



european future
innovation system
centre



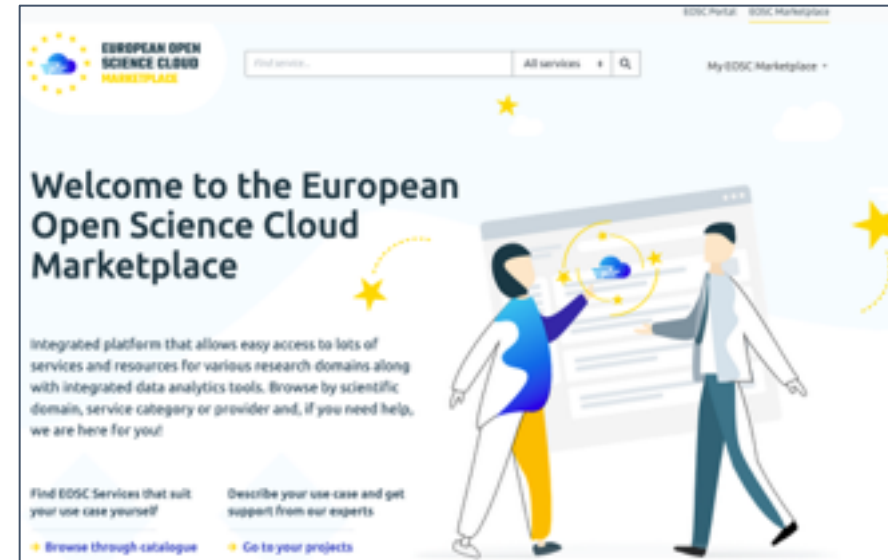
EOSC-Enhance

Journée EOSC au CNRS
22 January 2020, Paris

A bit of context

- Q2 2017: Establishment and development of an EOSC Portal decided by the European Commission (proposed by Commissioner Moedas)
- Q3 2017: Ad-hoc funding allocated by the EC in the INFRAEOSC-06 call topic to support its further development until 2020
- 2017-18: Initial development of EOSC Portal carried on by a collaboration agreement among eInfraCentral, EOSC-Hub and OpenAIRE-Advance projects.
- Q4 2018: First version of the EOSC Portal unveiled at the EOSC Launch Event
- Q4 2019: EOSC Enhance awarded with EC grant to boost the functionality of the EOSC Portal

