

EOSC-Pillar

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on behalf of EOSC-Pillar collaboration

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National Initiatives & the EOSC: a vision

National initiatives involving RIs and e-Infrastructures can play a key role to involve live user communities and research infrastructures in the very design of EOSC and its sustainable evolution.

Action is required:

- **At the national level**, to bring together all relevant stakeholders
- **At the international level**, to harmonise the National Initiatives and streamline the trans-national roll out of services that can be of interest of different communities distributed across multiple countries.

Having their intrinsic sustainability, the NIs can be a key element to support the development of the EOSC ecosystem, and develop into a cornerstone on which to build its long-term sustainability.

EOSC-Pillar – Project

- Acronym: EOSC-Pillar
- **Coordination and Harmonisation of National and Thematic Initiatives to support EOSC**
- 18 Partners
 - Austria: University of Vienna
 - Belgium: University of Gent
 - France: **CINES (Technical Coordinator)**, CNRS, INRA, INRIA, IFREMER, INSERM
 - Germany: DKRZ, Fraunhofer, GFZ, KIT
 - Italy: **GARR (Coordinator)**, CINECA, CMCC, CNR, INFN, TRUST-IT
- Total EC Contribution: € 6.880.965,00
- Start date: 1 July 2019, duration 36 months

Support the EOSC implementation leveraging national initiatives of the Member States (MS) and Thematic Initiatives (TI) developed by research communities working in national and European collaborations to build a future based on Open Science and FAIR data practices

- **01 - Analyse the state of the art** of existing national initiatives and services for computing and data services in the countries involved, and **support their consolidation**
- **02 - Harmonise procedures** for the delivery of horizontal enabling services for research data across countries;
- **03 - Co-ordinate with other initiatives** to achieve harmonisation across different regions, countries, and trans-national research communities to build a truly inclusive EOSC;
- **04 - Promote the uptake of FAIR data practices and services** at national levels and across scientific communities and national borders
- **05 - Enable non-commercial trans-national services** to be accessed through the EOSC portal;
- **06 - Support the growth of an active community of stakeholders** in each involved country, who will actively contribute to the success of EOSC;
- **07 - Propose viable business models** for the sustainable provision of trans-national services.

Project's workplan tackles both organisational and technical issues using a mix of study, coordination, research and demonstration, training and service activities.

- **WP3 (National Initiatives survey):** recognition of communities, services, data management, access policies, AAI models, privacy and legal, business models, SLA, user support
- **WP2 (The human factor of the EOSC: Dissemination, Outreach and Community building)** and **WP4 (From National Initiatives to trans-national services):** harmonisation of national policies, outreach and engagement of all EOSC-related stakeholders, coordination with “the EOSC bigger picture”
- **WP5 (The data layer: establishing FAIR data services at the national and transnational level)** and **WP7 (The infrastructure layer: delivering horizontal data storage and computing services, from national to transnational):** integration, delivery and validation of services at the data and infrastructure level
- **WP6 (EOSC in action: Use cases and community-driven pilots):** 9 pilots (and an open call!) selected on the basis of readiness level, trans-national nature, opportunity/interest of generalisation to other communities

Session on National views

Q1: Service onboarding - what is onboarded where and how

EOSC-Pillar has two WP dedicated to integration of services within EOSC. Selected services are born “thematic” and/or “national”, but share features (trans-national, multi-domain) which make the relevant experience suitable to be generalized.

- WP6 focuses on data: 9 trans-national (multi-domain) pilots
 - data provenance, FAIR data for environment and earth communities, data repositories interconnection, software code preservation, SSH, life-sciences, seismology, cultural heritage
 - additionally, there is an open call to select new pilots (M18-M36)
- WP7 focuses on services: bring national services to EOSC (or make them ready to be connected to EOSC), overcoming technical and non-technical difficulties, to provide seamless access to services/infrastructures/data.
 - Scale up services (GPU computing, Galaxy, Business Decision Support System, VLE/VRE, “code mobility”) to European level, and validate (services themselves, integration procedure, AAI solutions).

Final goal: assess robustness, establish operational readiness for production environment.

Session on National views

Q1: Service onboarding - what is onboarded where and how (cont.)

