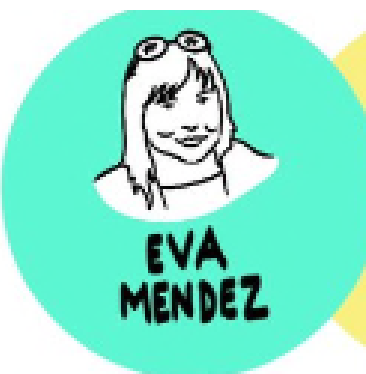




# RESEARCH ASSESSMENT REFORM, OPEN SCIENCE AND RRI

07/11/2024



@evamen

Open Science Lab

Universidad Carlos III de Madrid

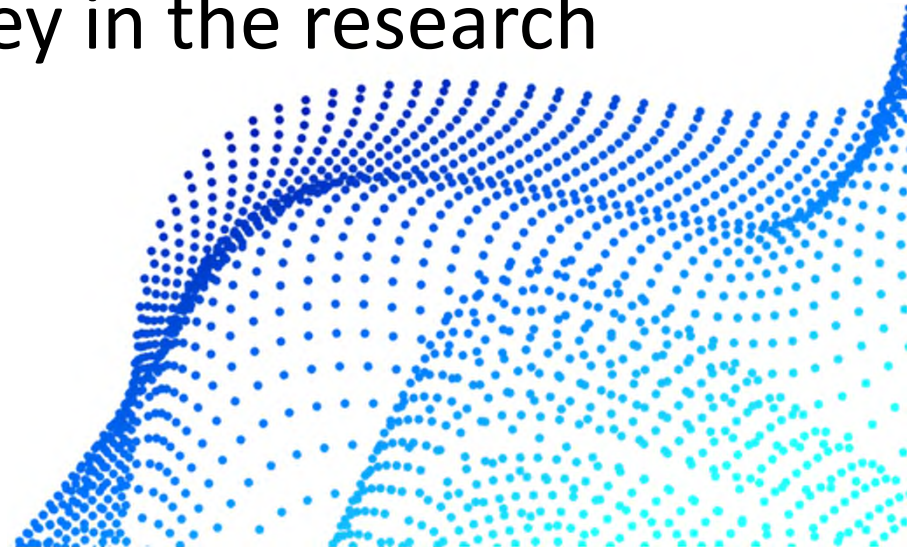
CoARA Steering Board member

Chair of OSPP (2018-2020)





- Where we started: The Naked Emperor
- From Open Science to CoARA
- **From CoARA to RRI**
- CoARA now... and the role of funders
- Some final thoughts for a (long) journey in the research assessment and RRI

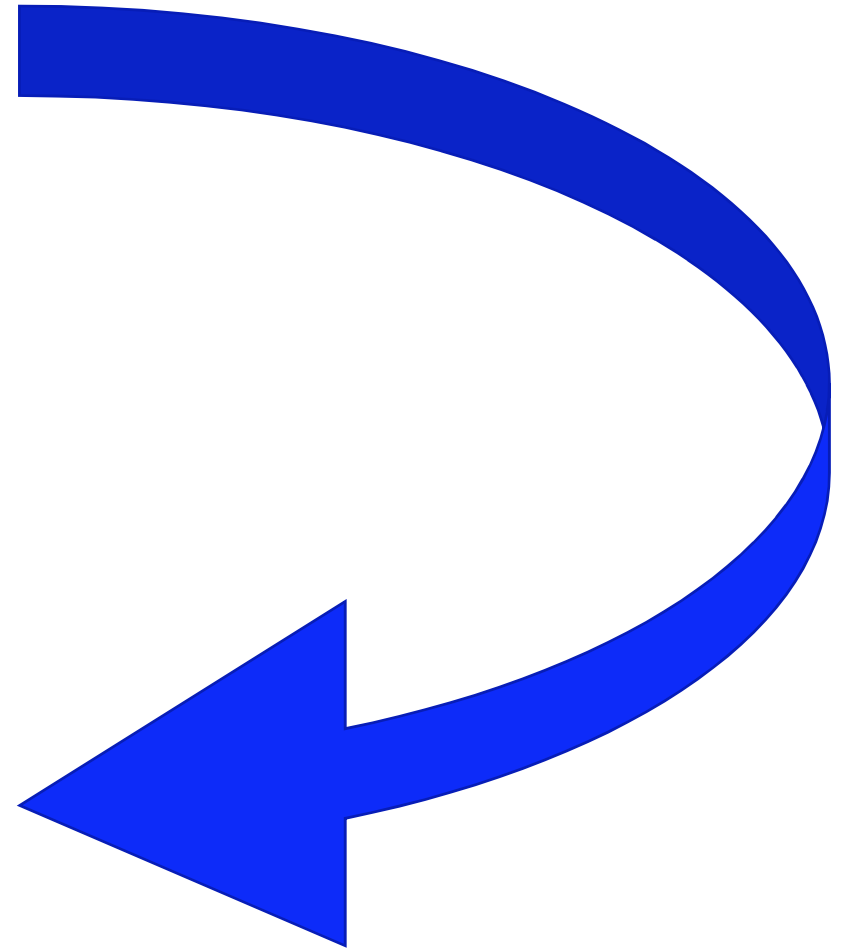
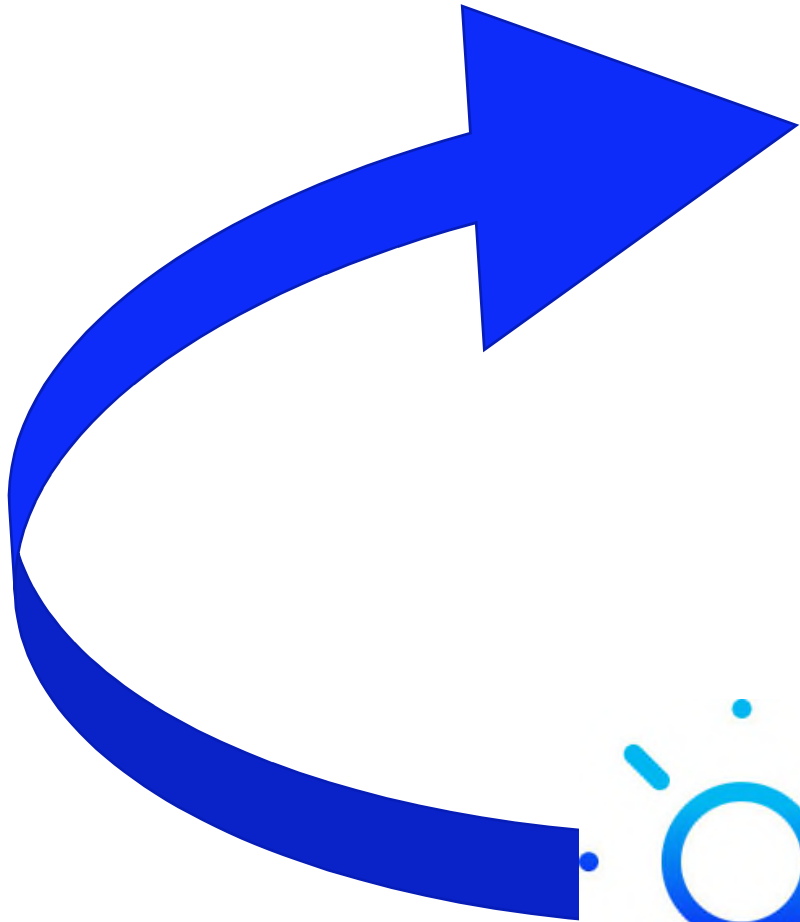




