ROME 12 March 2019

Open Science Challenges and PCIs: reflections for Member States

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Chair of the European Open Science Policy Platform





Just a reminder!! ... happy birthday WEB



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.

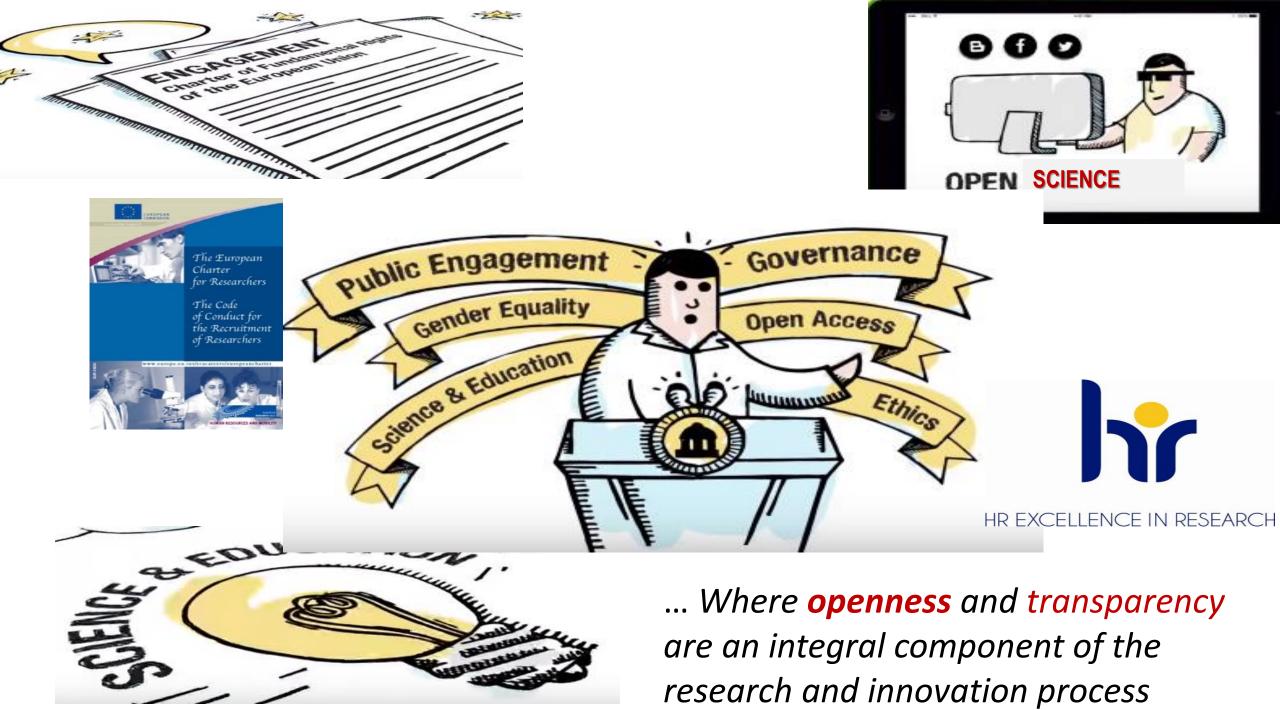
Sir Tim

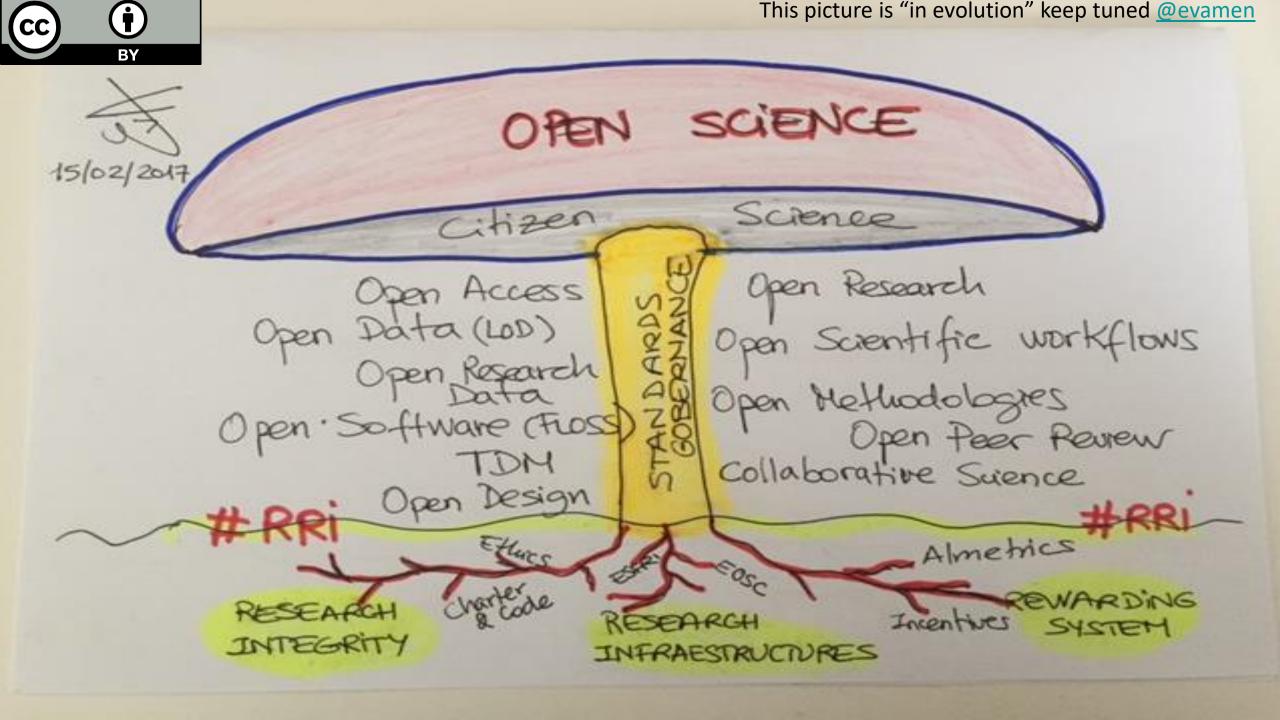
https://webfoundation.org/2019/03/web-birthday-30/

30 years on, what's next #ForTheWeb?

Outline

- Concept... and the OSPP
 - Context (RRI, HRS4R, H2020/Eu...)
 - Open Science: WHAT and WHY?
- Challenges... the EU Agenda on OS
 - Cultural Change
 - Rewards and incentives system
 - Motivators of will
- Implementation... at a MS level
 - Open Science... HOW?
 - PCIs: Practical Commitments for Implementation





OSPP: 25 members / 8 groups

• 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)



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

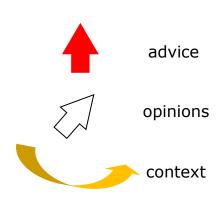


Wide input from stakeholders:

- 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**

The European

REVISED EDITION

Research Integrity

Rewards, ince









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 longerterm 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



