

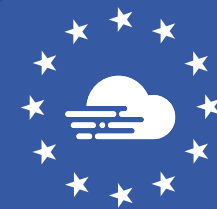
EOSC Architecture components

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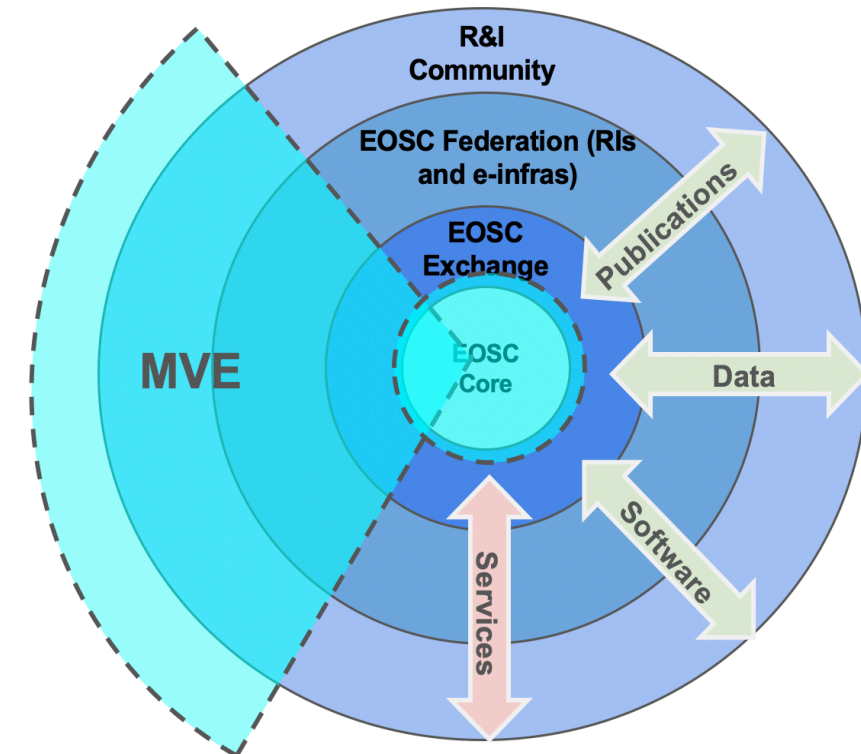
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EOSC: Federation of Infrastructures

- Research Infrastructures
- e-Infrastructures
- National Infrastructures
- Thematic Infrastructures
- European data spaces,
- ...

EOSC (M)architecture

- EOSC-Core
 - Minimum architecture elements to enable the Federation
- EOSC-Exchange
 - Evolving Federation to serve the needs of research communities
 - Widening to the general public and the private sector
- Minimal Viable EOSC (aka MVE)
 - Minimum Federation to bring value to users



First Iteration: a Minimum Viable EOSC (MVE)

- The MVE **must bring value** to users beyond their current use of infrastructures
- The MVE includes **initial** EOSC-Core and EOSC-Exchange
- The MVE must enable the federation of **existing and future** research infrastructures
- The MVE **will** enable cross-disciplinary research

Components of the Minimal Viable EOSC (MVE)

- An Open Science policy framework (Open & FAIR)
- An EOSC Interoperability Framework
 - An Authentication and Authorization Interoperability framework (AAI)
 - A Persistent Identifiers framework (PID)
 - A Metadata framework (within & between discipline interoperability)
 - A Data Access framework (« data as a service »)
 - A Service Management and Access framework (« what, how, who »)
 - An Open Metrics framework (incl. « rewards & recognition »)
 - A Support framework (Helpdesk, Web site)