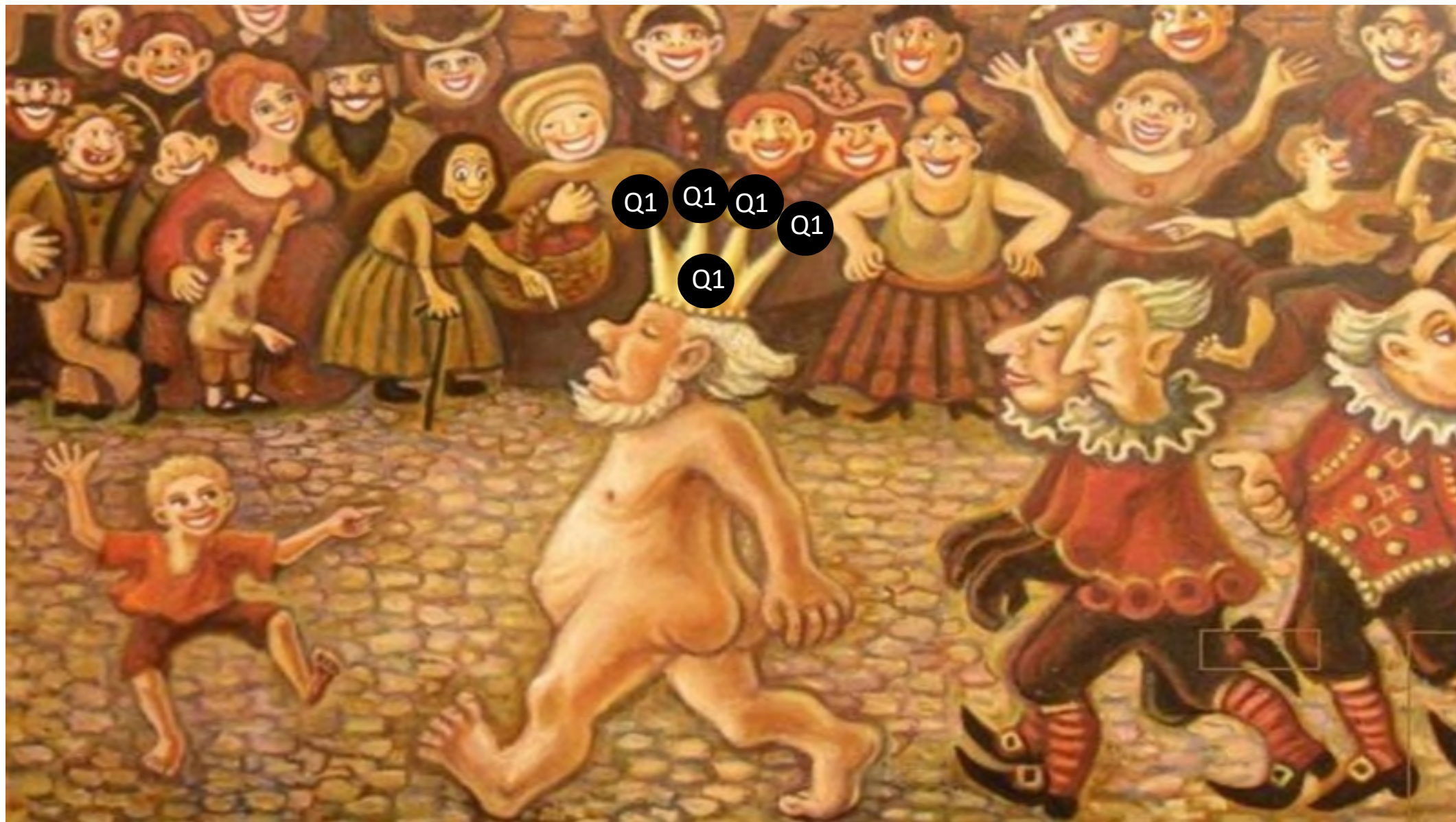
**Open Science  
for Everyone**



**CoARA**  
Coalition for Advancing  
Research Assessment

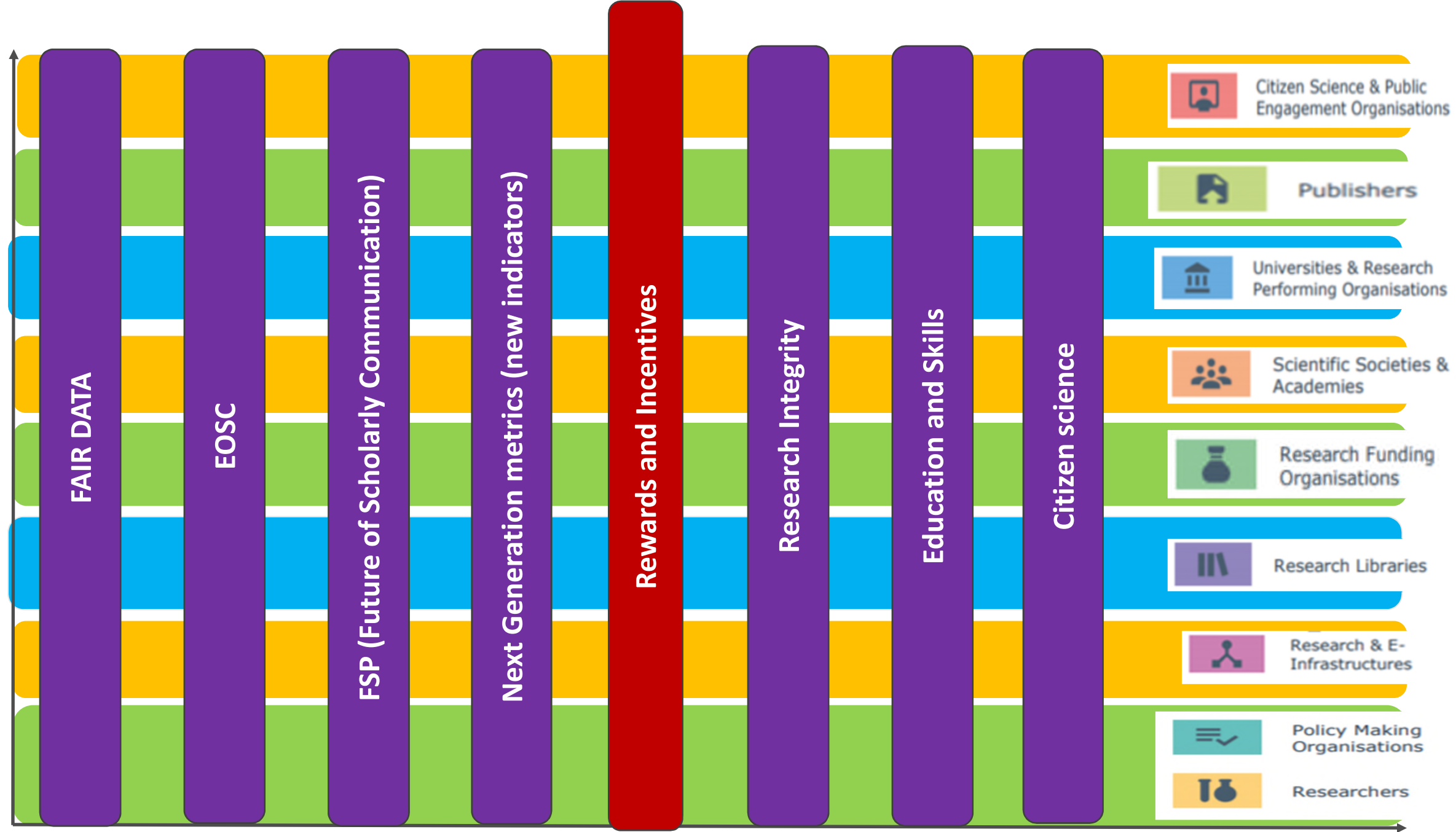


# **WHERE WE START: THE NAKED EMPEROR**



The emperor's new clothes. Hans Christian Andersen (1837)

Stakeholders / Actors of Open Science

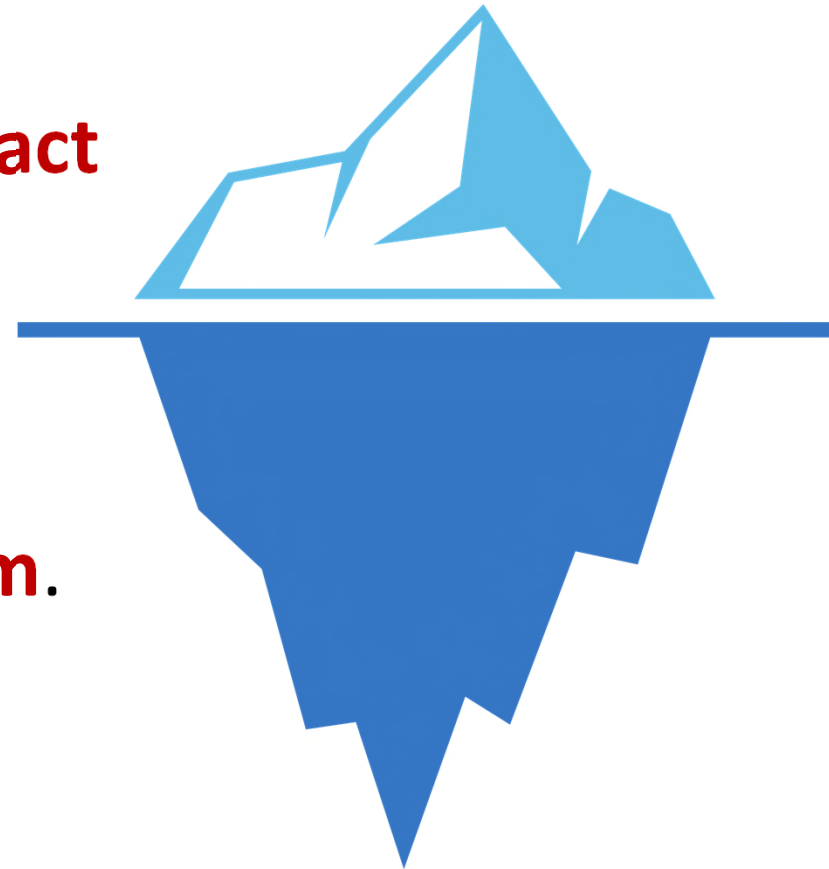


Open Science challenges / pillars in EUROPE

# An urgent need to reform existing ways of assessing research

Assessment processes relying predominantly on journal- and publication-based metrics **can be a hurdle to recognising diverse contributions** and may **negatively affect the quality and impact of research**.

