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UNIVERSITÀ DEGLI STUDI DI ROMA
Dipartimento di Studi letterari, filosofici e di storia dell'arte

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MiBAC MINISTERO PER I BENI E LE ATTIVITÀ CULTURALI

museo nazionale romano palazzo massimo

Open Science @EUOSPP: a journey from declaration to implementation

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@evamen

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Outline

- Open Science…
  - Context (RRI, HRS4R, H2020/Eu…)
  - Open Science… WHAT?
- Challenges… the EU Agenda on OS and EUOSPP
  - Open Science Policy Platform: 2 mandates
  - 8 challenges for Open Science
  - Cultural Change / “motivators of will”
- Implementation mode…
  - Open Science… HOW?
  - PCIs: Practical Commitments for Implementation

Open Science: here we are!

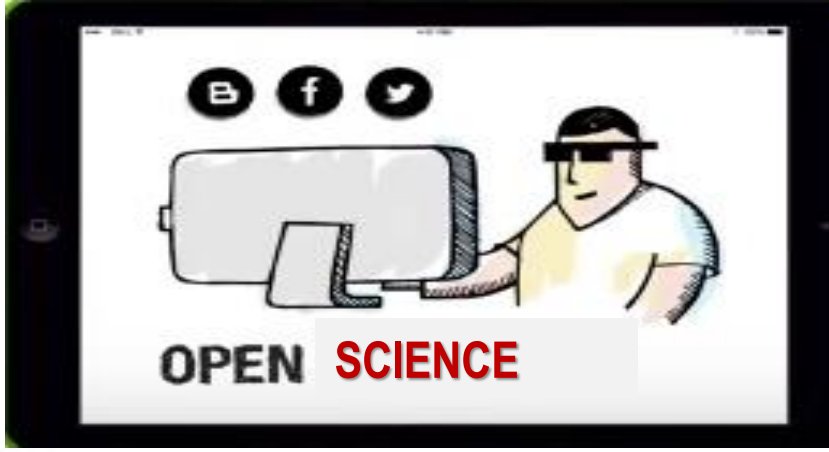
- *Open Science, Open Innovation & Open to the World*
- ***Openness is the key of excellence***
- *Launch of the EU Open Science Agenda*

