

ESFRI Landscape Analysis Workshop

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**Research infrastructure landscape
analysis in the ERA policy context**

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Towards the new European Research Area

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Council Recommendation on a “Pact for Research and Innovation in Europe”

Council conclusions on the new ERA governance & the first ERA policy Agenda (2022-2024)



New ERA shaped by

Pact for R&I

Setting out the fundamental R&I values and principles for the new ERA, the priority areas for ERA actions and the policy coordination mechanisms.

ERA Governance

Responding to new ERA strategic objectives. Ensuring prioritized policy initiatives and translation into action through better coordination and engagement at all levels.

ERA Policy Agenda

Designed to contribute to the priority areas from the Pact for R&I, setting out the voluntary **ERA actions** which are defined and coordinated at Union level in order to attain agreed outcomes.

- **Council:** political steering
- **ERAC:** high-level strategic body, providing advice on policy orientation and new needs
- **ERA Forum (& sub-groups):** policy coordination and reinforced implementation of ERA (co-design of initiatives, involvement of stakeholders and criteria for actions)

The ERA actions are identified to ensure **impact, credibility** and **effectiveness** of the new ERA, and their actual implementation aim at fulfilling **Relevance, Viability** and **Commitment**

Innovation policy *intervention areas for further reflection*



ERA Policy Agenda: Research Infrastructures

Deepening a truly functioning internal market for knowledge



Action 8 - Strengthen sustainability, accessibility and resilience of research infrastructures in the ERA

Set of foreseen activities

- **Strategic analysis** of the European Research Infrastructure **landscape**;
- Broader and more sustainable **access** for all countries to European research infrastructures and their services and revision of the European Charter of Access to Research Infrastructures;
- Update of the ESFRI **Roadmap** and implementation of the research infrastructures performance **monitoring** framework;
- Report on the **ERIC Framework**;
- Increased **cooperation** between research infrastructures, e-infrastructures and stakeholders, including through EOSC;

Expected impact of Action 8

- Strengthened research infrastructure **services**, better adapted to user needs (scientific challenges and EU policy priorities such as the green and digital transition)
- **Sustainability** of European research infrastructures (ERICs and others; system as a whole)
- Better **accessibility** of European research infrastructures and their services to users across the EU, including through the EOSC
- Stronger **engagement of stakeholders** in research infrastructures activities
- Robust **priority setting** for further investments in existing and new research infrastructures (evolving R&I landscape)
- Identification of opportunities for research infrastructure **clustering**
- Enhanced **impact on society**, skills and talents;
- Strengthened engagement with industry and positive **impact on economy**

Strategic analysis of the European Research Infrastructure landscape

- **Review** of the state of the art, exchange of practices (Q2 2022)
- **EOSC*** Steering Board first annual survey (Q2 2022)
- Streamlined **methodology** (Q3 2022)
- **Implementation** of the landscape analysis and preparation of the report (Q4 2023)
- **Gap analysis** in selected areas (Q2 2024) and design of one or few **pilot services** (Q4 2024)

**Only EOSC activities relevant to research infrastructures policy are reported – core activities and deployment of EOSC components are described under ERA Policy Agenda action 1.*

Update of the ESFRI Roadmap and implementation of the research infrastructures performance monitoring framework

What? (ESFRI mandate from the Council) European Roadmap for research infrastructures and follow-up of their implementation

- Implementation of the research infrastructures **performance monitoring framework** (first phase Q4 2022, full cycle completed Q4 2024)
- Updated **methodology** of the ESFRI Roadmap (Q2 2024) taking into account the landscape analysis
- Launch of the **ESFRI Roadmap** update (Q3 2024)

ESFRI Landscape analysis – recent context

2018 Council Conclusions - need for further strengthening and consolidation of the landscape of pan-European Research Infrastructures in view of their long term sustainability

ESFRI White Paper 2020 - key messages on landscape analysis of European RIs

- a more strategic tool, considering a user-driven and impact-oriented perspective (e.g. related to Sustainable Development Goals and Missions).
- more comprehensive and beyond the description of existing large-scale Research Infrastructures (e.g. considering relevant initiatives also at national level).
- support consolidation of RIs within/across domains, in order to better address users' needs in replying to societal challenges and to promote sharing of good practices

ESFRI Roadmap 2021 - landscape analysis overview of the European RI ecosystem

- identifying main RIs operating transnational access in Europe + major new or ongoing projects
- interconnections among RIs
- outlook to the global landscape of relevance

Research infrastructure landscape analysis: towards a streamlined methodology (1/2)

- Analysing structure
 - layers: infrastructures but also services, technology, instrumentation...
 - themes/clusters: environment, health and food, social sciences, physics and engineering, other
 - geographic scale: national, European, global
 - Interfaces : interdisciplinarity, societal and economic impact
- Analysing methodology
 - User requirements: identify and engage the core users, identify process to collect their requirements
 - Landscape architecture: translating user requirements into the potential landscape
 - Gap analysis: identifying missing elements with respect to the user requirements
 - Services: pilot areas for strengthened research infrastructure services, better adapted to user needs
- Analysing tools and processes
 - Role of stakeholders
 - platforms

Research infrastructure landscape analysis: towards a streamlined methodology (2/2)

- Defining the landscape outlook
 - Operational aspects: consolidating the landscape
 - Evolution aspects: incremental evolution / upgrades, long-term aspects
- Long-term (sustainability) plan
 - Infrastructure lifecycle and phases
 - R&I needs vs operational needs
 - Investment aspects
- Establishing structural links with other processes
 - Roadmap cycle
 - Investment
 - Monitoring