

SHARC Survey on Open Science - RDA 19th Plenary International Data Week 2022

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2022-06-09

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How Open Science activities are perceived and recognised in Research and the Research career

Here we present preliminary results of the **SHARC Survey on Open Science** to be presented at the RDA 19th Plenary during the International Data Week 2022. This survey addresses awareness of Open Science activities and existing & expected reward systems in research assessment, in particular for sharing activities, in different contexts.

This work is part of the Sharing Rewards and Credit (SHARC) Interest Group of the Research Data Alliance (RDA). The RDA-SHARC IG is an interdisciplinary group set up to unpack and improve crediting and rewarding mechanisms in the data/resource sharing process. The main goals are to foster the implementation of rewarding paths and encourage the adoption of data sharing activities-related criteria in the research evaluation process at the institutional, national and European/international levels.

Quick summary on respondents background: We received 113 responses, from people working in 22 countries, of which 40.71% declare their gender was female, 41.59% male and 17.7% had no response. Most respondents had 'Researcher' as their main job title (41.59%) and between 10 and 20 years of experience in their field (31.86%).

Respondents' background

Gender

G05Q10: Your gender

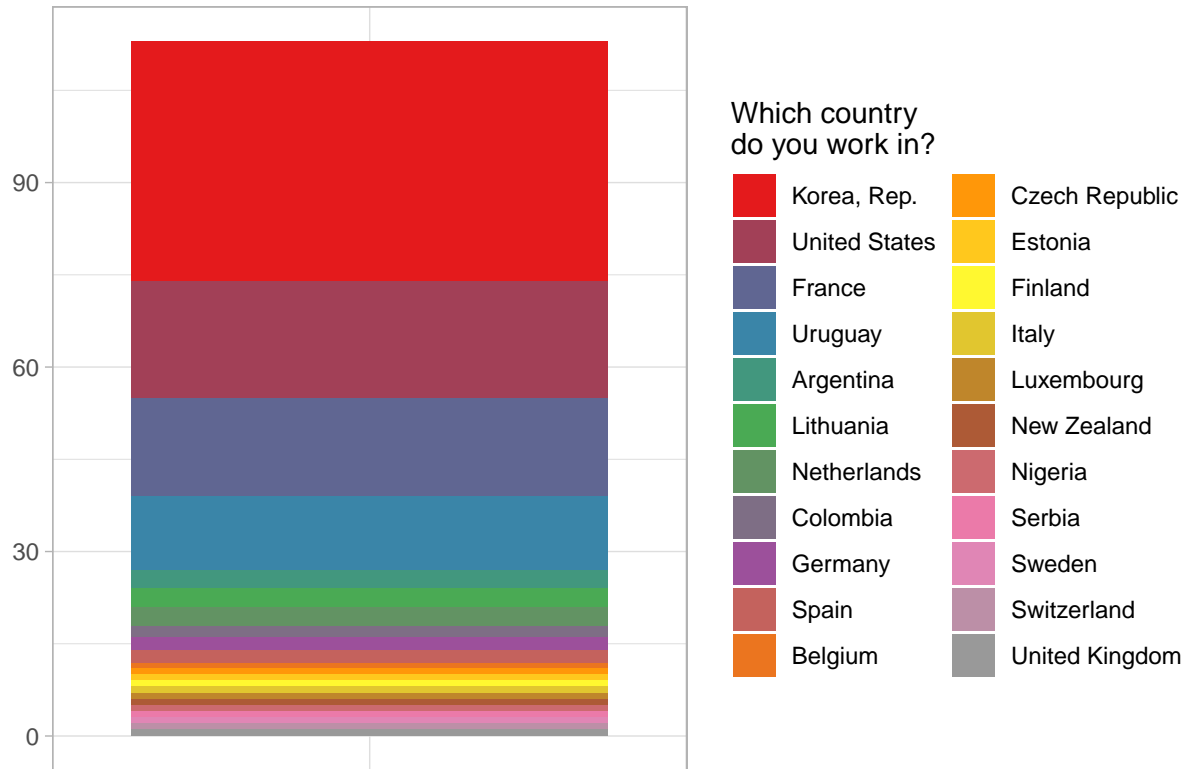
gender	n
female	46
male	47
no response	20

