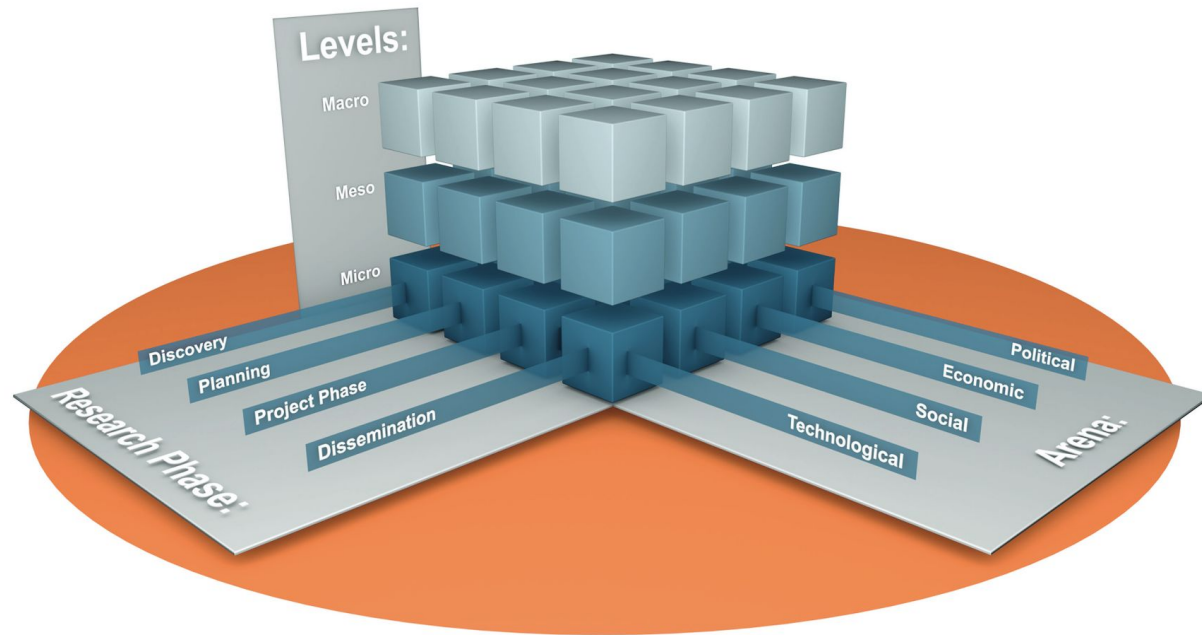


- Open Science Community NL
- Research software engineers NL
- Data management/stewardship community. LCRDM
- Citizen Science Labs

Strong focus on Circulating Knowledge

Strong focus on Creating Knowledge

Making Open Science the new normal is a collective action problem



- Level
 - Government/funding organisations
 - Research performing organisations/expertise centre
 - Research groups/researchers
- Arena
 - Infrastructure
 - Skills
 - Recognition & rewards
 - Policies & regulations
- Research phase
 - Before
 - During
 - After

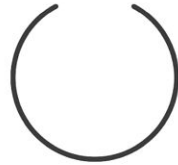
Knowledge Exchange OS framework

Aligning the strategic goals (National Open Science Platform): Ambition document



#1

Close collaboration between knowledge institutions, government, industry and citizens.



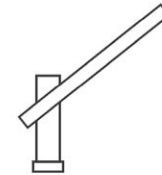
#2

Scientific processes are inclusive, efficient, transparent and carried out with integrity.