They also contribute to an **unhealthy research culture** and an **unaffordable publication system**.



# Arabia Saudí paga a científicos españoles para hacer trampas en el 'ranking' de las mejores universidades del mundo

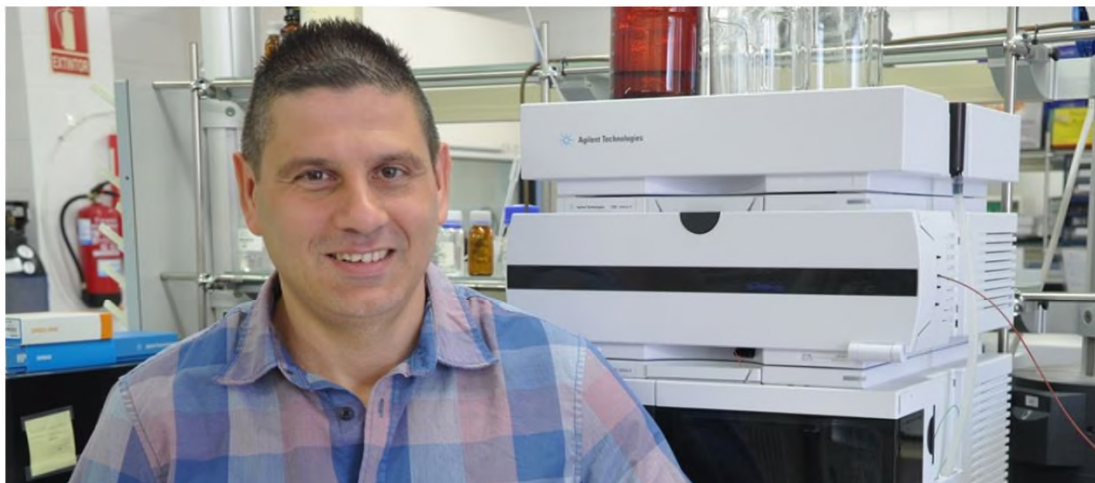
Más de una decena de investigadores en España declaran falsamente que su trabajo principal es en instituciones árabes para auparlas artificialmente en las clasificaciones académicas



ÉTICA CIENTÍFICA &gt;

## Un científico que publica un estudio cada dos días muestra el lado más oscuro de la ciencia

El investigador más prolífico de España, el experto en carne José Manuel Lorei firmó 176 trabajos el año pasado, exponiendo un submundo de turbias prácticas científicas



nature &gt; news &gt; article

NEWS | 11 December 2023

## Surge in number of 'extremely productive' authors concerns scientists

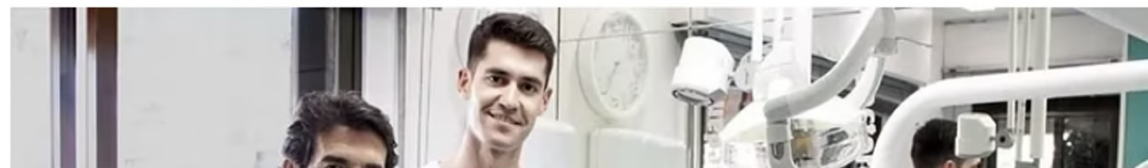
Some researchers publish a new paper every five days, on average. Data trackers suspect not all their manuscripts were produced through honest labour.

EL MUNDO

UNIVERSIDADES

## Así se infla una carrera académica: cómo firmar artículos científicos desde el Bachillerato gracias a unos padres catedráticos

Con 26 años, Manuel Toledano Osorio tiene 73 'papers' publicados en revistas de impacto, 71 con su familia. Antes de ir a la universidad ya figuraba en nueve



ÉTICA CIENTÍFICA &gt; | TRIBUNA ⓘ

## *Se nos pudre la ciencia*

Los casos revelados en este periódico no son más que la punta del iceberg de un sinfín de despropósitos que hacen que, poco a poco, se nos pudra el sistema científico, al calor de lo que parece un negocio redondo



Dos microbiólogos procesaban test de covid y de viruela del mono en agosto en Nashville (Tennessee). ANADOLU AGENCY (ANADOLU AGENCY VIA GETTY IMAGES)

**EVA MÉNDEZ**

20 abr 2023 - 05:20 | Actualizado: 24 ABR 2023 - 10:38 CEST



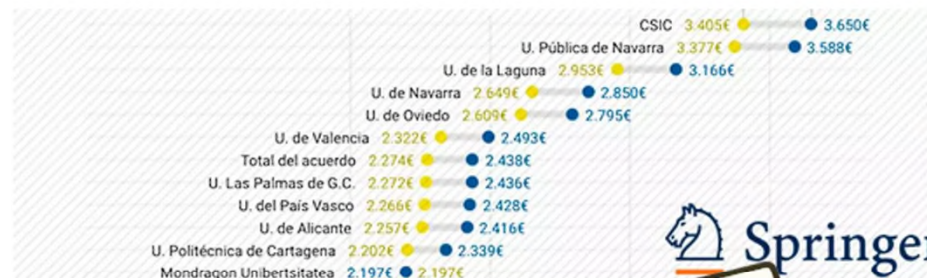
<https://elpais.com/ciencia/2023-04-20/se-nos-pudre-la-ciencia.html>

# Cuatro editoriales cobran 170 millones en cuatro años a las universidades españolas y el CSIC por leer y publicar artículos científicos

Los pactos firmados incluyen a Elsevier, Wiley, Springer y American Chemical Society, que publican aproximadamente la mitad de los trabajos de investigación en España cada año

— Consulta cuánto paga cada institución a Springer y a Wiley por el acceso a sus revistas

— Ni 'Science' ni 'Nature': los investigadores españoles dejan las revistas editoriales cuestionadas



Foco EDUCACIÓN

elDiario.es

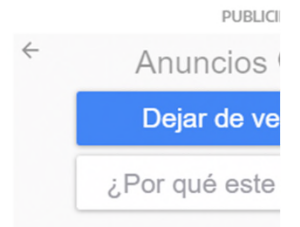
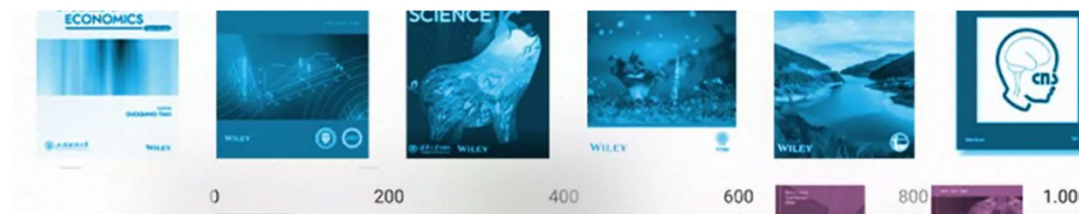
## Los 45 millones que las universidades pagan cada año a las editoriales científicas dejan fuera el 90% de los artículos

Los acuerdos incluyen un número limitado de textos a publicar cada año; escalar los pactos a toda la producción anual costaría 300 millones de euros más, calcula un catedrático

— Cuatro editoriales cobran 170 millones en cuatro años a las universidades españolas y el CSIC por leer y publicar artículos científicos



Foco EDUCACIÓN



# The Oligopoly's Shift to Open Access. How For-Profit Publishers Benefit from Article Processing Charges

Butler, Leigh-Ann; Matthias, Lisa; Simard, Marc-André; Mongeon, Philippe

This study aims to estimate the total amount of article processing charges (APCs) paid by authors to the oligopoly of academic publishing. Since the early 2010s, the peer-reviewed journal articles indexed in the Web of Science (WoS) have been dominated by a few large commercial publishers Elsevier, Sage, Springer, Taylor & Francis, and Wiley. While traditionally their business model focused on charging authors APCs, they have shifted to OA, charging authors fees for publishing. These APCs often amount to several thousand dollars, which is a significant barrier to publishing on economic grounds. This study computes an estimate of the total amount of APCs paid by authors to the oligopoly of academic publishers between 2015 and 2018, using publication data from WoS and APC data from open datasets and historical fees retrieved via the Internet Archive. The results show that the oligopoly of academic publishers received \$1.06 billion in APCs from authors in 2018. Of the 505,903 OA articles analyzed, 60.9% were published in gold OA journals.