EOSC Portal: main building blocks



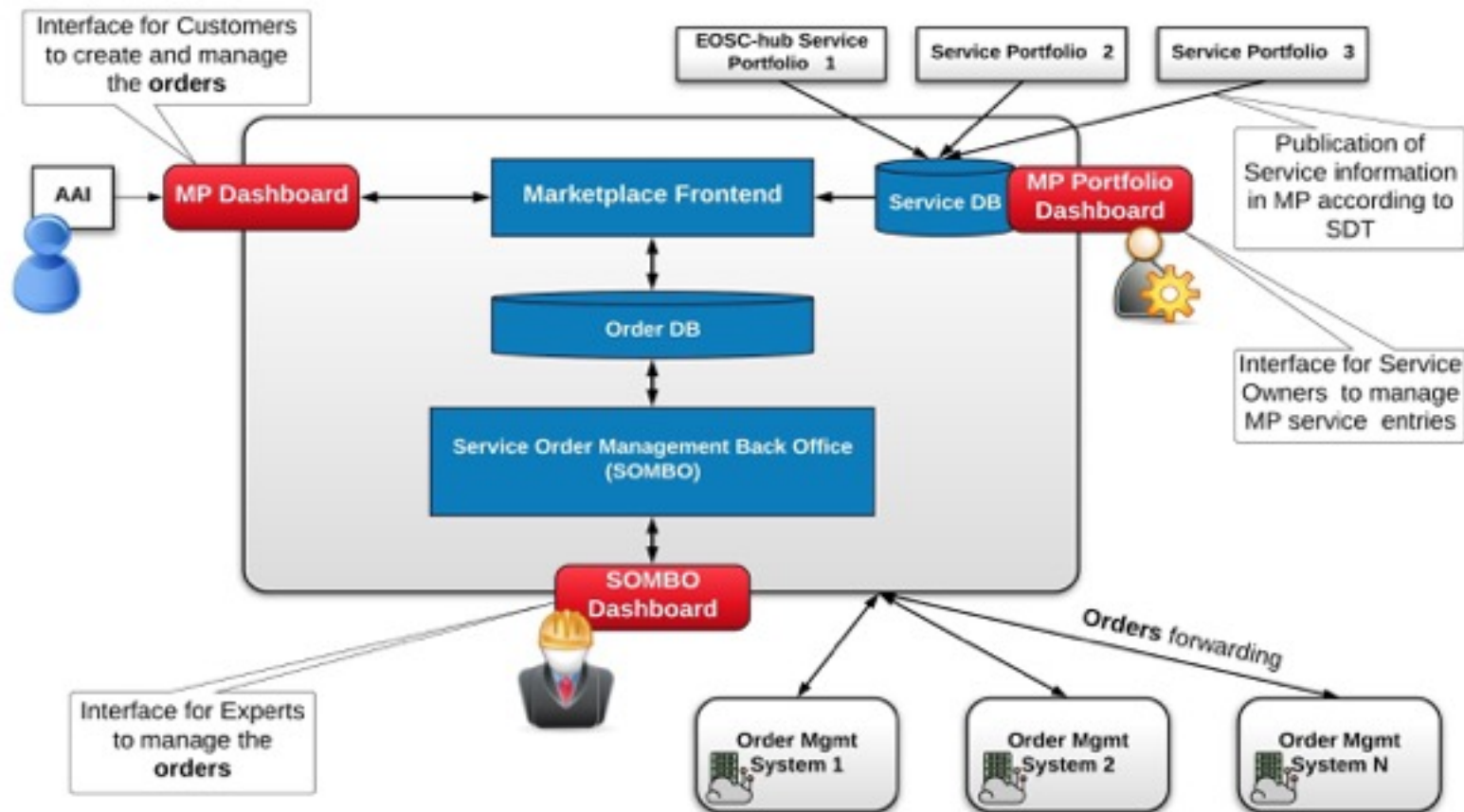
- For providers: publication and aggregation of services and research outputs information
- For users: browsing, comparison

<http://catalogue.eosc-portal.eu/home>

-) For providers: publication after validation of eligibility criteria related to service TRL of services and research outputs after validation
-) For users: browsing, ordering, user ↔ Provider interaction

<https://marketplace.eosc-portal.eu/>

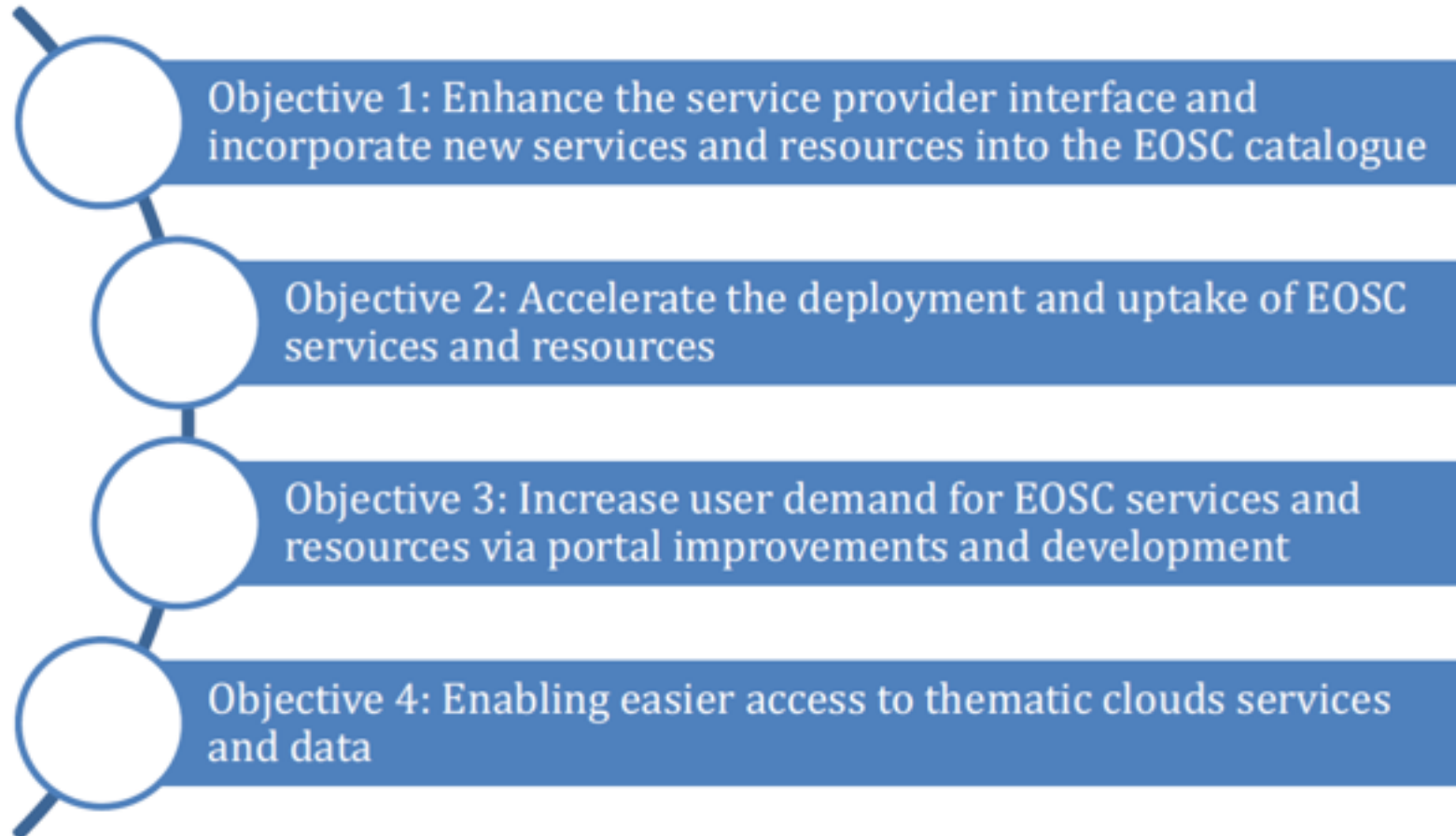
EOSC Portal Catalogue & Marketplace Architecture



