Obstacles to Open Science and how they can be overcome

1. Does Open 'Science' exist?

2. Learning to walk…

3. …Before you can run

4. Open Science - Open Risk?

5. Suffocating Knowledge

6. Open Culture, not Science

Does Open '*Science*' exist?

- Different disciplines relate to Openness in different ways
- Need to challenge ourselves as we engage in interdisciplinarity
- Encourage different subjects to use openness in new ways – e.g. citizen science

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Learning to Walk…

Model of Sharing: how do you recognise Intellectual Property? How do you ensure rigorous application of research ethics?

➢ Open Science Policy Platform
➢ Training (of researchers, of the public); Transferrable Skills Training of PhD programmes (…)
➢ New ways of teaching students (and learning from them….)

✧ How do you bring together Research and Education, Employment and Skills?

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…Before you can Run

➢ Some very good progress being made e.g. on Open Science Cloud, e-infrastructures, etc.
➢ Part of European Research Area (ERA) or deflecting from it?

✓ Need to retain focus: ERA, Open Science….Open Innovation
✓ infrastructure is the easy part – the challenge is how we use it – and what kind of sharing the Cloud will allow

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Open Science – Open Risk

- Careers and Promotions (including early researchers)
- How are we evaluating excellence based on sharing?
- How does a peer review system in disciplines where Open Science is not the norm recognise quality in Open Science? ERC panels? H2020 peer review?

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Suffocating Knowledge

We must break Oligopoly of publishing houses, overcoming self-interest of :
- ✓ Scholarly Societies
- ✓ Academics
- ✓ Economics Ministries/Publishers
- ✓ University Presses

➢ Co-ordinated support from the Commission, supporting research and innovation

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Open Cultures…

- Cultures of engagement, cultures of practice
- Cultures of working, and of knowing
- Cultures of engaging ('closed' and 'open' science)
- Cultures of institutions
- Cultures of challenge (not all openness is good….)

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Thank You!