

AESIS

**Open Science and Societal Impact
Seminar**

Online Seminar 20 April 2022

PCIs and Bottom-up Policies for Open Science

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@evamen

 Yerun
Young European Research Universities

uc3m



Where we are: Just a reminder!! ...

Science



The web is for everyone and collectively we hold the power to change it. It won't be easy. But if we dream a little and work a lot, we can get the web we want.

Sir Tim

<https://webfoundation.org/2019/03/web-birthday-30/>

30 years on, what's next #ForTheWeb?

Outline

• Open Science...

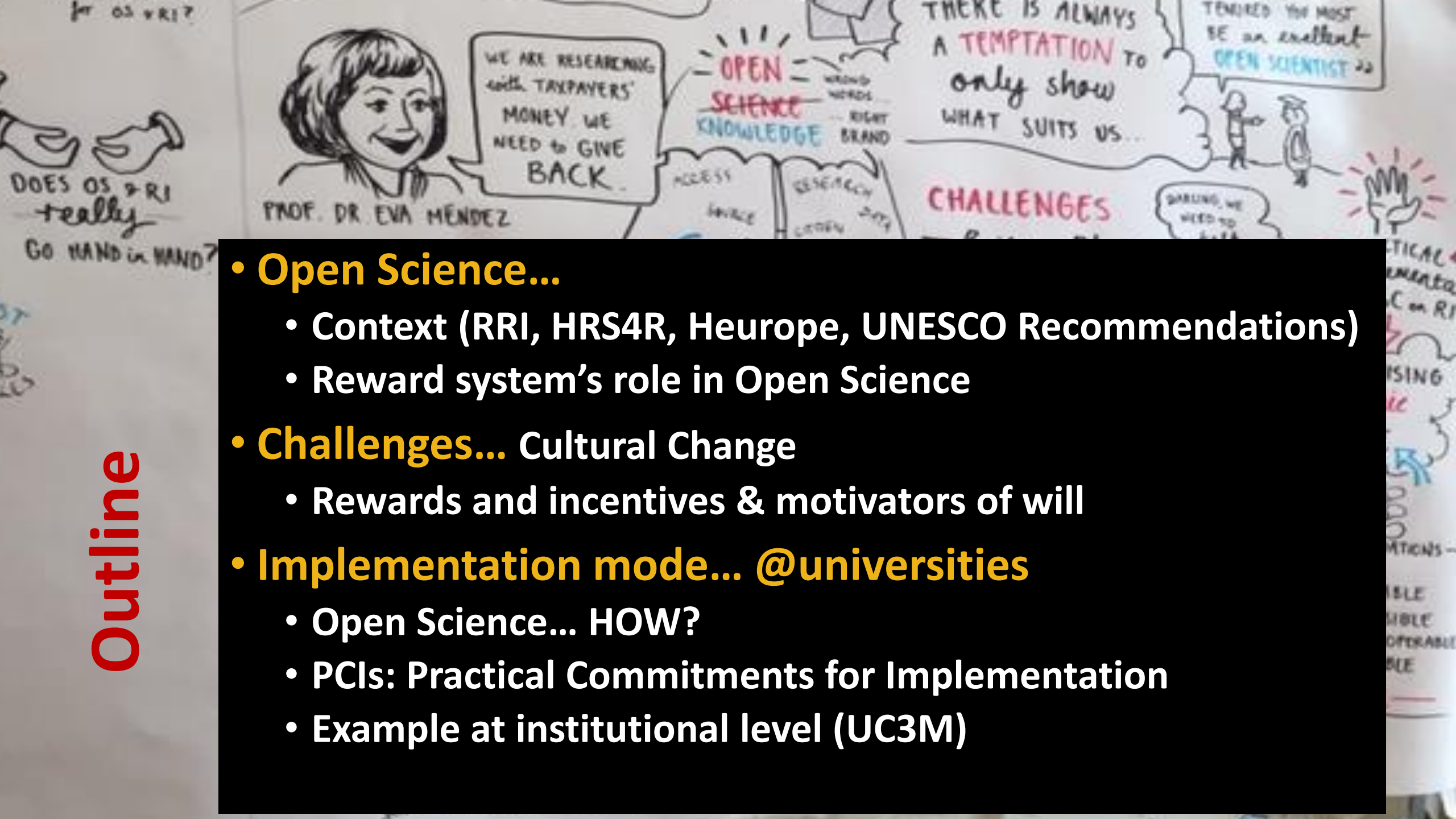
- Context (RRI, HRS4R, Heurope, UNESCO Recommendations)
- Reward system's role in Open Science

