



<https://www.open-science-conference.eu>

Open Science?... Darling, we need to talk

Prof. Dr. Eva Méndez

Chair of the European Open Science Policy Platform

uc3m emendez@bib.uc3m.es
@evamen



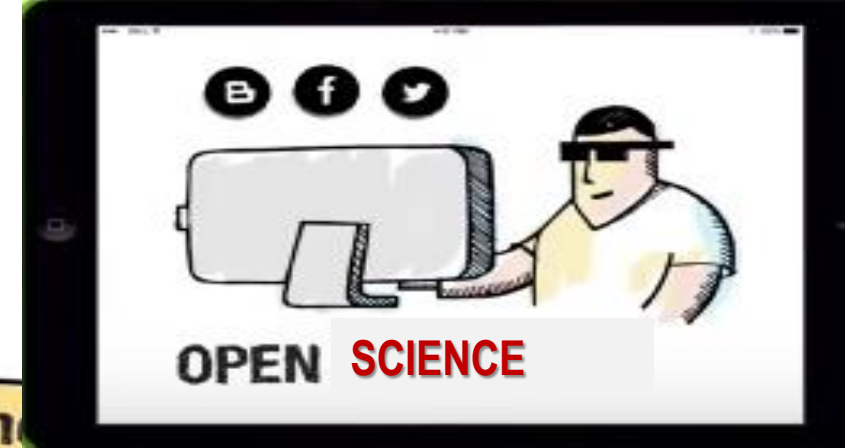
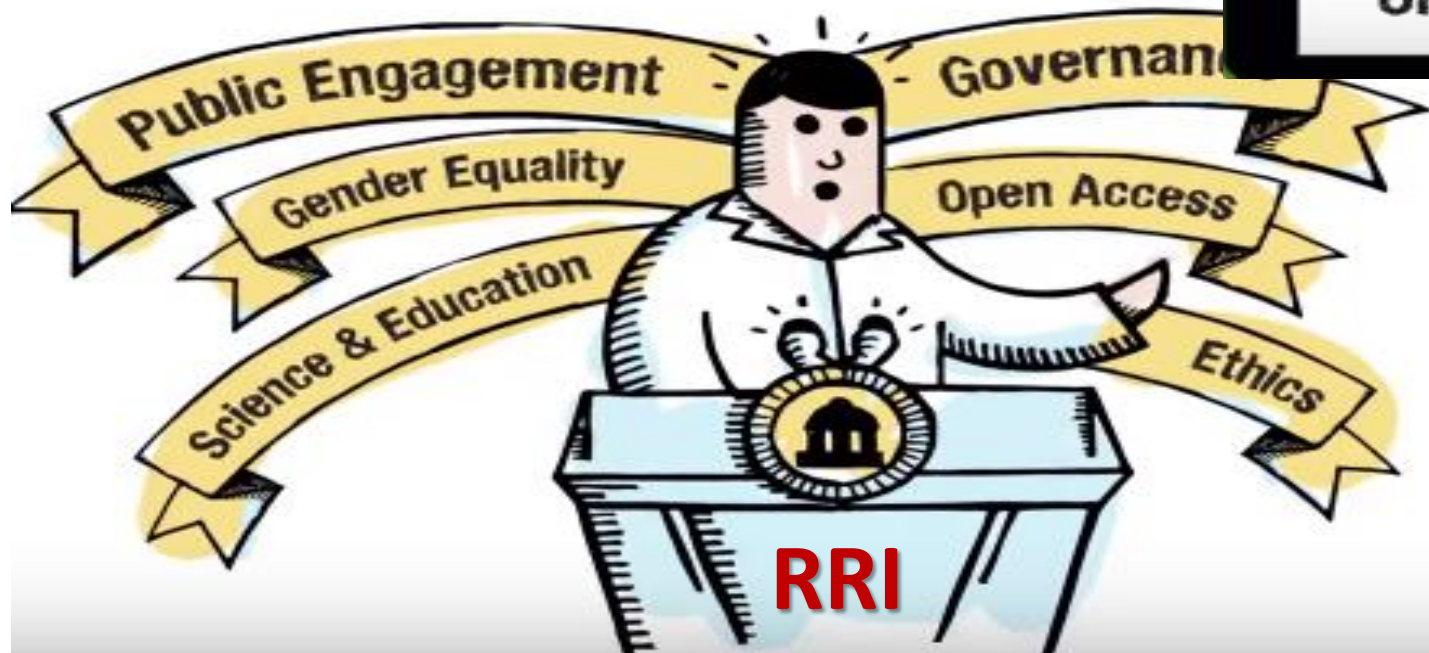


Something is going to change....

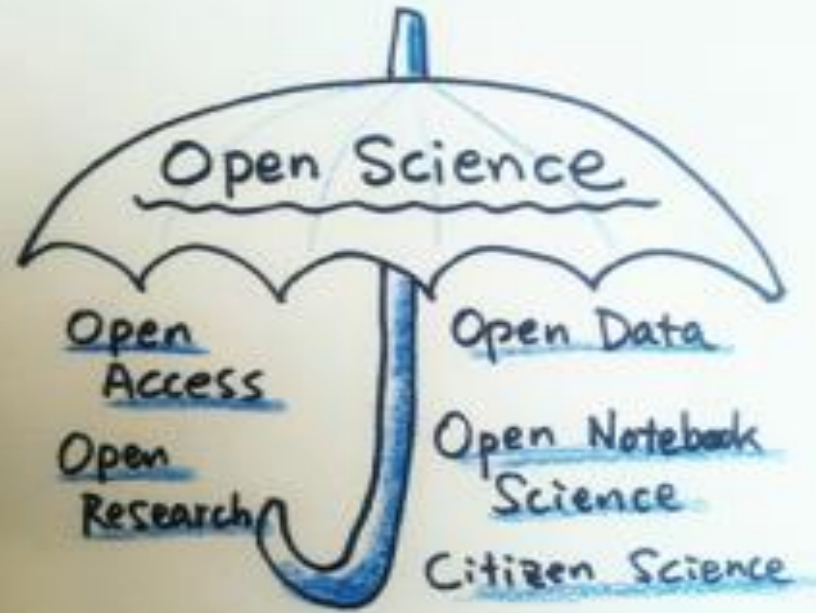
Source: <http://yourvibrantlife.ca/we-need-to-talk-2>