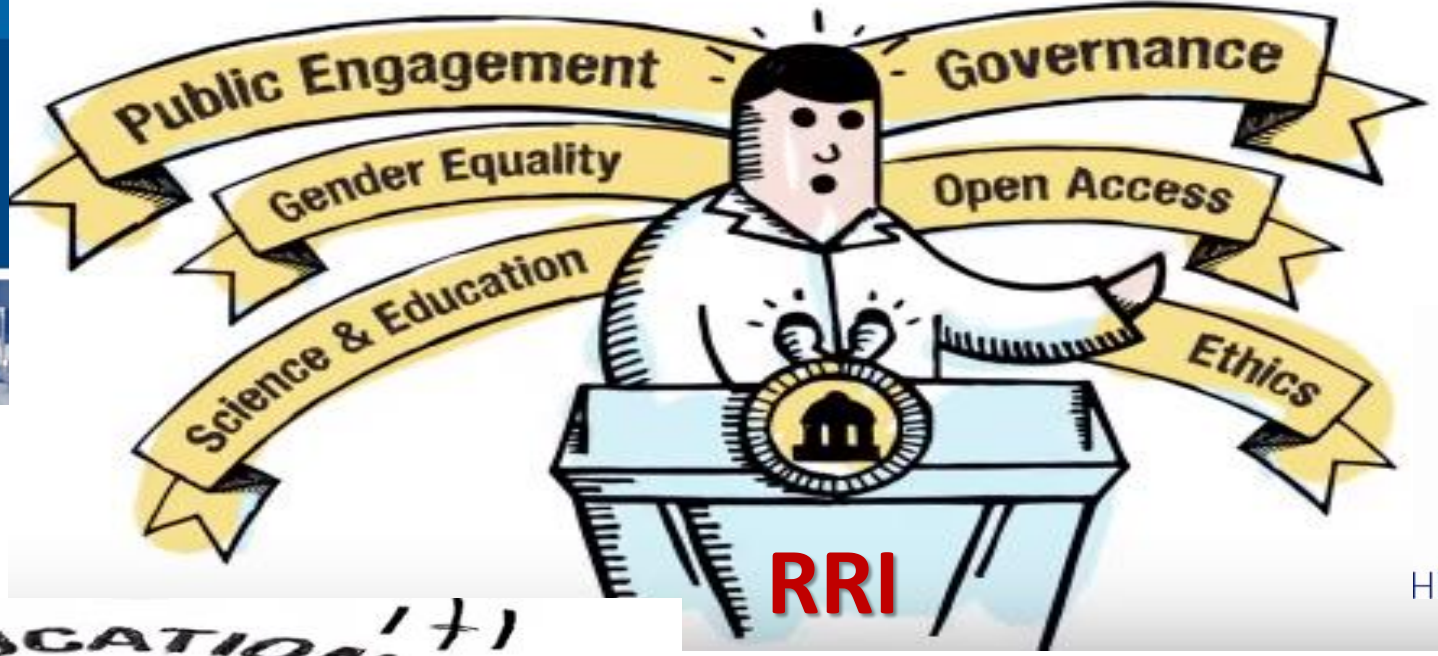
CONFERENCE

A NEW START FOR EUROPE

22-23 JUNE 2015
Charlemagne Building, Brussels

OPENING UP TO AN ERA OF INNOVATION

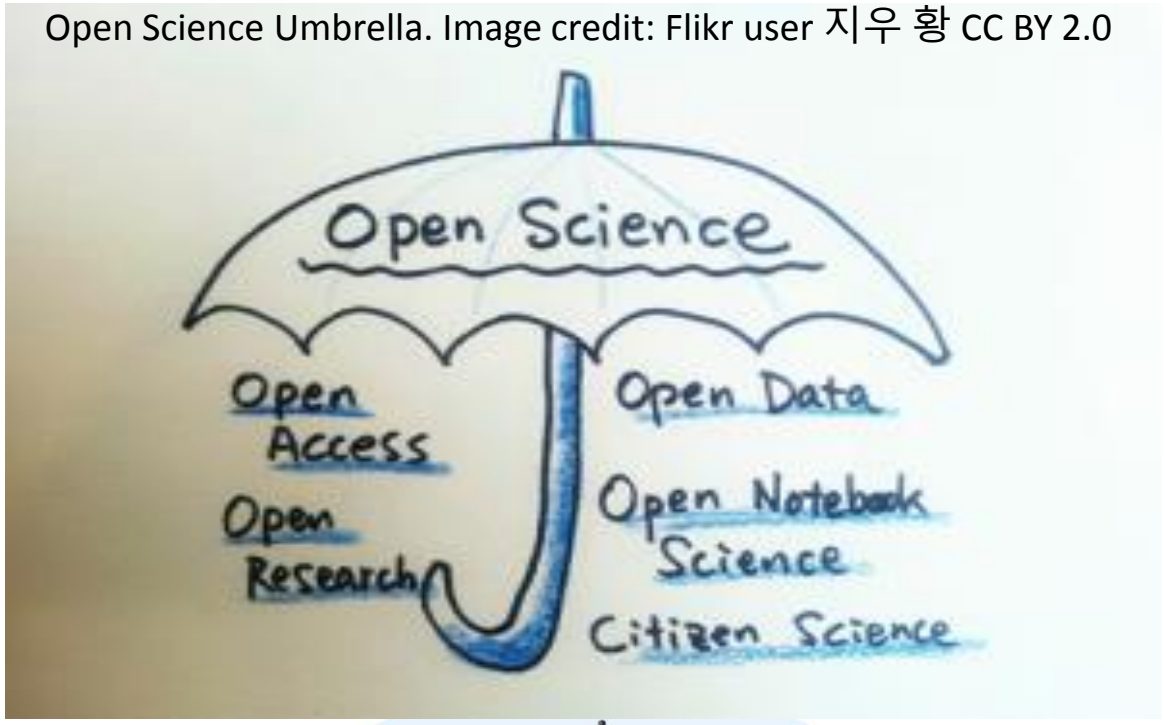




HR EXCELLENCE IN RESEARCH

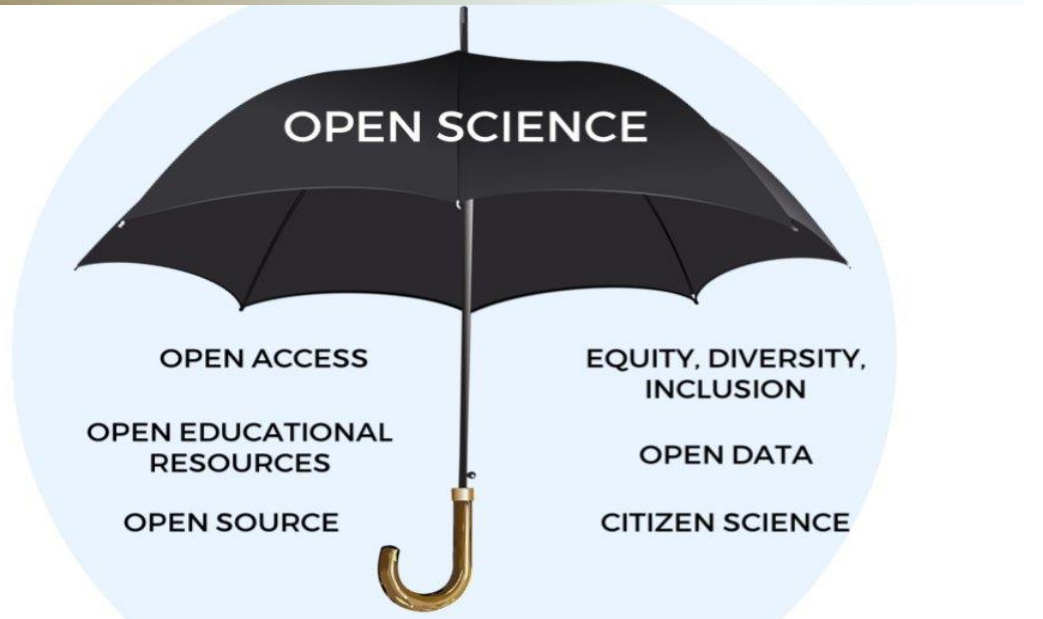
*… Where **openness** and transparency are an integral component of the research and innovation process*

Open Science Umbrella. Image credit: Flikr user 지우 황 CC BY 2.0



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

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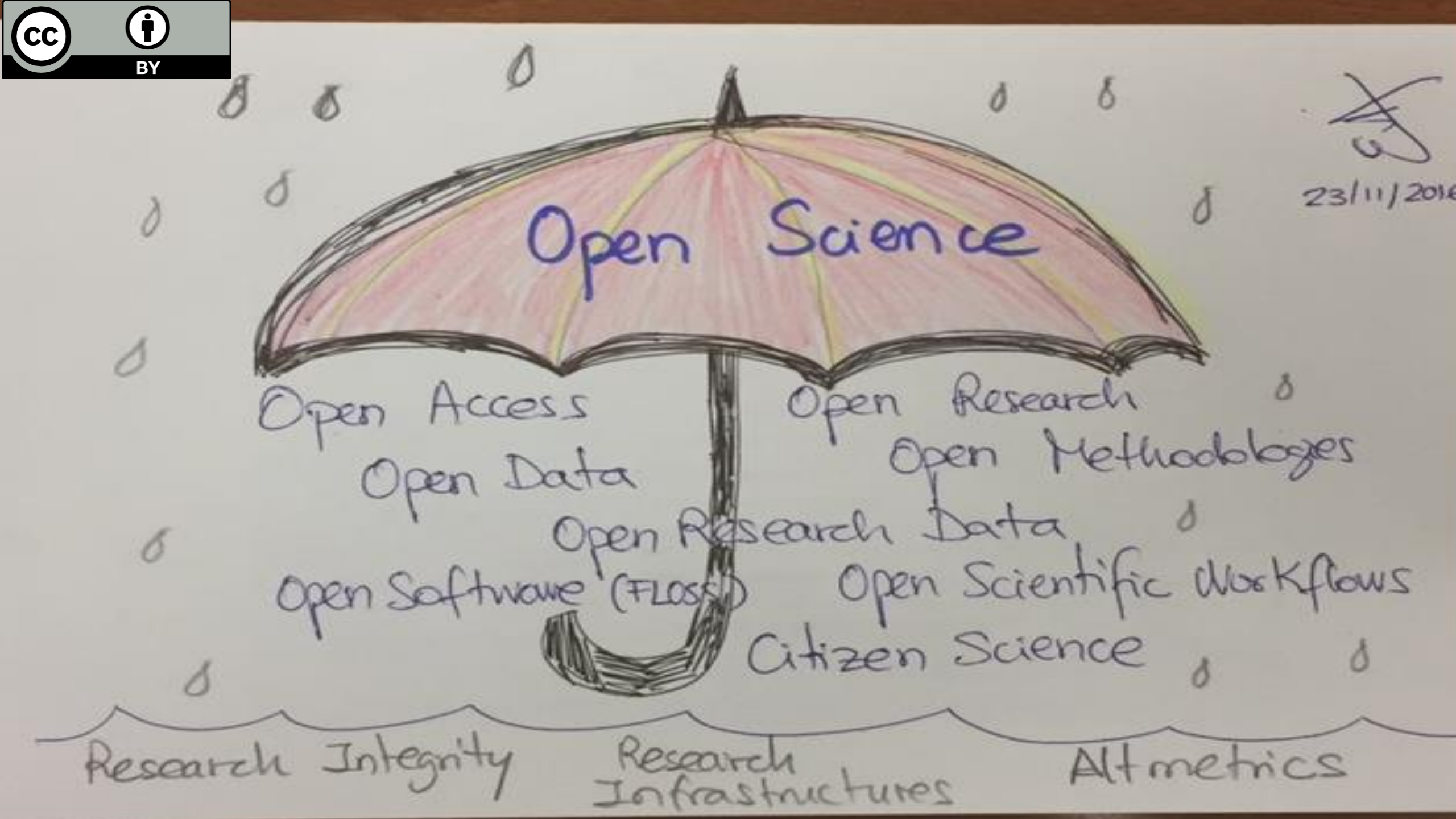
Open Science
23/11/2016
Open Access
Open Data
Open Research Data
Open Software (FLOSS)
Open Research
Open Methodologies
Open Scientific Workflows
Citizen Science
Research Integrity
Research Infrastructures
Altmetrics