• Challenges... Cultural Change

- Rewards and incentives & motivators of will

• Implementation mode... @universities

- Open Science... HOW?
- PCIs: Practical Commitments for Implementation
- Example at institutional level (UC3M)



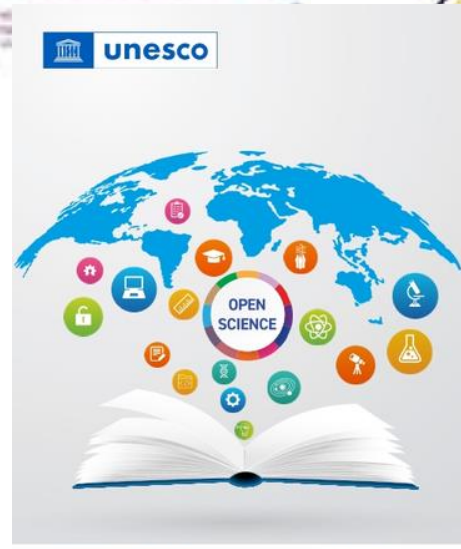
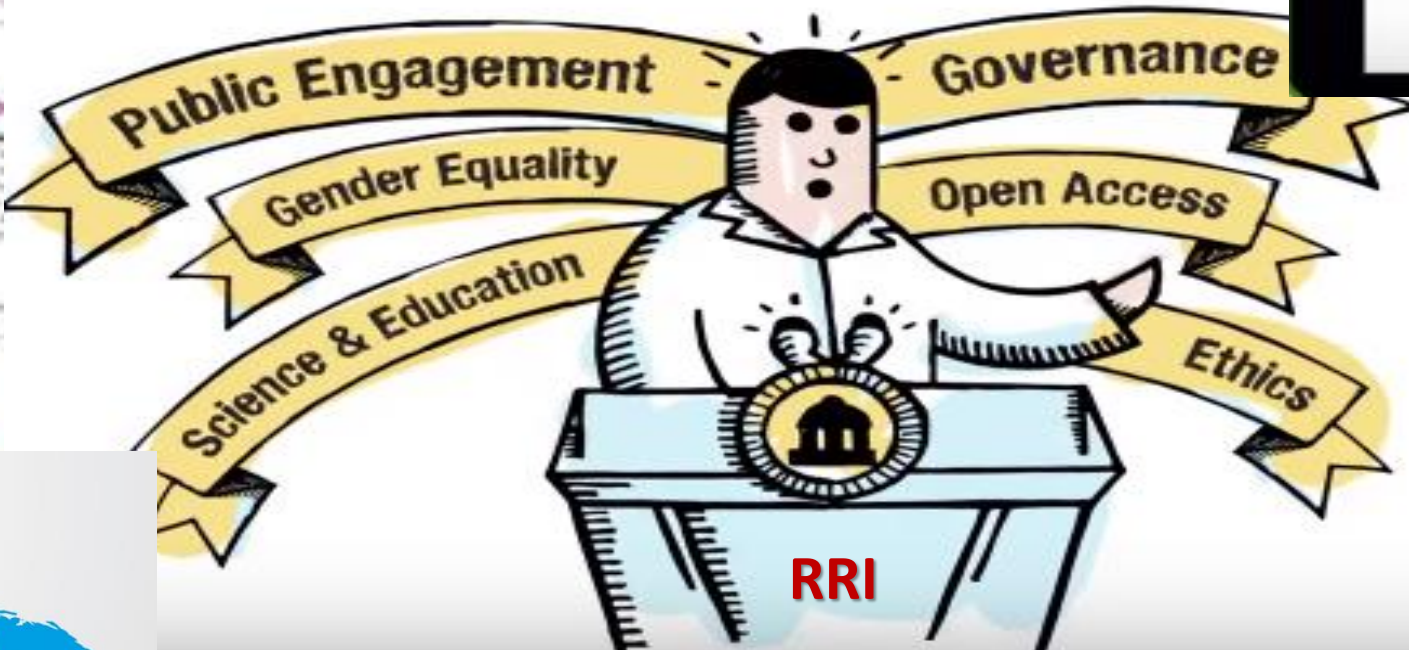
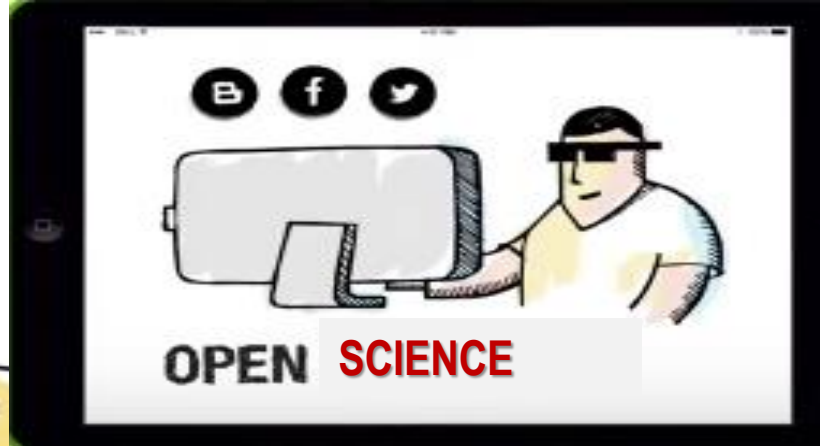


