

## State-of-the-art Analysis

Mapping of the policy  
landscape for learning  
opportunities for  
researchers on open  
and responsible  
research and innovation



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# Introduction

## Welcome to the PATTERN booklet on Institutional Policy Mapping and Analysis, focused on mapped policies that shape learning opportunities for researchers in the domains of open and responsible research and innovation (RRI).

This booklet is addressing policy makers and researchers at all stages of their careers, and provides highlights on institutional efforts in the EU to adhere to and promote the principles of Open Science (OS) and RRI.

The report deals with various policy focus areas including **Open Access, FAIR Data, Gender Inclusion & Non-discrimination, Research Integrity**, among others. It aims to offer a clear understanding of the present policy environment and anticipates the trajectory of research practices influenced by these policies.

In total, **107 institutional policies were mapped across 14 PATTERN pilot institutions**. These policies range from strategic documents to guidelines and thematic documents like Gender Equality Plans, all emphasizing or mentioning alignment with OS and RRI principles.

You can access the full report “State-of-the-art Analysis: mapping of the policy landscape for learning opportunities for researchers on open and responsible research and innovation”

here!

# Let's see a few takeaways from the report...

## Focus areas

The report shows a comprehensive coverage of OS and RRI areas, including:



01.  
**Open Access**



02.  
**FAIR data**



03.  
**Citizen Science**



04.  
**Research Integrity**



05.  
**Science Communication**



06.  
**Management and Leadership**



07.  
**Gender, Non-discrimination and inclusiveness**



08.  
**Dissemination and Exploitation**

## Institutional commitment

Institutions demonstrate a strong commitment to integrating OS and RRI principles into their strategic priorities. This is evident in the policies' focus on promoting ethical research practices, gender equality, data management, and inclusive research environments.

## Training and development

The policies underscore the importance of providing researchers with training on transferable skills relevant to OS and RRI. This includes efforts to integrate these topics into curricula and training materials and to establish institutional arrangements supporting the provision of knowledge on these skills.



## Challenges and opportunities

While institutions are aligned with EU and national requirements, challenges such as **limited awareness among policy makers, resistance to change, and funding limitations** are noted. However, there are opportunities for enhancing collaborative projects, stakeholder engagement, and leveraging institutional arrangements to support knowledge provision.



## Practical implications

Institutional policies set the framework for further development and integration of OS and RRI topics into research practices. They highlight the need for continuous training, support infrastructures, and engagement of various stakeholders within the academic community to foster a culture of open and responsible research.



# Results of the policy mapping

## Linkages between policy levels

The exploration of policy mapping reveals crucial connections between European, national, and institutional levels, underscoring a collective drive toward integrating open science (OS) and responsible research and innovation (RRI) principles into the fabric of research practices. This alignment is pivotal for fostering a research ecosystem where skills and training in OS and RRI not only enhance researchers' capabilities but also bridge the gap between science and society, building trust and engagement with the public.

### Unified Approach

There's a concerted effort across policy levels to embrace OS and RRI principles, aiming to situate researchers' expertise within societal needs. This approach highlights the importance of collaboration among stakeholders to ensure policies are not just formulated but effectively implemented.

### Need for cohesion

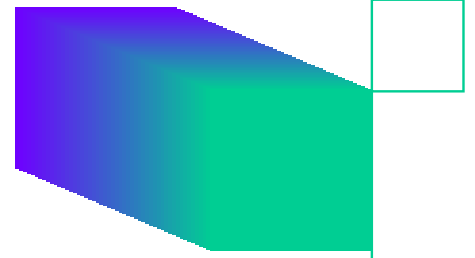
Despite the shared goals, discrepancies in the detail and focus of policies at different levels indicate a need for more cohesive strategies. Harmonizing these policies can streamline efforts, making it easier for researchers and institutions to navigate and adhere to OS and RRI standards.

### Multi-Stakeholder Collaboration

Effective policy implementation requires active engagement from various stakeholders, including policymakers, funding bodies, research institutions, and researchers themselves. A collaborative ecosystem is essential for addressing challenges and leveraging opportunities within the open science and RRI domains.

### Enhancing Public Engagement

To mainstream OS and RRI practices, enhancing public engagement and investing in infrastructural and educational initiatives at the institutional level are critical. Policies should encourage institutions to develop robust training programs and support structures that promote inclusivity, transparency, and integrity in research.



## Gaps identified in policy landscape

### Funding and support

A notable gap is the lack of sustainable funding mechanisms across the research ecosystem. Stable, long-term financial support is vital for the development, delivery, and updating of training materials and programs in OS and RRI

### Implementation guidance

Many existing policies are general and principle-based, lacking detailed guidance for practical implementation. This gap hinders the ability of institutions and researchers to effectively translate policy objectives into actionable practices.

### Comprehensive educational approach

While certain OS and RRI aspects, such as Open Access, FAIR Data, and Research Integrity, are increasingly covered, there is an urgent need to broaden the educational scope. Areas like inclusion, management, leadership, and citizen science require more focused attention in policy formulations and training programs.

### Public engagement

Enhancing public engagement and trust in science is a critical gap. Policies need to encourage and support institutions in undertaking initiatives that promote wider community involvement and understanding of research processes and outcomes.

# Addressing the gaps

## Harmonization of policies

Streamlining policy efforts at all levels to ensure a unified approach to OS and RRI can significantly address existing gaps. This includes creating clear, actionable guidance for implementing policies and developing training programs.

## Targeted training and education

Expanding the focus of training programs to cover all aspects of OS and RRI will equip researchers with a comprehensive set of skills. This includes developing targeted training for different career stages and disciplines.

## Infrastructure investment

Investing in the necessary infrastructure, including digital platforms and support services, can facilitate the adoption of OS and RRI practices, providing researchers with the tools they need to succeed.

## Incentivizing adoption

Policies should include incentives for institutions and researchers to adopt OS and RRI practices. This could involve recognizing and rewarding efforts to enhance public engagement, data sharing, and interdisciplinary collaboration.

# Conclusions



**You can see the conclusions** of the full report “State-of-the-art Analysis: mapping of the policy landscape for learning opportunities for researchers on open and responsible research and innovation”

**here!**



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