



SPECTRUM aims to deliver a Strategic Research, Innovation and Deployment Agenda (SRIDA) and a Technical Blueprint for a European compute and data continuum.

VISION

Data-intensive scientific collaborations have access to a European exabyte-scale research data federation and compute continuum

Project Objectives

- **Join effort** of research infrastructures and e-infrastructures to address **common research and innovation needs** towards exabyte-scale computing
- **Identify the relevant Use Cases**, related challenges and opportunities
- Understand the **Landscape** and Best Practices
- Increase **Collaborative Service Delivery** by e-Infrastructures at national, European and international level
- Agree on **Strategic Action Paths**, specific actions and policy recommendations

Expected Results

- **SPECTRUM CoP**
a community of practice of experts and research infrastructures in High Energy Physics (HEP) and Radio Astronomy (RA) and other relevant Scientific Domains
- **Compendium of use cases**, related challenges, gaps and requirements
- **Compendium of Existing Approaches**, existing services, technical solutions and policies to novel data and compute federation architecture
- **Recommendations** for a jointly supported corpus of interoperable access policies
- Technical **Blueprint** of a European compute and data continuum
- A strategy and plan for the implementation of Exascale research data federation and compute continuum for data-intensive science (**SRIDA**)

TIMELINE

- **May 2024:**
SPECTRUMCoP Launch
Launch SPECTRUMCoP and related Working Groups
- **July 2024:**
Launch of Community Survey
Launch of survey to collect info from the community
- **March 2025:**
Landscape, Use cases, Access policies
Final version of the analysis documents
- **October 2025:**
SRIDA and Tech Blueprint (draft)
Draft SRIDA and Technical Blueprint for Public Consultation
- **June 2026:**
SRIDA and Tech Blueprint (final)
SRIDA and Technical Blueprint available including launch event

Project partners



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Funded by the European Union

SPECTRUM is funded by the European Union - Grant Agreement Number 101131550