PATTERN.

Empowering Higher Education Institutions by trainings for researchers on Open and RRI practices

In a nutshell

PATTERN aims at promoting the practice of Open and Responsible Research and Innovation by developing and piloting training activities for researchers at all stages of their careers.

8
transferable skills on Open Responsible Research and Innovation

14
Higher Education Institutions testing PATTERN training

8
training modules

1
innovative PATTERN platform

100+
training activities

Targets

Researchers
Who will benefit from the trainings
Undergraduate, doctoral, post-doctoral

Policymakers
Who will influence the trainings organization in HEIs
Authorities and Institutions responsible of trainings (local, regional, national, EU and international level)

Higher Education Institutions
Who will deliver the trainings
Who is responsible for researchers' trainings
Universities, Research centers, Directors, headmasters of doctoral schools, vice-rectors, vice-deans, educational directors

Civil society
Who will interact with researchers trained through PATTERN
Associations and groups interested in science, science communicators and science journalist

METHODOLOGY

PHASE
01
Consolidation of knowledge

PHASE
02
Developing PATTERN Training Activities and Platform
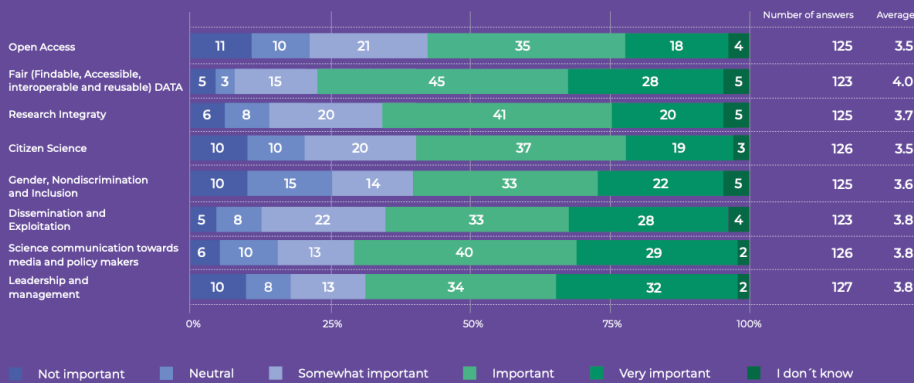
PHASE
03
Testing PATTERN Training Modules

PHASE
04
Evidence for Policy Development

8 TRAINING MODULES

1. Open Access
2. FAIR Data Management
3. Citizen Science
4. Research Integrity
5. Gender, non-discrimination and inclusion in research
6. Dissemination and Exploitation of results
7. Science Communication
8. Management and Leadership

What extra training programmes and resources for Open RRI are needed in your organisation?

	Not important	Neutral	Somewhat important	Important	Very important	I don't know	Number of answers	Average
Open Access	11	10	21	35	18	4	125	3.5
Fair (Findable, Accessible, interoperable and reusable) DATA	5	3	15	45	28	5	123	4.0
Research Integrity	6	8	20	41	20	5	125	3.7
Citizen Science	10	10	20	37	19	3	126	3.5
Gender, Nondiscrimination and Inclusion	10	15	14	33	22	5	125	3.6
Dissemination and Exploitation	5	8	22	33	28	4	123	3.8
Science communication towards media and policy makers	6	10	13	40	29	2	126	3.8
Leadership and management	10	8	13	34	32	2	127	3.8

Legend: Not important / Neutral / Somewhat important / Important / Very important / I don't know

Identification of existing gaps for the development of PATTERN training modules

556 existing training practices mapped

- Meaningful "badges" and certification (preferably with an authoritative body behind it)
- Advanced level trainings lacking in many areas
- Intersectionality with Diversity & Inclusion, interaction with traditional belief systems and knowledge (especially relevant for Citizen Science and Science communication)
- Languages other than English

European Policies Analysis

How European policies contribute to including Open RRI practices in trainings and training materials aimed at researchers?

- 30+ EU policies about the researchers' need to get knowledge on OS and RRI practices in a broader perspective and linked to specific transferable skill(s) identified by PATTERN
- EU policy analysis based on SWOT and theory of change approaches : what/who needs to change and how, links to funding allocation mechanisms if any, positive effects and gaps
- Large context and societal concerns perspective
- Preparation of framework for further national and institutional policy analysis to reveal potential for co-creation of evidence-based policy recommendations

GAPS IDENTIFIED

- Sustainable funding for trainings needs to be balanced across the research ecosystem.
- Many policy documents, especially at EU level provide general principles, but lack more detailed guidance.
- Insufficient acknowledgement of potential challenges and variations in implementing OS and RRI principles across different cultural, disciplinary and other contexts.
- Lack of comprehensive mechanisms for monitoring the policies' implementation.
- OS challenges in public-private partnerships merit discussions between academia and industry
- OS practices rarely included into research evaluation.

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