

theLisboncouncil
think tank for the 21st century

ESADE
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 **CWTS**
Meaningful metrics

Open Targets

How Steps Towards Establishing a Data Commons Are
Accelerating Drug Discoveries and Health Breakthroughs

David Osimo, director of research, the Lisbon Council
Coordinator of the Open Science Monitor

Webinar, 05 July 2019

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AGENDA

- Introduction on the Open Science Monitor, René von Schomberg, team leader, open science policy co-ordination and development, DG research and innovation, European Commission
- The Open Targets case, Dr. Ian Dunham, Open Targets Director
- Discussion on the case, Laia Pujol, ESADE researcher and author of the case study
- Q&A

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Thank you for your attention!

Get involved, have your say:

Contact:

Study Coordinator: david.osimo@lisboncouncil.net

Contribute to improving indicators:

<https://www.linkedin.com/groups/12143884/>

Access the Open Science Monitor:

www.ec.europa.eu/info/open-science-monitor/

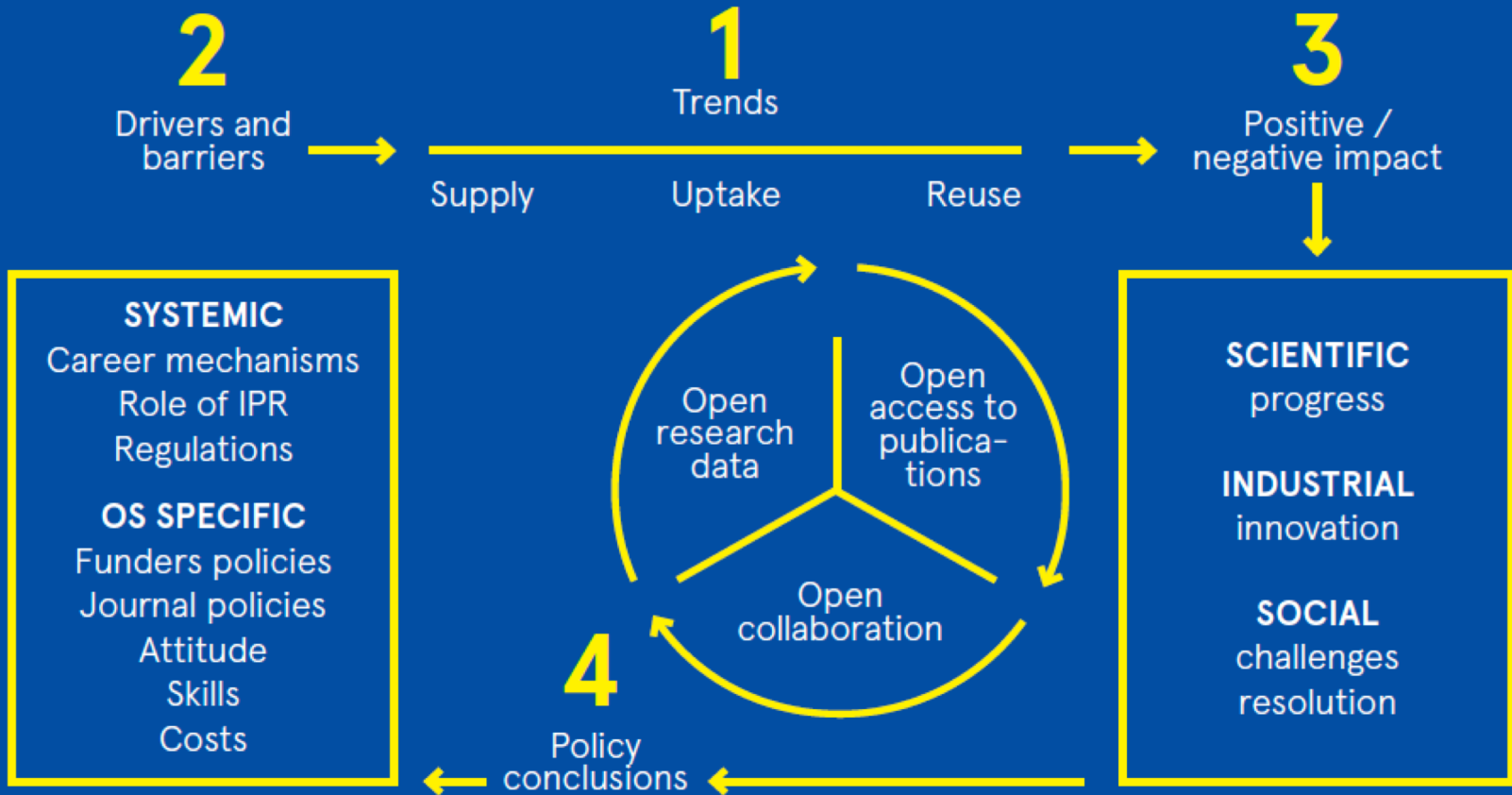
Overview

The **Open Science Monitor** was initiated by the European Commission in 2013 with the aim of **monitoring and analysing open science trends** worldwide in a **collaborative and open way**.

Why Develop an Open Science monitor?

To determine the **scope, nature** and the **impacts** of Open Science in Europe and globally across the research cycle in order to **provide an evidence-based view of evolution of Open Science** and **facilitate policy making**.