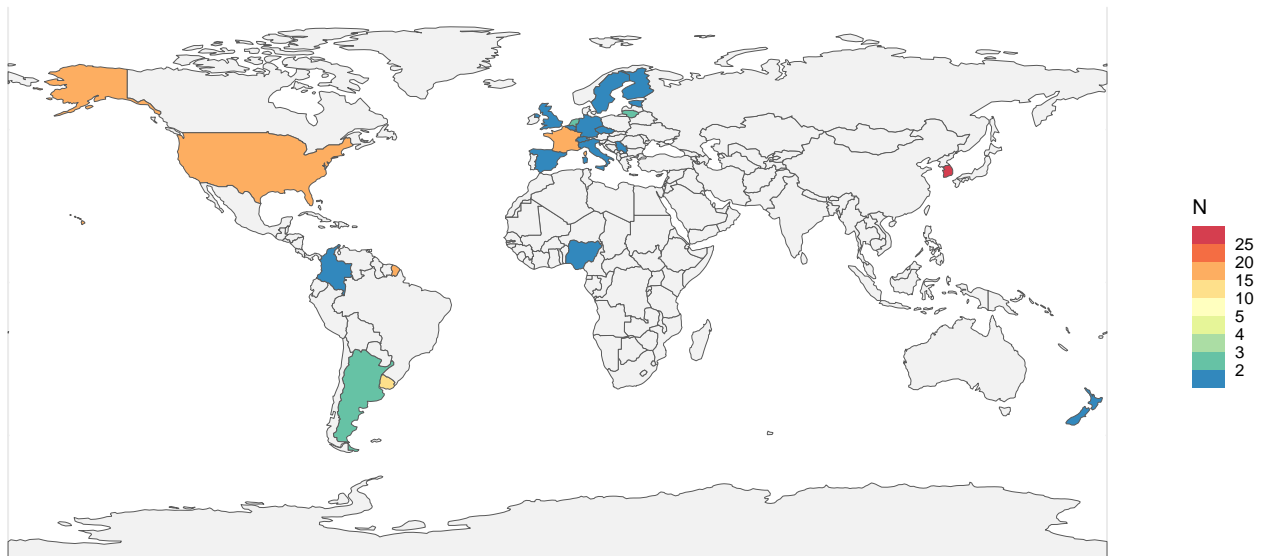
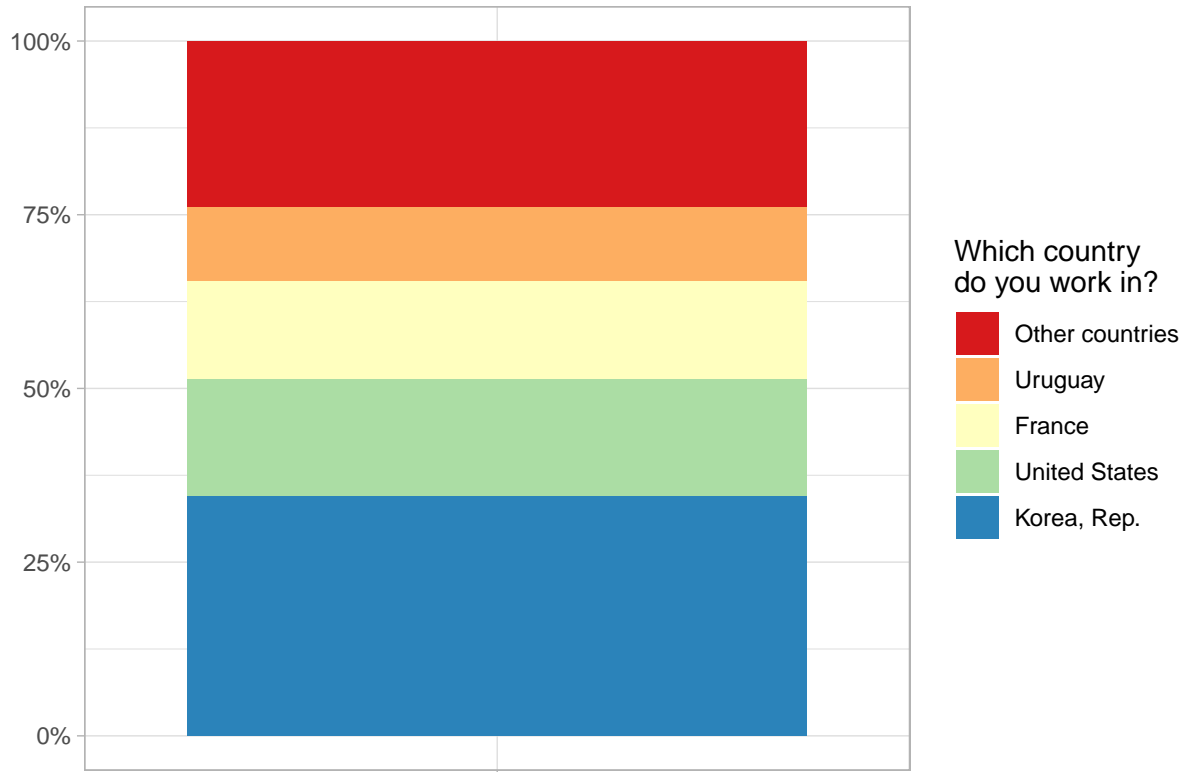


Country

Which country do you work in? (G05Q15)

Country	n
Argentina	3
Belgium	1
Colombia	2
Czech Republic	1
Estonia	1
Finland	1
France	16
Germany	2
Italy	1
Korea, Rep.	39
Lithuania	3
Luxembourg	1
Netherlands	3
New Zealand	1
Nigeria	1
Serbia	1
Spain	2
Sweden	1
Switzerland	1
United Kingdom	1
United States	19
Uruguay	12





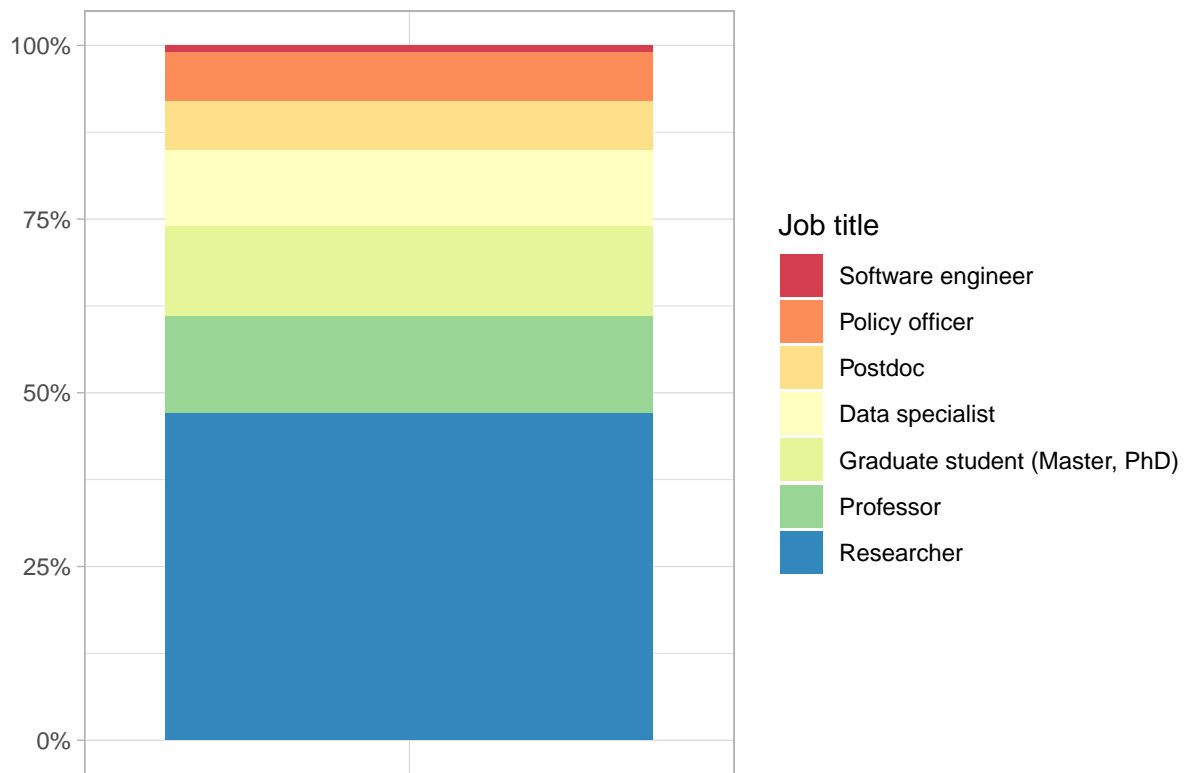
Job title

G05Q13: Main position/job title: which of the following are you now?

