

Open Science to Increase Reproducibility in Science (OSIRIS)

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Creating Trust in Open Science & Reproducibility through Accessibility and Transparency

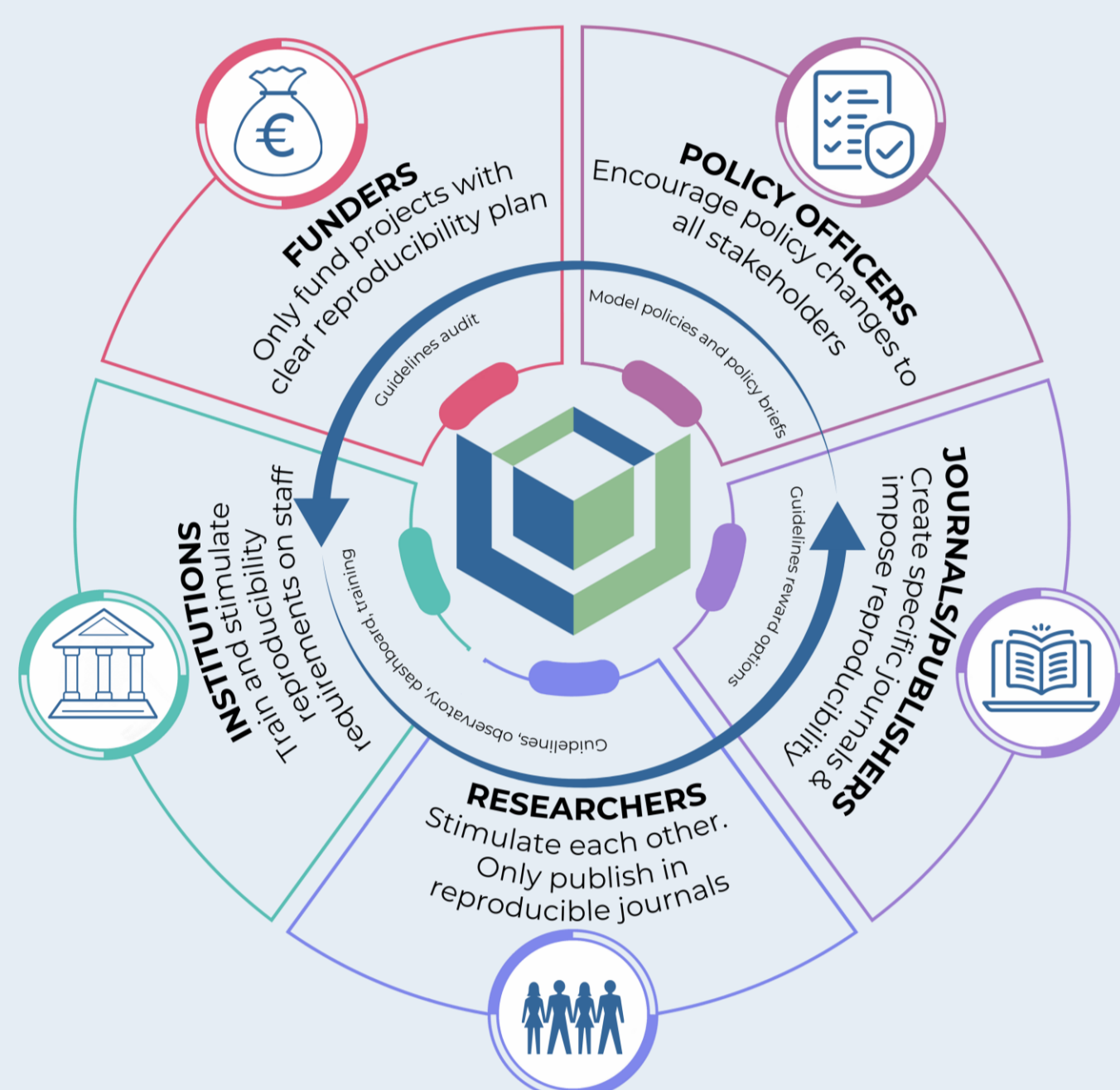
Ambition: facilitate **paradigm and culture shift** to reform the R&I system both from the top down ↓ and the bottom up ↑ to guarantee the trustworthiness of science

OUR AIMS

- ✓ Gather knowledge on the drivers of reproducibility issues
- ✓ Test evidence-based solutions
- ✓ Identify incentives for reproducibility among stakeholders
- ✓ Embed reproducibility in research design

Crucial role: Open Science practices foster a culture of openness and accountability

IMPACT, TOOLS & MATERIALS



- ❖ **OA publications:** review, interviews, FGs, RCTs
- ❖ **Webinars:** to introduce the methodologies, share good practices & project results and activities
- ❖ **MOOC:** to disseminate our established training program
- ❖ **Training materials for researchers:** on increasing reproducibility
- ❖ If successful, the **OSIRIS networks and observatories** will be kept online: foundation for aligning practices, continued EU-wide

OUR RESEARCH ACTIVITIES

Drivers, barriers and facilitators for reproducibility of research	Interventions to improve reproducibility for researchers and institutes	Interventions to improve reproducibility for funders and journals	Training and guidance
- Scoping review & evidence maps - Interviews - Focus groups - Audit policies - Audit OSIRIS - Case studies	- Computational reproducibility checks - Methods reproducibility checks - Observatory dashboard - Testing interventions	- Observatory dashboard - Observational study - Interventions journals - Interventions funders	- Round table - Training resources - Testing workshop - Run training workshop

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INVOLVEMENT OPPORTUNITIES

- **Researchers:** Interviews, Reproducibility Networks, RCTs (paper submission and follow-up RCT), Roundtable on key insights and findings of our research, co-creation & testing of training materials
- **Journals:** RCT to test automated machine systems and manual checks
- **Funders:** RCT to test guidance for reviewers of grant proposals
- **Other stakeholders:** Focus Groups