November 03 2023

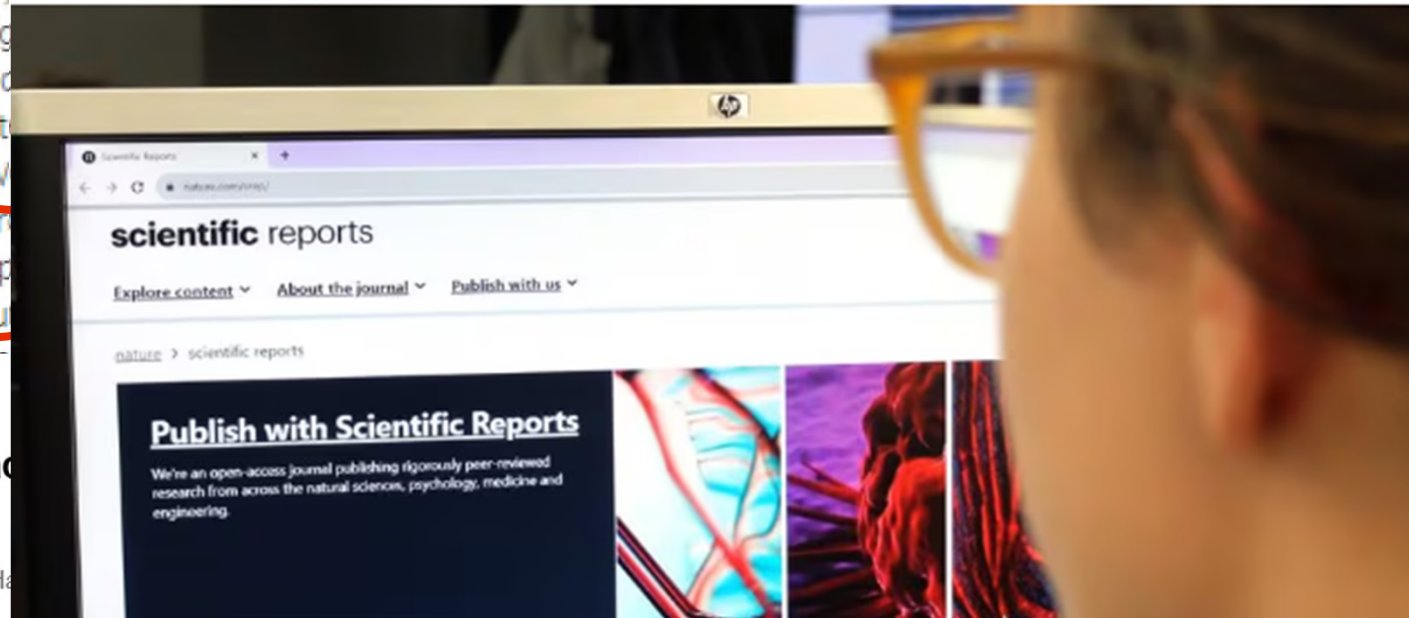
## The Oligopoly's Shift to Open Access. How the Big Five Academics Profit from Article Processing Charges

Leigh-Ann Butler, Lisa Matthias, Marc-André Simard, Philippe Mongeon, Stefanie Hees

ETICA CIENTIFICA >

### Los científicos pagaron unos 1.000 millones de euros en cuatro años a las grandes editoriales para publicar sus estudios en abierto

Un análisis revela que dos megarevistas académicas, 'Scientific Reports' y 'Nature Communications', acapararon los ingresos



[https://direct.mit.edu/qss/article/doi/10.1162/qss\\_a\\_00272/118070/The-Oligopoly-s-Shift-to-Open-Access-How-the-Big](https://direct.mit.edu/qss/article/doi/10.1162/qss_a_00272/118070/The-Oligopoly-s-Shift-to-Open-Access-How-the-Big)

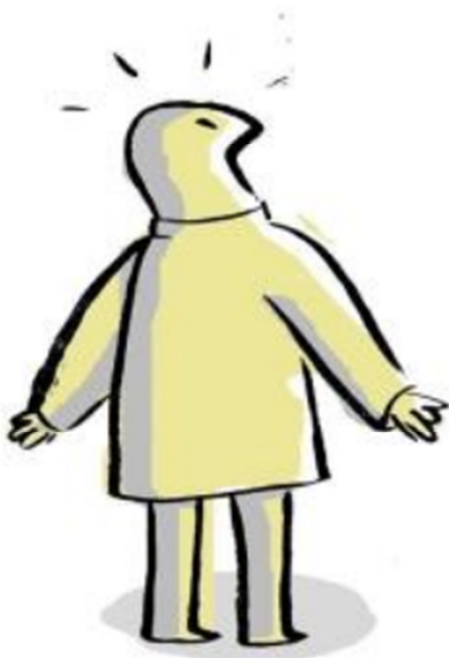


# THE EVOLUTION OF ACADEMIA

PUBLISH



PUBLISH  
OR  
PERISH



PUBLISH  
IN HIGH IMPACT  
JOURNALS  
OR  
PERISH



PUBLISH  
FREQUENTLY IN  
HIGH IMPACT  
JOURNALS  
AND  
MAYBE  
YOU WON'T  
PERISH



## Challenges in irreproducible research

Science moves forward by corroboration – when researchers verify others’ advances faster when people waste less time pursuing false leads. No research should be considered to be the final word, but there are too many that do not stand up to study.

There is growing alarm about results that cannot be reproduced. Explaining increased levels of scrutiny, complexity of experiments and statistics, and the role of researchers. Journals, scientists, institutions and funders all have a part in the problem of reproducibility. Nature has taken substantive steps to improve the transparency of research.

## nature ecology & evolution

## Evidence synthesis for tackling research waste

[Matthew J. Grainger](#) , [Friederike C. Bolam](#), [Gavin B. Stewart](#) & [Erlend B. Nilsen](#)

[Nature Ecology & Evolution](#) **4**, 495–497 (2020) | [Cite this article](#)

1659 Accesses | 19 Citations | 67 Altmetric | [Metrics](#)

**There is an immediate need for a change in research workflows so that pre-existing knowledge is better used in designing new research. A formal assessment of the accumulated knowledge prior to research approval would reduce the waste of already**

## Surge in number of ‘extremely productive’ authors concerns scientists

**Some researchers publish a new paper every five days, on average. Data trackers suspect not all their manuscripts were produced through honest labour.**



**FROM OPEN SCIENCE TO COARA**

*"We all agree that we need to change the way we measure Science, why we don't do it?"*



Introduction video Conference Open Science 4- 5 April **2016**, Dutch  
Presidency EU2016: <https://www.youtube.com/watch?v=C9a3Ap3yyak>

# 2020: OSPP FINAL REPORT



1. An academic career structure that fosters outputs, practices and behaviours to maximise contributions to a shared research knowledge system
2. A research system that is reliable, transparent and trustworthy
3. A research system that enables **innovation**
4. A research culture that facilitates **diversity** and equity of opportunity
5. A research system that is built on **evidence-based** policy and practice

## Progress on Open Science: Towards a Shared Research Knowledge System

Final Report of the Open Science Policy Platform

[https://ec.europa.eu/research/openscience/pdf/ec\\_rtd\\_ospp-final-report.pdf#view=fit&pagemode=none](https://ec.europa.eu/research/openscience/pdf/ec_rtd_ospp-final-report.pdf#view=fit&pagemode=none)

<http://tinyurl.com/scholcomm-charters>

+ 100 DECLARATIONS, RECOMMENDATIONS, ETC.

