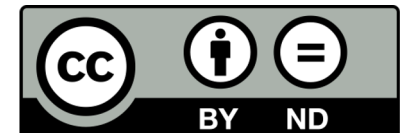


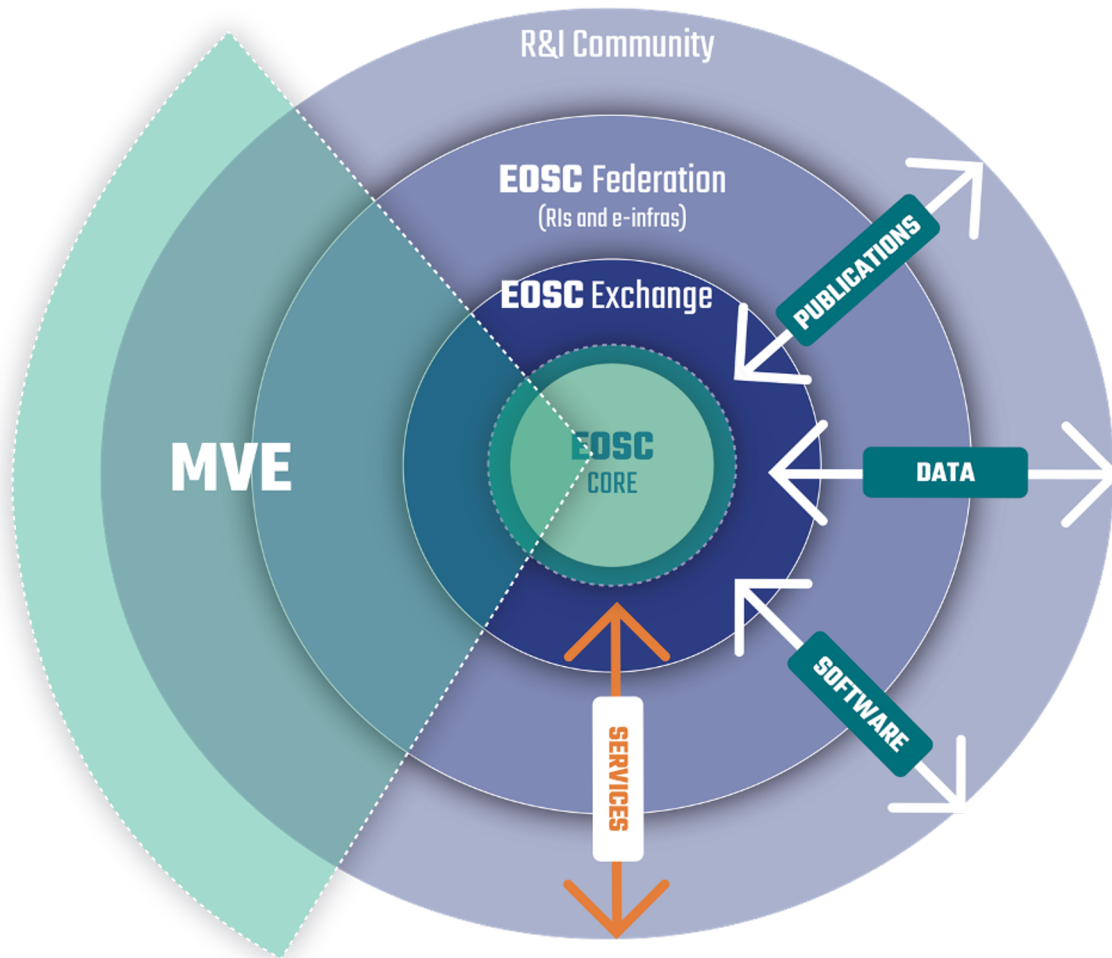
EOSC Future Core

Klaas Wierenga (GEANT)
Technology and Integration Pillar Co-Lead
EOSC Future TCB Co-Chair

The EOSC Future project is co-funded by the
European Union Horizon Programme call
INFRAEOSC-03-2020, Grant Agreement 101017536