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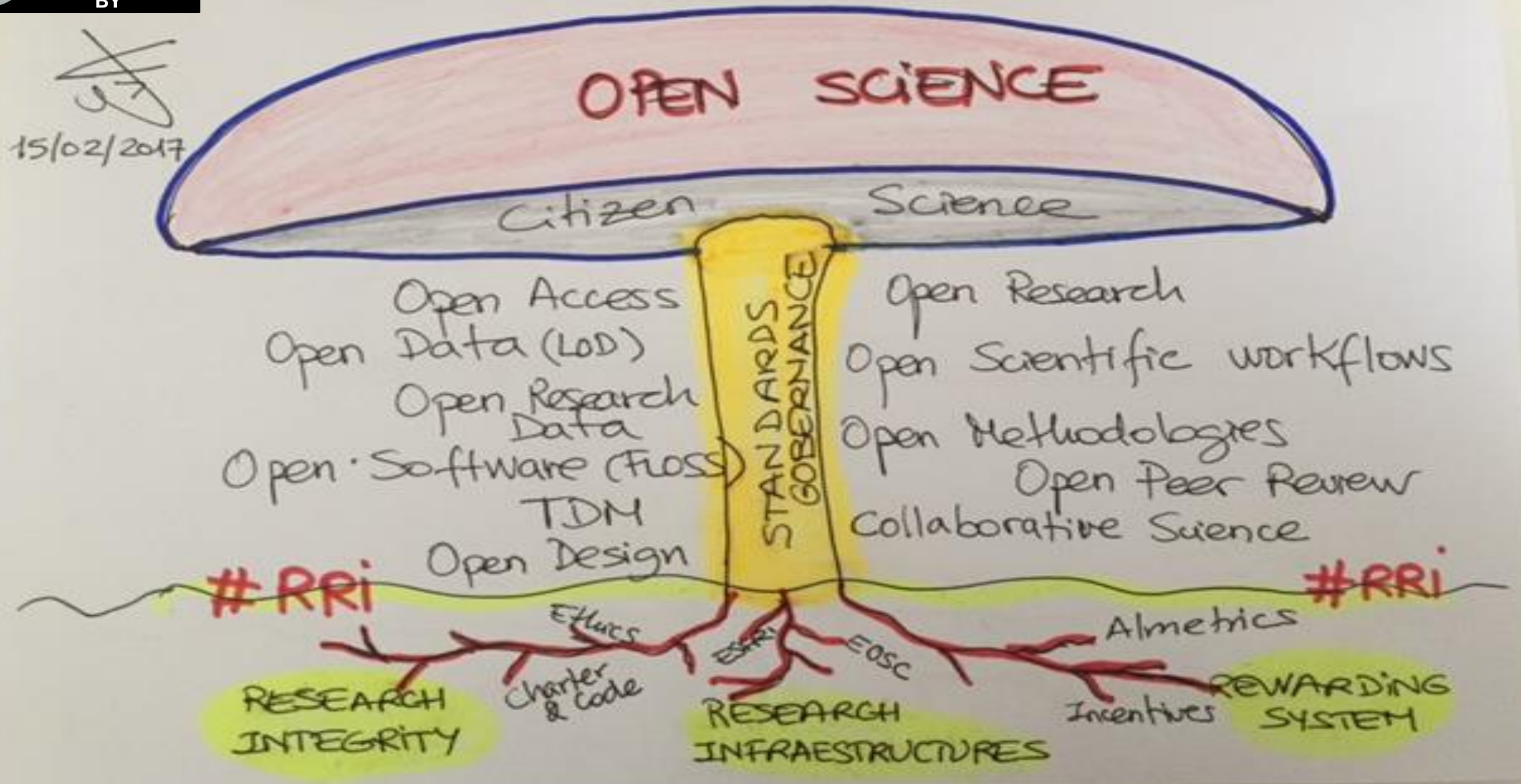
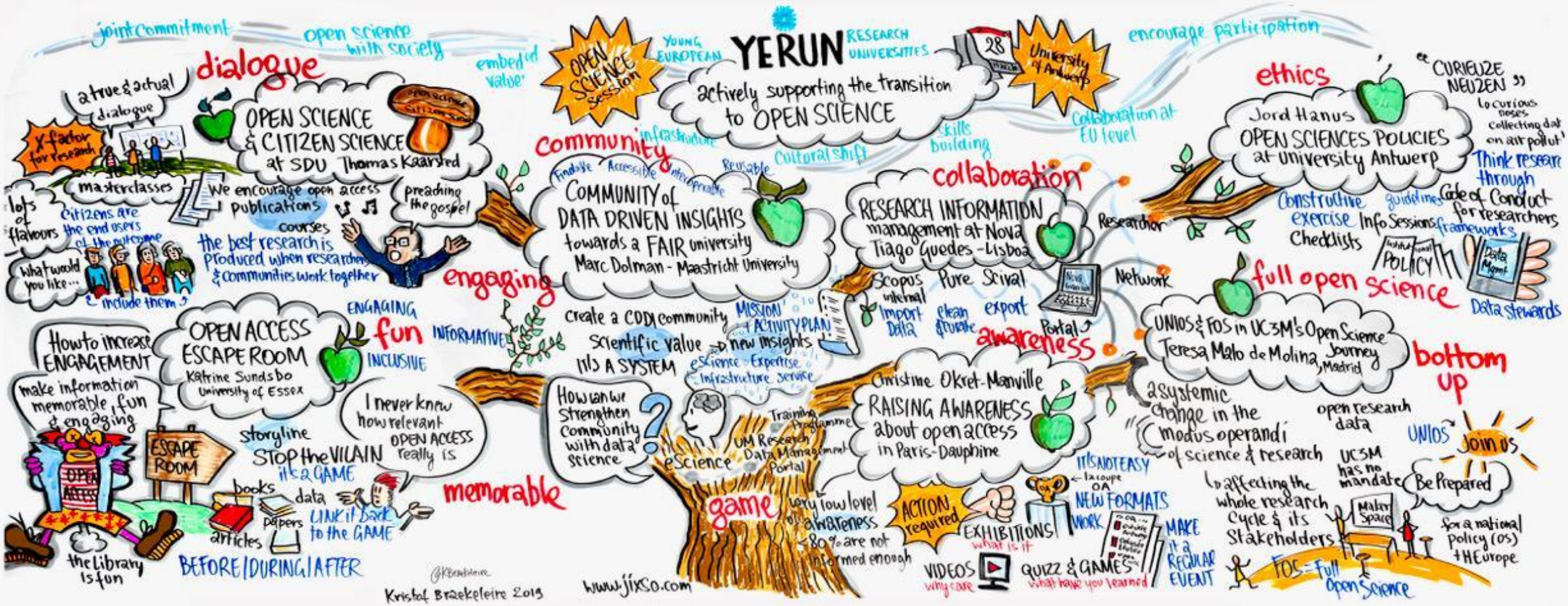
This picture is “in evolution” keep tuned @evamen



