

Open Science at NWO

Hans de Jonge | Groningen Grant week | April 22nd 2020



About me

- Head of open science policies at NWO. Joined the Executive Board Office of NWO in 2018. Responsible for our open access and data / RDM policy. Involved in projects related to ‘recognition and rewards’.
- Prior to joining NWO, I held various policy positions on national and institutional level for almost 20 years:
 - Head of unit (education) academic affairs department Utrecht University
 - Policy director research and innovation at VSNU
- I am a historian (of science) by training.
- My latest publication: “Advancing Open Access in the Netherlands after 2020: from quantity to quality” accepted for publication in *UKSG-insights*.



Overview

- Give an overview of open science requirements of NWO
- Efforts to change rewards and incentives for open science
- Support infrastructures and services for open science



How we define open science

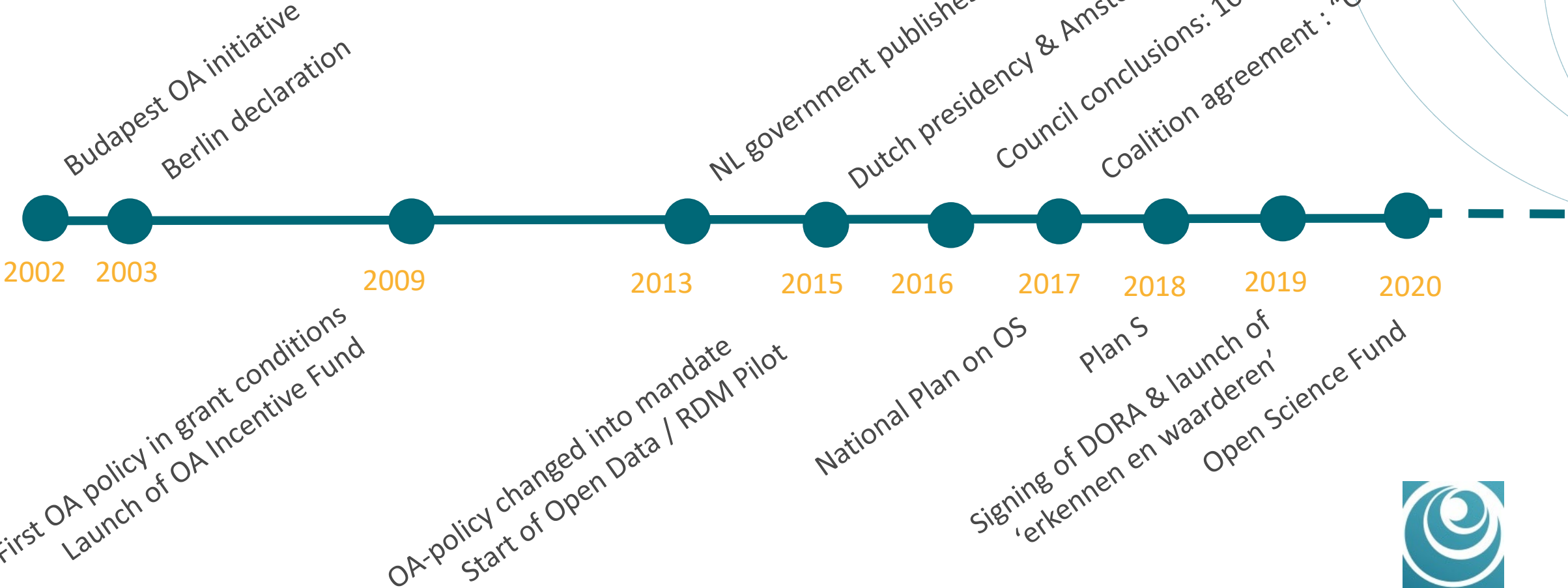
“ Open Science is defined as the scientific practice where research data, methodologies and other information (publications, data, workflows, software, code, et cetera) are made available for use and reuse across disciplinary, social and national boundaries at the earliest possible stage.

Open Science implies a change in the way research is **conducted** and **evaluated**: a shift from an emphasis on publications of mainly positive results in scientific journals to the sharing of all available knowledge in various stages of the research process

”



Where we come from



Why do we feel open science is important?



For the evidence underpinning the claims in this animation: <https://doi.org/10.5281/zenodo.4454973>



Open science requirements of NWO



Open access to publications

- Policy in place since 2009. Recently updated to bring in accordance with [Plan S of cOAlition S](#). Applies to all publications from calls for proposal from Januari 1 2021 onwards.
- **All peer reviewed scholarly papers resulting from research funded by NWO have to be made open access immediately (without embargo) through one of three routes:**
 - **Full gold:** publication in a full open access journal registered in [DOAJ](#)
 - **Green:** publication in a closed (subscription) journal and immediate deposition of the AAM or VOR of the article in a repository that is registered in [OpenDOAR](#)
 - **Hybrid:** publication in a hybrid journal for which a transformative agreement has been negotiated between VSNU and a publisher.
- A Creative Commons license has to be applied (CC BY or CC BY NC).
- Publication costs (for full gold open access journals only) can be included in the application budget.



