

TREASURE: CHANGING RESEARCH PRACTICE BY REWARDING GRADUATE STUDENTS FOR REPRODUCIBLE, REUSABLE, AND OPEN RESEARCH

Researchers engage in **diverse activities** and **practices**, creating **many valuable outputs** beyond articles. Without proper incentives these **remain invisible**. After several **reform** research assessment **recommendations**, the primary **challenge** is to **implement change**.

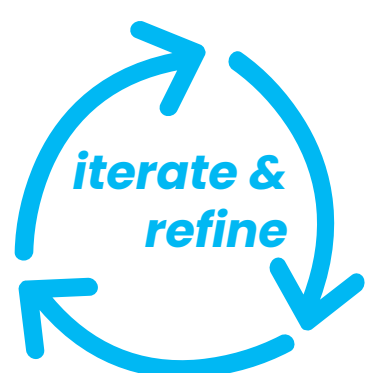
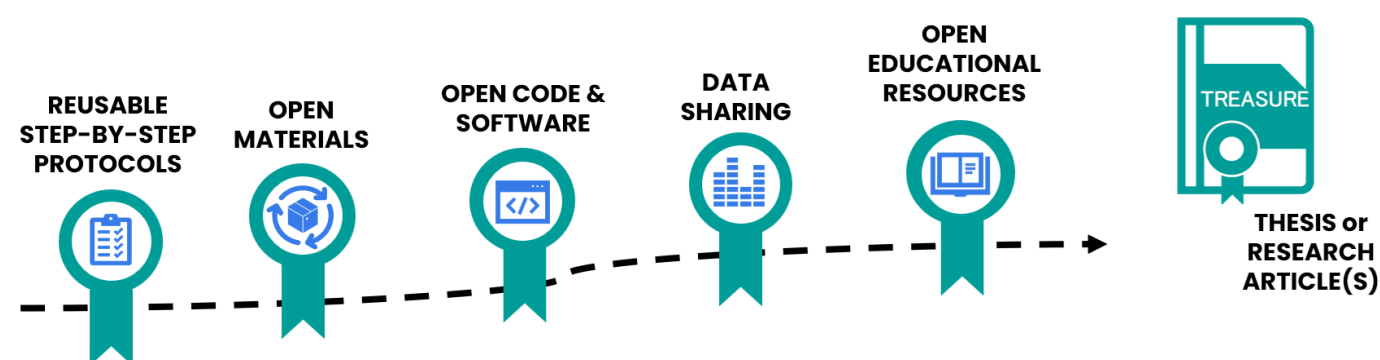
How to move from
reform **recommendations** to
institutional reality?

TREASURE is an **institutional pilot** (University of Coimbra, Portugal) **targeting** the **future generation** of qualified researchers – graduate students – by offering an **additional certification** alongside their degree.

VISIBLE AND INVISIBLE PRACTICES AND OUTPUTS DURING THE RESEARCH LIFECYCLE



TURNING VISIBLE, THROUGH RECOGNITION & REWARD, DIVERSE RESEARCH PRACTICES



TREASURE opt-in program:
recognize & reward **master's and PhD**
candidates for implementing with quality
reproducible, reusable and open
research (RROR) practices and outputs
in their **thesis** research



Program 1st edition: early results

participants

- **18 students**

submitting plans

- **4 PhDs** (in progress)
- **4 master's**

finishing

- **3 master's**

selected practices

OPEN CODE
UNIQUE RESOURCES IDENTIFIERS
STEP-BY-STEP PROTOCOLS
DATA SHARING
AUTHOR CONTRIBUTION STATEMENTS (mandatory)

Program 2nd edition will start in fall 2026

- TIPS & LESSONS LEARNED**
- Closer mentoring throughout the program
 - Multiple instructors/reviewers for each practice/output
 - Develop strategies for maintaining contact with PhD candidates
 - Simplify info to deliver
 - Separate sessions in-person + online
 - Involvement of institutional leadership is critical

Resources can be reused by other institutions

list of 16 diverse RROR practices and outputs + criteria

REPRODUCIBLE, REUSABLE AND OPEN RESEARCH PRACTICES AND OUTPUTS RECOGNIZED & REWARDED BY TREASURE



manual to guide students in selecting and implementing the supported list of practices and outputs (D.2)



Implementation guide for institutions to adopt similar programs (D.4)



Impact pathway

Training & recognizing early-stage researchers for **sharing** practices and outputs **transparently** & towards **reuse**

Building **institutional capacity & reputation** aligned with **responsible & reliable** research

Criteria focusing **rigor, reproducibility** and **reusability**

Drive **cultural change** & enhance **research quality**