Outline

- **Let's talk about Open Science**
 - Context (RRI, HRS4R, H2020/Eu...)
 - Open Science : WHAT and WHY?
- **Challenges...**
 - Cultural Change
 - Motivators of will
- **Implementation...**
 - Open Science... HOW?
 - PCIs: Practical Commitments for Implementation

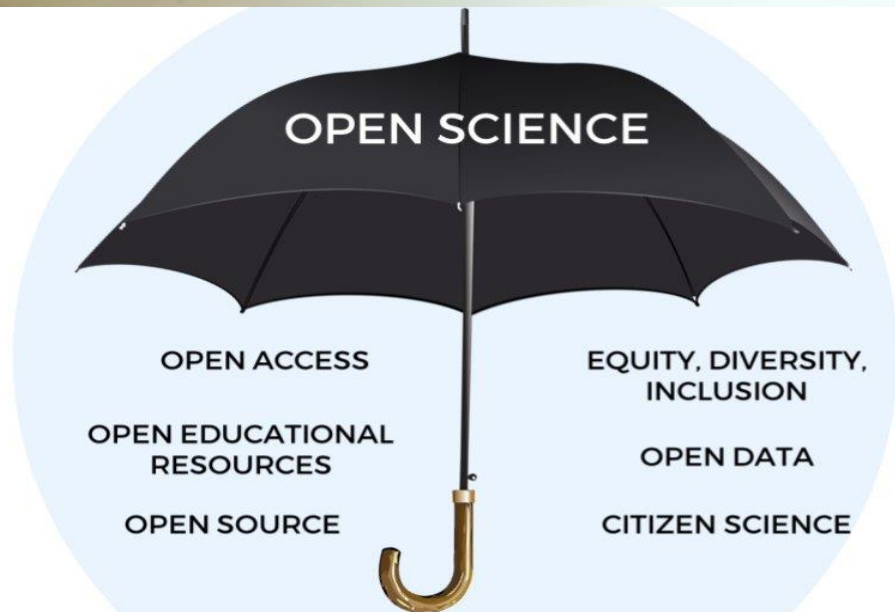


... Where **openness** and **transparency** are an integral component of the research and innovation process



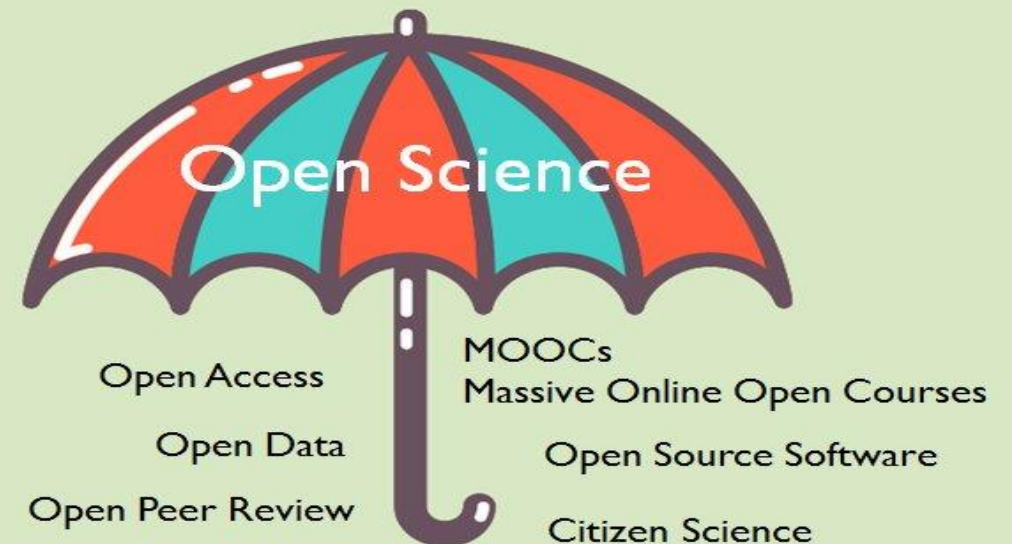
*Open science commonly refers to efforts to make the **output of publicly funded research** more **widely accessible in digital format** to the **scientific community**, the **business sector**, or **society** more generally ... to promote long-term **research as well as innovation**.*