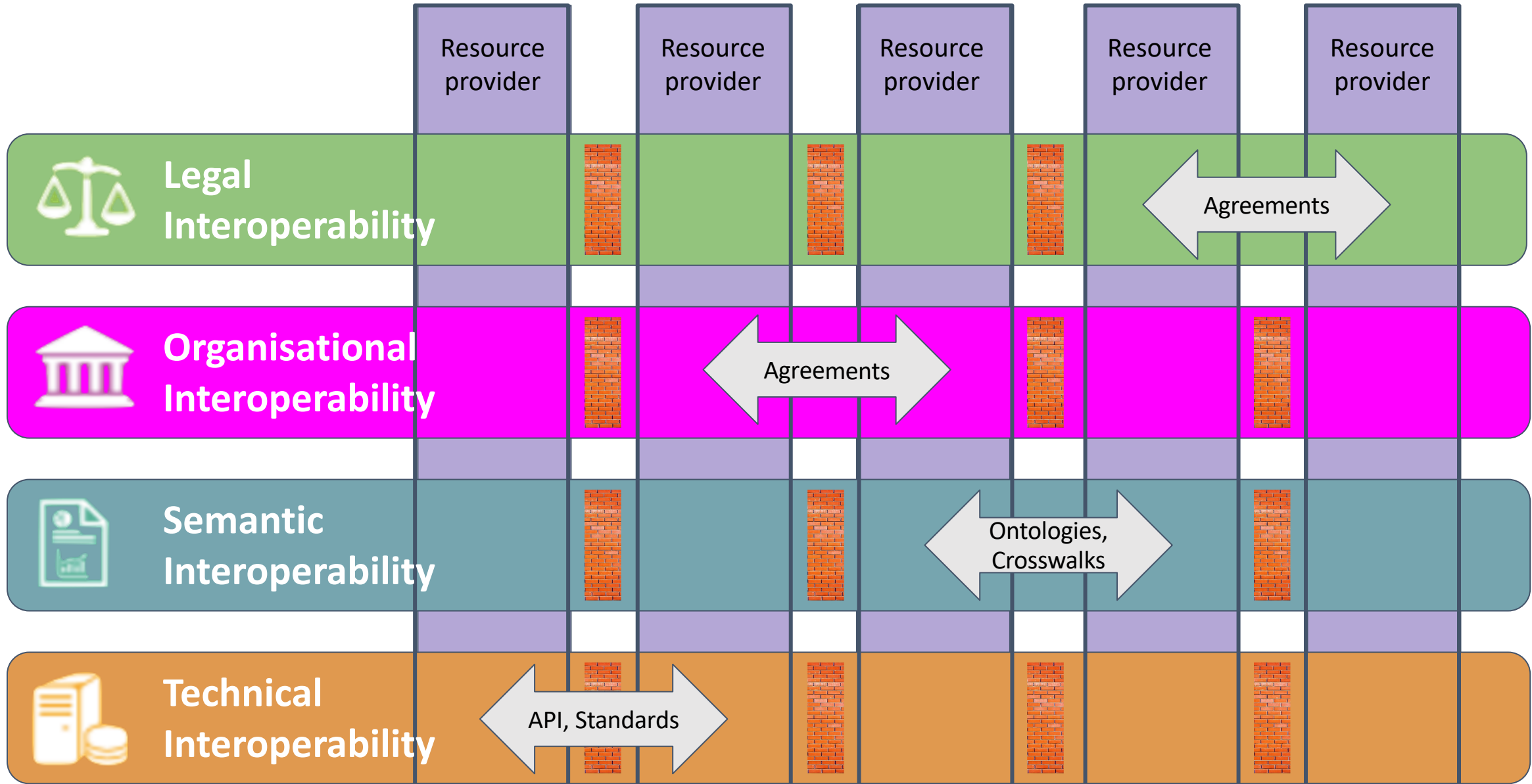
From the Iron Lady document (EOSC Sustainability WG)

“The Federating Core (*aka EOSC-Core*) includes the technical components which enable the federation, access, ordering and delivery of services as well as the management, monitoring and reporting of services. ... Specifically, ”

- A mechanism for naming and locating data and services
- A mechanism for discovery of and access to data and services
- A common framework for managing user identity and access

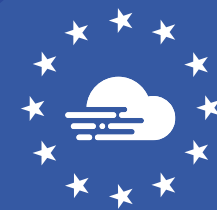
EOSC-Core: “as small as possible, as enabling as necessary”

- Initial version will be delivered by H2020 projects
- Enables
 - Naming and Locating
 - Discovery and Access
 - Managing identity
- Based on Open standards, Open Source & Open APIs
- Complies with/Instantiates the EOSC Interoperability Framework



Thank you

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