Minimal Viable EOSC



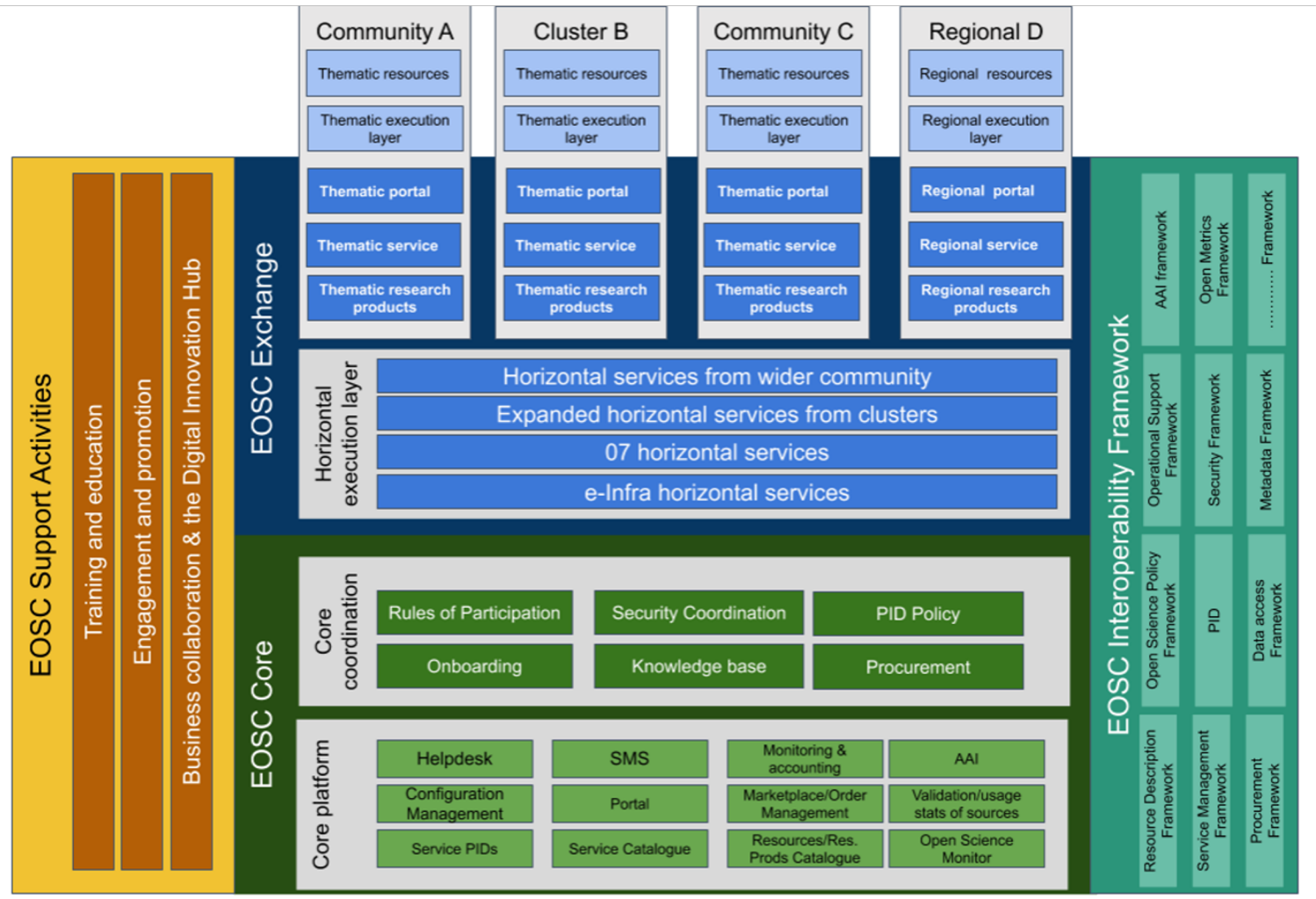
MVE includes:

- EOSC Core and subsets of EOSC Exchange, Federation
- EOSC resources (services, research products) required to “market” the EOSC
- Subset of the R&I community (showcases, e.g., COVID-19)

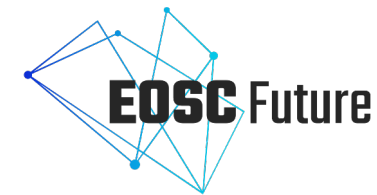
Guiding principles

- The EOSC-Future core platform **federates** existing and new infrastructures into a **system of systems**
- EOSC-Future delivers the '**glue-layer**' that allows for the composition of resources across infrastructures by:
 - Providing **APIs** and metadata
 - Providing **Interoperability Frameworks**
 - Providing **portal capabilities**
- Setup the **EOSC-Core**
- Populating the **EOSC-Exchange**
- Technical roadmap is driven by **user requirements** and implemented as an, over time increasing in complexity, set of user capabilities