EOSC Enhance: The consortium

Participant organisation name	Short Name	Country
EUROPEAN FUTURE INNOVATION SYSTEM CENTRE	EFIS	BE
TRUST-IT SRL	TRUST-IT	IT
JNP STRATIGIKI KAI EPICHIRISIAKI SYMVOULEFTIKI IKE	JNP	EL
AKADEMIA GORNICZO-HUTNICZA IM. STANISLAWA STASZICA W KRAKOWIE	CYFRONET	PL
ETHNIKO KAI KAPODISTRIAKO PANEPISTIMIO ATHINON	UOA	EL
University of Manchester	UNIMAN	UK
STICHTING EGI	EGI	NL
EUDAT OY	EUDAT	FI
GEANT VERENIGING	GEANT	NL
OPENAIRE AMKE	OPENAIRE	EL
INTEGRATED CARBON OBSERVATION SYSTEM EUROPEAN RESEARCH INFRASTRUCTURE CONSORTIUM	ICOS	FI
CESSDA ERIC	CESSDA	NO
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS - Laboratoire d'Annecy de Physique des Particules (LAPP)	LAPP	FR
EUROPEAN MOLECULAR BIOLOGY LABORATORY	EMBL	DE
ILL	ILL	FR

Objectives



- EOSC Enhance combines a **product development axis** (EOSC Portal enhancements) and a **service operation axis** (EOSC Portal operations) running in parallel. The workplan is organised around five workpackages delivering the main project products while the operations aspect is spread horizontally in all WPs and is coordinated by WP1.
- Furthermore, EOSC Enhance will build on specifications, software, content, etc of a number of EOSC coordinating projects, mainly [EOSCpilot](#), [eInfraCentral](#), [OpenAIRE-Advance](#), [EOSC-hub](#) and [CatRIS](#) to communicate, collect, integrate, deploy and maintain the best in class of the available systems that construct a robust EOSC Portal.
- Collaborate with flagship EOSC contributing projects at mature stage concerned with the integration of their services and resources into a single operational platform with fully functional and comprehensive interfaces.
- Last but not least, EOSC Enhance has to package and deliver all new developments to the successor project resulting from INFRAEOSC-03-2020 in a very comprehensive and professional manner at the end of 2021.