OSM at a glance

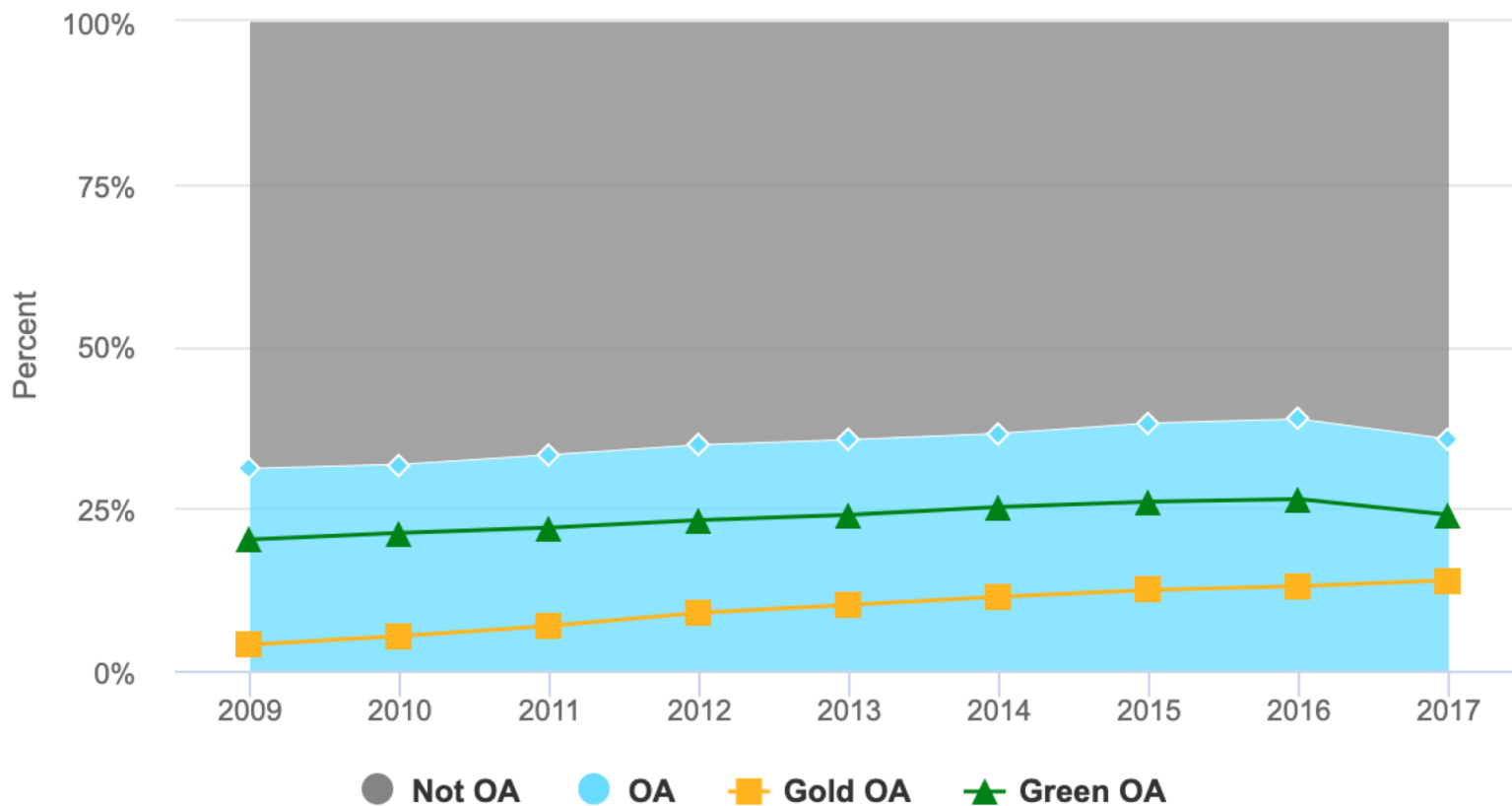


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Trends: Open Access to Publications