EOSC Architecture

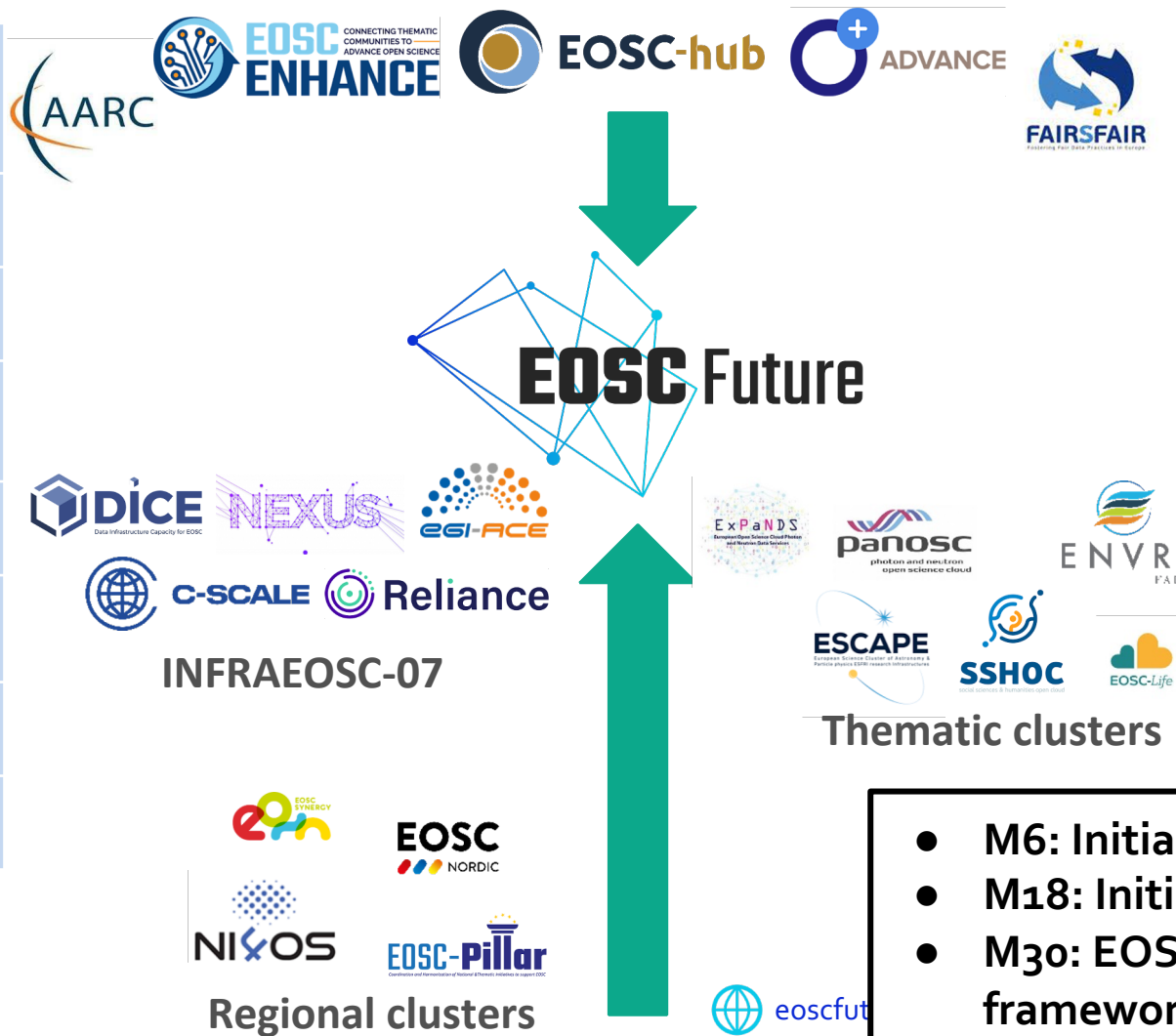


EOSC Interoperability Framework



Interoperability frameworks to enable the integration/composability of EOSC resources

- Resource Description Framework
- Identifiers
- AAI
- Metadata and Ontologies
- Accounting
- Monitoring
- Order management
- Helpdesk