OPEN SCIENCE
 EARLY KNOWLEDGE AND DATA SHARING AND O...

The objective is to enhance the visibility and impact of research results by making them openly available to all researchers. Open science involves the transparency of early on research in the research and innovation cycle and with all research knowledge to form a highly growing and open science platform and involve all stakeholders in the process. This platform will ensure the quality, efficiency and impact of the research process. It will also provide a platform for the exchange of ideas and information in the science sector.

What are open science practices?

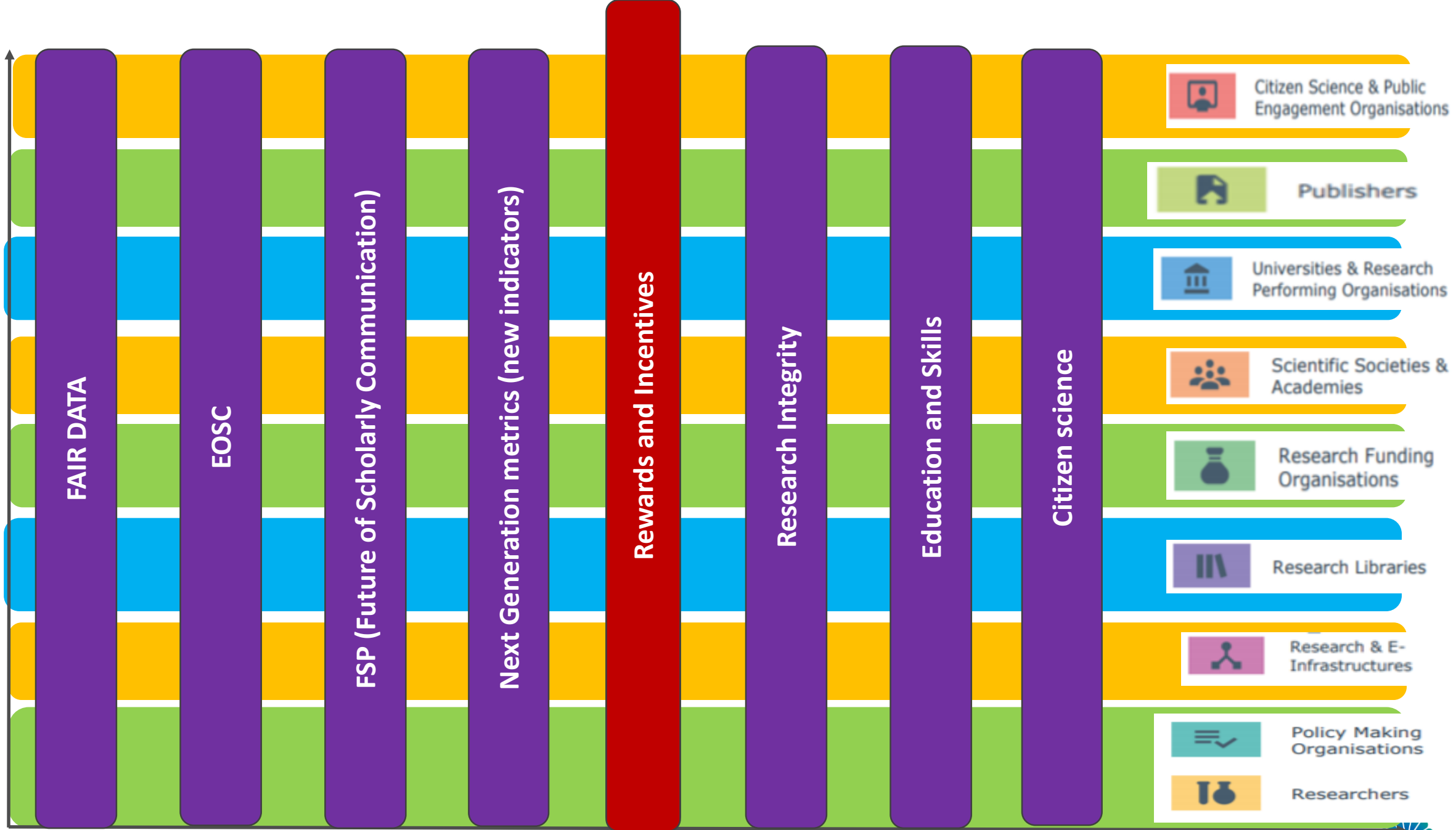
- Open access research information or publications that allows for
- Open access sharing of research data and research results, including the sharing of methods and protocols.
- Use of open access infrastructure to ensure and enhance sharing.
- Peer review and open access.
- Researcher and researcher identification.
- Open access to research results.