Job title	n
Researcher	47
Professor	14
Graduate student (Master, PhD)	13
Other, please specify in the comment box	13
Data specialist	11
Policy officer	7
Postdoc	7
Software engineer	1

Other job titles

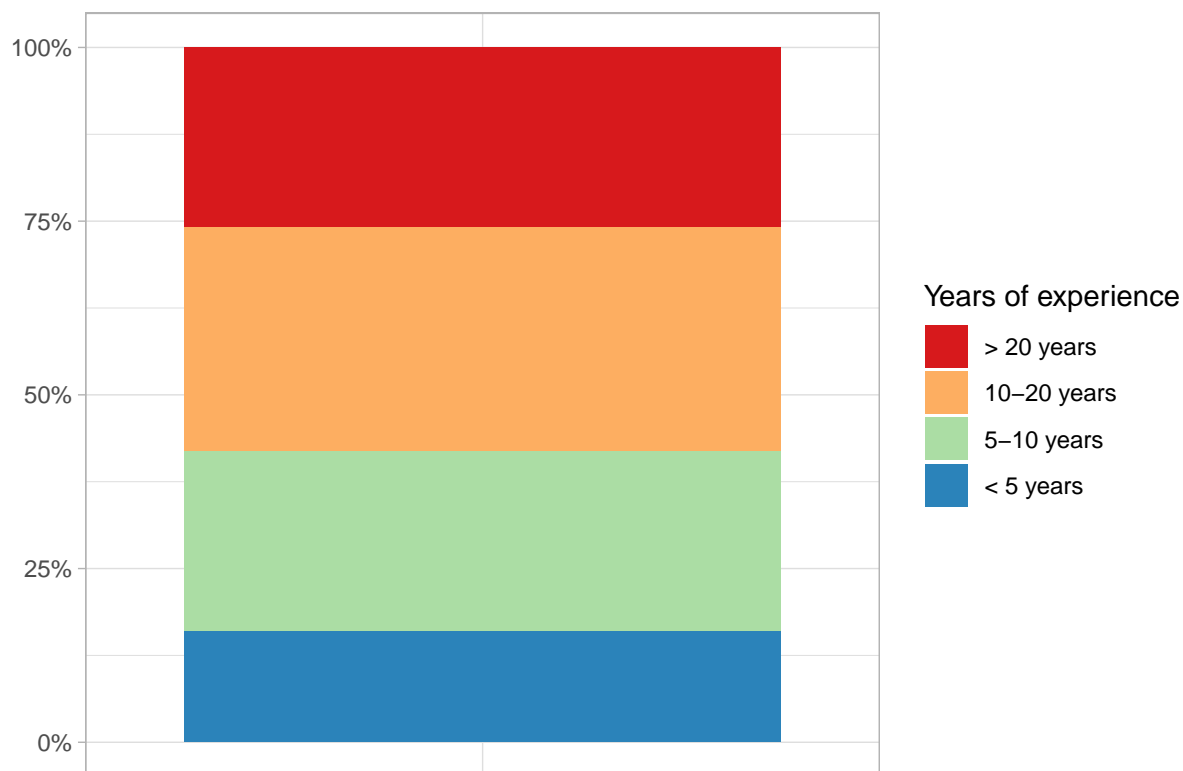
Project Chief and senior scientist at federal government agency
 Retired educator
 Retired researcher/professor
 staff science technician
 Librarian (scholarly communications)
 Research support
 Biostatistician
 Open Access Programme Manager
 Research engineer in DM
 Project Manager
 GBIF National Node Administrator
 open access/open science advisor
 Librarian



Experience in the field

G05Q16: How long have you been working in your field?

Experience in the field	n
> 20 years	29
10-20 years	36
5-10 years	29
< 5 years	18
NA	1