Yerun tree of Open Science

Young European Research Universities



Antwerp, March 2019

EU-OSPP (2016-)

Advise de Commission in OS

European Commission

DIRECTORATE-GENERAL FOR RESEARCH AND INNOVATION (RTD)

New policy initiative: The establishment of an Open Science Policy Platform

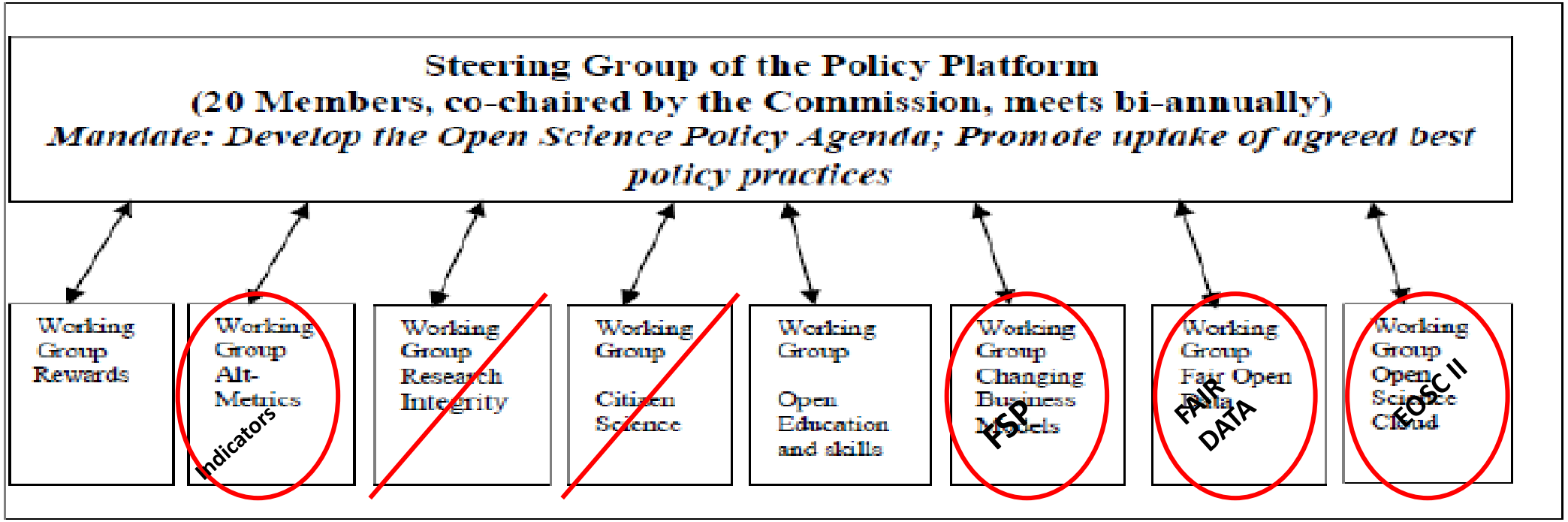
The Directorate-General for Research and Innovation (DG RTD) intends to set-up an **Open Science Policy Platform** to develop open science policy through a structured discussion with the main stakeholders.

Strengthening the dialogue with stakeholders will constitute an opportunity for developing, guiding, and monitoring Open Science. The Policy Platform will provide advice to the Commission on open science policy in Europe as well as on the coordination of those policies with stakeholders. The implementation of open science policy will be effectuated by the active advocacy of agreed policies by these stakeholders.

The Open Science Policy Platform will be governed by a Steering Group composed of top-leading individuals of (European) branch organisations with the required decision-power. DG RTD will seek to appoint individuals from the following stakeholder groups:

Promote uptake of agreed best policy practices (HLEG)

The working groups will engage with as many interested parties as possible and will embrace interactive online participation. The work and outcome of the discussions of the working groups will be widely shared with the research communities and interested public to give them the opportunity to contribute. All underlying discussion material, minutes and reports will be published on an interactive website of the Platform. There will therefore be room for a real exchange of views among peers and new actors.



