



Open Science Policy of European Research Area

- Evolving policy context for digitalisation of research

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Research and
Innovation

K2 - Informacja wewnętrzna (Internal)



Embracing Open Science as the *modus operandi*

Immediate and **unrestricted**
open access to research
outputs

Responsible research
output management, in line
with **FAIR** principles

Early and **open** sharing of
research: Methods, data,
preprints

Ensuring **verifiability** and
reproducibility of research
outputs

Open collaboration, within
science and with broader
public and private sector

Why Open Science?

Improves research QUALITY: Transparent, accessible, reusable methods and outputs - facilitate verifiability and reproducibility of research results - leading to higher robustness and reliability

Accelerates research EFFICIENCY: Sharing and reuse of methods and outputs - enables researchers to build upon others' work more easily and quickly - leading to faster research progress

Enhances IMPACT of research: Research methods and outputs visible and accessible to public and private sectors - facilitate their inclusiveness, valorisation and practical application - leading to enhanced trust in research and increased uptake and use of research outputs

European Research Area (ERA) policy framework

After revamp in 2021



Pact for research and innovation in Europe



ERA Policy Agenda 2022-24



NEW ERA Policy Agenda 2025-27



ERA Governance

ERA Forum (+ subgroups)

Expert group for coordination and implementation of the ERA, together with EU countries, associated countries and stakeholders

ERAC

high-level strategic policy body, providing advice

Council

Decision making
“Owner” of Policy

Agenda



ERA Monitoring

- **ERA Policy Platform**
- **Regular reporting:**
 - EU-level report
 - Country reports
 - Performance indicators


Inclusive collaborative approach, fully voluntary

ERA Policy Agenda 2025-2027

EU Council Recommendations adopted on 23 May 2025

Home > ERA Policy Agenda 2025-2027

ERA Policy Agenda 2025-2027



The second ERA Policy Agenda outlines voluntary activities for the European Research Area (ERA) from 2025 to 2027. Similar to the first ERA Policy Agenda 2022-24, these activities aim to transform the priority areas set by the Pact for Research and Innovation (R&I) in Europe into concrete activities, bringing EU Member States, countries associated to Horizon Europe, R&I stakeholders and the Commission together to make the ERA a reality.

The 19 ERA activities have emerged from a unique collaborative process. EU Member States, the European Commission, countries associated to Horizon Europe, and R&I stakeholders have teamed up to shape the ERA Policy Agenda 2025-2027. This process took place within the ERA Forum, guided strategically by the European Research Area and Innovation Committee (ERAC).

The ERA Policy Agenda 2025-2027 has three main building blocks (see image below):

- The **policy narrative** sets the scene for the broader goals and ambitions and highlights the achievements and lessons learnt.
- **11 structural policies** outline long-term undertakings, embedded in national and European policy, such as open science, research infrastructures and research careers. While their vision requires efforts beyond the three-year work cycle, they still have specific objectives and a work plan to be achieved within the ERA Policy Agenda.
- **8 ERA actions** are filling specific gaps on new or emerging issues, such as artificial intelligence in science. They have time-bound objectives or are piloting an initiative, such as research security.

Over the next three years (2025-2027), the Commission, European countries and stakeholders will work together to achieve progress on these ERA activities. Find out more about each initiative by clicking in the image below.

Home > ERA Policy Agenda 2025-2027

Pact for R&I
long-term vision for ERA

ERA Policy Agenda 2025-2027
3-year aspiration and mission

Policy Narrative

ERA Structural Policies

ERA Actions

[Home](#) | [European Research Area Platform](#)

New structural policies and ERA actions

ERA structural policies

'long-term ERA policies, which are not confined to individual policy agendas but still have a three-year workplan'

1. Enabling open science
2. Research infrastructures
3. Inclusive and intersectional gender equality
4. Making research careers more attractive and sustainable
5. Research assessment
6. Upscaling knowledge valorisation capacities
7. Global Approach to R&I
8. SET Plan as a key component of ERA
9. Improving the articulation between R&I and higher education within ERA unleashing the full potential of European R&I ecosystems
10. Enhancing trust in science through citizen participation, engagement and science communication
11. Improve EU access to excellence

ERA actions

'which are new and to be completed within the three-year policy agenda'

1. Equity in open science
2. Advancing the European science for policy ecosystem
3. AI in science in the EU
4. Enhancing research security
5. Accelerating R&I investments for Europe's industrial transformation and competitive sustainability
6. Accelerating new approach methodologies to advance biomedical research and testing for medicinal products and medical devices
7. A harmonised and coordinated framework to support integrity and ethics in R&I
8. An new era in research management



Broader policy framework for ERA

ERA Policy Agenda

- Non-binding instrument: Council Recommendation or Council conclusions
- Encouraging voluntary collaboration and commitments on certain ERA activities