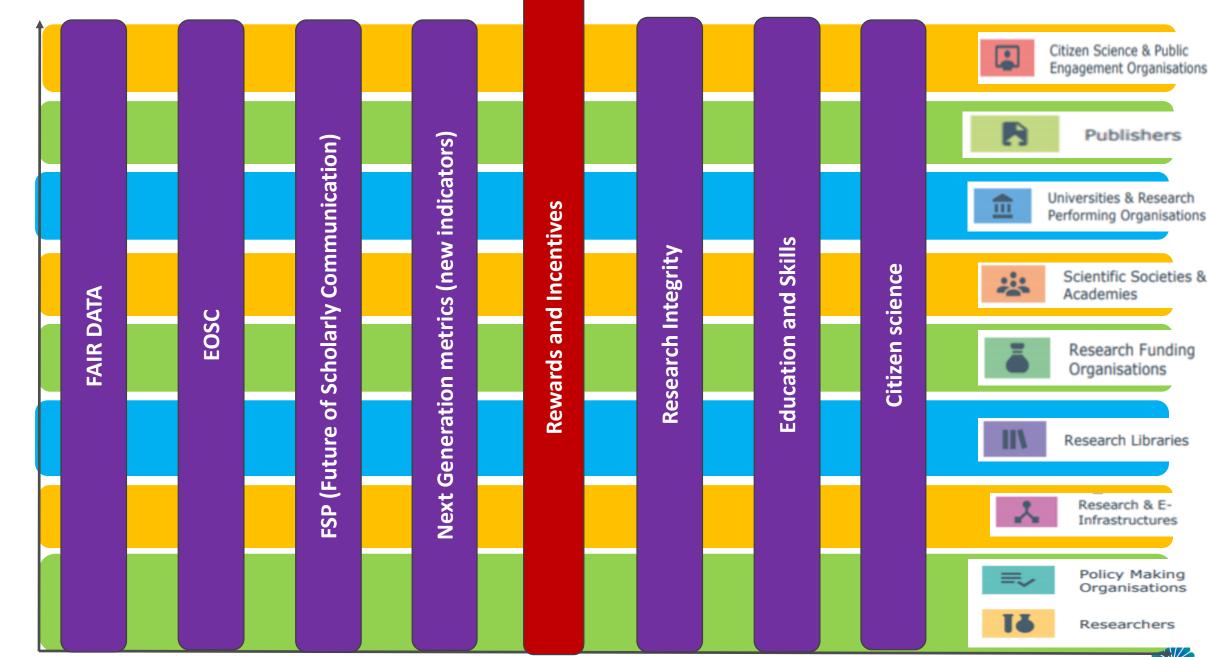
Researchers



Scientific Societies & Academies



Citizen Science & Public Engagement Organisations



Open Science challenges / pillars in EUROPE

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



European Commission



Open Science Policy Platform





- Ad-hoc meetings and workshops
- Communication with stakeholders

Future of Scholarly
Publishing and
Scholarly
Communication
Report of the Expert Group to the European Communication

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



Indicator Frameworks for Fostering Open Knowledge Practices in Science and Scholarship

Expert Group on In dicat on for Researche or Tagagement with Open Science (Paul Spaces, Ismae I Babb, 513, Openes, Lyon Expert), James Ha Brook, Mer in Jacob Version 7. January 2019

1: Introduction

"Open Science has the potential to increase the quality, impact and benefits of actions and to execute advancement of increading the more reliable more efficient and accused, so the model to the process of the potential or accided to the potential or accided to the potential or accided to the potential or exceeding growth and or innovation through reases of scientific results by all etakinoiders at all levels of societa, and ultimately contribute to exceed a contribute or societal contributes or societal accident and the potential or societal accident and the potential or societal accident accident

Competitiveness Court II, 2016

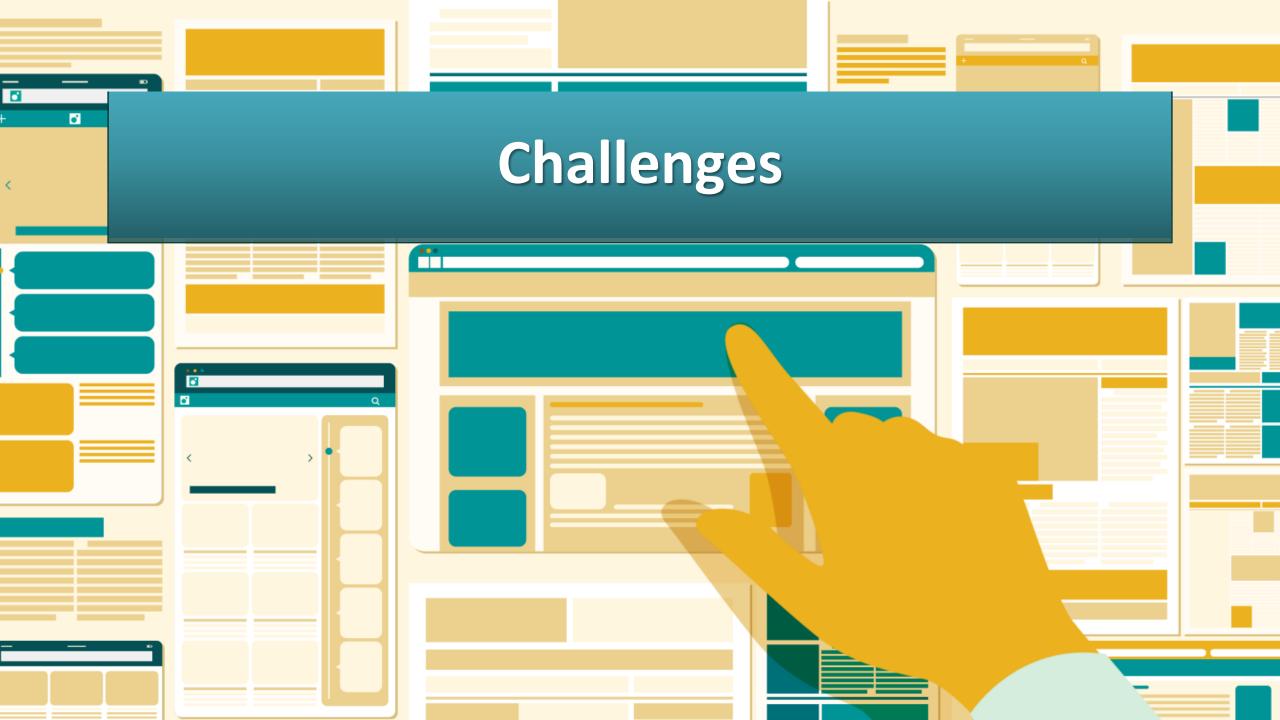
This right is contracted by the contracted of seal of poly in the case of the contracted by the contracted of seal of poly in the case of the contracted by the case of the ca