Percentage of Open Access publications (Gold and Green) by year on total

Source: Consortium's own analysis of Scopus and Unpaywall databases



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Trends: Open Research Data

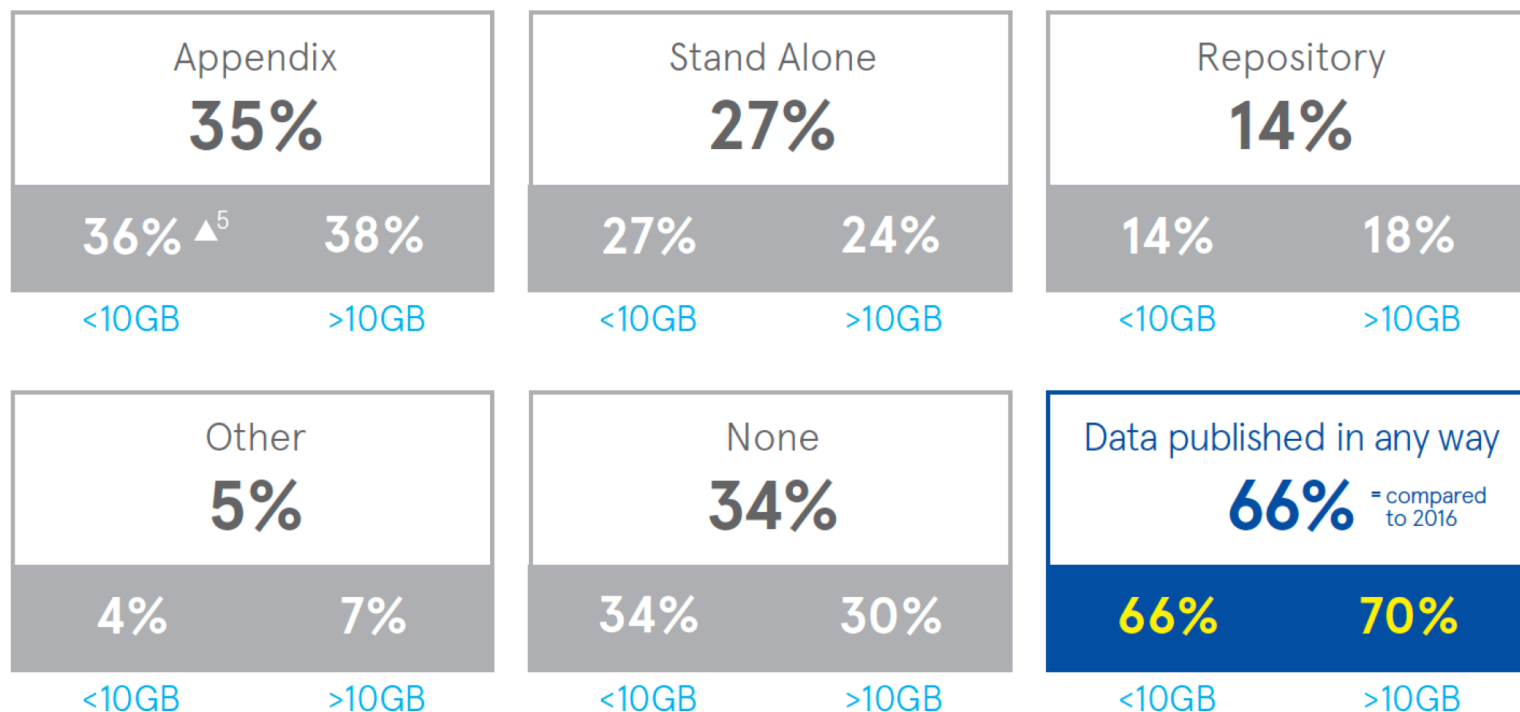
Open research data refers to the data underpinning scientific research results that has no restrictions on its access, enabling anyone to access it.

- The number of researchers sharing data in their last project has remained stable with no growth shown over the past two years.
- 42% of researchers declare that they rely on data from other researchers and 74% declare they would benefit from access to others' research data.

Trends: Open Research Data

Means of publishing the research data used or created in previous project by researchers

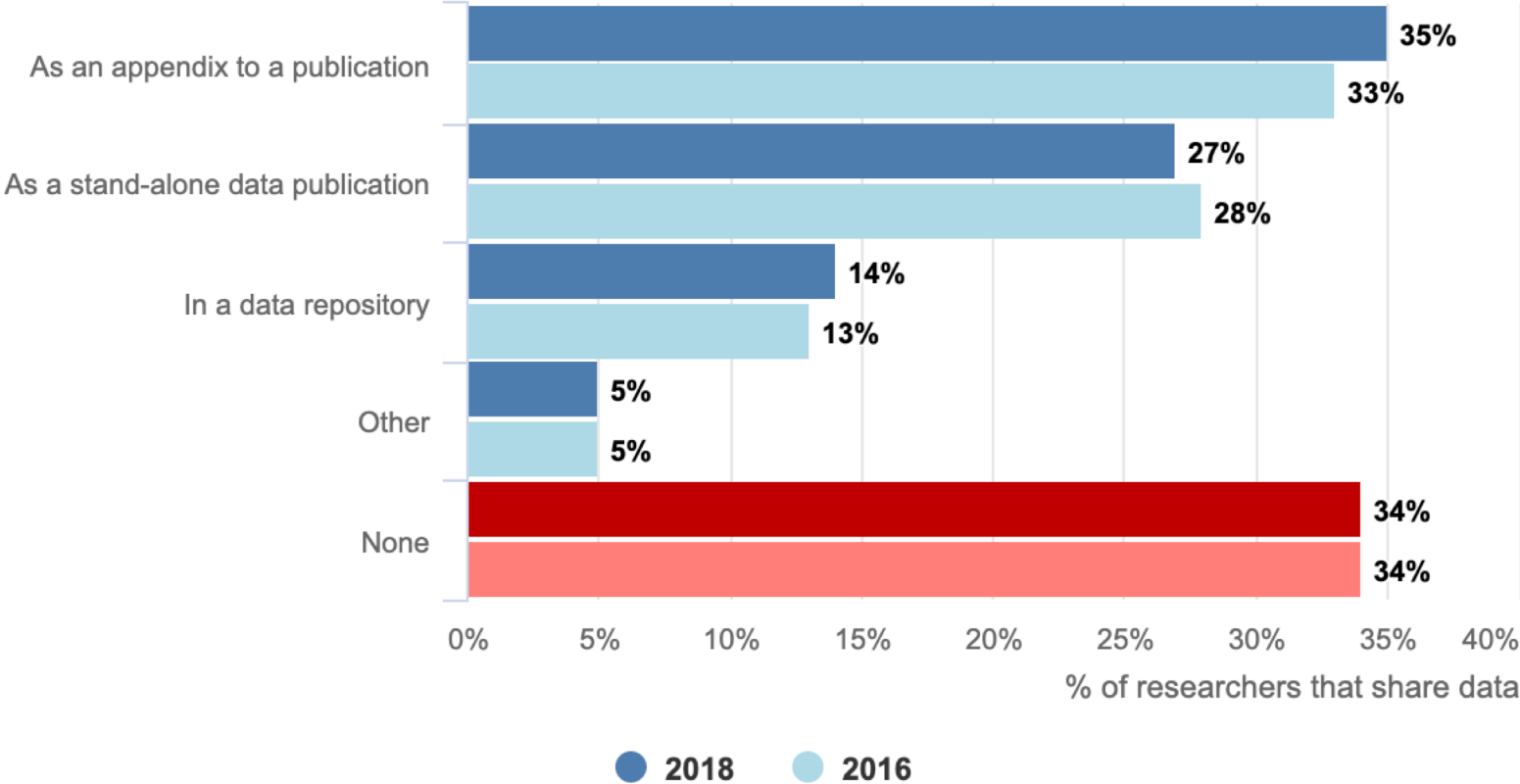
Source: Open Science Monitor Survey on Open Research Data 2018