Charters and principles in scholarly communication

File Edit View Insert Format Data Tools Extensions Help

2002

1	Friendly URL: <a href="http://tinyurl.com/scholcomm-charters">http://tinyurl.com/scholcomm-charters</a>
2	
3	<a href="#">Journal of Brief Ideas paper proposal</a>
4	<a href="#">Force11 Scholarly Commons Working Group</a>



YEAR	NAME	URL	ASPECT	ORGANIZATION	AUTHORS/SIC
1964-2008	Helsinki Declaration	<a href="https://www.wma.net/policies-post/wr">https://www.wma.net/policies-post/wr</a>	other	World Medical Association	
1986	Free Software Definition	<a href="https://en.wikipedia.org/wiki/The_Fre">https://en.wikipedia.org/wiki/The_Fre</a>	code&software		Richard Stallm
1996	Bermuda principles	<a href="https://en.wikipedia.org/wiki/Bermuda">https://en.wikipedia.org/wiki/Bermuda</a>	data		multiple
1998	Open Source Definition	<a href="https://opensource.org/osd-annotate">https://opensource.org/osd-annotate</a>	code&software	Open Source Initiative	Bruce Perens
2002	Budapest Open Access Initiative	<a href="http://www.budapestopenaccessinitia">http://www.budapestopenaccessinitia</a>	open access		24
2003	Berlin Declaration	<a href="http://openaccess.mpg.de/Berlin-Dec">http://openaccess.mpg.de/Berlin-Dec</a>	open access		7 (? as acknow
2003	Bethesda Statement on Open Access Publishing	<a href="http://dash.harvard.edu/handle/1/472">http://dash.harvard.edu/handle/1/472</a>	open access		19 (? original s
2003	Fort Lauderdale data sharing gentleman's agreement	<a href="https://en.wikipedia.org/wiki/Fort_Lau">https://en.wikipedia.org/wiki/Fort_Lau</a>	data	Wellcome Trust	
2004	UPSIDE principles on data and materials	<a href="http://www.pnas.org/content/101/11/3">http://www.pnas.org/content/101/11/3</a>	data		
2005	OKF Open Definition	<a href="http://opendefinition.org/">http://opendefinition.org/</a>	openscience&multiple	OKF	no individuals
2005	Salvador Declaration on Open Access	<a href="http://www.iam19.org/meetings/open">http://www.iam19.org/meetings/open</a>	open access	International Seminar on O	

**OPEN  
SCIENCE  
REGISTRY**

Open, collaborative  
evidence informed

**RESEARCH  
ASSESSMENT  
RESOURCE**

**R**ESearch  
**A**SSessment  
**R**ESource / **E**GIstry



# SHARED (AND CONTINUOUS) DIRECTION ON THE REFORM OF RESEARCH ASSESSMENT



THE HONG KONG PRINCIPLES FOR ASSESSING RESEARCHERS	
FOSTERING RESEARCH INTEGRITY	
<p><b>What are the HKP?</b> The Hong Kong Principles (HKP) were developed as part of the 6th World Conference on Research Integrity. They were developed to reinforce the need to ensure that researchers are rewarded for specific behaviors that promote trustworthy research. The HKP have been developed with the idea that implementation of them could assist in how researchers are assessed for career advancement with a view to strengthen research integrity.</p>	
PRINCIPLE	IMPLEMENTATION EXAMPLES
1. Assess responsible research practices	The NIH recommends Experimental Design Assessments (EDA) developed by NCI/NIH. This IC module to line help researchers prepare the design and execution executed by their applicants.
2. Value complete research	University of Toronto's Open Research (OR) is a novel online system to track the progress of research projects. It provides a platform for researchers to share their progress and complete studies (e.g., articles, theses) and receive feedback from their peers. It also provides a platform for researchers to share their progress and complete studies (e.g., articles, theses) and receive feedback from their peers.
3. Toward the practice of open access	The University of Cambridge has introduced the 'open access' (OA) version of its research. It has introduced the implementation of OA as a core assessment criterion. The National Technical University (NTU), Singapore, implemented an Open Access policy in 2011. It is the largest of academic institutions as conducted by research institutions.
4. Acknowledge a broad range of research activities	The Berlin-Lank Open Access for Scientific Research is a platform for researchers to share their research activities. It provides a platform for researchers to share their research activities and receive feedback from their peers.
5. Recognize essential roles in the field of research and teaching	The University of Cambridge has introduced the 'open access' (OA) version of its research. It has introduced the implementation of OA as a core assessment criterion. The National Technical University (NTU), Singapore, implemented an Open Access policy in 2011. It is the largest of academic institutions as conducted by research institutions.

- ✓ Various frameworks/initiatives/declarations
- ✓ Plan for unintended consequences and/or effects of indicators
- ✓ Don't create incentives only for superficial or symbolic changes
- ✓ Adapt the set of indicators to the field, project, type, or entity being measured

## BARCELONA DECLARATION ON OPEN RESEARCH INFORMATION

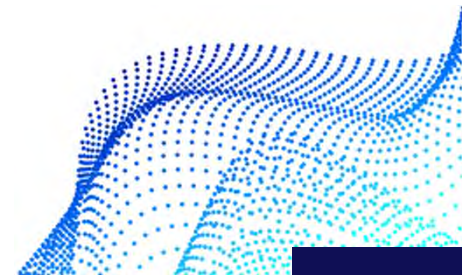
LAUNCHING APRIL 16, 2024

The preparation of the Declaration is being coordinated by Bianca Kramer (Sesame Open Science), Cameron Neylon (Curtin Open Knowledge Initiative, Curtin University), and Ludo Waltman (Centre for Science and Technology Studies, Leiden University). Organizations that would like to know more about the Declaration or that wish to sign the Declaration are welcome to reach out to [contact@barcelona-declaration.org](mailto:contact@barcelona-declaration.org).

# A SHARED DIRECTION TO THE REFORM OF RESEARCH ASSESSMENT

An **AGREEMENT** + A **COMMUNITY (coalition)**

- The **Agreement** establishes a **common direction for research assessment reform** while respecting organisations' autonomy. It is based on **shared principles, 10 commitments, and a timeframe** (1 & 5 years) for reforms.
- The **Coalition** fosters collaboration and credibility, **exchanging practices** and **communicating progress** (WG, NChapters, action plans)





## 4 CORE COMMITMENTS

1. Recognise the **diversity of contributions** to, and careers in, research, in accordance with the needs and the nature of the research
2. Base research assessment primarily on **qualitative evaluation for which peer-review is central**, supported by responsible use of quantitative indicators
3. Abandon the inappropriate uses of **journal- and publication-based metrics**, in particular the inappropriate uses of JIF and h-index
4. Avoid the use of **rankings of RPOs** in research assessment

# 6 SUPPORTING COMMITMENTS



1. **Commit resources** to reforming research assessment as is needed to achieve the organisational changes committed to
2. **Review and develop** research assessment criteria, tools and processes
3. **Raise awareness** of research assessment reform and provide transparent communication, guidance, and training on assessment criteria and processes.
4. Exchange practices and experiences → **mutual learning** (@CoARA and beyond)
5. **Communicate progress** made on adherence to the Principles and implementation of the Commitments
6. **Evaluate** practices, criteria and tools **based on solid evidence** and the state-of-the-art in research on research, and **make data openly available** for evidence gathering and research

# Open science in research assessment (indicator)



**CHANGE IT... do it together!! (RPO and RFO)**

**Quantitative measures are not FAIRer. BIAS on damaging female careers.**

**From work PRESSURE... to work PLEASURE**

**Front runners in Open Science should be REWARDED!!**

**Open Science** behaviour as an Evaluation criteria (Changing behaviour)

**Our researchers have to be competitive outside the Netherlands**

# Open science in research assessment (indicator)

**Next-generation metrics:**  
Responsible metrics and evaluation for open science



Mutual Learning Exercise  
**Open Science:  
Altmetrics and  
Rewards**

Horizon 2020 Policy Support Facility



## Evaluation of Research Careers fully acknowledging Open Science Practices

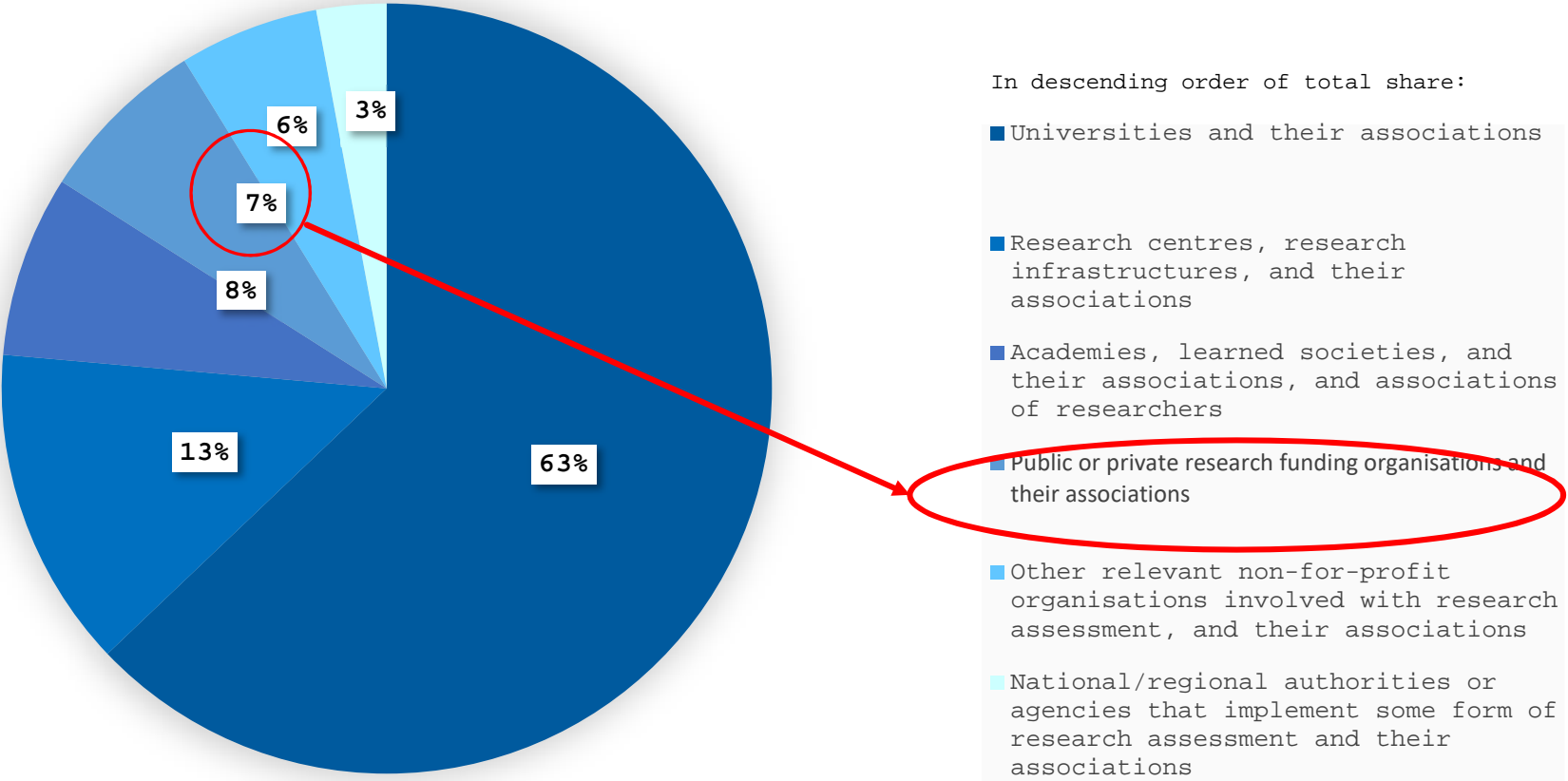
Rewards, incentives and/or recognition for researchers practicing Open Science