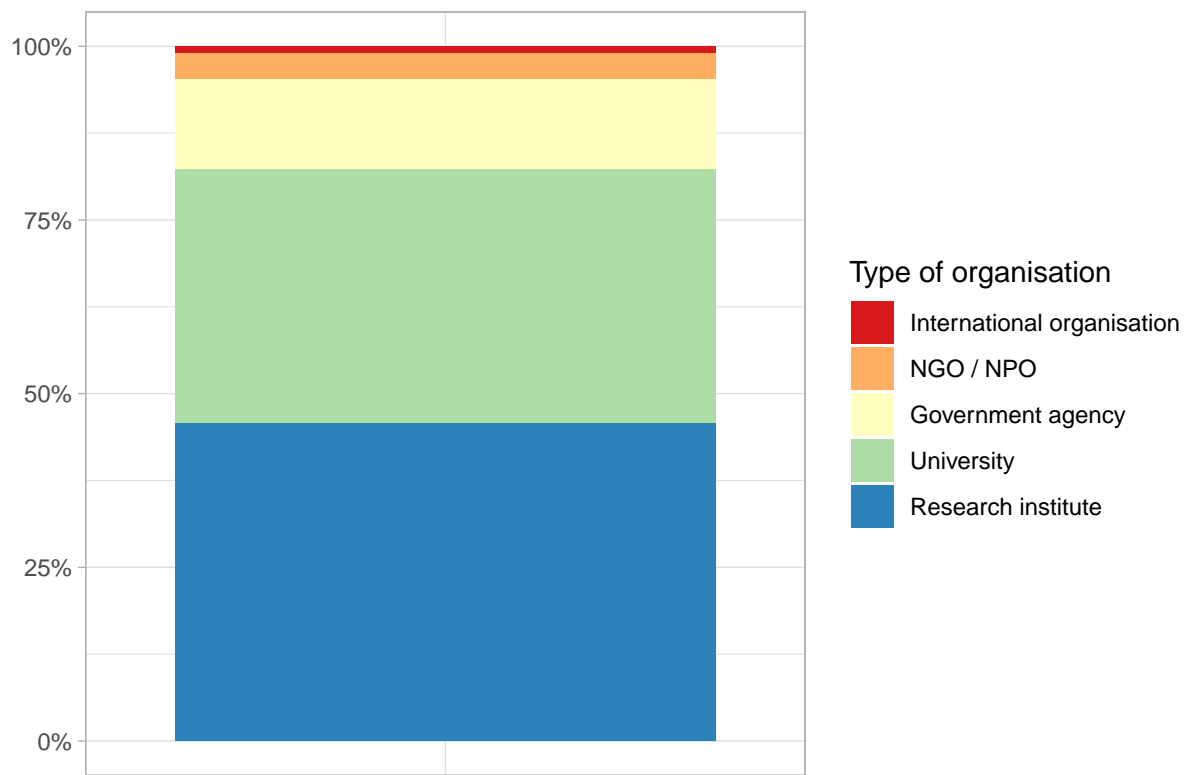


Affiliation type of organisation

G05Q14: Please select the type of organisation you are primarily affiliated with

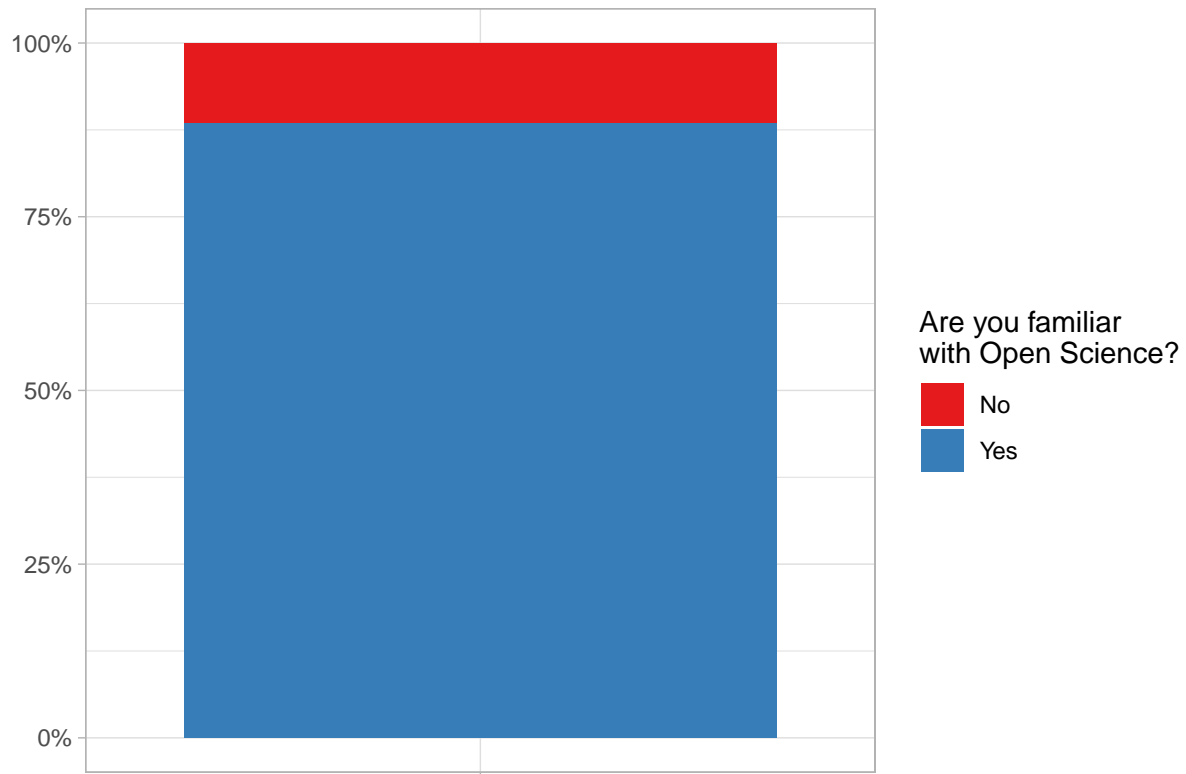
Type of organisation	n
Government agency	14
International organisation	1
NGO / NPO	4
Other, please specify	6
Research institute	49
University	39

Other types of organisations
European research infrastructure (ERIC)
Family
Small business
Private company
Hospital
International organism