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Attitudes of researchers: % of researchers that share data, by modality

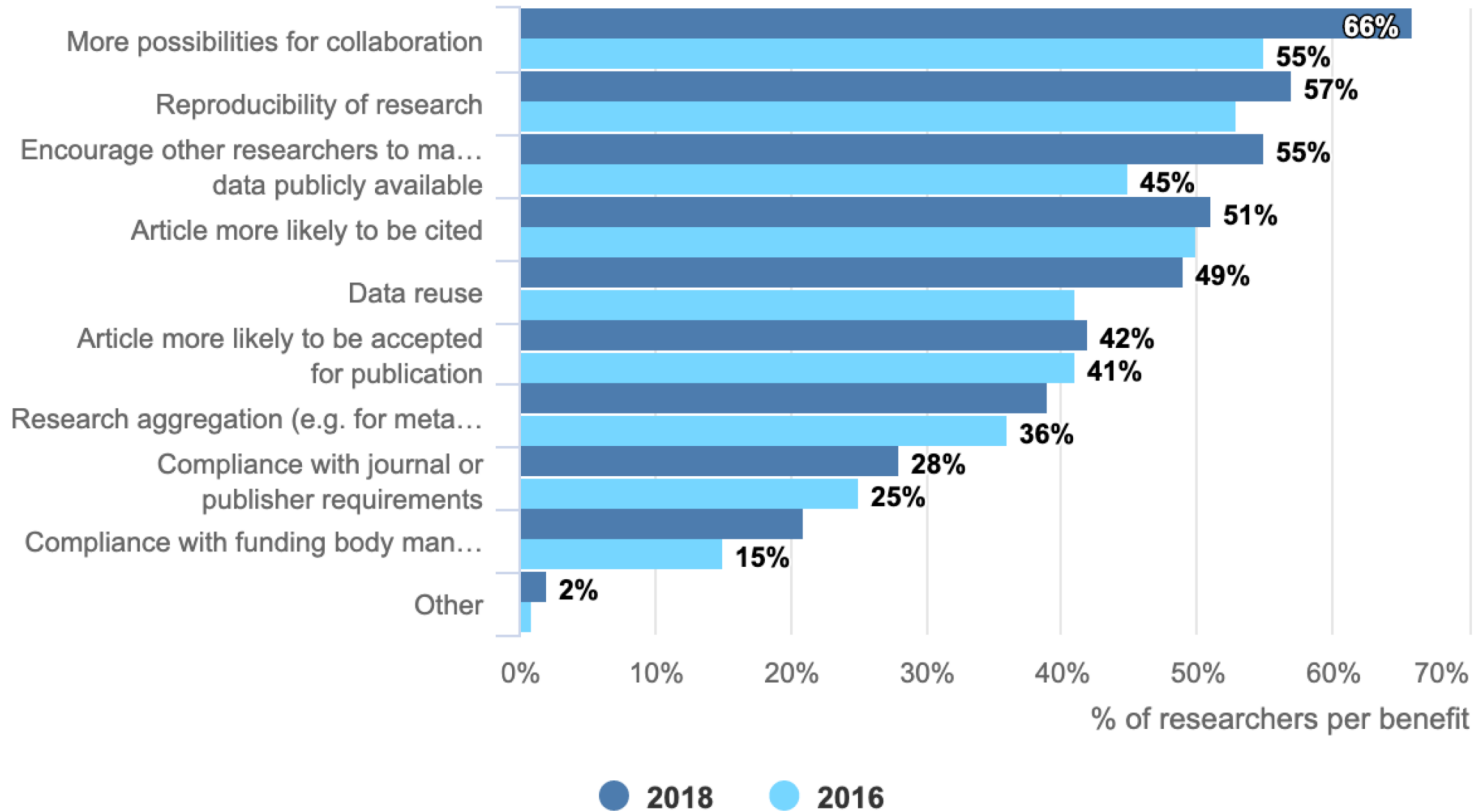
Reference dates: 2016 and 2018



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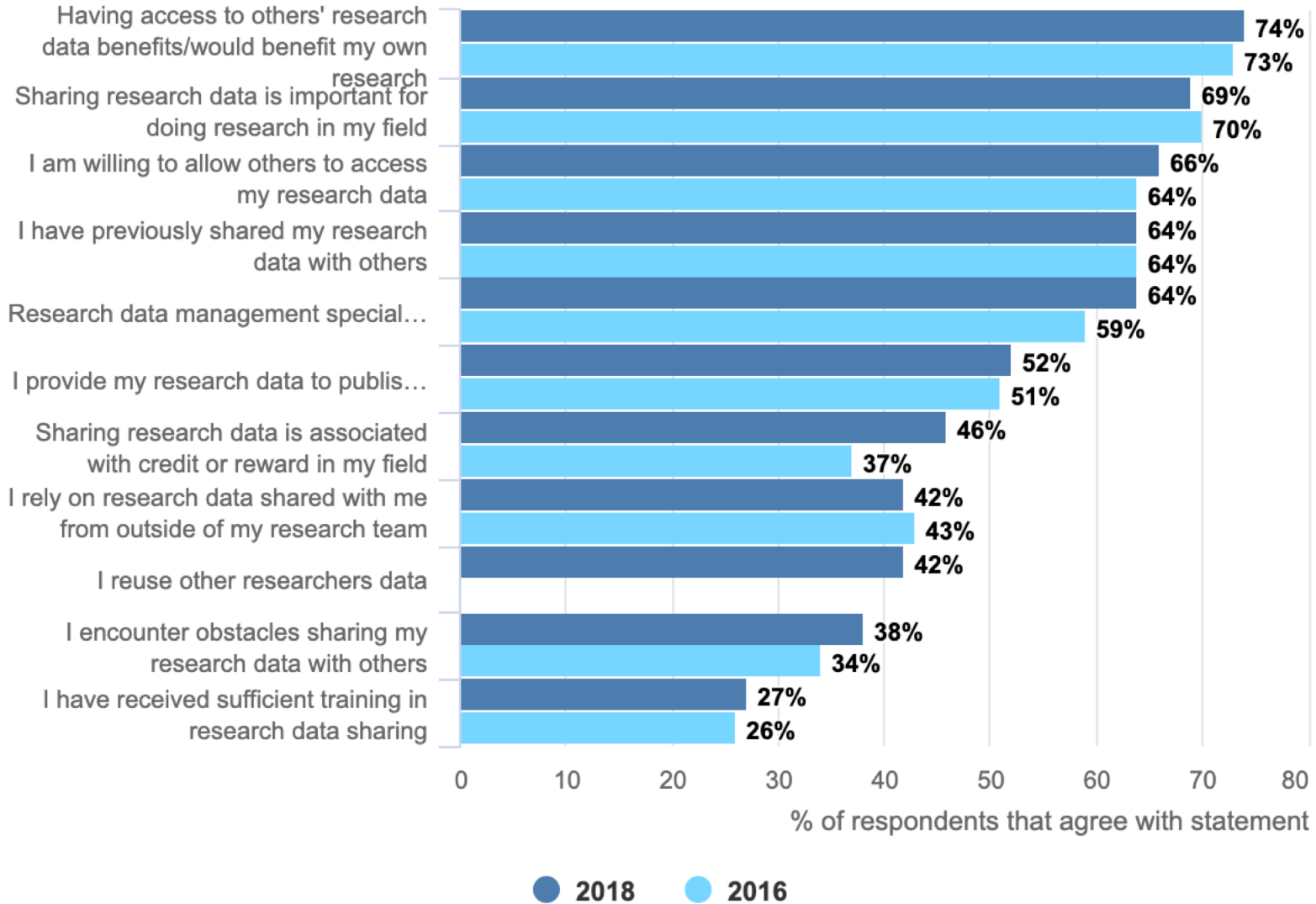