# Responsible, Research Assessment

Open Science Career Assessment Matrix (OS-CAM)		Possible evaluation criteria
Participating in public engagement activities		
Translating research results through non-academic channels		
Being knowledgeable on the legal and ethical issues		
Transferring IP to the wider economy		
Evidence of use of research by societal groups		
Recognition from societal groups or for societal activities		
Engaging in open innovation with partners beyond academia		
Training other researchers in open science principles and methods		
Developing curricula and programs in open science methods		
Raising awareness and understanding in open science in university and masters' programs		
Mentoring and encouraging early stage researchers		
Supporting early stage researchers		
Investing in own professional capabilities		
Successfully delivering research teams		
Demonstrating the potential of open science		
Engaging the flexibility of open science		
Actively engaging society and research users in the research process		
Sharing provisional research results with stakeholders through platforms (e.g. Arxiv, Figshare)		
Involving stakeholders in peer review processes		
Widening participation in research through open collaborative projects		
Engaging in team science through diverse cross-disciplinary teams		
Being aware of the ethical and legal issues relating to data sharing, confidentiality, attribution and environmental impact of open science activities		
Fully recognizing the contribution of others in research projects including collaborators, co-authors, citizens, open data providers		
Taking account of the risks involved in open science		
Developing a vision and strategy on how to integrate OS practices in the normal practice of doing research		
Defining policy and practice in open science		
Establishing a role model in practicing open science		
Building an international or national profile for open science activities		
Acting as editor or advisor for open science journals or bodies		
Engaging in open peer review processes		
Engaging in open research		

# **COARA NOW AND THE ROLE OF FUNDERS**

# CoARA MEMBERSHIP BY TYPE OF ORGANISATION



**683 member organisations**

**778 signatories**

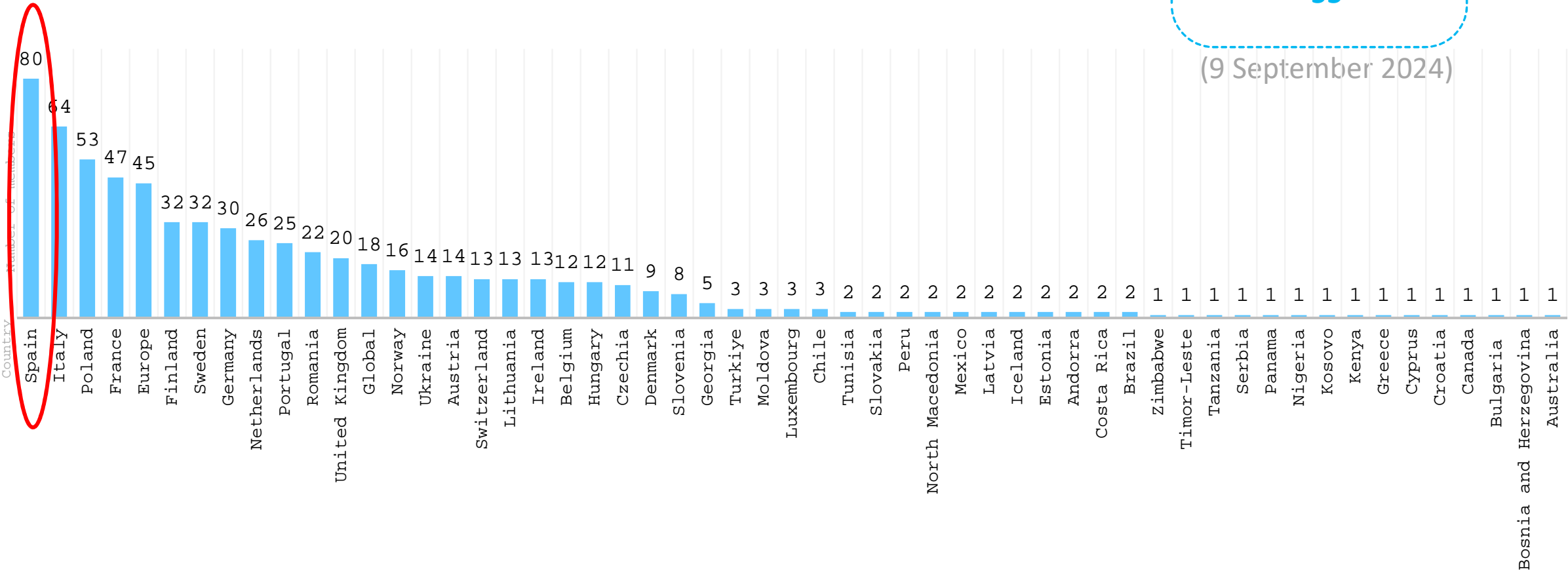
[ 9 September 2024 ]

# CoARA MEMBERSHIP BY COUNTRY

Membership total:  
**683**

# of countries\*:  
**55**

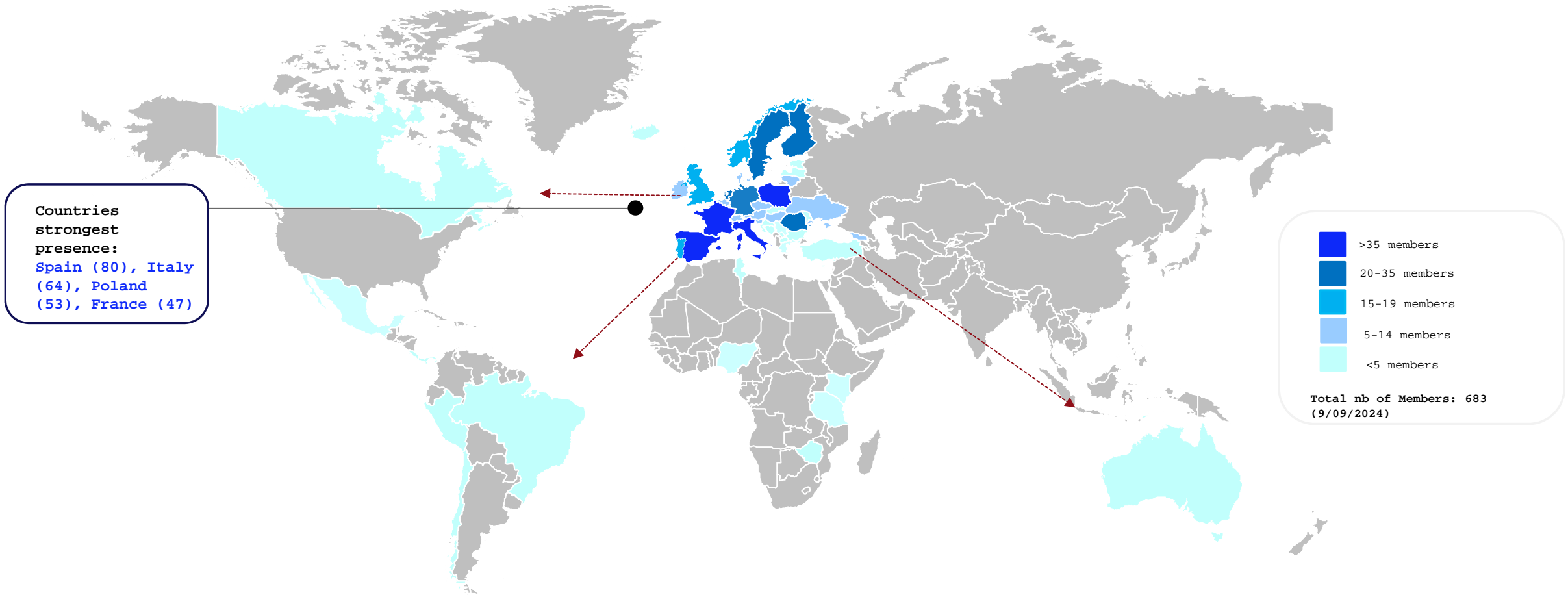
(9 September 2024)



