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Eleven Strategies for Making Reproducible Research and Open Science Training the Norm at Research Institutions

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Tools

Specific tools mentioned - their function - where in the researh process used

- Virtual conference - networking and sharing ideas - all
- COARA - fairer way of assessing research output than impact factors - dissemination
- SCOSS - application for funding to be able to publish with open science standards - dissemination

Organizational structure for open collaboration

Systematic changes to promote Open Science

- Make open science necessary for the curriculum in universities (Munich university as example) and add courses that touches on openness, preregistration, etc.
- Thesis are required to have open science elements to them. Including collaborative thesis
- Open Science requirements in the CV needed to hire individuals
- Carefully define the scope of the project, Ensure that you have adequate support
- Foster accessible discussions (Consider running “beginner” and “advanced” community meetings)
- Build communities:Organize regular meetings

Educational perspectives

- Here education is the central aspect of the structure to build open science the norm in an institution
- Offering open science courses, but also integreate open science in other courses
- Hands-on training is the best way to learn, some ways of doing this is by making courses more interactive or have research groups go on open science courses. Some of the courses or examples can be replications or collaborative thesis.
- Perform replication or meta-research studies as course projects
- An essential part of education is allowing for spaces where researchers can work, such as journal clubs, resource hubs or hackathons.

Barriers

Barriers for open science

- Allocation for resources.
- In general all the things required to change expressed in the topics above: open science not being part of the standard curriculum of universities or a required skill for when hiring. The lack of spaces and infrastructure to network and collaborate. Innovative papers being preferred by mainstream media than replications.

Bibliography