OSPP: 25 miembros / 8 grupos

- **Universities:**
  - Norbert Lossau (EUA)
  - Kurt Deketelaere (LERU)
  - Karel Luyben (CEASAR)
  - Eva Méndez (YERUN), *chair*
  - Manuela Epure (ACEU)
- **Research organizations:**
  - Ernst Kristiansen (EARTO)
  - Michela Bertero (EU-LIFE)
  - Michele Garfinkel (EMBO)
  - Tuija Hirvikoski (ENoLL)
- **Academies/Learned Societies:**
  - Christophe Rossel (EPS),
  - Wolfram Koch (EUCHEMS),
  - Michela Vignoli (YEAR),
  - Sabina Leonelli (GYA)
- **Funding organisations:**
  - Matthias Kleiner. Science Europe
- **Citizen Science organisations:**
  - Johannes Vogel (ECSA)
- **Publishers:**
  - Michael Mabe (STM)
  - Paul Peters (OASPA)
- **OS platforms and intermediaries:**
  - Rebecca Lawrence (F1000)
  - John Wood (RDA)
  - Steve Cotter (GÉANT)
  - Sergio Andreozzi (EGI)
  - Natalia Manola (OpenAIRE)
  - Jennifer Edmond (DARIAH),
  - Jan van den Biesen. Business EU
- **Libraries:**
  - Kristiina Hormia Poutanen (LIBER)

http://ec.europa.eu/research/openscience/pdf/ospp_nominated_members.pdf#view=fit&pagemode=none

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

ERA & framework conditions for actors:

- European Charter for researchers
- Code of conduct for Research Integrity
- Charter for Access to Research Infra
- …

DSM & framework conditions for data:

- Copyright - TDM
- Data Protection
- Free Flow of Data
- …

European Commission

Open Science Policy Platform

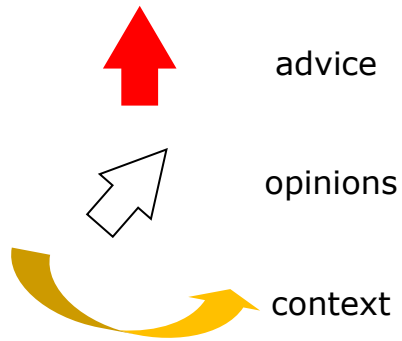
Wide input from stakeholders:

- ad-hoc meetings and workshops
- e-platform with wider community
- *reports and independent experts*

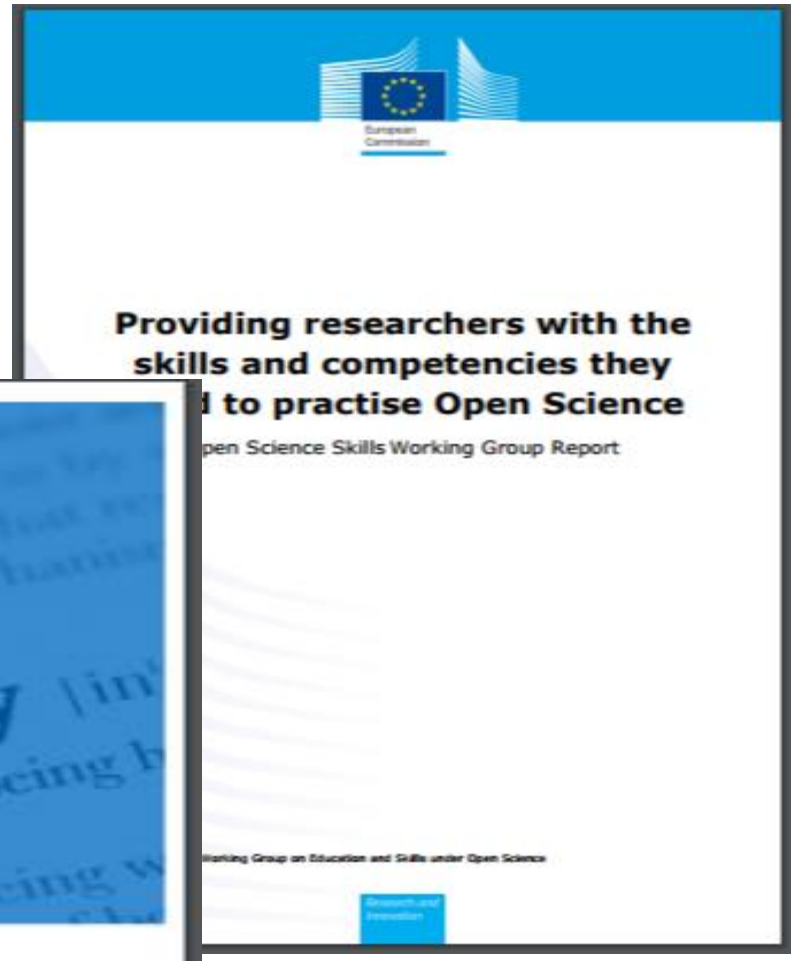
- ✓ *HLEG on EU open science cloud (I and II)*
- ✓ *HLEG on altmetrics → Next generation metrics*
- ✓ *HLEG on careers & skills*
- ✓ *HLEG on rewards*
- ✓ *HLEG on Future of Scholarly Communication*
- ✓ *HLEG on FAIR open data*

European Open Science Agenda:

- OA publishing models
- FAIR open data
- Science Cloud
- Alternate metrics
- Rewards & careers
- Education & skills
- Citizen Science
- Research integrity
- …



Evaluation of Research Careers fully acknowledging Open Science Practices
Rewards, ince


Providing researchers with the skills and competencies they
l to practise Open Science
pen Science Skills Working Group Report

ALLEA
All European Academies
integrity
The European Code of Conduct for Research Integrity
REVISED EDITION

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 Agenda[6], 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