UNESCO Recommendation on Open Science

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

Stakeholders / Actors of Open Science



Open Science challenges / pillars in EUROPE



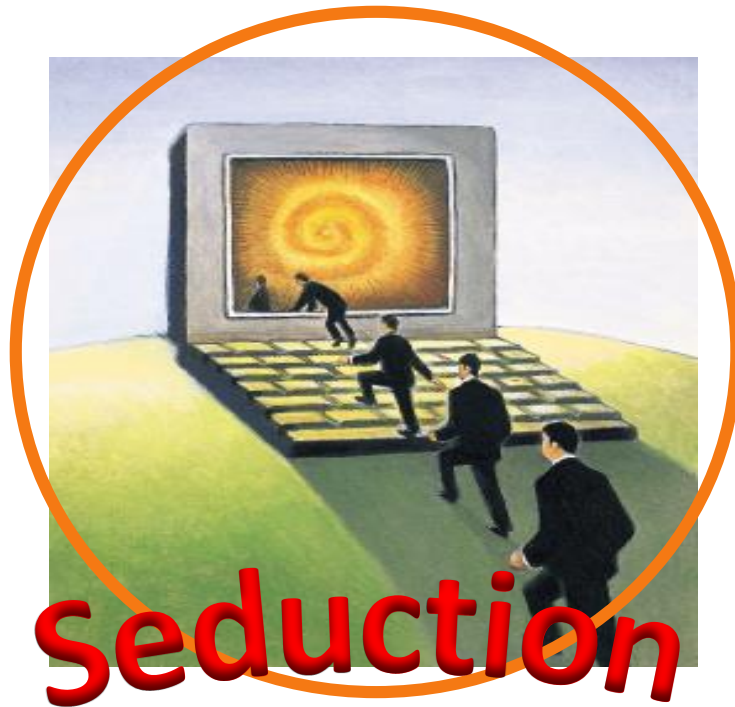
Challenges for Open Science

The image features a central laptop screen with a teal header and a large teal rectangular area below it. A stylized yellow hand with a light blue sleeve is pointing towards the laptop screen. The background is a collage of various digital interface elements, including mobile app