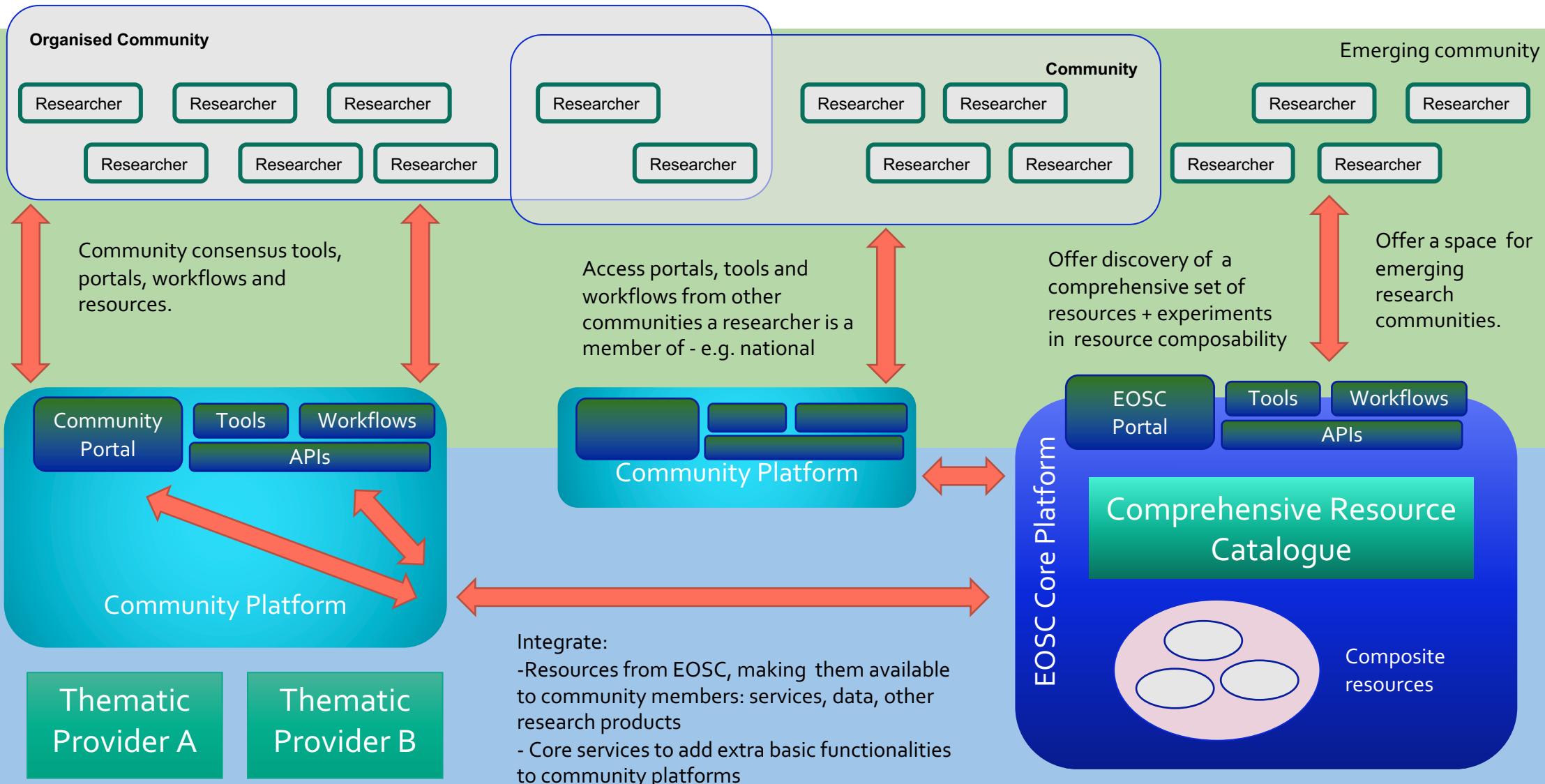
- Data Platforms for Processing
- Data Publishing and Open Data
- Cloud Compute Containerisation and Orchestration
- HTC-HPC Compute
- Machine Learning

- M6: Initial guidelines per technical area
- M18: Initial interoperability frameworks
- M30: EOSC-endorsed interoperability frameworks

Researcher view

Research

EOSC



M6

- Researchers can access and combine:
 - EOSC Compute & Storage resources
 - Horizontal services
- Researchers can see examples of complex workflows
 - using multiple resource providers

M18

- Researchers can orchestrate data analysis on computing resources provided by multiple e-Infra resource providers
- Integration with researchers' storage systems

M30

- 'Composability indicators' associated to EOSC resources
- Researchers can access fully integrated/ end-to-end workflows for various research topics
- Execution framework



Thank you for your attention!

- Klaas Wierenga (GEANT) <klaas.wierenga@geant.org>