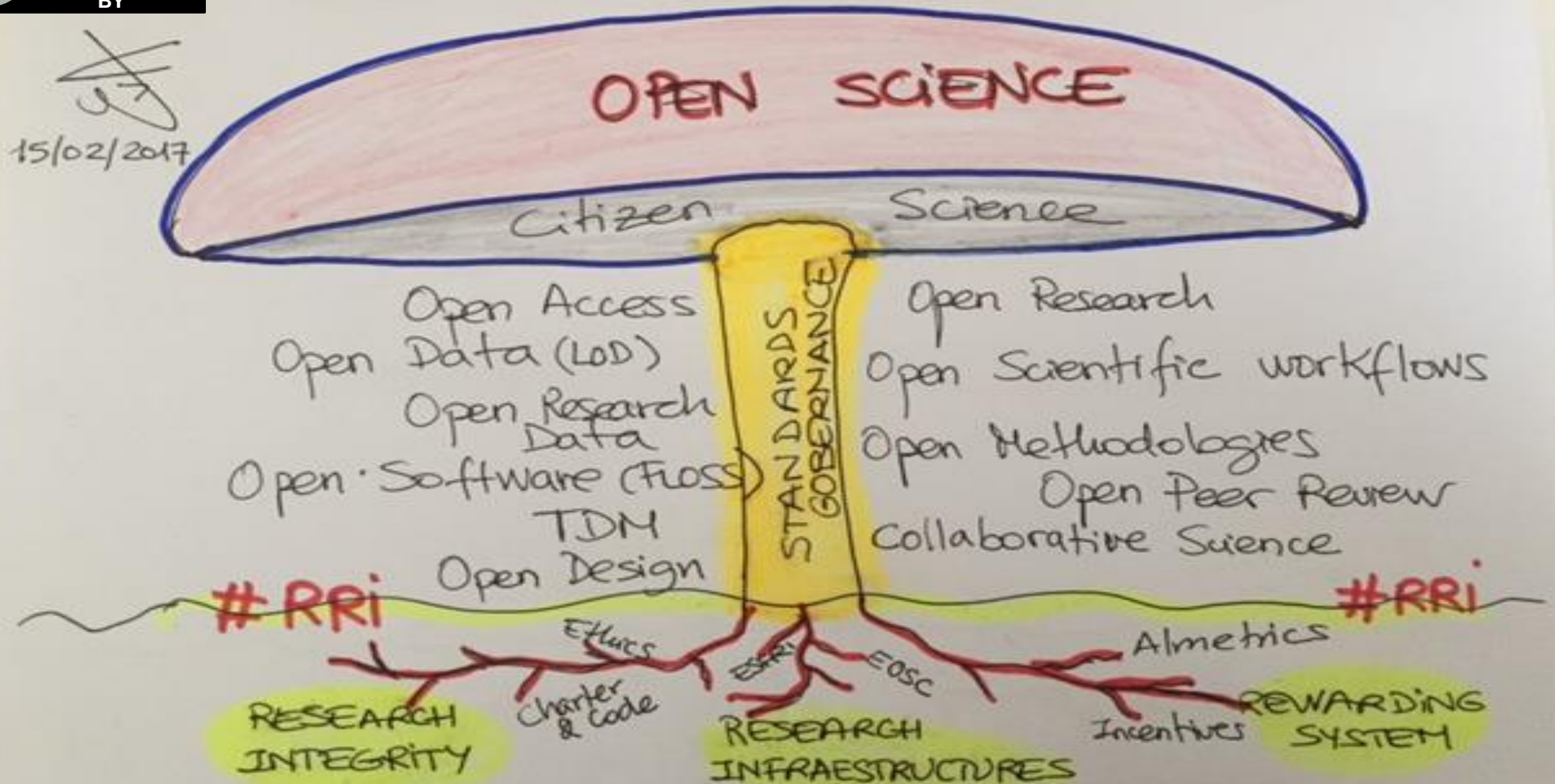
OECD Sept 2015



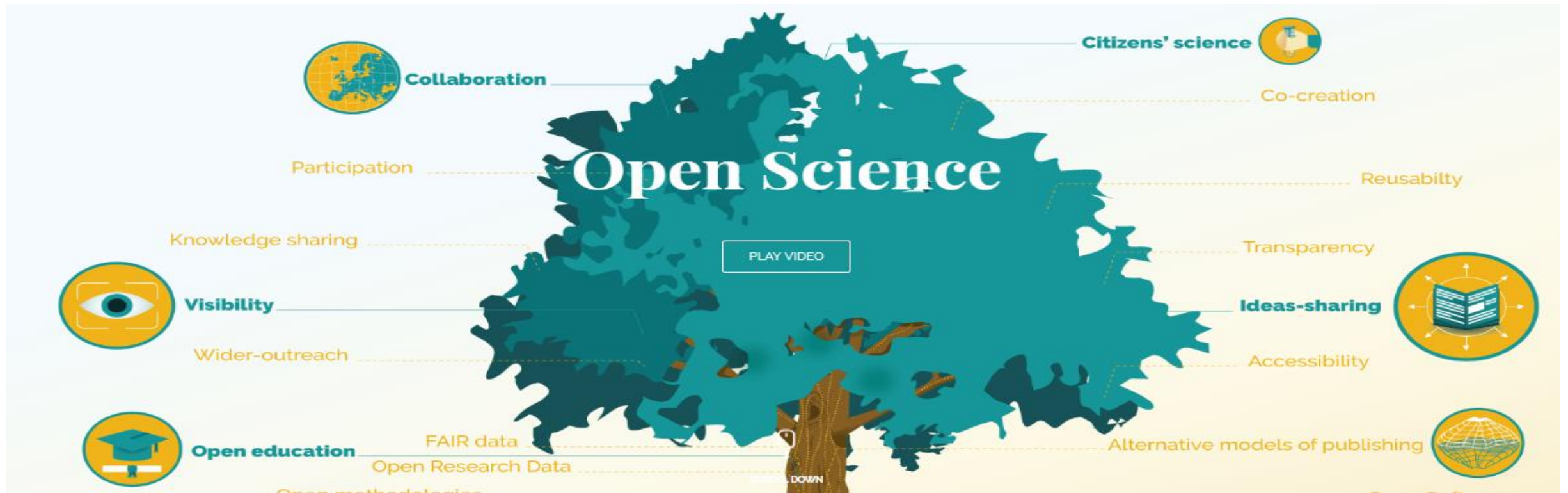
What do we mean when we talk about Open Science?