\*excl. pan-European and global organisations

# CoARA membership 9 September 2024

## International outreach goals



# PUBLIC AND PRIVATE RESEARCH FUNDING ORGANIZATION (**47 MEMBERS**)

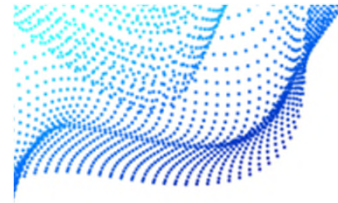
- EU Commission
- All funders from EU countries + EU Commission
  - **5** (Denmark, Sweden), **3** (Spain, Netherlands, France, Ireland, **2** (Austria, UK), 1 (Belgium, Czechia Estonia, Finland, Germany, Iceland, Lithuania, Luxembourg, Norway, Poland, Portugal, Romania, Slovenia, Switzerland, Ukraine)
- + Science Europe, cOAlitionS, COST association
- **3 Spanish funding organisations:**
  - Aragonese Foundation for Research & Development (ARAID)
  - **Institute of Health Carlos III**
  - Seneca Foundation - Science and Technology Agency of the Region of Murcia

# ACTION PLANS



[https://zenodo.org/communities/coara\\_action\\_plans](https://zenodo.org/communities/coara_action_plans)

126 action plans



Action Plan Guidelines



**CoARA**  
Coalition for Advancing Research Assessment

**Action Plan**

**And... Action!**

**All CoARA Agreement on Reforming Research Assessment signatories**

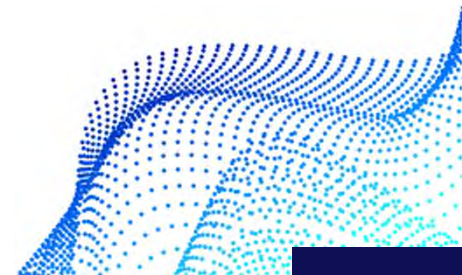
- > agree to develop an Action Plan how CoARA core commitments will be implemented in their own organisations & share the Action Plan with community!
- > While having the full freedom in the development of an own Action Plan, we hope the supportive documentation on the website available for download will help you in tailoring to your needs:

<https://coara.eu/agreement/action-plan/>

## SUPPORT FOR CoARA SIGNATORIES IN THE PREPARATION OF ACTION PLANS

This document is a resource to support signatories of the Agreement on Reforming Research Assessment and members of the Coalition for Advancing Research Assessment (CoARA) in preparing an action plan towards achieving the commitments they have signed up to.

<https://coara.eu/news/guidelines-for-action-plan-preparations-published>



# ACTION PLANS IN SPAIN

<https://zenodo.org/records/13948117>



Coalition for Advancing Research Assessment - Action plans from signatories and members

Published October 17, 2024 | Version v1

Publication

Open

## Biogipuzkoa Health Research Institute - CoARA Action Plan 2024-2027

Biogipuzkoa Health Research Institute - Biogipuzkoa HRI

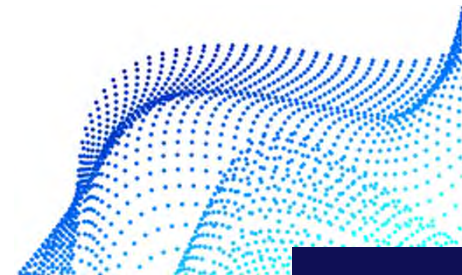
CoARA Action Plan for Biogipuzkoa Health Research Institute  
2024-2027



Plan de Acción para el alineamiento con los fines de la *Coalition for the advancement of research assessment*.

<b>Código:</b>	
<b>Título:</b>	Plan de Acción para el alineamiento con los fines de la <i>Coalition for the advancement of research assessment</i> 2024-2029.
<b>Edición:</b>	01
<b>Fecha entrada en vigor:</b>	26/9/2024
<b>Elaborado por:</b>	Plataforma de Internacionalización
<b>Revisado por:</b>	Unidad Técnica de la FIBHULP
<b>Validado por:</b>	Comisión de Calidad del IdiPAZ
<b>Aprobado por:</b>	Comisión Delegada del IdiPAZ

[https://www.idipaz.es/ficheros/files/Plan%20de%20Acci%C3%B3n%20CoARA\\_FIBHULP\\_FINAL%20\(1\).pdf](https://www.idipaz.es/ficheros/files/Plan%20de%20Acci%C3%B3n%20CoARA_FIBHULP_FINAL%20(1).pdf)





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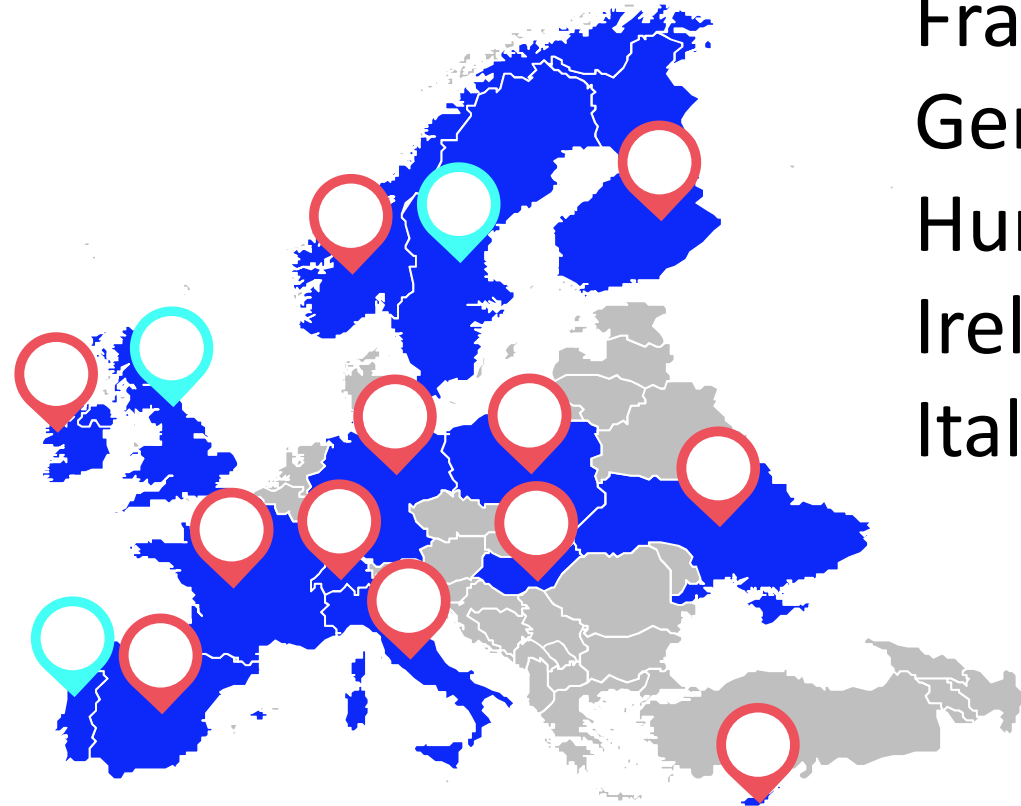
Andorra  
Cyprus  
Finland  
France  
Germany  
Hungary  
Ireland  
Italy

Norway  
Poland  
Portugal  
**Spain**  
Sweden  
Switzerland  
Ukraine  
United  
Kingdom



No cut-off date

-> monthly  
submission  
review



# OVERVIEW OF THE COARA WORKING GROUPS (13)



**Towards Open Infrastructures for Responsible Research Assessment**



**Multilingualism and language biases in research assessment**



**Recognizing and Rewarding Peer Review**



**Experiments in Assessment – Idea generation, co-creation, and piloting**



**Reforming Academic Career Assessment**



**Towards Transformations: Transdisciplinarity, Applied/Practice-Based Research, and Impacts**



**Early-and-mid-Career Researchers (EMCRs) – Assessment and Research Culture**



1<sup>st</sup> WGs Co-Chair meeting 17 November 2023



**Improving practices in the assessment of research proposals**



**Supporting the alignment of research assessment systems with CoARA in biomedical disciplines through administrative reforms and governance**