#3

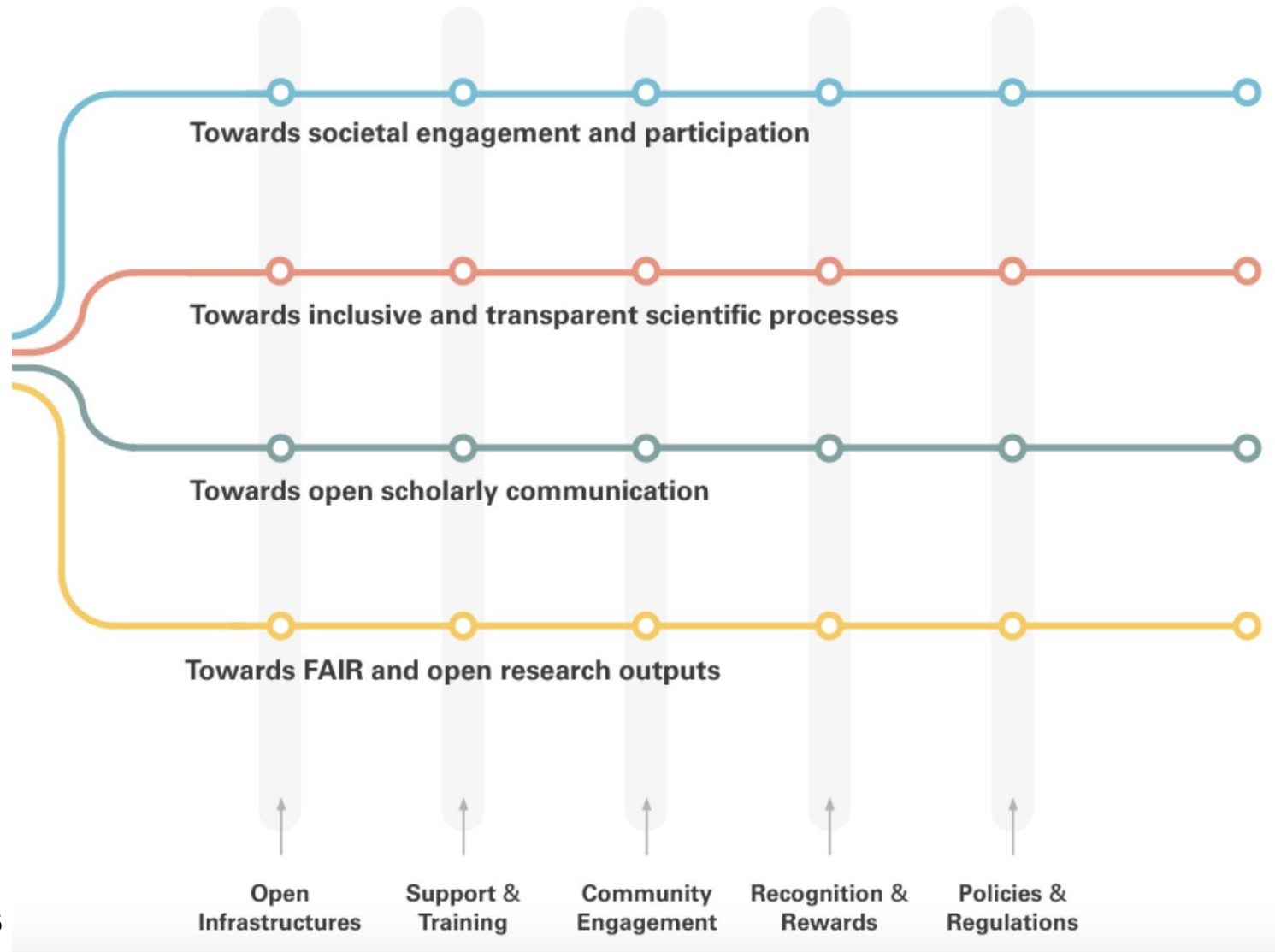
No more barriers to reading and reuse of scientific output.



#4

Products from and for science are FAIR: Findable, Accessible, Interoperable and Reusable.

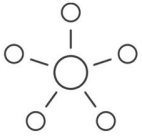
NPOS rolling agenda to achieve the strategic goals 2022/2030



- Citizens Science
- Research Software
- Open Access
- FAIR data

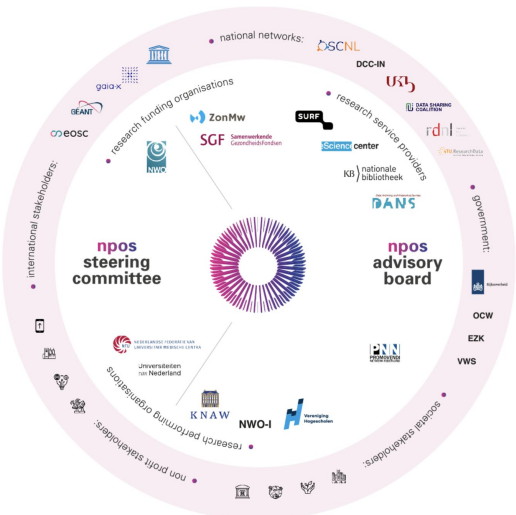
Towards (better) national coordinated action.