Image courtesy of Robin Champieux

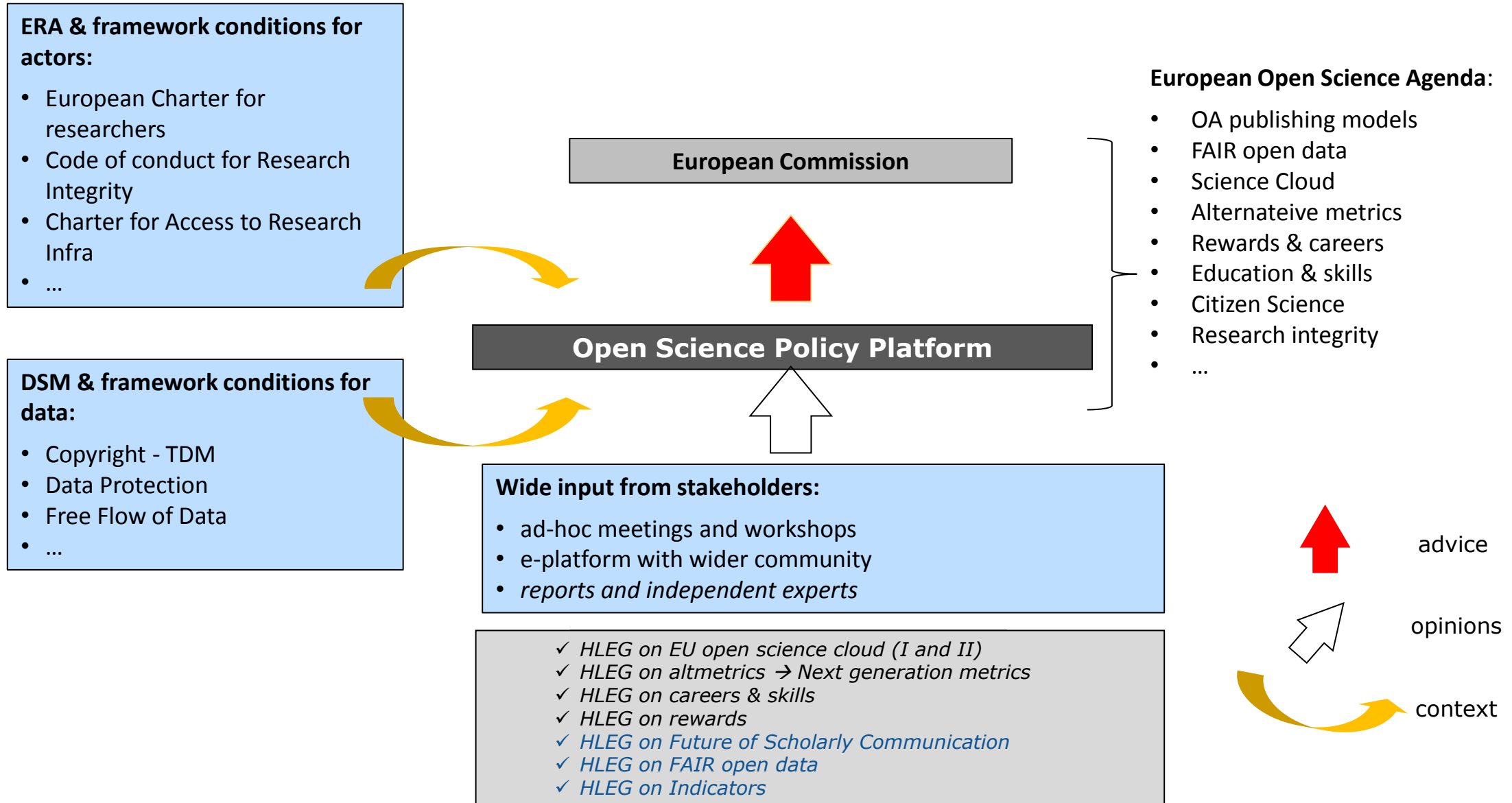




<http://bit.ly/OpenScienceYERUN>



OSPP in the EC Open Science state of play (2016)





Evaluation of Research Careers fully acknowledging Open Science Practices

Rewards, incentives

Written by the Working Group
July – 2017



The European Code of Conduct for Research Integrity

REVISED EDITION



Providing researchers with the skills and competencies they need to practise Open Science

Open Science Skills Working Group Report

Working Group on Education and Skills under Open Science



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





European Council
Council of the European Union

Competitiveness Council (May 2018)

OSPP-REC

2.2. Prioritised recommendations for the eight ambitions of Open Science

Below are a set of actionable recommendations from the OSPP to be taken as the next step towards the longer-term vision articulated by Open Science consultations and expert groups set up by the EC and other organisations in Europe and worldwide. The recommendations have been split up into the eight priorities identified from the 5 areas of the European Open Science Agenda⁶, namely:

- Rewards and Incentives
- Research Indicators and Next-Generation Metrics
- Future of Scholarly Communication
- European Open Science Cloud
- FAIR Data
- Research Integrity
- Skills and Education
- Citizen Science

The major stakeholder groups (as listed in the key below) who have the main responsibility to drive the actions stated in the recommendations have been listed alongside each one.