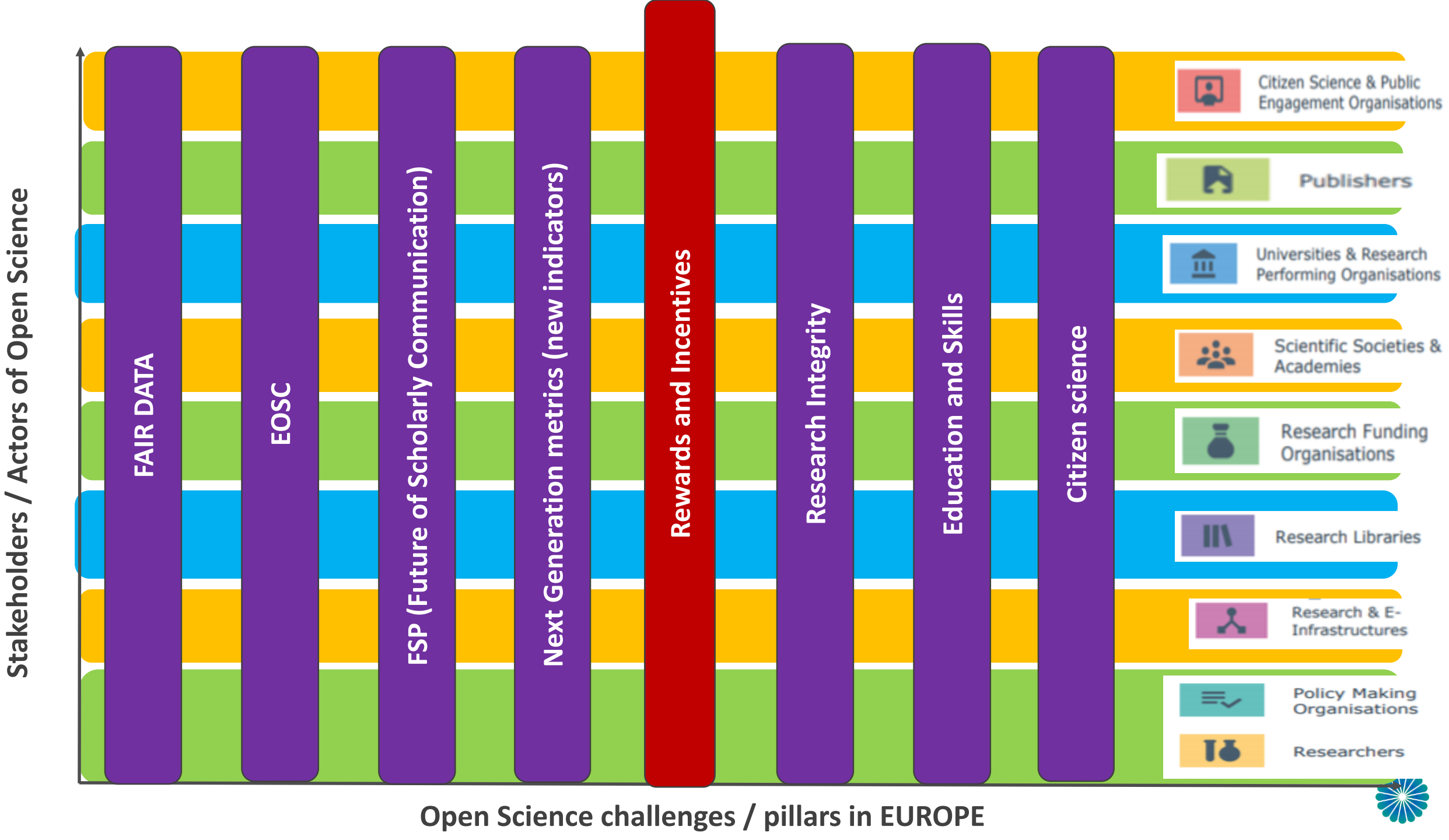
The major stakeholder groups (as listed in the key below) who have the main responsibility to drive the actions stated in the recommendations have been listed alongside each one.

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

Institutional answers to OSPP-REC

http://bit.ly/OpenScienceYERUN

https://www.leru.org/files/LERU-AP24-Open-Science-full-paper.pdf


Stakeholders / Actors of Open Science
FAIR DATA
EOSC
FSP (Future of Scholarly Communication)
Next Generation metrics (new indicators)
Rewards and Incentives
Research Integrity
Education and Skills
Citizen science
Citizen Science & Public Engagement Organisations
Publishers
Universities & Research Performing Organisations
Scientific Societies & Academies
Research Funding Organisations
Research Libraries
Research & E-Infrastructures
Policy Making Organisations
Researchers
Open Science challenges / pillars in EUROPE

Where we are? Among REPorts (4)& RECommendations (87)

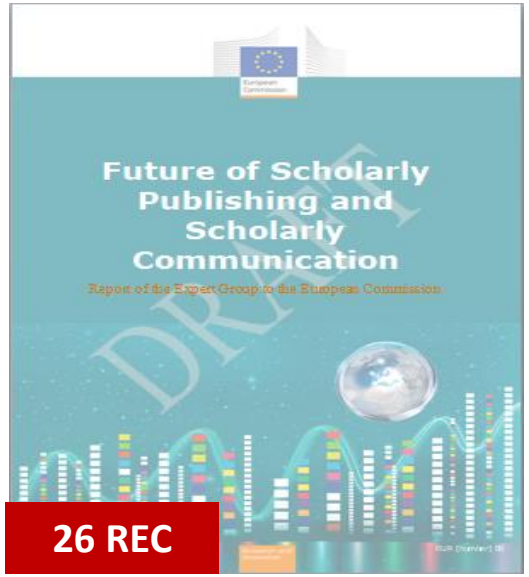
27 REC

European Commission

Open Science Policy Platform

Wide input from stakeholders

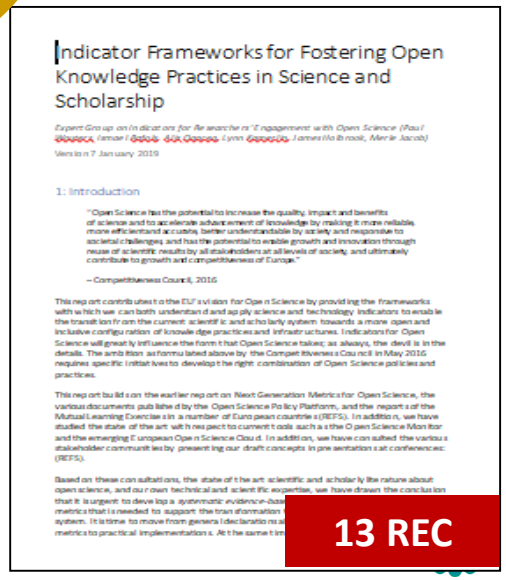
- Ad-hoc meetings and workshops
- Communication with stakeholders



