Environmental RI-as-a-Service: a viewpoint on common challenges and interoperable solutions

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Environmental Research Infrastructures Providing Shared Solutions for Science and Society









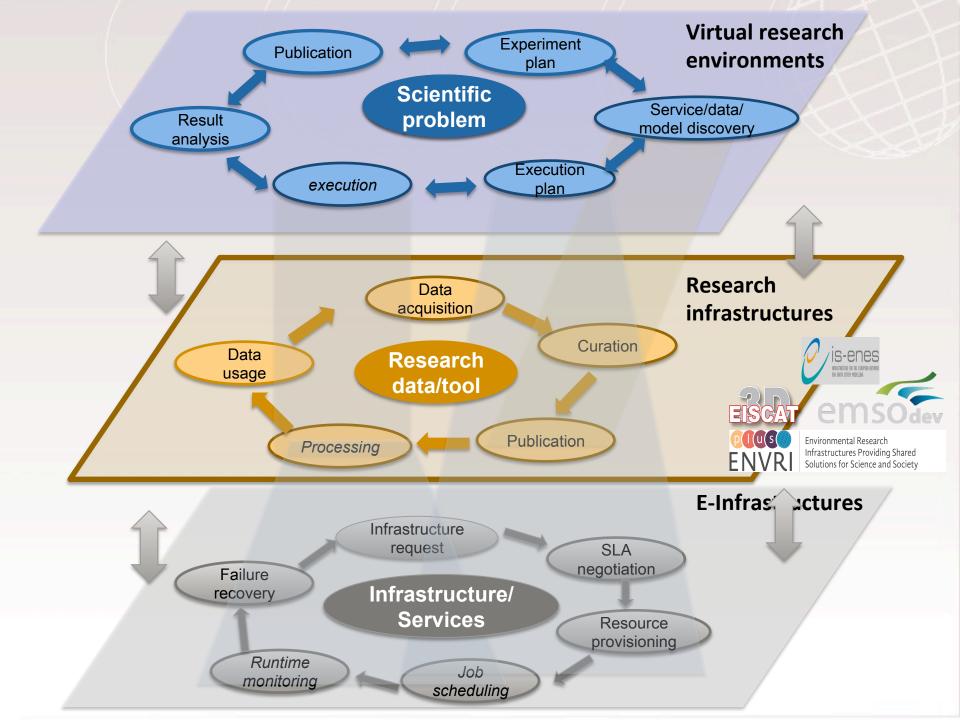






Outline

- Support environment for data intensive sciences
- Research infrastructure as services
- ■ENVRIPLUS data for science theme
- ■Open discussion



Research Infrastructures, I3, and ESFRIs in environmental Sciences

















































Research Infrastructures, I3, and ESFRIs in environmental Sciences

























- (b) Access to (APIs of) software services
- (c) Access to computing resources (including GRIDs and CLOUDs)
- (d)Access to equipment/detectors for data taking and parameter control





























































Gap analysi

Requirements

Technology

Identification/ Citation

Processing

Optimization

Curation

Cataloguing

Provenance

Validation

Customization and

Deployment and

operation

adoption

RI development: Architecture design

Meta information linking: Linking model

Common vocabulary: Reference model

Storage, computing, networking and other technologies provided by underlying e-Infrastructures

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Open discussion

- The discussion will be moderated based on the following questions:
 - What are the top three data challenges you or your community are facing?
 - What are the prioritized supporting tools (top 5) do you or your community need?
 - What are the key features do you expected from the research infrastructure to enable your experiments across different domains?

Summary

- Session report will be available after the meeting
- Acknowledgement
 - **€**ENVRIPLUS: <u>www.envriplus.eu</u>
 - **▼VRE4EIC:** <u>www.vre4eic.eu</u>
 - **■**SWITCH: <u>www.switchproject.eu</u>