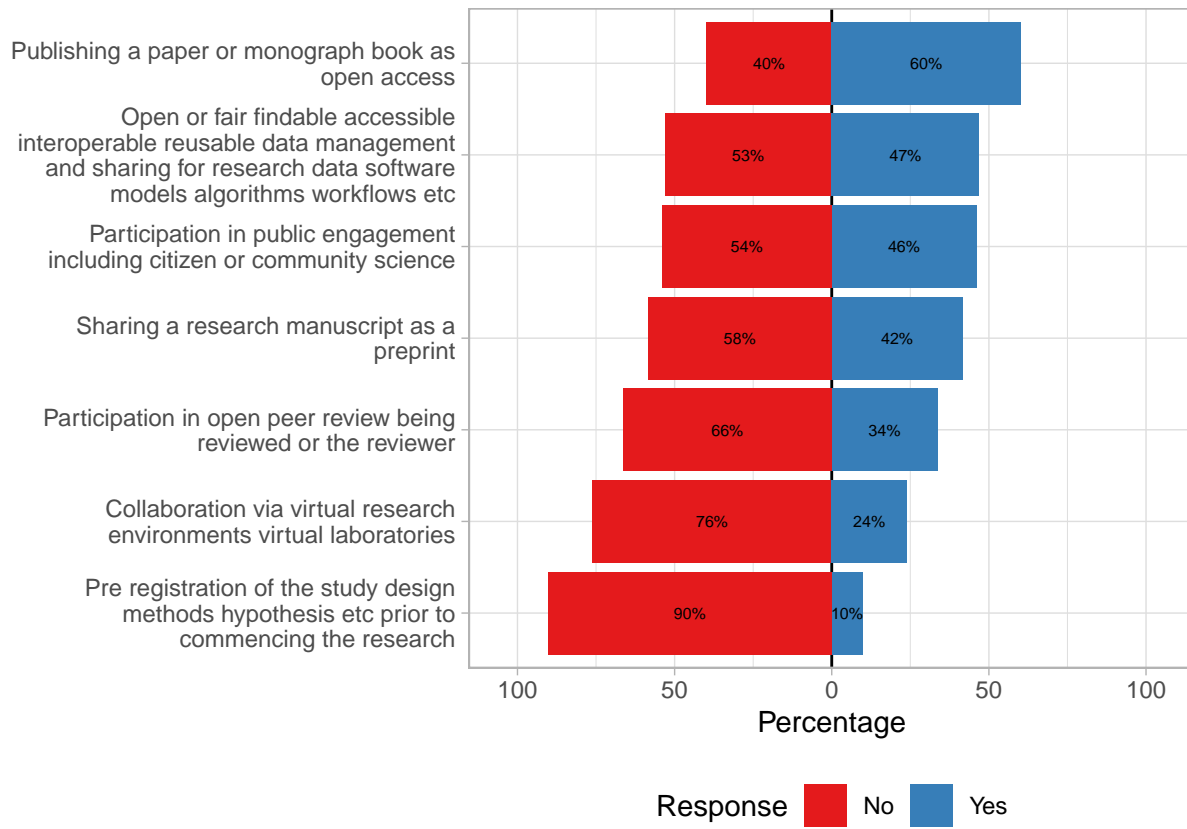
Disciplinary fields

G05Q19: What are your main disciplinary fields (up to 3; e.g., computer science, physics, biology, medicine)?



1.2. Are you involved in some of the following Open Science activities (G01Q03)

Item	No	Yes
Sharing a research manuscript as a preprint	58	41.6
Publishing a paper or monograph book as open access	40	60.2
Pre registration of the study design methods hypothesis etc prior to commencing the research	90	9.7
Open or fair findable accessible interoperable reusable data management and sharing for research data software models algorithms workflows etc	53	46.9
Participation in open peer review being reviewed or the reviewer	66	33.6
Participation in public engagement including citizen or community science	54	46.0
Collaboration via virtual research environments virtual laboratories	76	23.9



Other Open Science activities

Research on development of Open Science policy

The Biodiversity Heritage Library

I collaborate with faculty and labs at my university to build best practices around PID implementations, and data sharing. I sponsor software development and evaluate SaaS offerings for methods sharing.

I teach FAIR and Open Science as part of an introductory course on research data management for science department graduate students at my university

Publishing research Open data on repositories

Editorial board of a Diamond Open Access journal; moderator for a preprint server

development of standardised reporting formats for specialist data types

Open access publishing of raw data (values in tables, shapefiles, etc.) as part of supplemental files.

RDA, NASA TOPS

Promotion of OA Transformative Agreements

Introducing the Open Science concept, policy establishment, public lectures, business promotion

Open development of analysis code and software projects

Maintain of a digital library of PhD dissertations (which are published under CC licence)

proposing a DMP model to specific communities in Life Sciences

I coordinate a national system of open repositories of S&T publications

construction, use and exchange of shapefiles and their associated databases for GIS (Geographic Information Systems) analysis

Promotion in Research Programme

Open metrics/accountable metrics management

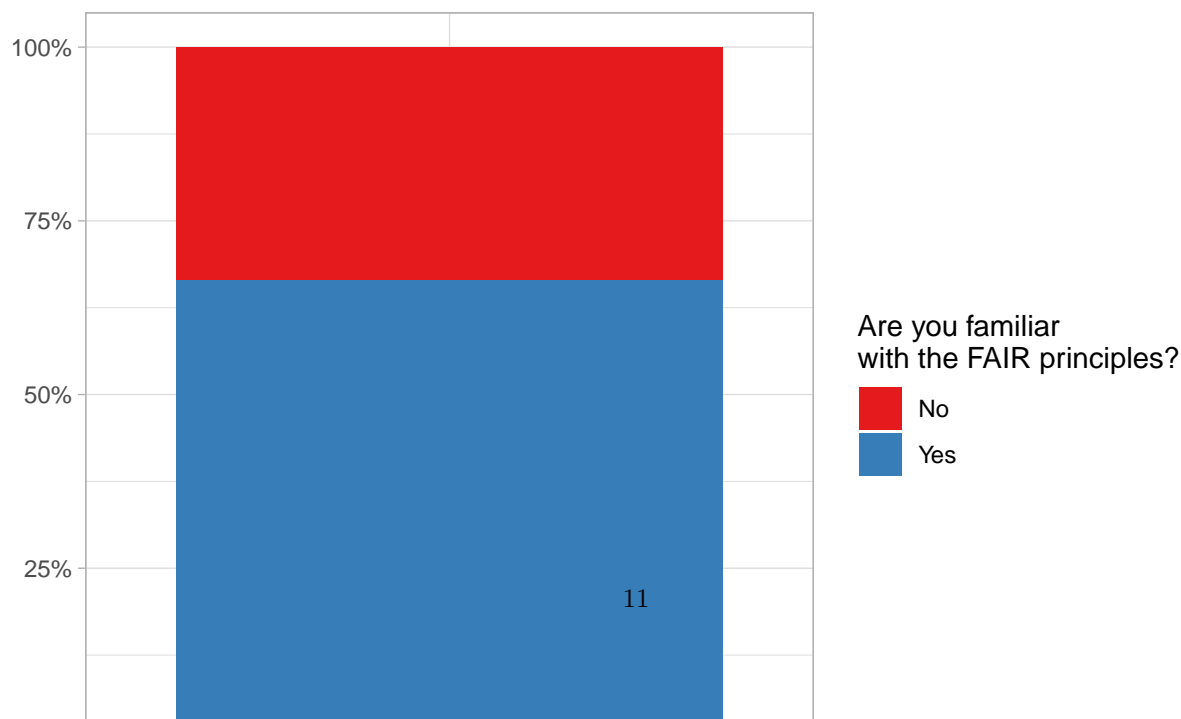
Ministry of Science, Argentina: I am a member of the advisory committee on open science.