Benefits of sharing research data: % of researchers per benefit

Reference dates: 2016 and 2018



Attitudes of researchers: % of respondents that agree with statement

Reference date: 2018 and 2016



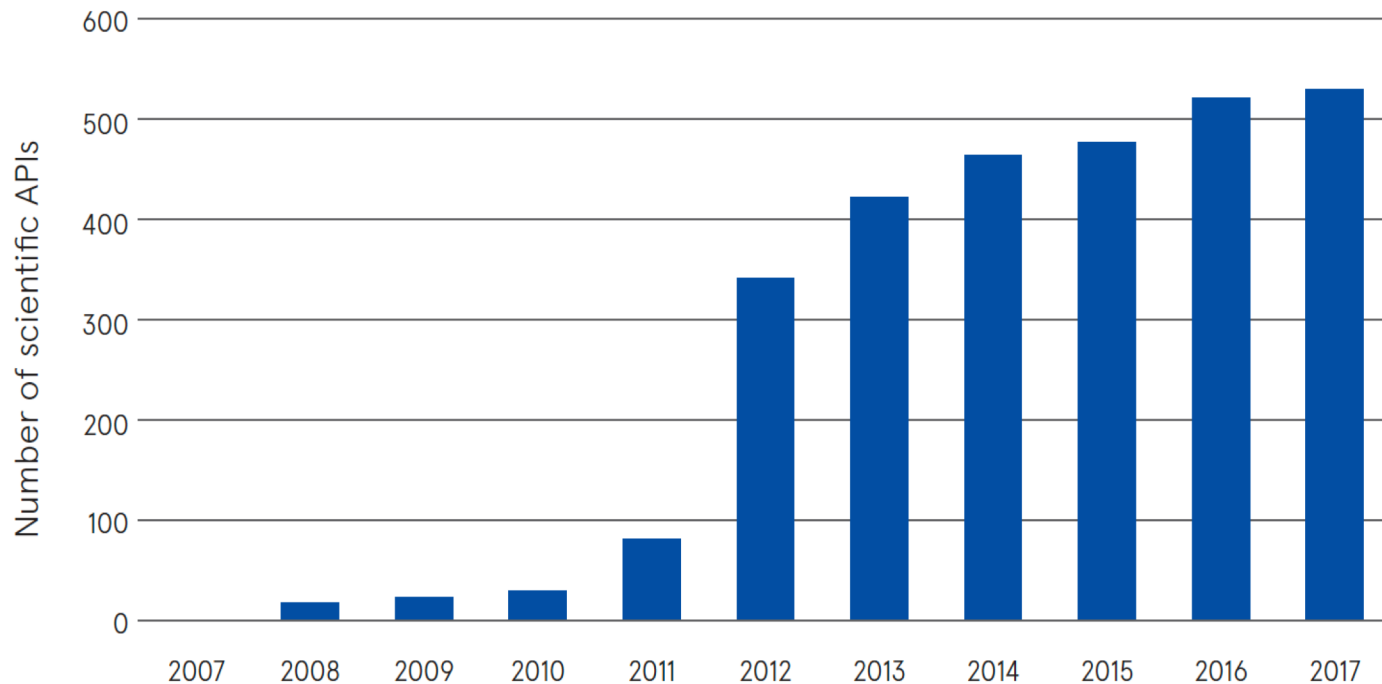
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Trends: Open Collaboration