Open access books

- NWO also expects books, book chapters and edited volumes that emerge from research funded by NWO to be made available in open access.
- For peer-reviewed books with an academic readership only. Trade books are excluded.
- NWO supports open access books with a dedicated funding scheme
- Up to € 10.000,- per academic book (monograph or collected volume) provided it is the result of NWO funded research.
- For more information and requirements, see: <https://www.nwo.nl/calls/open-access-boeken>



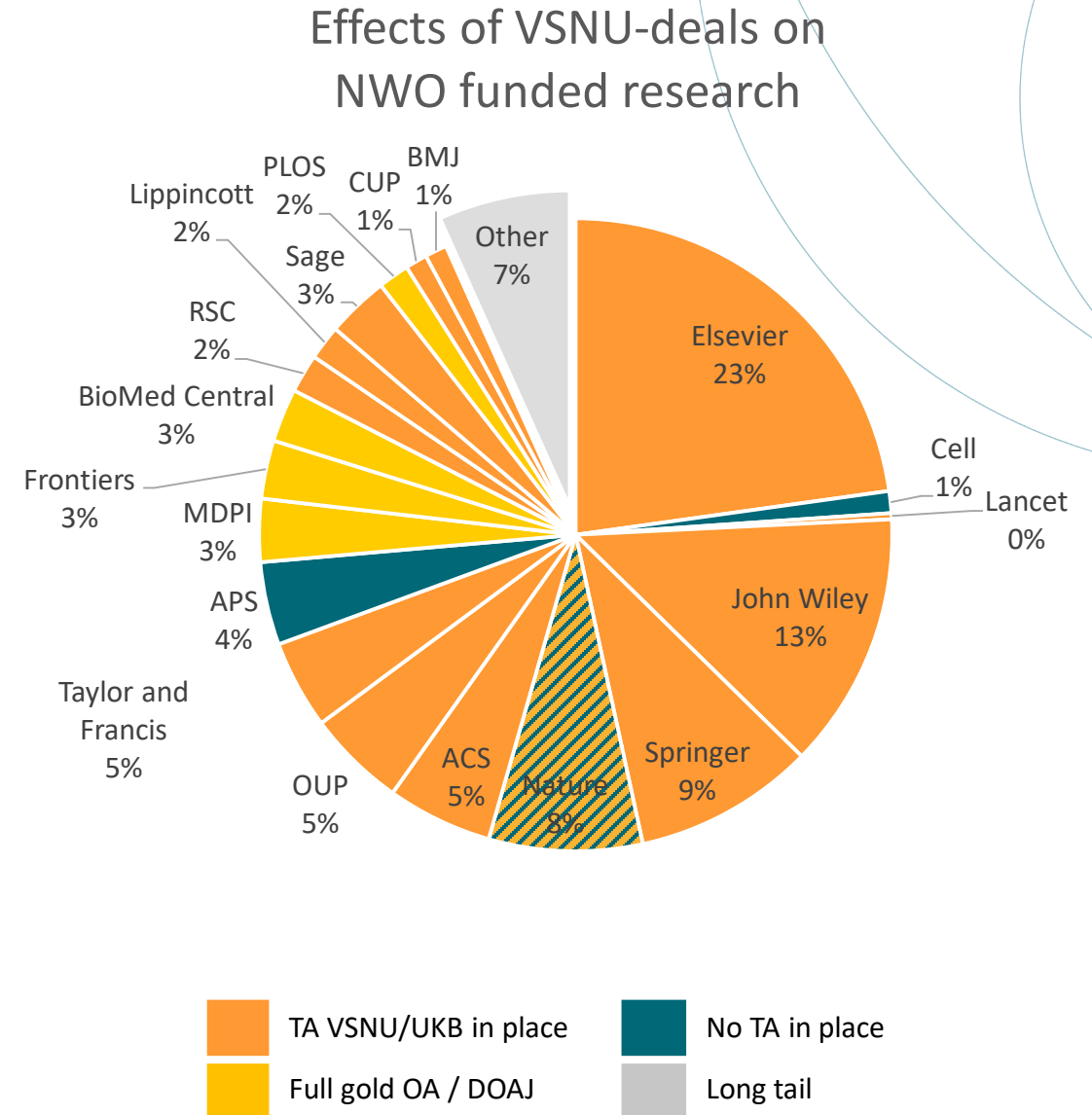
Open Access Book Publication Fund

Call for proposals

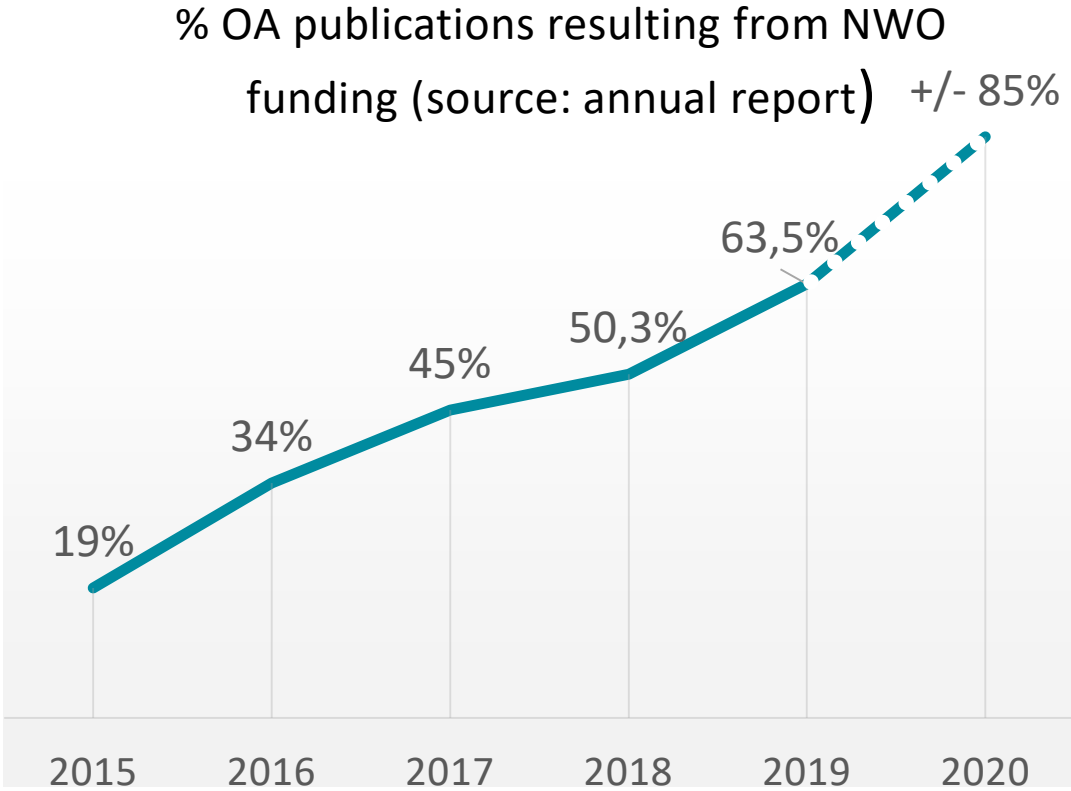


VSNU open access deals

- 18 open access deals in place and regularly updated
- More information about journals included in deals on www.openaccess.nl
- **Currently 70% of NWO funded publications are potentially covered by national deals.**



Open access rate: where we are:



Research data management

- NWO expects research data generated during funded projects to be made available for reuse. At a minimum data underlying publications should be made available upon publication of the paper.
- “As open as possible as closed as necessary” (cf H2020 and HorizonEurope).
 - Privacy, public safety, ethical restrictions, property rights and commercial interests can be reasons for an exception.
- As FAIR as possible
- Data management plan (DMP) to be completed before start of project. Support from local data management support office is required.
- RDM costs can be included in the application budget.