26 REC

HLEG on FAIR open data
HLEG on EOSC II
HLEG on Indicators
HLEG on FSC

32 REC


Indicator Frameworks for Fostering Open Knowledge Practices in Science and Scholarship

13 REC

Challenges

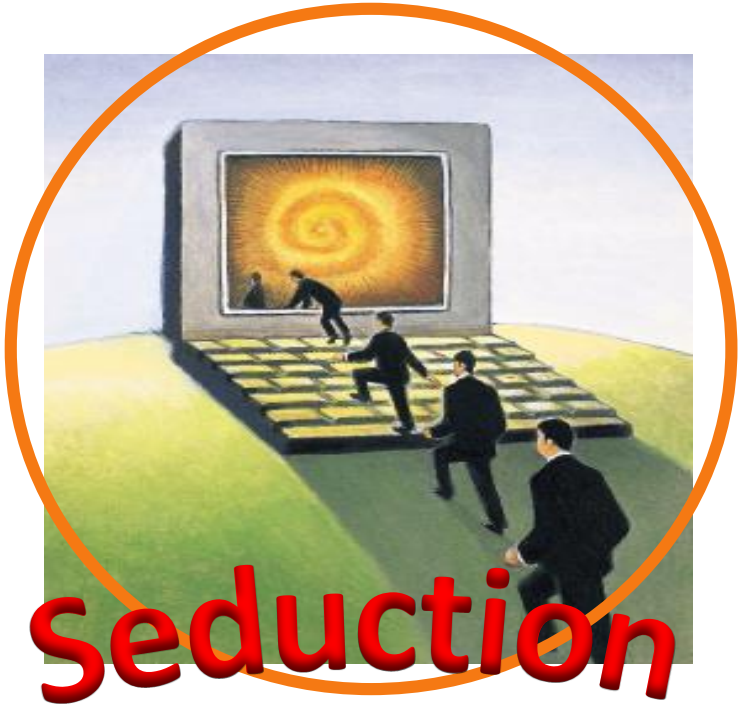
Challenges = Building blocks

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).

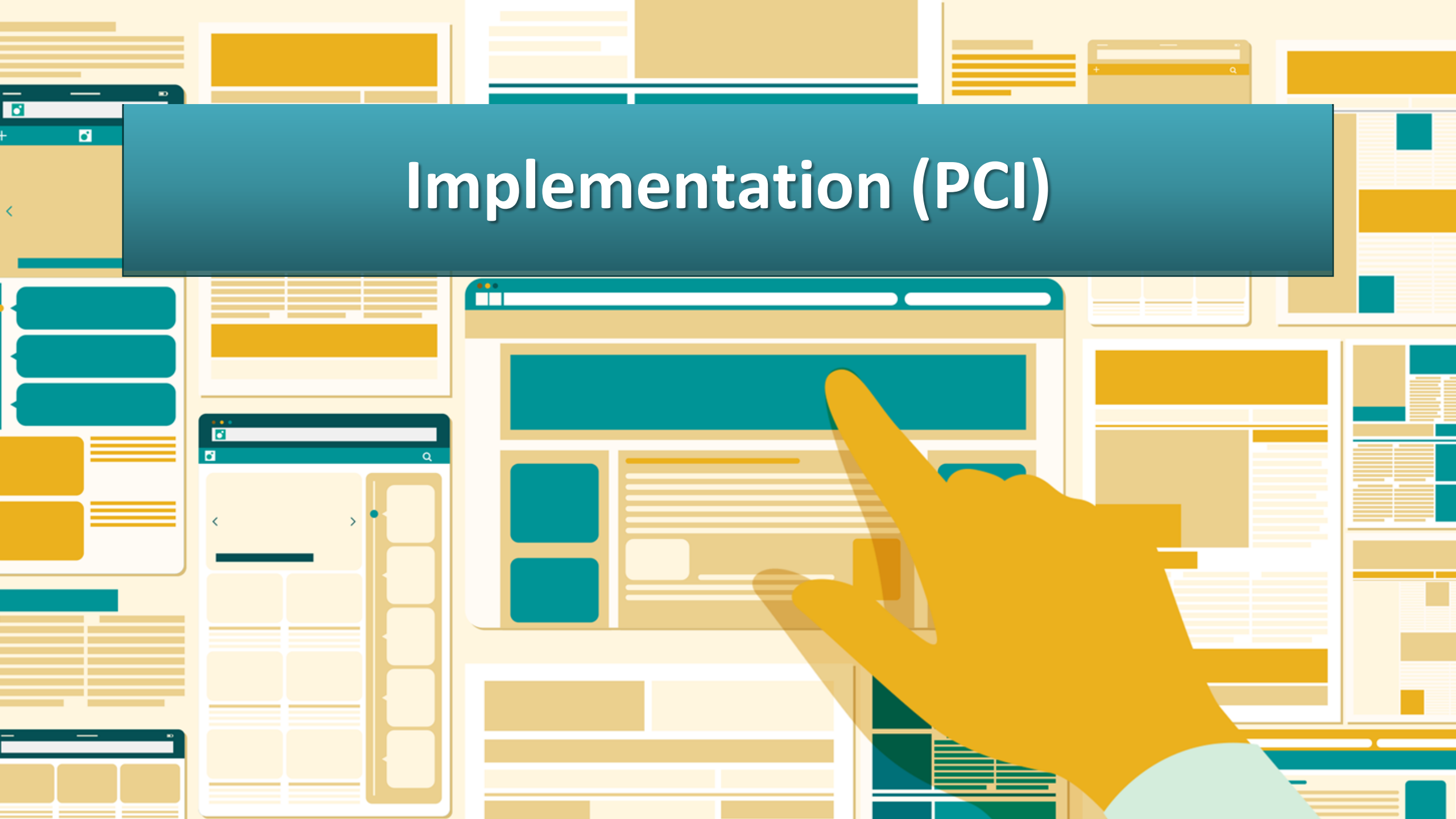
Challenges

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

Motivators of will… (for academics)