Open scientific collaboration refers to the forms of collaboration in the course of the scientific process that do not fit under open data and open publications.

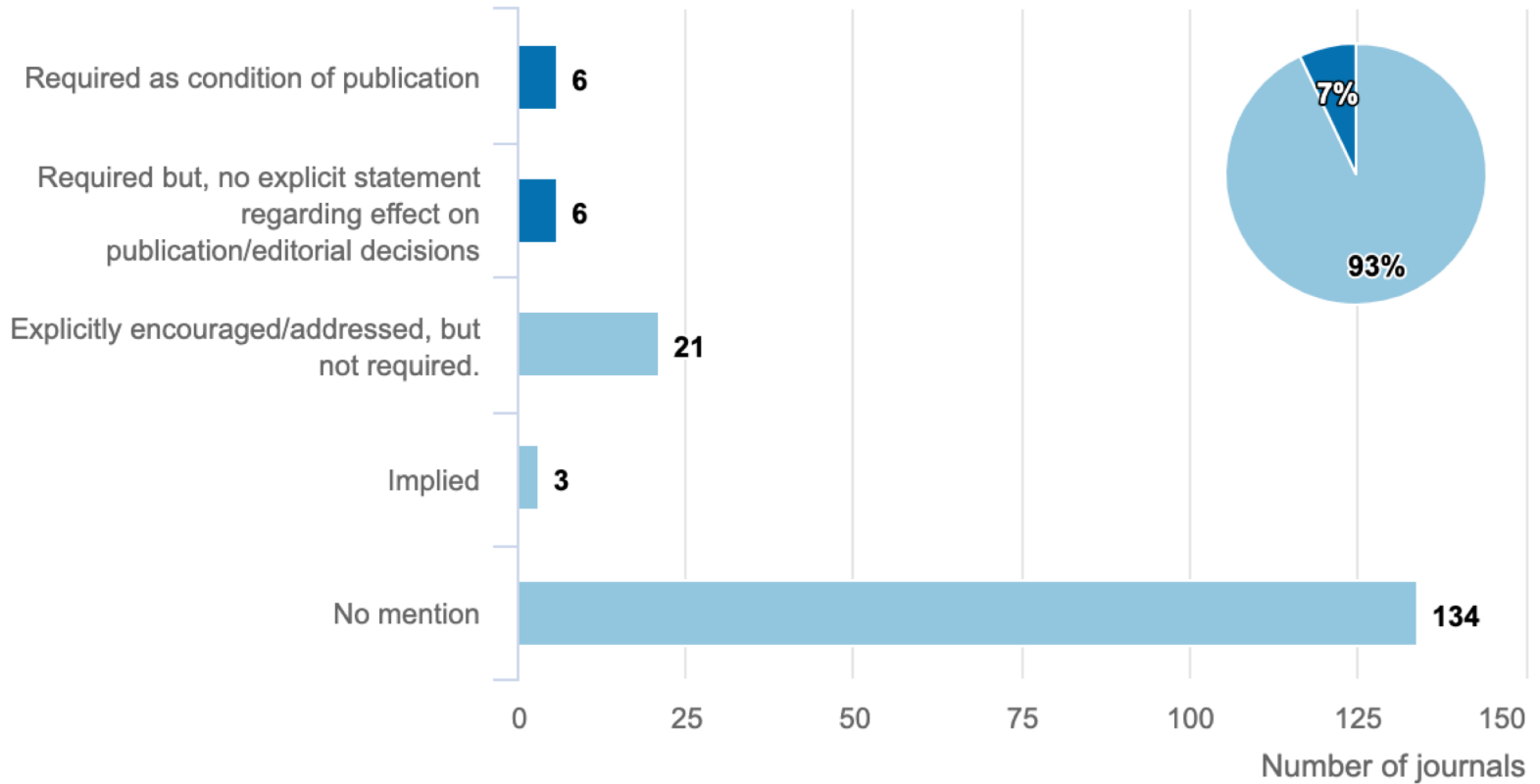
Number of scientific APIs

Source: ProgrammableWeb - Reference date: April 20th 2018