From NPOS to Regieorgaan Open Science

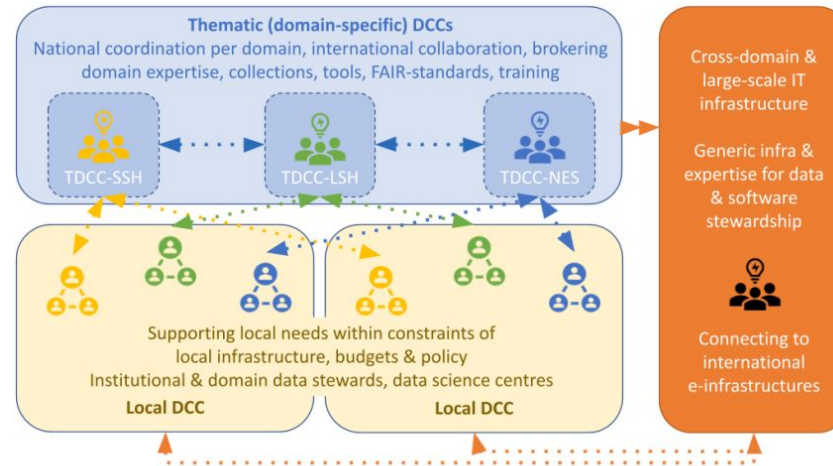


Governance

The Minister of Education, Culture and Science announced in a [policy letter on Open Science](#) that 20 million euros will be allocated to Open Science each year from 2023 to 2031. NWO has been asked to set up a temporary National Initiative (Regieorgaan) for this and has appointed the [director](#) of the Regieorgaan Open Science in August 2022.



Digital Competence Centers
Connecting RPOs with national expertise centres



Copyright and credit: Ruben Kok

Local DCC: Universities, Medical Centres, Universities of applied sciences, RPOs.

Thematic DCC: Life Sciences & Health (LSH) | Natural and Engineering Sciences (NES) | Social Sciences and Humanities (SSH)

Aligning activities in EOSC-A
Mandated Organisation



- *Public remit*
Coöperatie SURF U.A, Stichting Dutch Techcentre for Life science (DTL), DANS, TU Delft, University of Amsterdam, Utrecht University
- *International remit*
CLARIN-ERIC, EATRIS, EGI Foundation, euroCRIS, GÉANT Association, GO FAIR Foundation, SPARC Europe, Stichting LIBER
- *Commercial remit*
Elsevier, STM



The role of SURF in this collective action approach: Better connect the **local**, **national** and **international** activities

- SURF is member NPOS advisory board

- *Advisory Board is viewed as the Steering Committee's sounding board.*

- SURF is EOSC-A Mandated organisation

- *Representing Dutch stakeholders and fostering the engagement of the Dutch Open Science field in EOSC.*

- SURF facilitates implementation of Local Digital Competence Centre

- *Knowledge sharing*
- *Technical infrastructure*

- SURF as EOSC service provider

- *LOFAR Science Processing*
- *B2Share*

- SURF contribution in projects



- SURF contribution in EOSC Task group

- *Researcher engagement and adoption*
- *AAI Architecture*
- *Technical interoperability of data and services*

Some points of attention

- Align top down and bottom-up initiatives.
 - Be inclusive and engage (better) with bottom up initiatives like the Open Science, research software engineers and data stewards communities.
- Address the main barriers for researchers (time, effort and financial costs, data protection and legal restrictions; lack of recognition).
 - A stronger focus on Open Science activities before and during a research project (creating knowledge) instead of (mainly) after (circulating knowledge).
 - Develop expertise (and capacity) in multiple disciplines (team science).
- Design research workflows and integrate local, national and international services in these workflows.
 - Collaborate with Local Data Competence Centre, Thematic Data Competence Centre and EOSC.
- 9 • Stimulate FAIR by design.

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