Institutional guidance on open science in the position of Head of Research

Responses	n
No	38
Yes	75

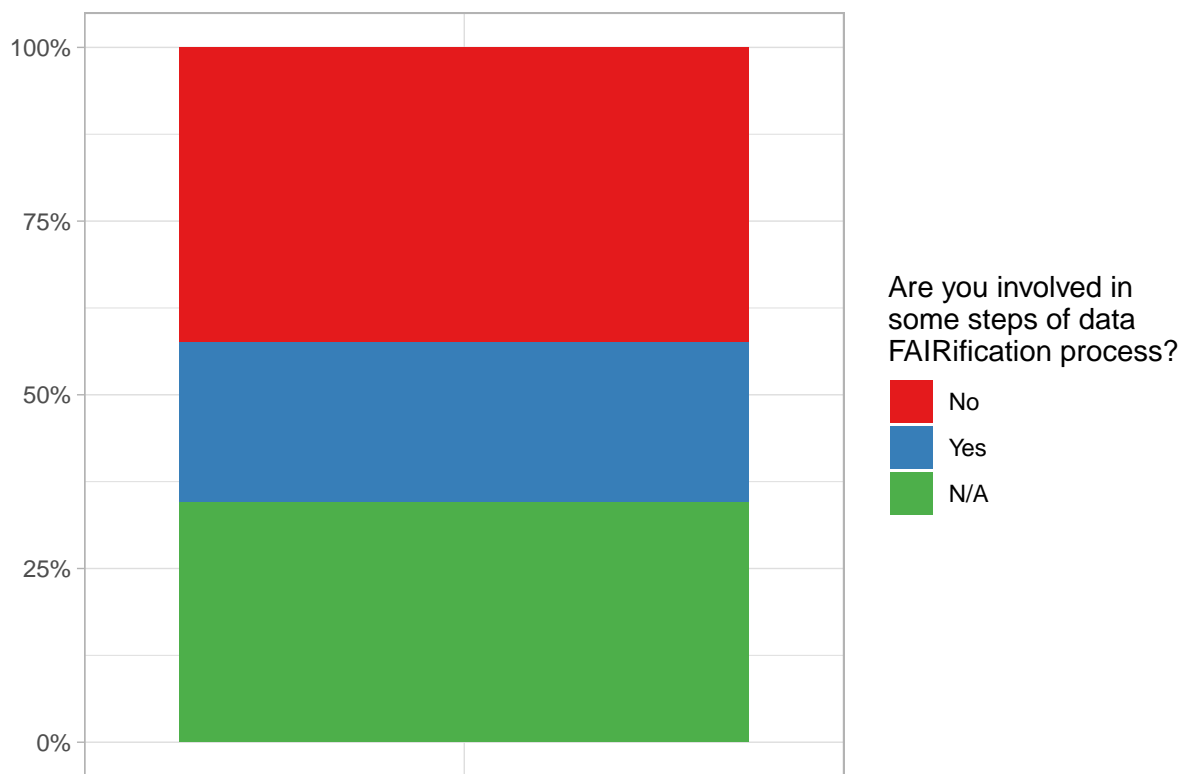
1.3. Are you involved in any other Open Science activities that you would like to mention? If yes, please specify. (G02Q04)

1.4. Are you familiar with the FAIR (Findable, Accessible, Interoperable, and Reusable) principles? (G00Q05)



1.5. Are you involved in some steps of data FAIRification process? (G00Q06)

Responses	n
N/A	39
No	48
Yes	26



1.6. Specify which ones? (G00Q07)

Which steps of data FAIRification process
All steps
Geological resource data
We are currently working on depositing our data with scholarly data repositories: Dataverse, Figshare – Also actively pursuing conversion of legacy data to five-star linked open formats for further dissemination on the semantic web.
all
steps 1-7 in the figure
working to make data accessible and findable
opening up research data
International cooperation in the Human Proteome Project's data sharing program
All processes, transforming research data to FAIR data to publish in institutional repositories
Employer requires data releases prior to publication of associated papers, regardless of whether the publication requires the data release.
ALL
Retrieve non-FAIR data, Analyse the retrieved data, Make data linkable, Define metadata for the dataset

Making metadata searchable and understandable.

All

I work at the data archive, so most of the FAIRification activities related to curating data are relevant.

1-7

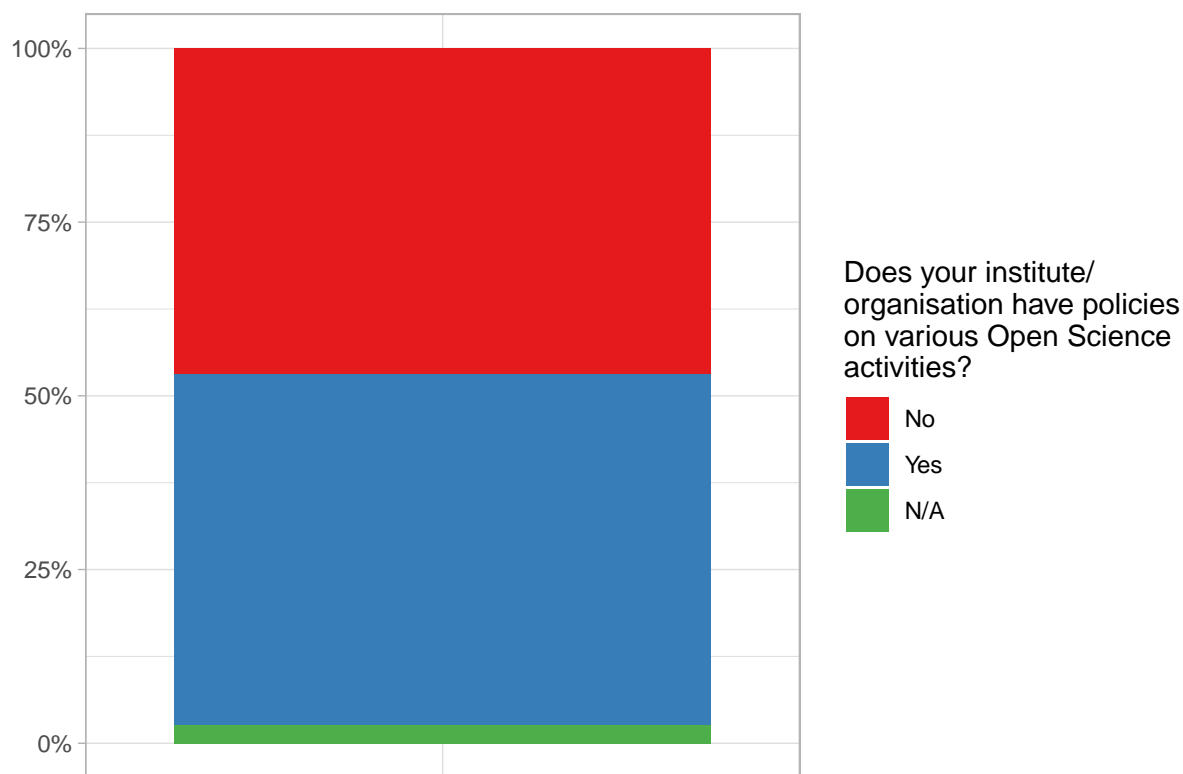
All of them, but particularly interoperability and reuse.