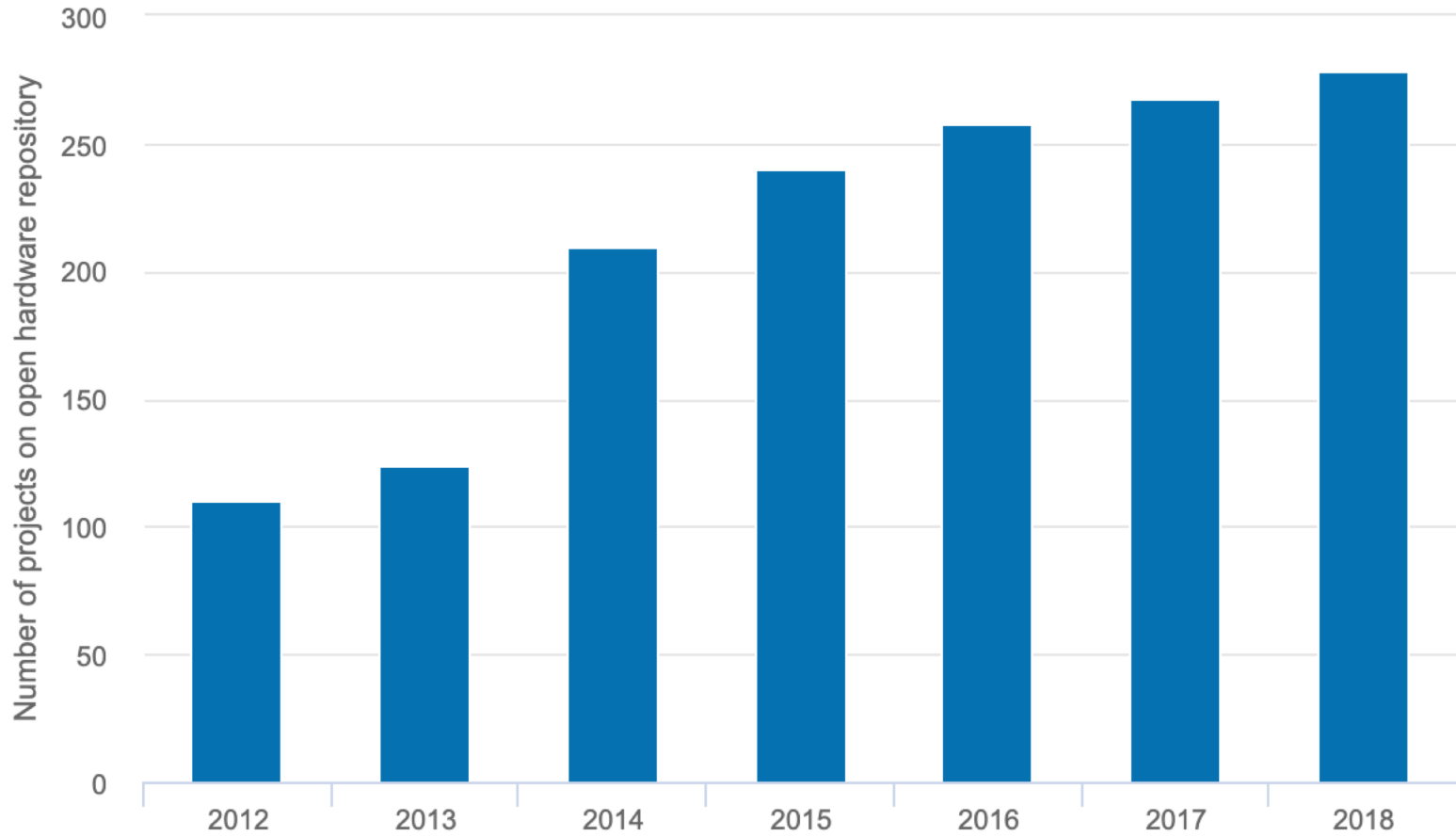
Number of journals per code sharing modality

Source: Stodden, V., Guo, P. and Ma, Z. (2013), "Toward reproducible computational research: an empirical analysis of data and code policy adoption", PLoS One, Vol. 8 No. 6, p. e67111. doi: 10.1371/journal.pone.0067111.