**Global framework for research evaluation in the social sciences and the humanities (SSH)**



**TIER – Towards an Inclusive Evaluation of Research**

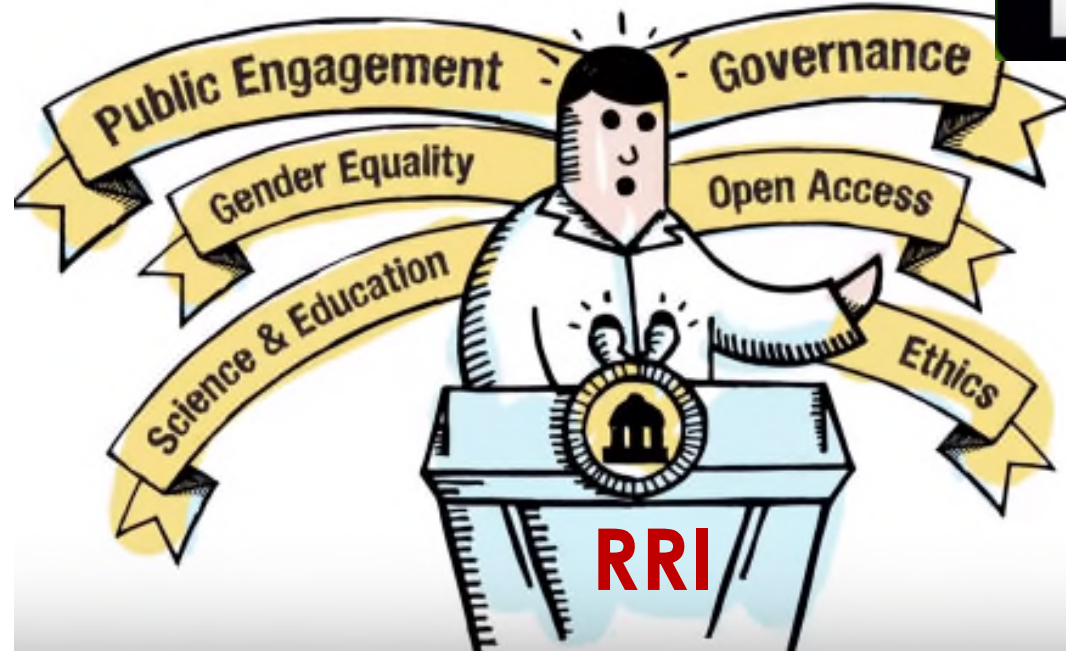
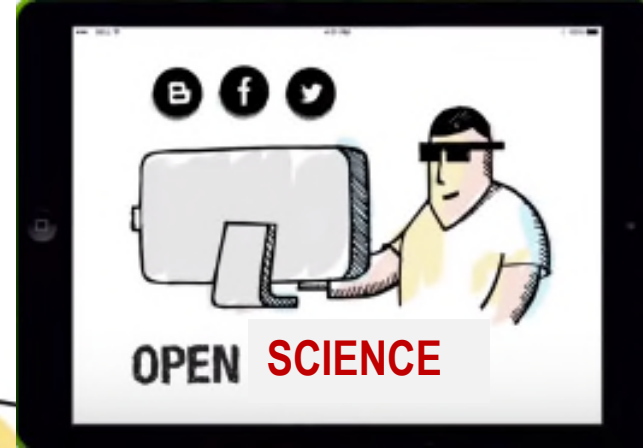


**Ethics and Research Integrity Policy in Responsible Research Assessment for Data and Artificial Intelligence (ERIP)**



**Responsible metrics and indicators**

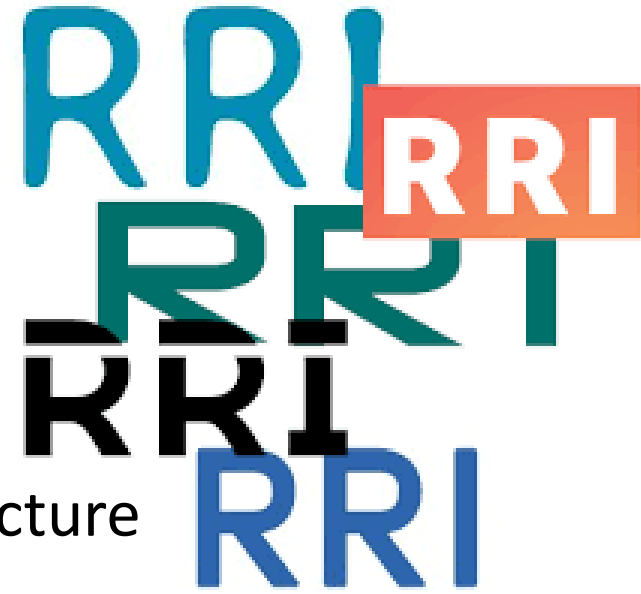
**FROM COARA TO RRI**



... Where **openness** and **transparency** are an integral component of the research and innovation process

# 10 PRINCIPLES

1. Comply with **ethical** and integrity standards and practices.
2. Safeguarding scientific **freedom**.
3. Respect the **autonomy** of organizations.
4. Ensure the independence and **transparency of data**, infrastructure and criteria.
5. Focus evaluation criteria on **quality**.
6. Recognize **contributions** that enhance **knowledge** and impact.
7. Recognize the **diversity** of activities, practices, and research outputs.
8. Respect the variety of disciplines, types of research and **career stages**.
9. Recognize and value diversity in **research roles** and careers.
10. Ensure **gender equality**, equal opportunities and **inclusion**.



# RRI IN THE ARRA



- 1. Responsible is a claim**
  - Responsible use of quantitative indicators/metrics/rankings
  - Responsible assessment (RRA)
- 2. Ethics** and integrity are the highest priority
3. Ensure **gender equality**, equal opportunities and inclusiveness (EDI)
- 4. Diversity** of research activities and practices, with a diversity of outputs, and **reward early sharing and open collaboration**
5. Consider diverse roles/activities (**science communication, public engagement**)

**SOME FINAL THOUGHTS AND A  
LONG WAY TO OPEN SCIENCE AND  
RRI**

# MOTIVATORS OF WILL



## *SEDUCTION*



# Challenges at institutional level

- **Monitor** Open Science/RRI AND **Assess** Open Science RRI
- **Change** the mindset of the researchers
- **Education** → training to create “*open science-ready institutions*”
- Strategic **alignment** of internal policies
- **Convince & Confidence!!** (Demonstrate the **impact** of the **Openness**)



***RRI is an explicit invitation to R&I quality!!***

# Some ideas to succeed

- Embrace international/EU policies (**ALIGNMENT**)
- Reward with economic incentives (internal rewarding system) (**INSTITUTIONAL COMMITMENT**)
- Open Infrastructures!! (**COOPERATE**)
- Focus on collaboration(**COALITION**)
- MOTIVATION: Datathons, Prices (**RANKING**)
- ECR → **EDUCATION / NEW BEHAVIOURS**

*“The best is enemy of the good”*

# INTERESTING PROPOSAL...



- **Two logical answers:**
  - 1) Improve metrics and how they're used
  - 2) Stop using metrics
- **Towards a Third Answer (7 Principles):**
  1. Academic career to attract the best
  2. *Increase funding*
  3. Ensure a stable academic career
  4. Researchers (involved/committed) in defining the criteria
  5. De-individualizing the assessment
  6. The academy (we, the researchers) must manage academic communication infrastructures
  7. If metrics are part of the assessment, all **data should be open** and fully accessible.



SCIENCE

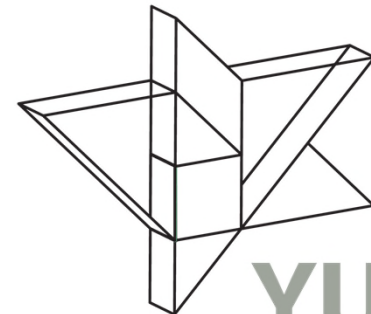
## If science is not open... it is not going to help us

Open Science and Open Knowledge accelerate research and advance to face social challenges (COVID pandemic, SDGs).

The European Commission and many other political and scientific institutions, as well as research funding agencies, promote the urgent implementation of Open Science.

**DIY-Calendar:**

[https://zenodo.org/record/5961563#.YI\\_eUOjP3IV](https://zenodo.org/record/5961563#.YI_eUOjP3IV)



**YUFERING**  
TRANSFORMING R&I THROUGH  
EUROPE-WIDE KNOWLEDGE TRANSFER

Gracias  
Thank you!!!



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