Publication of primary biodiversity data on the Global Biodiversity Information Facility (GBIF) portal.

Retrieve non-FAIR data Analyse the retrieved data

1.7. Does your institute/organisation have policies on various Open Science activities? (G01Q11)

Responses	n
N/A	3
No	53
Yes	57



1.8. Could you please specify briefly what kind of policy and provide a link to any relevant one, if possible? (G01Q12)

Responses

Contribution to IDW

KISTI OA policy: <https://repository.kisti.re.kr/open-access>

KISTI OA policy (URL: <https://repository.kisti.re.kr/open-access>)

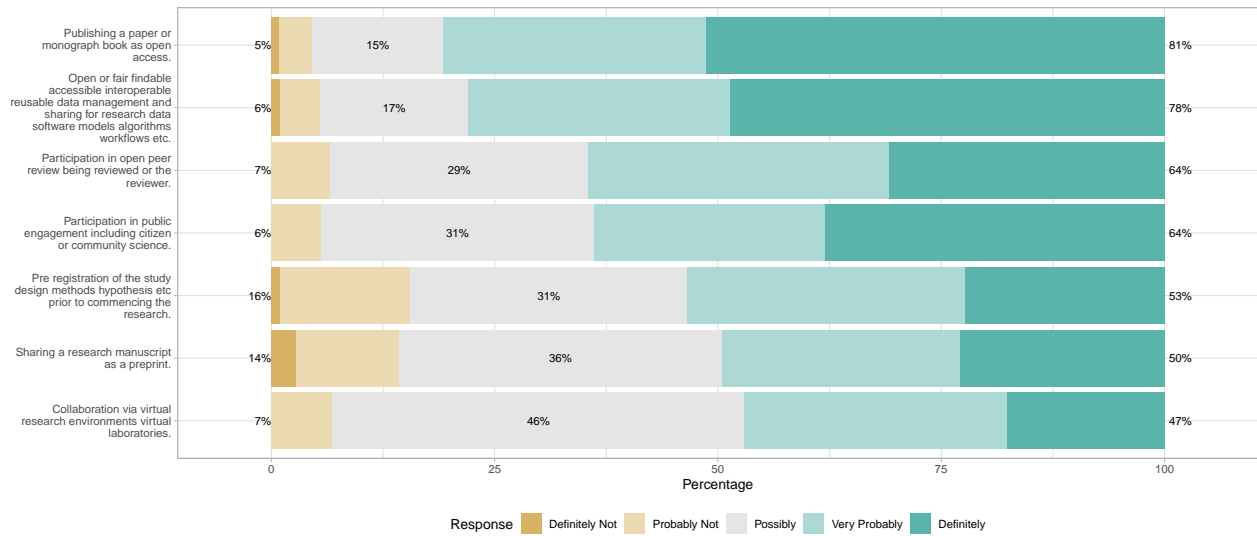
<https://www.cnrs.fr/fr/cnrsinfo/science-ouverte>

Research on Open Science legislation has been conducted at the Research Data Sharing Center

2.1. Could you please specify to what extent you feel the following activities should be credited / rewarded? (G02Q07)

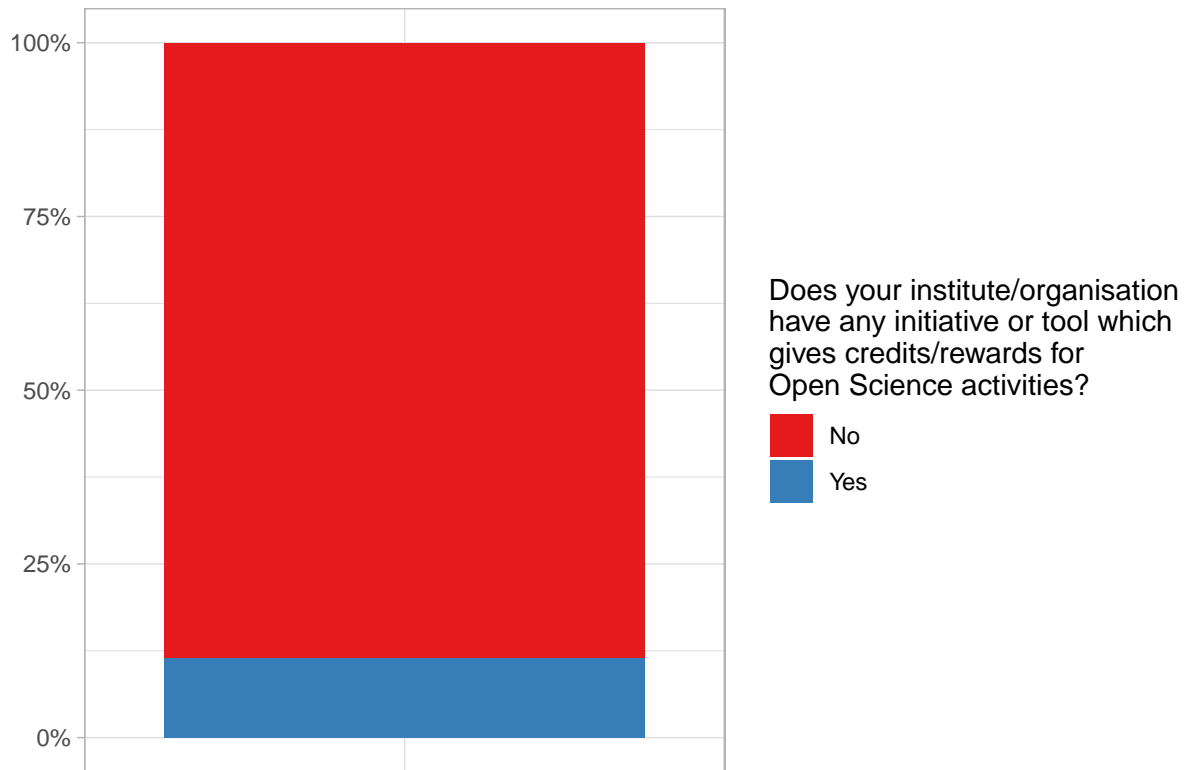
Rewards may include career promotion, grants/funding/prizes, gained credits in a research evaluation procedure, authorship/ contributorship, increased academic visibility.