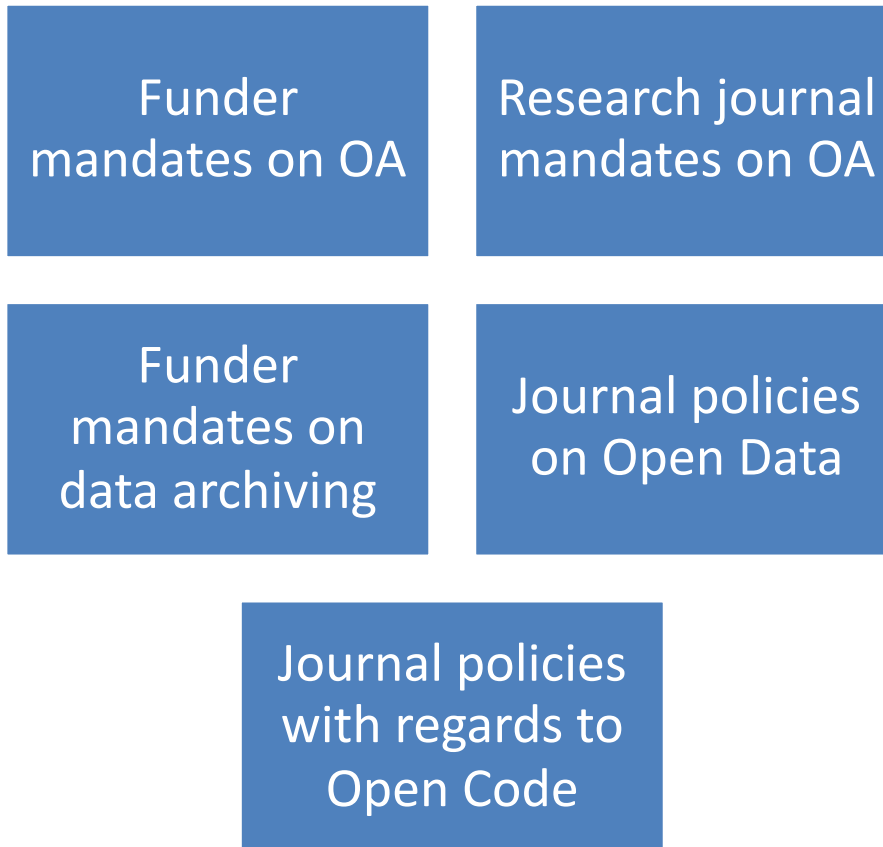
Number of projects on open hardware repository

Source: Open Hardware Repository - Reference date: April 20th 2018



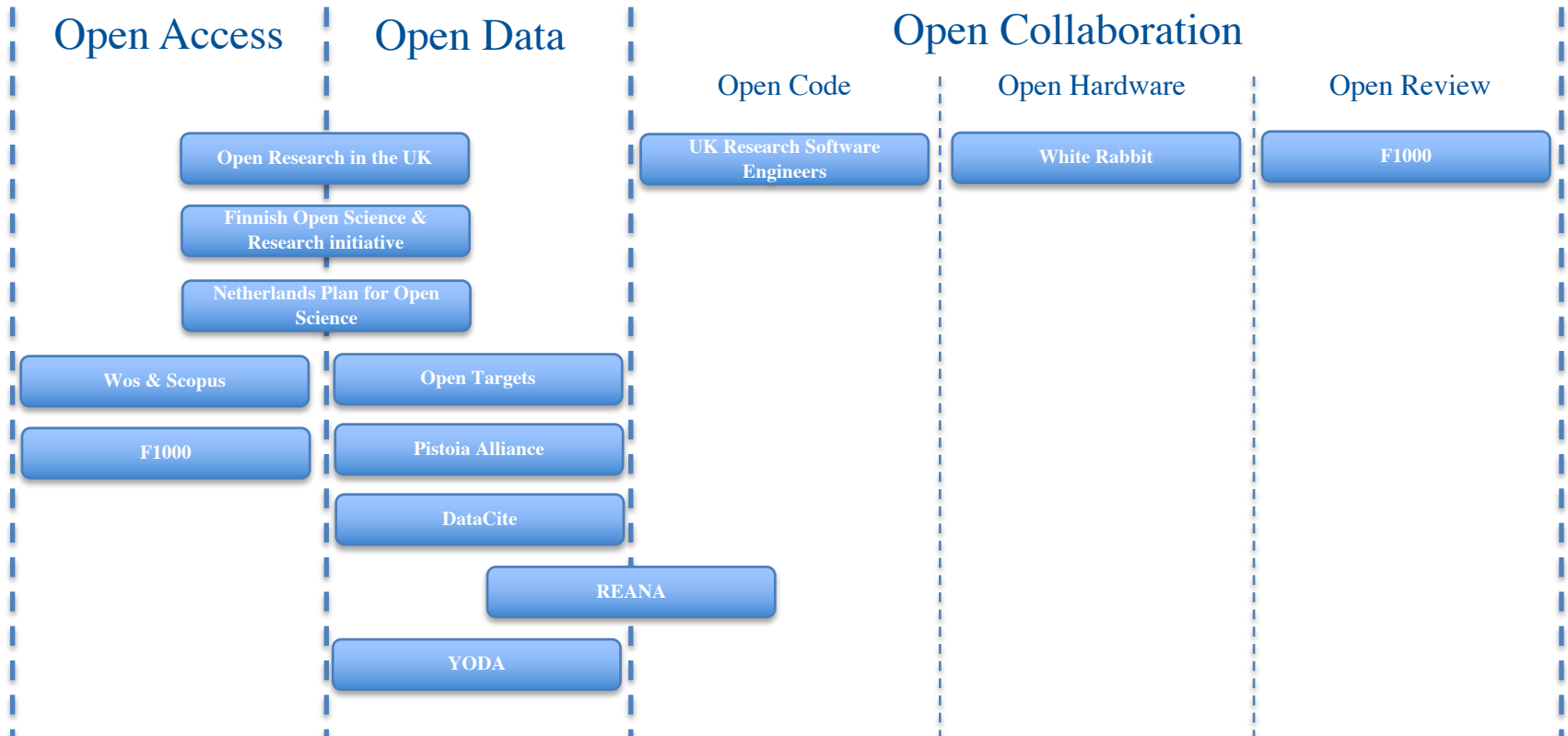
Drivers Behind Open Science

There are many different drivers at play which can facilitate the adoption of open science. Journal and funders' policies are increasingly in place. Examples of the drivers behind open science include:



Case Studies

The OSM delivers 30 case studies on the drivers and barriers encountered regarding open science and the direct impact on three main areas: science, industry and society.



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