Research & E-Infrastructures



Research Libraries



Universities & Research Performing Organisations



Policy Making Organisations



Research Funding Organisations



Publishers



Researchers



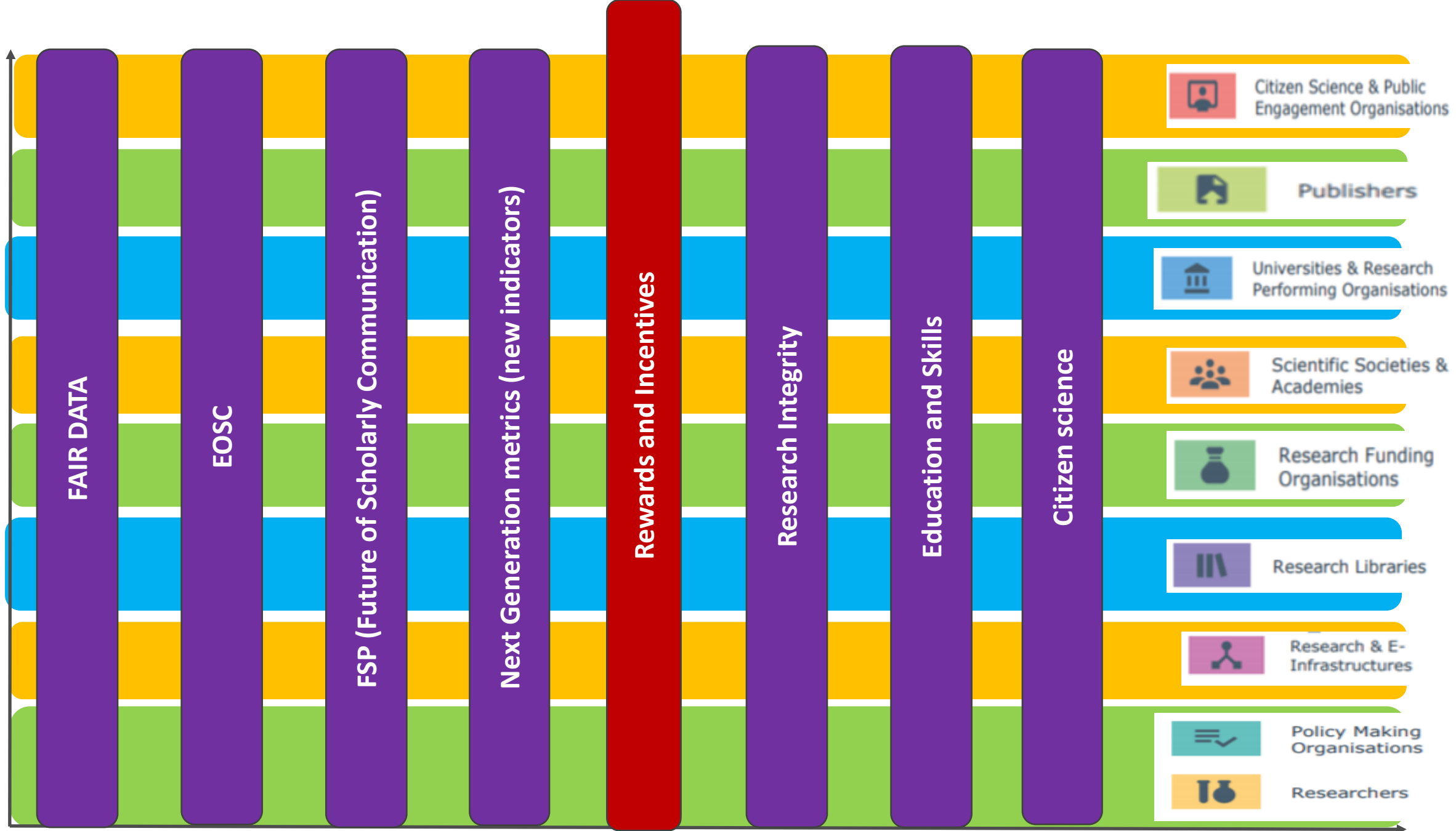
Scientific Societies & Academies



Citizen Science & Public Engagement Organisations

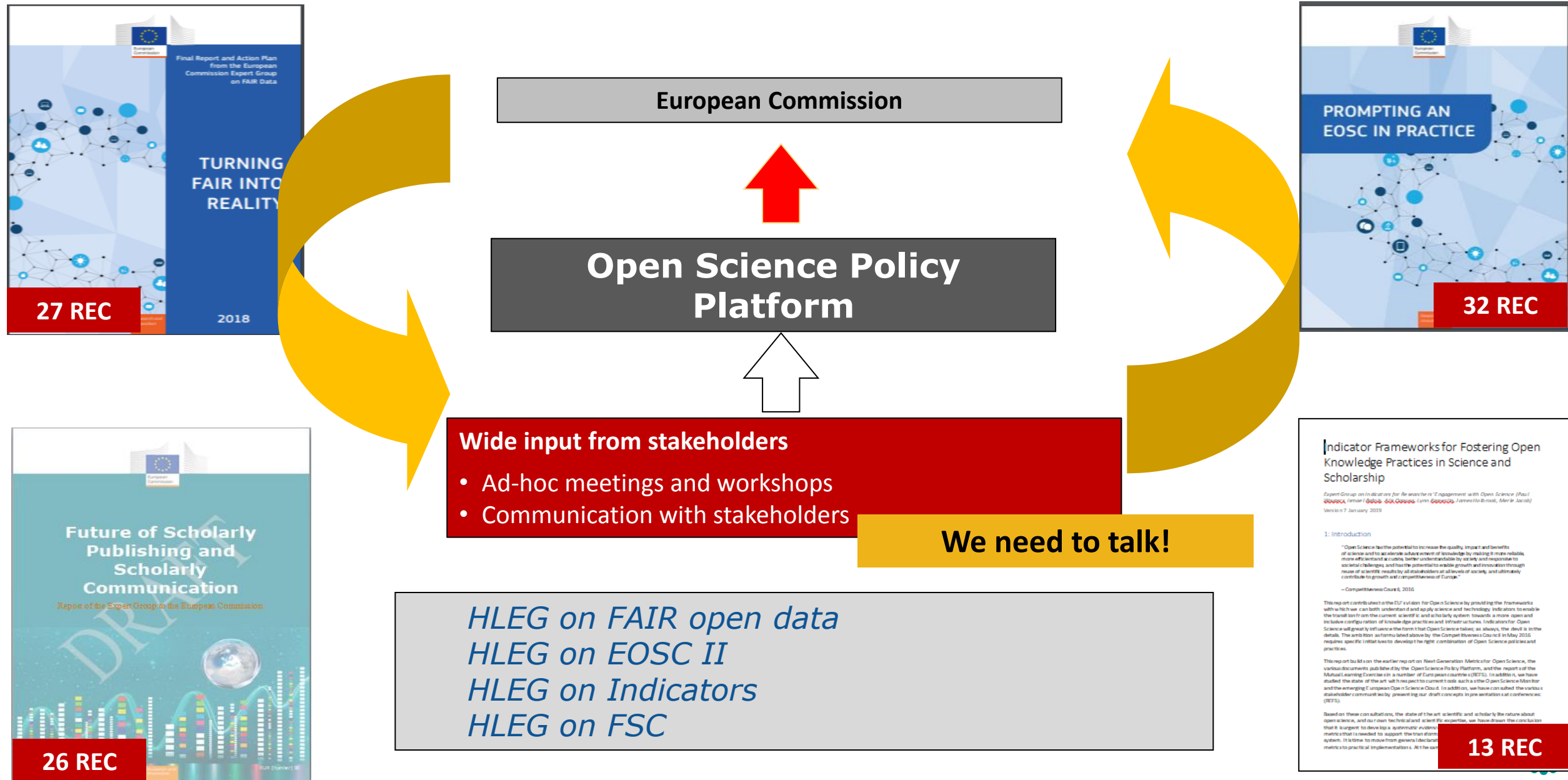


Stakeholders / Actors of Open Science



Open Science challenges / pillars in EUROPE

Where we are? Among **RE**Ports (4)& **RE**Commendations (87)



The image features a stylized illustration of a hand in a mustard yellow color, pointing its index finger towards a central digital interface. The background is a collage of various UI elements in shades of yellow, orange, and teal, including rectangular blocks, rounded rectangles, and lines that suggest a complex digital environment. Overlaid on this background is a large, horizontal teal banner with a slight gradient. Inside