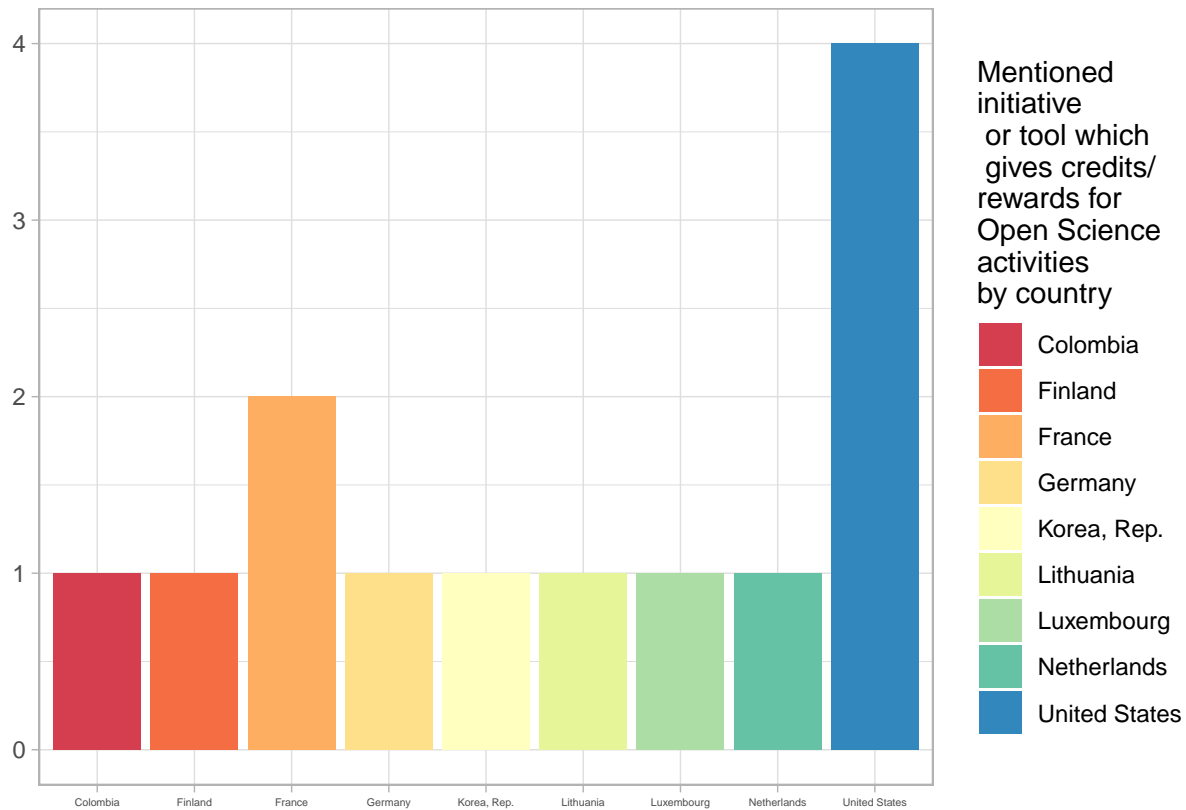
Item	Definitely Not	Probably Not	Possibly	Very Probably	Definitely
Sharing a research manuscript as a preprint.	2.86	11.4	36	27	23
Publishing a paper or monograph book as open access.	0.92	3.7	15	29	51
Pre registration of the study design methods hypothesis etc prior to commencing the research.	0.97	14.6	31	31	22
Open or fair findable accessible interoperable reusable data management and sharing for research data software models algorithms workflows etc.	0.92	4.6	17	29	49
Participation in open peer review being reviewed or the reviewer.	0.00	6.5	29	34	31
Participation in public engagement including citizen or community science.	0.00	5.6	31	26	38
Collaboration via virtual research environments virtual laboratories.	0.00	6.9	46	29	18



3.1. Does your institute/organisation have any initiative or tool which gives credits/rewards for Open Science activities? (G03Q08)

Responses	n
No	100
Yes	13





3.2. You're welcome to point here to any document/link/contact to know more about it (G03Q18)

Responses

Our library participates in an OA Transformative Agreement and can be exempted from APC for submitting papers to the relevant journals included in the activity report of researchers ; only publication indicated in the institutional open repository (HAL) can be taken into account in the evaluation

funding oceanographic research for open data

Minor recognition through individual year end achievement reports.

Utrecht University open science initiative

I just heard that they reward financially somehow...

Open Science award, a mild reward

I believe this is work in progress: ie, there are working groups tackling this issue since 6 months or so.

I do not approve of awards for fulfilling activities, they distort the emphasis and sincere intentions. However, I believe in and fully support the development of Open Science. The community that works with GIS (Geographic Information System) tools has been defending and promoting it for a long time, and finally it has even managed to get governments to implement it for the most part by implementing digital mapping of different topics. At the beginning it was an ethical movement, and that is why it was imposed.