Thinking on the list for the earlier report on Niest Generation Metrics for Open-Science, the various documents push liber do tyth of logen-Science Polls (Palfatorm, and the reports of the Mutualia learning Exercise is a number of Euro pean countries (EPETS). In addition, we have trained the state of the act with the report to current to loss such as the Open Celebra Minister and the emerging if unspean Open Ticlence Close if in addition, we have consulted the various limited of the control of the Celebra Close is not designed to exercise in personal control as to Celebra and the designed in the control of the Celebra Close is not designed to expend in personal control as to Celebra control of the Celebra Celebra Close is a control of the Celebra Close in the Celebra and the Celebra Celebra Celebra Celebra Celebra Celebra Celebra Celebra and the Celebra Celebra Celebra Celebra Celebra Celebra Celebra Celebra and the Celebra Celebra Celebra Celebra Celebra and the Celebra and t

Based on these consultations, the state of the art scientific and scholarly lite rature about open science, and our own technical and scientific expertise, we have drawn the conclusion that it is ungest to develop a systemostic evidence-box.

tract is surgarit to develop a systemoric evidence-or metrics that is needed to support the transformatio system. It is time to move from general ideclarations

13 REC



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

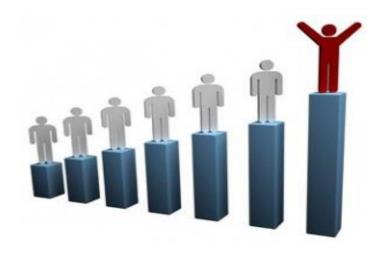
- Cultural change (researchers mindset)
 [Darling, we need to talk!!]
- Education (Skills) → training ECR but also senior researchers
- Attitude CC: Conviction & Confidence >
 Demonstrate the impact of Open Knowledge
- Strategic alignment internal policies



Motivators of will... (for academics)