this banner, the text "Challenges: change!" is written in a clean, white, sans-serif font. The overall composition is modern and tech-oriented, emphasizing the theme of digital change and challenges.

Challenges: change!

Challenges = Building blocks

1. Removing barriers and **creating incentives** (alternative/next generation metrics, research integrity, TDM (Text and Data Mining)).
2. Developing **infrastructures** for Open Science (e.g. European Open Science Cloud, EOSC).
3. Embedding Open **Science in Society** (citizen science, public engagement... knowledge coalitions to address societal challenges).

Challenges

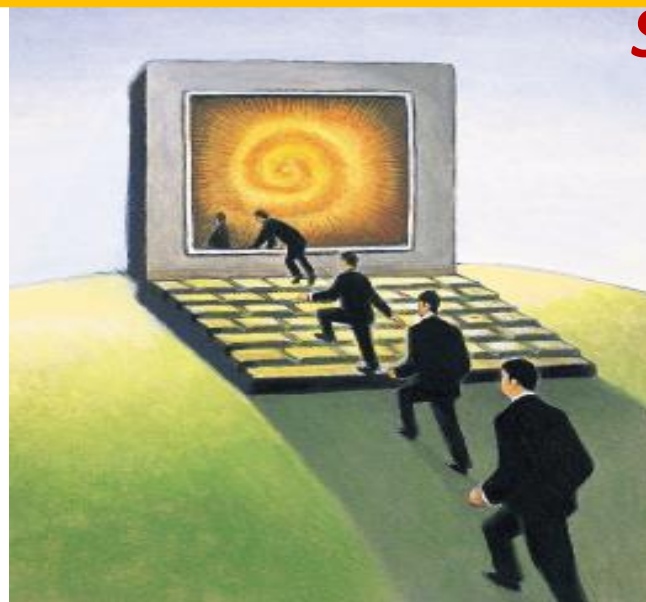
- **Cultural change** (researchers mindset)
- **Education (Skills)** → training ECR but also senior researchers
- **Attitude CC: Conviction & Confidence** → Demonstrate the impact of **Open Knowledge**
- **Strategic alignment** internal policies



Motivators of will... (for academics)