screens with lists, chat bubbles, and navigation bars, all in shades of teal, yellow, and light beige.

Challenges = Building blocks

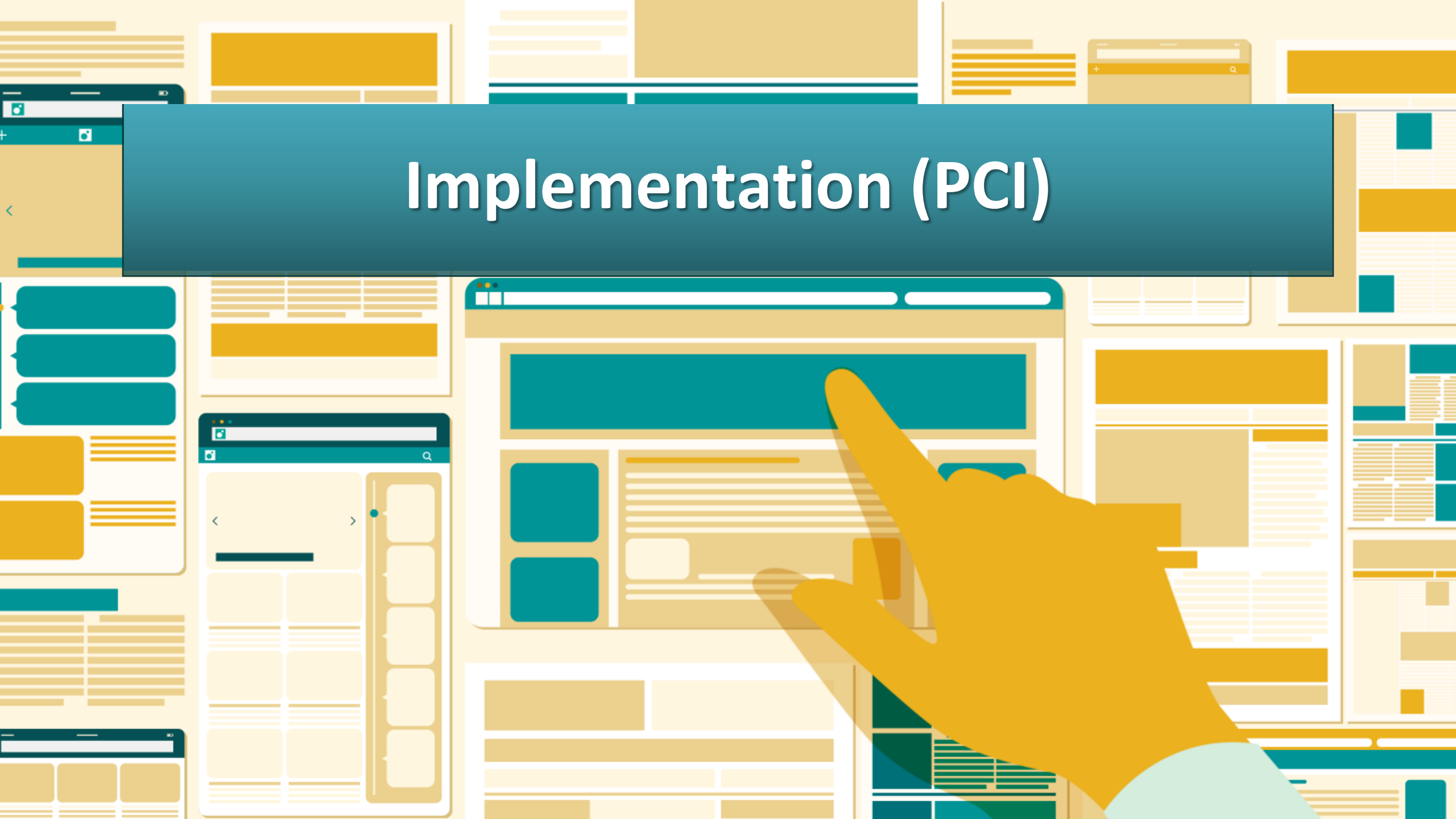
1. Removing barriers and **creating incentives** (alternative/next generation metrics, research integrity, TDM (Text and Data Mining)).
2. Developing **infrastructures** for Open Science (e.g. European Open Science Cloud, EOSC).
3. Embedding Open **Science in Society** (citizen science, public engagement...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