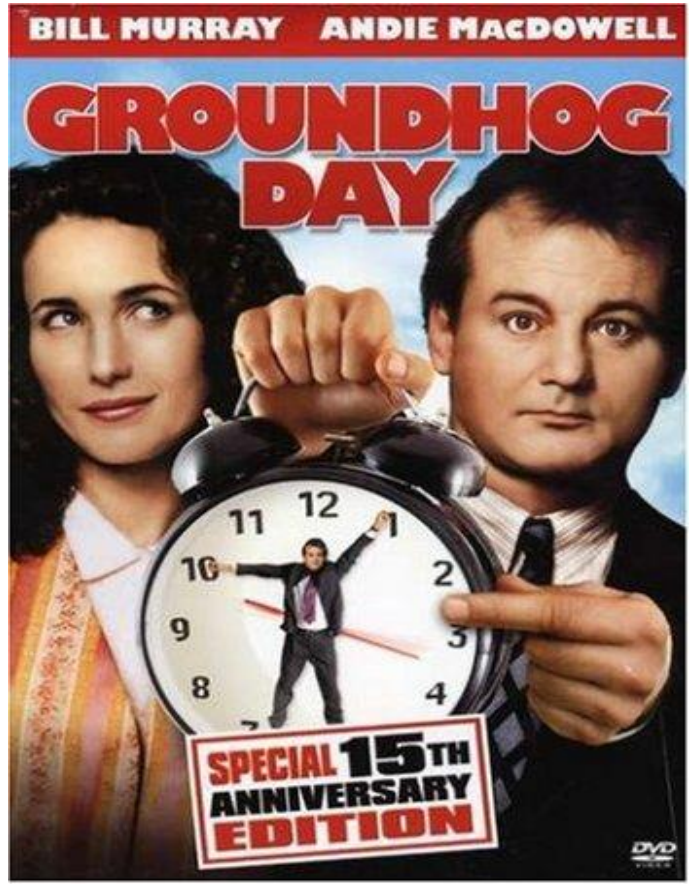


Implementation (PCI)



OSPP-M2

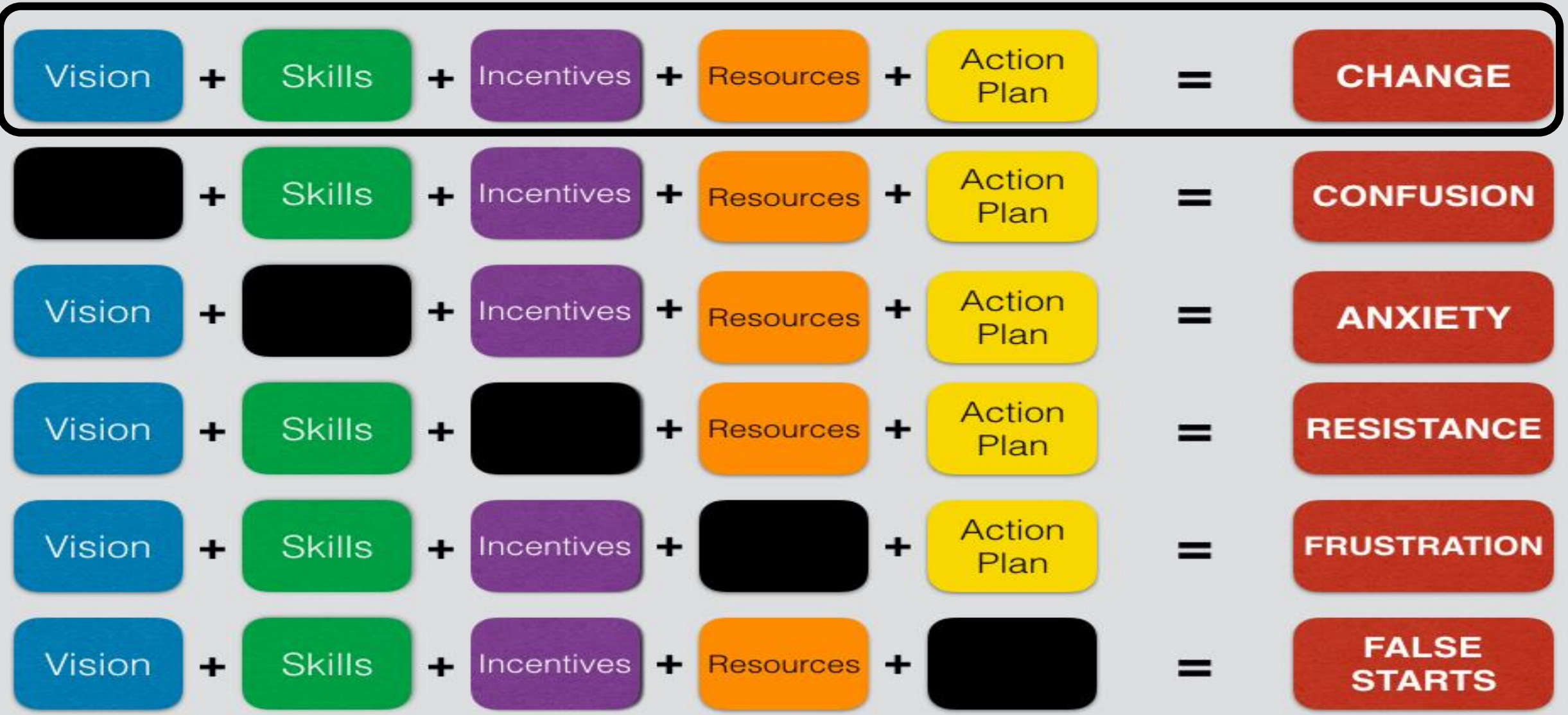
From RECs & Declarations to PCIs



EU-OSPP (M2)

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

Managing Complex Change



Adapted from A Framework for thinking about systems change (2000) Knoster T, Villa R, & Thousand J

Based in Knoster Model

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…

What are PCIs…

- **Commitments**
- Actual, **realistic** and **affordable**… in a level where the proponent has “jurisdiction”
- **Effect** → real **implementation**
- Answer to the question: *What **CAN** I do to… implement Open Science…*
- Open science at “action level” (**practical**)
- **[Alignment** at MS level →**]**

PCIs example: PlanS (founders)

https://www.coalition-s.org

PCIs example: Member State

http://www.ouvrirlascience.fr

First **commitment**: generalise open access to publications

Second **commitment**: structure research data and make it available through open access

Third **commitment**: be part of a sustainable European and international open science dynamic

PCIs example: repositories/u.Libraries

https://universityjournals.eu

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

Action Plan

Yerun Young European Research Universities

- **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

Thank you!

emendez@bib.uc3m.es

@evamen

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