



TIER2's activities to foster a next-level funders community in reproducibility

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TIER2 in a nutshell

- TIER2: enhancing Trust, Integrity And Efficiency In Research through next-level Reproducibility
- Investigate reproducibility in social, life, computer sciences, plus funder and publisher contexts
- Co-creative approach to creating and evaluating new reproducibility tools and practices
- €2mil from EC Horizon Europe and UKRI
- January 2023 to December 2025







TIER2 methodological steps

USE CASES



Social Sciences - Life Sciences - Computer Science/Al Publishers - Funders

TIER2 Funder's Forum

Funder's Forum – October 2023

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- Facilitate knowledge sharing
- Identify actions and policies already in place
- Facilitate coordinated efforts around repro at a funding level

"Quest for reproducibility -Forming a next-level funders community": A summary of the first TIER2 funder workshop

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Pilot 5 – Reproducibility Promotion Plan for Funders (RPP4F)



<u>Research question</u>: What can funders do to foster reproducibility?
What does policy in the form of a reproducibility promotion plan look like?

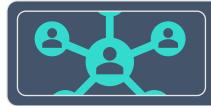
- <u>Aim:</u> Develop a policy template with recommendations for funders to foster reproducible practices in the research they fund
 - <u>Aim</u>: Identify how the RPP4F can be applied & barriers and enablers for implementation



Co-creative Design Methods



Co-creation of Reproduibility Promotion Plan (RPP4F)



Co-Creative Workshop 1

• Discussion: Prioritise main reproducibility themes & actions



Co-Creative Workshop 2

• Discussion: Develop specific recommendations & barriers and enablers



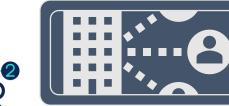
Draft Reproducibility Promotion Plan for Funders

• Gather wider community feedback



Piloting Round 1

Initial Implementation



Piloting Round 2 & 3

• Implementation & Evaluation @ 6 Months & 1 Year

2 Design

3 Implement

4 Assess

Themes of the RPP Template



Common language allowing for bottomup domain-specific definitions that align with funders high level values & policy.

The "How"

| | \checkmark |
|---|--------------|
| _ | ✓ |
| _ | ✓ |
| _ | ✓ |

- Guidance for researchers with best practices
- Utilise existing infrastructure, integrate into evaluation, to reduce burden in monitoring and supervision/guidance
- Motivation
- With targeted language, funder rationale for importance of repro is clear, facilitating researcher motivation

- Increasing visibility, build repro language and incentives into call topics, funding budget lines, and evaluation criteria
- Strategies to encourage vs require, in line with funder approaches

Monitoring

Definitions of Reproducibility Incentives & Rewards

 Aligning repro monitoring with existing policies & infrastructure, and coordinate with existing peer review processes



3 Implement

Next steps

 End product: RPP template + recommendations for implemention in different contexts

- Community Feedback
- Piloting: working with funders to use the RPP4F temaplte to create their own RPP

Call to action – Join the TIER2 Funders Forum







Enhancing Trust, Integrity and Efficiency in Research through next-level Reproducibility

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Thank you & Questions

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https://tier2-project.eu/





Strategic priorities: The TIER2 approach



Ross-Hellauer T et al. (2022) TIER2: enhancing Trust, Integrity and Efficiency in Research through next-level Reproducibility. Research Ideas and Outcomes 8: e98457. <u>https://doi.org/10.3897/rio.8.e98457</u>



Priorities for Reproducibility Reform



1. Frame reproducibility as a reformation

Ditch the 'crisis' narrative and reframe debate to emphasize the opportunities possible through a broad holistic movement towards reproducibility reformation



2. Centre epistemic diversity

Better understand the meanings, implications and conditions of/for reproducibility across disciplinary, methodological, geographic and stakeholder contexts



3. Systematize the evidence

Foster (systematic) experimentation across, between and within contexts to generate comparative findings, inform/cross-pollinate interventions, identify trade-offs



4. Collaborate to boost capacity

Network existing initiatives across dimensions of research to build capacities and harness network effects, especially by empowering the Reproducibility Networks

5. Minimize unintended consequences

Be alert to possible negative impacts and trade-offs, and work to maximize equitable transition, especially through global dialogue and open infrastructures/services