Motivators of will... (for academics)



Seduction

Implementation (PCI)



What are PCIs... for OPEN SCIENCE

- **Commitments**
- Actual, **realistic** and **affordable**... in a level where the proponent has *“jurisdiction”*
- **Alignment** at country level → OS international
- **Effect** → real **implementation**
- Answer to the question: *What **CAN** I do to... change the reward system, to apply new indicators, etc.*
- Open science at “action level” (**practical**)

We need **PCIs** (Practical Commitments for Implementation) for Open Science

- 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 policy maker...
 - I am a publisher...
 - I am a research infrastructure manager...
 - I am a librarian, etc.
 - I am the rector/president...

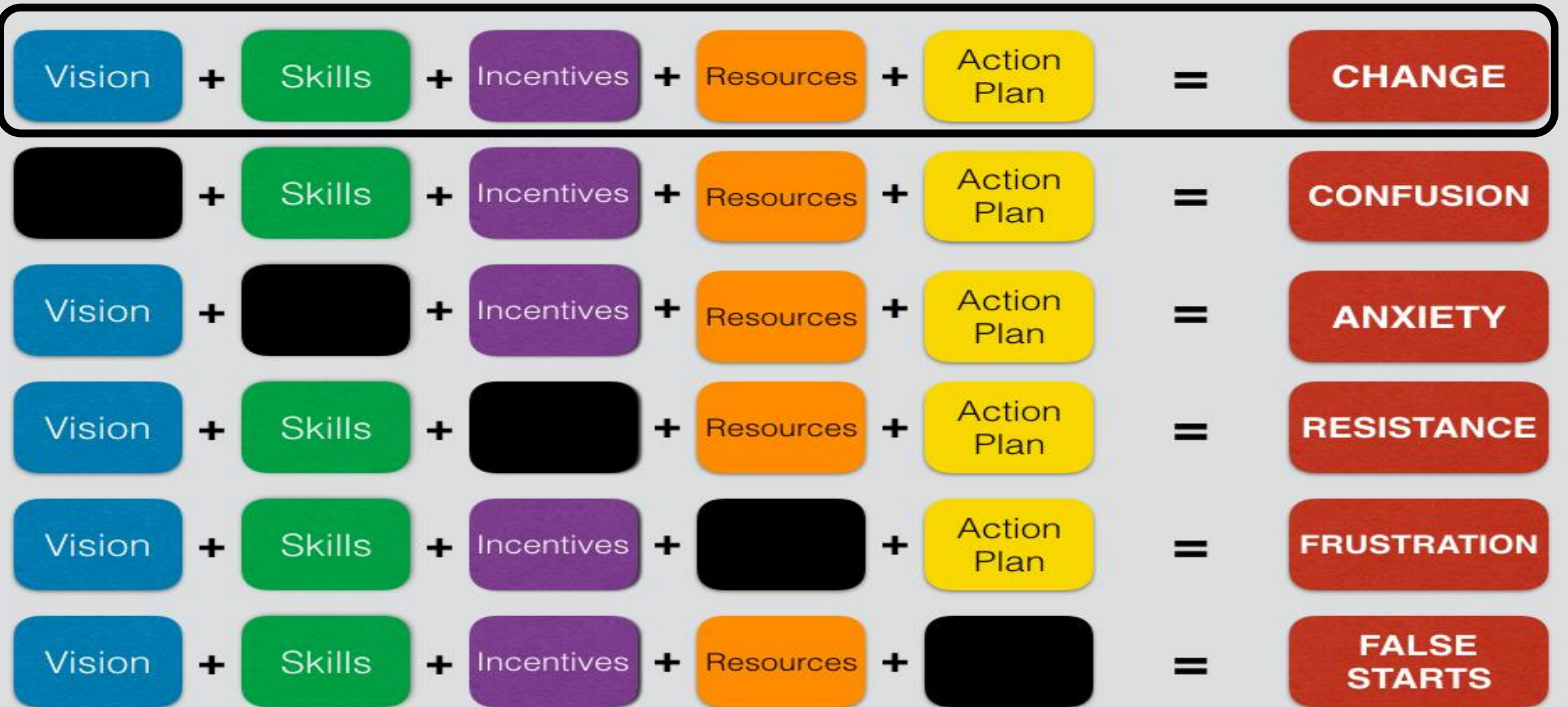
Open Science @Universities: HOW?

#IAmAnOpenScientistsBecause...



- 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 our T&Learning? → **Data literacies?** (skills)
 - How does it affect to our researcher's **behavior** (research integrity)
- Public Institutions + **Transparency**

Managing Complex Change