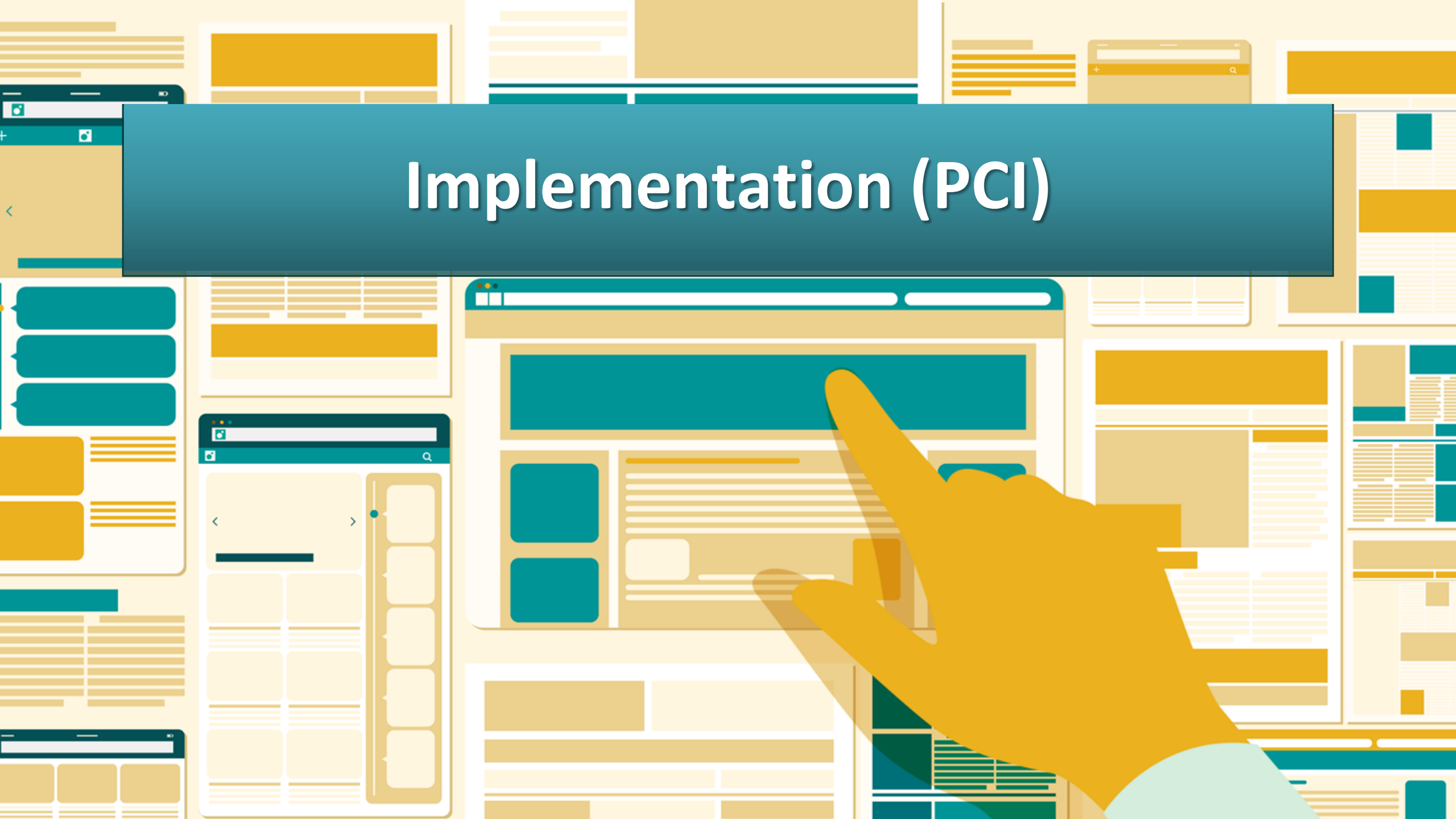


SEDUCTION



Make it very easy...
Motivate...
Help...

Implementation (PCI)



EU-OSPP (M2)

- Communication and engagement (We need to talk!)
 - Stakeholders meetings
 - @euospp
- Change from ***Declaration mode*** to the ***Implementation mode*** (PCIs)
 - from REP&REC to PCIs
 - From #YAD to #NPCI
- Map-interconnect - the projects working in Open Science (eInfras, SWAFS, etc.)
- **Align MS policies → Align OSPP-MS objectives**

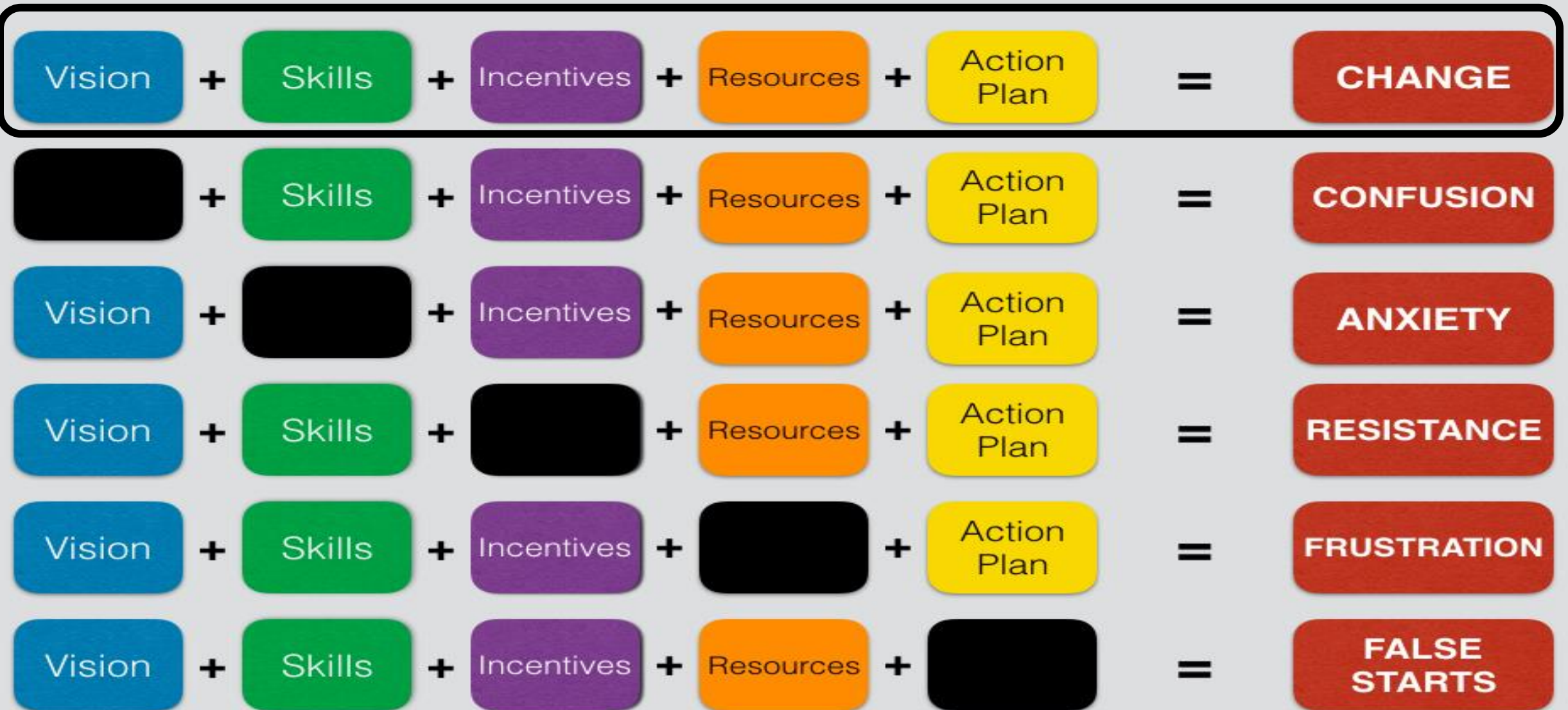
Open Science: HOW?