ERA Act

- [Mission letter](#) of Commissioner Zaharieva
- Legal instrument to tackle enduring issues that cannot be solved through voluntary cooperation
- Propose measures to foster the free movement of research, knowledge and technology → 5th freedom of the single market
- Commission's proposal is expected in Q3 2026

ERA in Horizon Europe

- Grant-based funding framework
- WIDERA Work Programme specifically supports the implementation of ERA actions and structural policies



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Structural Policy 1: Enabling open science via sharing and reuse of data, including through EOSC

Objectives

- Open science practices and skills are rewarded and taught, becoming the 'new normal';
- Standards, tools and services allow researchers to find, access, reuse and combine results;
- A federated community-driven infrastructure enabling open sharing of scientific results is deployed and maintained;
- Europe is in the driving seat towards a web of FAIR research data with established links to other data spaces;
- Researchers are provided with better legal conditions and resources to access and reuse publicly funded research results and use publications and data for scientific purposes.

Expected outcomes

- Develop a high-value EOSC federation and increase its uptake;
- increase the amount and productivity of FAIR research data in Europe;
- identify areas for measures and initiatives to enable an EU copyright and data framework fit for research;
- assess the impact of open science policies and practices based on an open science policy intelligence platform.

Description

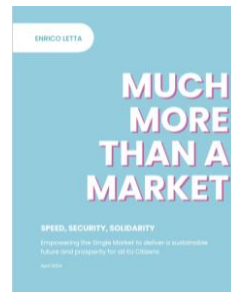
This structural policy aims to achieve a step change across research communities and research infrastructures in Europe. It will seek to create a better EU legal framework for open sharing, seamless access and reliable reuse of research data and other digital research objects used and produced along the research life cycle. Example activities are:

- Promoting the uptake of the EOSC EU Node by the European research community;
- Support the enlargement of the EOSC Federation with several nodes and ensure its
- Scalability through common EOSC Federation standards and use policies, as of 2025;
- Conducting further stakeholder consultations and collecting more evidence on identified policy options to make the EU copyright and data legislative and regulatory framework fit for research;
- Expanding the EOSC monitoring framework with state-of-the-art methodologies to assess the impact of related policies and practices.

Overarching objectives of framework “fit for research”

- EU Treaty article 179: Striving towards free circulation of scientific knowledge in the ERA
- Enrico Letta report on the Single Market: Fifth freedom - Knowledge diffusion driving societal advancement
- EU copyright and digital legislation is key enabler of knowledge circulation

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Targets defined in ERA Policy Agenda 2022-2024

ERA Action 2

- “Propose a EU copyright and data legislative and regulatory framework fit for research”

Outcomes

- 1) “Identify barriers and challenges to access and reuse of publicly funded R&I results and of publications and data for scientific purposes, and identify potential impacts on research, through an analysis of relevant provisions under EU copyright and data legislation and related regulatory frameworks, and of relevant institutional and national initiatives.
- 2) Propose legislative and non-legislative measures to improve the current EU copyright and data legislative and regulatory frameworks”



Framework for major study

Objective: Providing comprehensive evidence on challenges, barriers and possible policy measures to improve access to and reuse of research results, publications and data for scientific purposes.

Methodology:

- 1) Literature review and a comparative legal study identifying areas for possible improvement in the EU copyright, data, and digital legislation.
- 2) Survey programme targeting researchers, research performing organisations (RPOs) and scientific publishers.
- 3) Interview programme to gather in-depth insights from legal experts.

Multi-criteria analysis: Evaluation of the social and economic impact of the identified measures.

More information: The study was published in May 2024 and is available [here](#) on the Commission's website

The study is prepared for the European Commission, but it only reflects the views of the authors.



Challenges and barriers identified in major study

- Consequences related to the transfer of rights by researchers and their organisations to publishers (need to obtain subscriptions to copyright-protected material, difficulty to share such material with research partners, difficulties in some cases to obtain rightsholders' permission to publish in open access, possible high costs to make research outputs available in open access).
- Copyright exceptions exist for the purposes of scientific research, but these exceptions are mostly non-mandatory for Member States or have limitations on scope. The study reports that this causes fragmentation and legal uncertainty for researchers regarding what they can or cannot do with their own and the works of other researchers.
- Uncertainty among researchers and research performing organisations about who controls access to specific sets of research data, and how it can be used and shared.
- Researchers and research performing organisations find it difficult to navigate in the new data access rights of the EU's data and digital legislation, including the conditions under which large platforms are to share data with them for scientific research purposes.
- Aspects of certain provisions that may lead to uncertainties about their legal and practical implications (e.g. cross-border sharing of TDM datasets in broader research consortia) that pertain to the application of AI in research.

Economic analysis of identified policy options

- Request from ERA Forum to provide additional evidence on economic impact of SPR and CRR measures
- Large-scale economic study will soon be launched
- Purpose to analyse impact on:
 - Open access and reuse of research output
 - The ecosystem of scientific publishing
 - Competitiveness of EU/EEA and of non-EU G7 countries



Thank you!



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