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

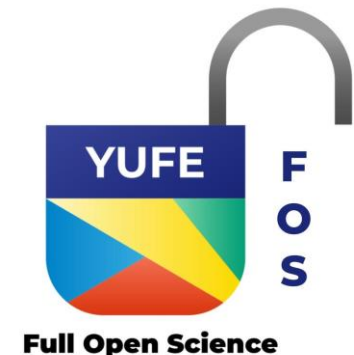
PCIs example: INSTITUTION

uc3m

Join us! Let's make it happen



- **UniOS (Join us!): Open Science Unit** An operational unit to support and help OS @UC3M = seduction
 - Library + Research & Innovation Service +TI Service
 - + Researchers (including ECR)
- **Bottom-up approach: FOS pilot** (*Full Open Science Research Groups*): Volunteer → process → badge



Challenges

- **Cultural change** (researchers mindset)
[Darling, we need to talk!!]
- **Education (Skills)** → training ECR, but also senior researchers
- **Attitude CC: Conviction & Confidence** →
Demonstrate the INFLUENCE of Open Knowledge
- **Strategic alignment** with internal policies, and of course (hopefully) with the international ones

Training
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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.



YUFERING
TRANSFORMING R&I THROUGH
EUROPE-WIDE KNOWLEDGE TRANSFER

DIY-Calendar: https://zenodo.org/record/5961563#.Yl_eUOjP3IV

Thank you!



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@evamen