- How to **incentivize** the systemic change?
- How does it **affect our researchers?** → Promotion, research assessment...
- How does it affect our research **infrastructures?** → New ones?
- How does it affect researcher's **skills** → Data **literacies?**
- How does it affect to our researcher's **behavior** (research integrity)

MANAGING A COMPLEX CHANGE

Managing Complex Change



PCIs (Practical Commitments for Implementation) for Open Science

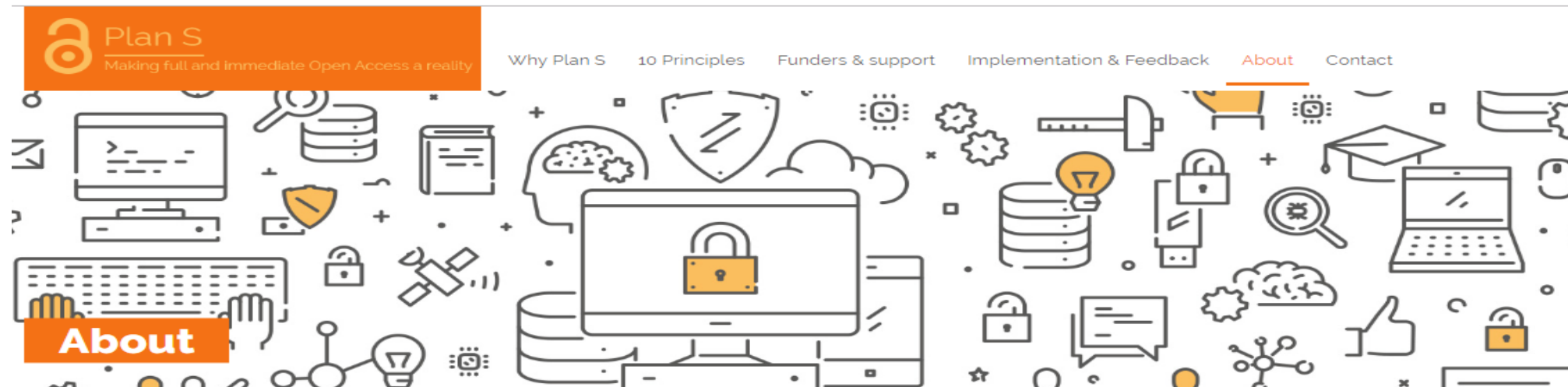
- Shift from “*declaration mode*” → to “implementation mode”
- You, at your institution, at your office, with your attributions, etc. **what can you do for Open Science?** (regarding the 8 challenges, and taking into account your condition as stakeholder...)
 - I am a researcher....
 - I am a publisher...
 - I am a research infrastructure manager...
 - I am a librarian, etc.

What are **PCIs** for Open Science

- **Commitments** regarding any aspect (challenge) of Open Science
- Actual, **realistic** and **affordable**... in a level where the proponent has “jurisdiction”
- **Effect** → real **implementation**
- They answer to the question: *What **CAN** I do to make Open Science happen?*
- Open science at “action level” (**practical**)

PCIs example: FUNDERS

<https://www.coalition-s.org>



What is cOALition S?

On 4 September 2018, a group of national research funding organisations, with the support of the European Commission and the European Research Council (ERC), announced the launch of cOALition S, an initiative to make full and immediate Open Access to research publications a reality. It is built around Plan S, which consists of one target and 10 principles.

cOALition S signals the commitment to implement, by 1 January 2020, the necessary measures to fulfil its main principle:

Further Information

- > [Guidance on Implementation](#)
- > [Participating Institutions](#)
- > [Press Release](#)
- > [European Research Council](#)
- > [Stakeholder Engagement](#)

1ST
PCI

PCIs example: RPOs- LIBRARIES

UNIVERSITY JOURNALS

<http://www.universityjournals.eu>

- University of Groningen
- Wageningen University
- Linköping University
- University of Zurich
- Maastricht University
- University of Amsterdam
- Universidad Carlos III de Madrid
- Vrije Universiteit Amsterdam
- Universitat de Barcelona
- Erasmus University Rotterdam
- Technische Universiteit Delft
- Tilburg University
- University of Essex
- Utrecht University

PCIs example: RESEARCHER

<http://anxosanchez.eu/adopting-plan-s-as-an-individual-researcher>

ANXO SÁNCHEZ

HOME

RESEARCH

PROJECTS

TALKS

17 ENE ADOPTING PLAN S AS AN INDIVIDUAL RESEARCHER

Posted at 18:01h in Sin categoría by 1dinamoanx • 0 Comments • 0 Likes • Share



Since Plan S was announced last September, I have been ruminating about whether it should be something for funding agencies only, or on the contrary it should involve individual researchers too, so bottom-up working together with top down. As you probably know, [Plan S](#) is an initiative

for Open Access publishing supported by cOAlition S, an international consortium of research funders. Plan S requires that, from 2020, scientific publications that result from research funded by public grants must be published in compliant Open Access journals or platforms. So far, 13 national funders, along with other organizations have joined cOAlition S, and I do hope, along with many of my colleagues, that the Spanish



Anxo Sánchez @anxosan

10h

Today I have made a decision I've been thinking about for a while. From 2020 I will follow [Plan S coalition-s.org](#) as an individual researcher, no matter where my funds come from. Potential co-authors, students and postdocs, be aware. Read about it [anxosanchez.eu/adopting-plan-...](#)

1 5 8 ...



Anxo Sánchez

@anxosan

I believe [@evamen](#) will like this. If you also like this, spread the word, and think about it. Perhaps you want to contribute to ending the crazy, unfair and damaging business of scientific publication

Translate Tweet

PCIs example: YOUR COMMITMENT

Open Science

Conference

THANK YOU!!!!



emendez@bib.uc3m.es

@evamen

@euospp