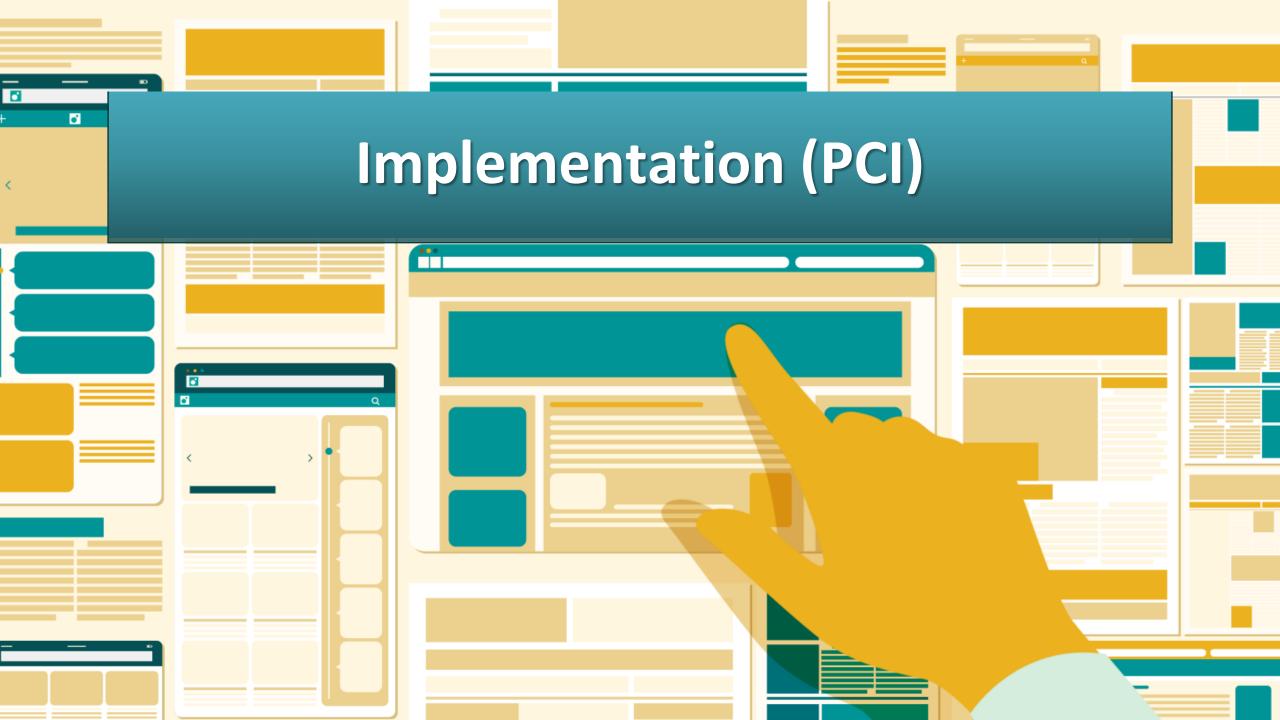
SEDUCTION



Make it very easy...

Motivate...

Help...



EU-OSPP (M2)

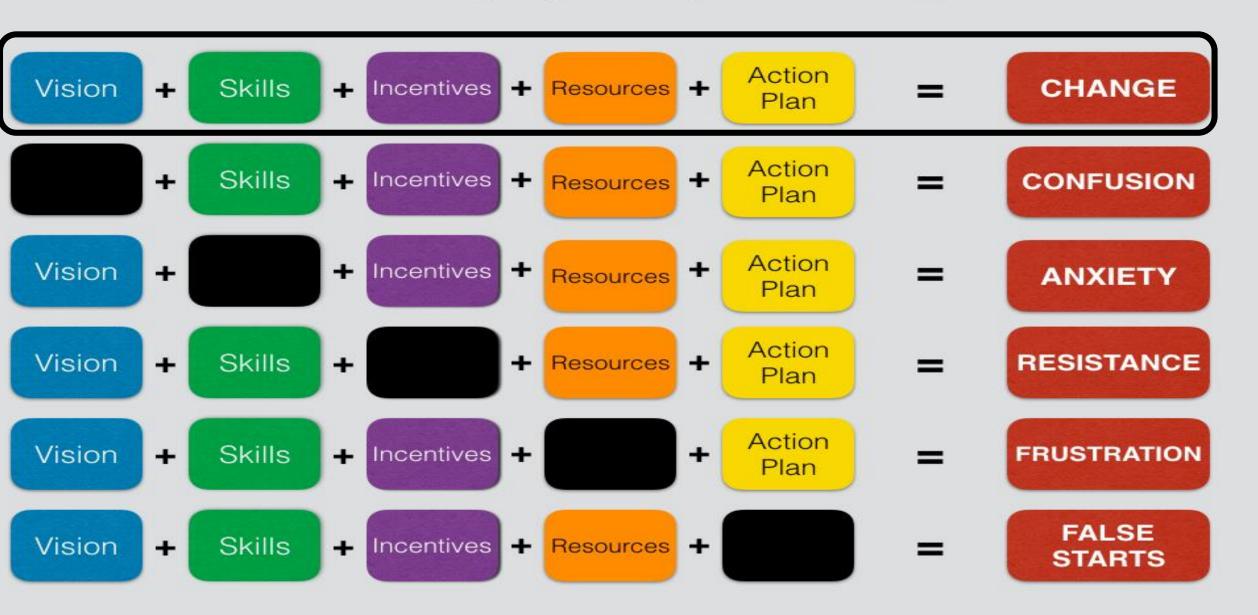
- Communication and engagement (@euospp)
- Change from *Declaration mode* to the *Implementation mode*.
 - → from REP&REC to PCIs
 - → From #YAD to #NPCI
- Map all the projects working in Open Science (eInfras, SWAFS, etc.)
- Align MS policies. Align OSPP-MS objectives

Open Science: HOW (in a MS)?