Open
data
is about
MORE
THAN
DISCLOSURE
it must be
Fair

- Findable
- Accessible
- Interoperable
- Reusable

Recognizing and rewarding open science practices

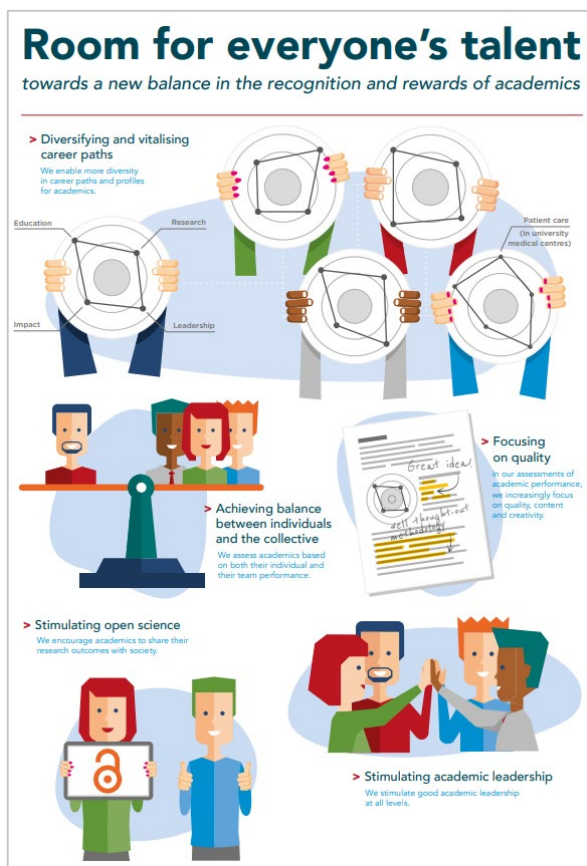


Incentives and rewards for open science

“Over the past decade, funder mandates have had an important role in stimulating open science practices. For open science (and FAIR data) to become a norm, rather than simply a hurdle to overcome, **we need to give credit and recognition to the researchers who put open science into practice.** The incentives for collective success (what benefits science and society) and incentives for individual success (what determines academic career progression) need to be aligned.”

Maria Cruz, Hans de Jonge, Beyond mandates: For open science to become a norm, it must be recognised and rewarded, [LSE Blog](#)

Recognition and rewards



This calls for a system of recognition and rewards of academics and research that:

1. Enables the diversification and vitalisation of career paths, thereby promoting excellence in each of the key areas;
2. Acknowledges the independence and individual qualities and ambitions of academics as well as recognising team performances;
3. Emphasises quality of work over quantitative results (such as number of publications);
4. Encourages all aspects of open science; and
5. Encourages high-quality academic leadership.

What NWO doest to recognize & reward open science

- NWO signed DORA (Declaration on Research Assessment) in 2019.
- DORA global movement that intends to reform the way research and researcher gets evaluated.
- Includes recommendations for funders, journals and institutions
- Not to use metrics like Journal Impact Factor as a proxy to evaluate individual researchers
- Instead assess researcher on its own merits rather than on the basis of the journal in which the research is published.
- Gradually implementing principles in our procedures.

DORA implementation

Blog | Quality over quantity

Author: Kasper Gossink-Melenhorst

Date: 14 November 2019 How the Dutch Research Council is giving researchers the opportunity to showcase diverse types of talent.



Narrative CV format

- **Academic profile:** Who are you as a researcher?
Possibility to highlight contributions to open science.
- **Key output:**
 - Motivated list of max. 10 items;
 - Broad definition of output: also preprints, datasets, software, code and other outputs can be listed
 - OA-status has to be identified
 - No questionable metrics like h-index or Journal Impact Factor.

“Although it is not a formal criterion, making contributions to open science clearly visible in the CV causes jurors to explicitly take openness into account in their assessment”.

4. Curriculum Vitae (weight: 40%)

4a. Academic profile ⓘ

(Min 400 words - max. 700 words)

Wordcount:

4b. Key output ⓘ

(Max. 10 items. Min. 400 words - max. 700 words, excl. output titles and references to the out

Wordcount:

▷ ← Expand for Explanatory Notes on section 4

5. Administrative details

5a. Personal details

Title(s), initial(s), surname(s):	
Postal address (for full duration of the round):	
Telephone:	
Mobile phone:	

NWO Open Science Fund 2020/21



- New funding instrument
- Researchers from all disciplines can apply
- For a project up to max €50.000,-
- Individually or as a team
- **To test, develop, implement innovative ways of making research open, accessible, transparant and reusable**
- Deadline: 18 May 2021, before 14:00:00 CEST
- <https://www.nwo.nl/en/calls/open-science-fund-2020/2021>

Open Science infrastructure support



Open science requires open infrastructure

- NWO supports the following open science infrastructures:



Europe
PubMed
Central



DOAJ
DIRECTORY OF
OPEN ACCESS
JOURNALS



Data Competence Centre Support

- 4,2 mln euro to support universities to further invest in data stewardship support.
- By establishing or expanding local support offices (DCC's)
- Where researchers can go with all questions related to research data and research software
- Supported by SURF in national network
- A follow-up call will support federation of local DCCs and domain-specific (national) DCC's.



Take home messages

- NWO feels strongly about open science because it ensures the research we fund is better findable and accessible, more transparent and reliable and thus has - potentially - more impact on science and society.
- If you apply for a grant at NWO: be aware we have a number of requirements to make your research openly available.
- And be reassured: NWO is actively supporting the transition to open science by:
 - ensuring open research practices get recognized and rewarded.
 - Financially supporting open science infrastructures and services.



Thank you! Questions?

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