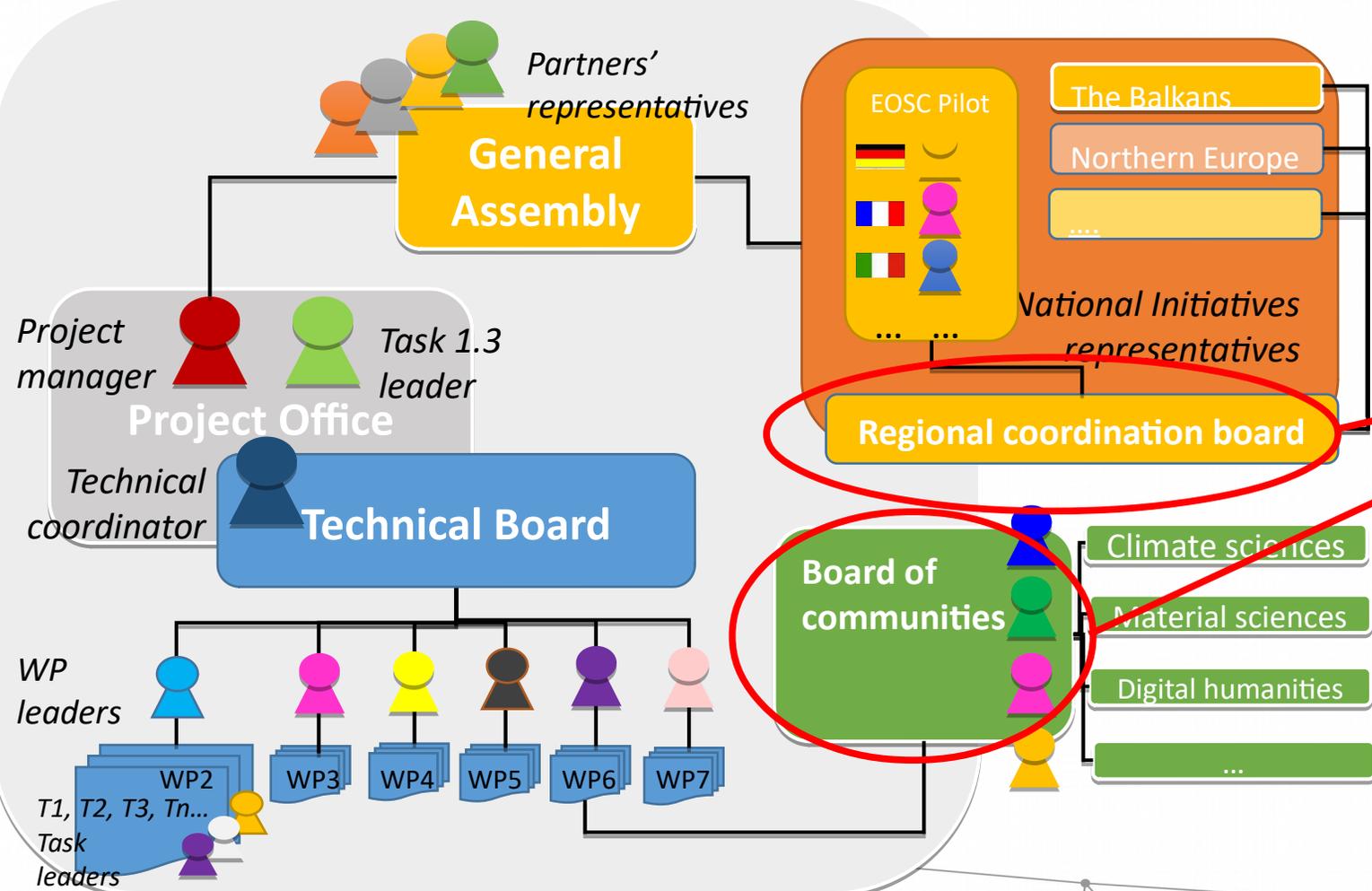
What functionalities should the portal offer?

- as a minimum, act as a registry, capable to interoperate with national “(functional) clones”
- additionally, offer API access, allow communities to create tailored views
- the portal should “solve some of the researchers’ problems”: for example, suggestion of services of potential interest (too futuristic?)
- side effect: “certification”. May mean different things according to specific services, may have something to do with “quality”.

Session on National views

Q2: National Open Science Cloud Initiatives – relationship with existing structures, possible models

National Open Science Cloud Initiatives are at different stages of formation.



Some countries may even lack a recognized representative entity. **Consolidation** and **coordination** are essential.

EOSC-Pillar envisaged the co-creation of:

- Regional Coordination Board
- Board of Communities

which in our idea should evolve into “strong influencers of the EOSC governance”

Session on National views

Q3: Training, outreach and FAIR adoption strategies – joint vision

EOSC-Pillar tackling FAIR aspects in WP5:

- services, to become part of the EOSC portal: build upon technology and expertise from OpenAIRE, D4Science, EuDAT, EMMC-CSA, MarketPlace, FORCE.
 - services for research data providers: identify, develop and operate services facilitating the creation of a federated FAIR research data space
 - services for research data users: access, management, ownership, search, re-use of existing data
- Promote FAIR practices and support FAIR-oriented data stewardship: collect approaches, analyze different practices. Coordinate and liaise with FAIRsFAIR, Go FAIR, OpenAIRE, EuDAT,...
- Training events and webinars, targeting both data providers and data consumers. Possibly tailored for specific community and/or stakeholder group: covering aspects of data preparation, metadata, ontologies, tools, legal frameworks.

Session on National views

Q4: Collaboration agreements – minimum baseline

In principle, would cooperate in all areas identified this morning:

- 1 – Landscaping;
- 2 – Training and Skills;
- 3 – FAIR data;
- 4 – National policies & Governance;
- 5 – Onboarding;
- 6 – Dissemination and Events.

Generally speaking, each project will have own specific view for each area.

Thanks for your attention