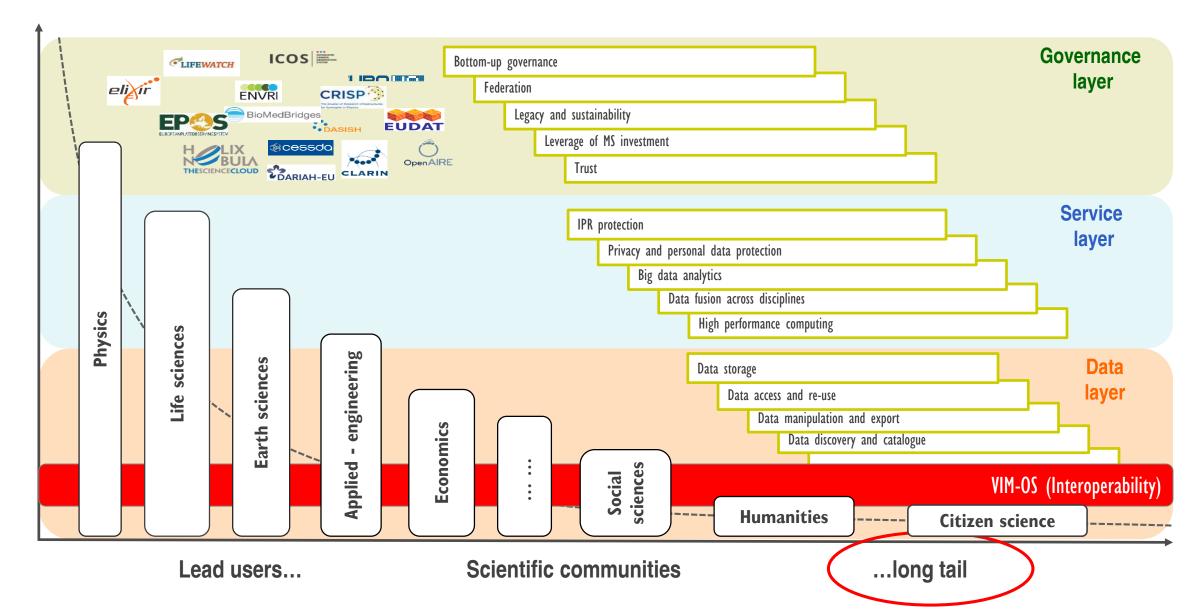
- How to incentivize the systemic change?
- How does it affect our researchers?
 Promotion, research assessment...
- How does it affect our research infrastructures? New ones?
- How does it affect our T&Learning? →
 Data literacies? (skills)
- How does it affect to our researcher's
 behavior (research integrity)
- → Public Institutions + **Transparency**

Managing Complex Change



EU Open Science Cloud & FAIR(RR) DATA

Based on Burgelman



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

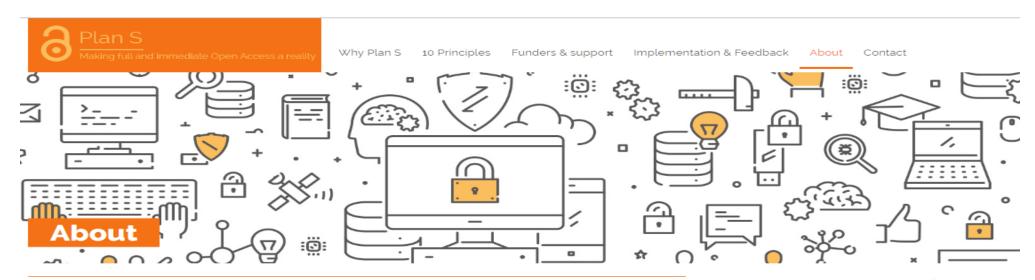
- Shift from "declaration/recommendation mode" → to "implementation mode"
- You, at your institution, at your office, with your attributions, etc. what can you do for Open Science? (regarding the 8 challenges, and taking into account your condition as stakeholder...)
 - I am a researcher....
 - I am a policy maker...
 - 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 o Impleme
- > <u>Partio</u>
- > <u>Preš</u> <u>Eur</u>
- > Stat



PCIs example: RESEARCHER

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

ANXO SÁNCHEZ

HOME

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, <u>Plan S</u> is an initiative

RESEARCH

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 coalitions.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-...

Q1 175







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: Member State (ITALY)

Thank you!



emendez@bib.uc3m.es

@evamen