WP1: Project management and strategic coordination with EOSC Stakeholders

OBJECTIVES

- setting up the appropriate procedures and management structure for the achievement of the overall projects' objectives and to ensure joined up implementation across the work-packages
- facilitating the continuation of the previous fruitful collaborative work on the EOSC portal, to further enhance its functionalities and to incorporate progressively access mechanisms to services offered by other scientific gateways and thematic platforms
- enabling joint work plans and exploring synergies with relevant projects contributing to the development of the EOSC portal
- liaison with EOSC governance and related stakeholders to establish a constructive and continuous exchange of input with its bodies and working groups
- figuring out measures for the sustainability of the EOSC Enhance project results and its follow-up, including the long-term strategic role of the EOSC Portal within the EOSC Federating Core.

- **Task 1.1: Project planning management and financial & operational**

The coordination of the project activities, internal procedures and the timely mobilisation of resources. Adjust and further develop the work-package (WP) planning and deliverables description.

- **Task 1.2: Quality and data management and operational oversight**

Follow-up and oversight of continual improvements to the EOSC portal functionalities. Developing and applying an internal quality and risk management plan (QRMP)

- **Task 1.3: Liaison with EOSC governance and stakeholders**

Liaison with relevant chairs of EOSC WGs and EB and participation to the relevant meetings of the EOSC EB and WGs scheduled via the EOSC Secretariat project. Establishment of joint work plans by Memorandum of Understandings (MoUs) with relevant EOSC initiatives.

- **Task 1.4: Sustainability planning for the next phase of the EOSC Portal**

Collect and analyse the needs of the post 2020 EOSC Portal to consolidate its function as universal entry-point to the EOSC. Liaising with the EOSC WG on Sustainability and monitoring state of play to prepare a sound business plan for the EOSC Portal focusing on related costs as well as on current and possible future funding sources.

WP2: EOSC Portal specifications, interoperability and quality framework

OBJECTIVES

Develop a unified EOSC Catalogue Framework, mutually accepted by EOSC stakeholders for describing and offering services and resources (SaR) to end-users in a harmonised way, guaranteeing the interoperability of SaR information with open APIs and quality across all the EOSC contributors [Aggregators, Repositories and Marketplaces of thematic and national/regional initiatives and clusters (ARMs), Research Infrastructures (RIs) and Service and Resource Providers (SRPs)]

- improve interoperability enabling discovery of the wide range of services and resources through the EOSC Service Catalogue with minimum disturbance for the EOSC contributors (initial low barrier to entry);
- deploy processes that allow for the provision of added value services by combining services, resources and those processes;
- develop the framework to allow automated management of the service and resource information and their accompanying data without human intervention (e.g., harvesting, etc).

- **Task 2.1: EOSC contributors (ARMs, RIs and SRPs) state-of-play analysis**

Scoping activities studying active clustering and aggregation initiatives to derive common practices and techniques, dissimilarities, overlaps and best practices of ARMs, RIs and SRPs. Compilation on repositories, catalogues, marketplaces, aggregators, especially their integration models and techniques. Categorising existing service and resource to identify and address potential gaps.

- **Task 2.2: EOSC services and resources description and classification**

Define an inclusive common service and resource definition model and service management for ARMs, RIs and SRPs to reach a harmonised approach to service and resource catalogues while taking stock of good practices from EOSC-related projects and partners, as well as emerging standards and frameworks. Increase visibility of services and resources and will help the stakeholders to identify the service they need.

- **Task 2.3: Service onboarding and validation**

Onboarding and validation process of interested ARMs, RIs and SRPs and their offerings in the EOSC Catalogue. Validating the EOSC Rules of Participation (RoP) in collaboration with other EOSC contributors and EOSC projects. Developing metrics for objectively validating the registered services combined with a feedback system from users.

- **Task 2.4: Quality assurance and support measures**

Establishing a quality process to review and maintain the completeness, accuracy and class characteristics of the registered services. Developing the content for online training and seminar modules

WP3: Design and development of the EOSC Portal functionalities towards Service and Resource Providers

OBJECTIVES

- Design of the functional specifications that support ARMs, RIs and SRPs in contributing services and resources to the EOSC Portal
- Implementation of the onboarding process for registering new services in the EOSC catalogue
- Integration in the EOSC Portal of the order management services for handling new service requests by the end-users of the EOSC Portal
- Implementation of analysis and visualization services for SRPs to view and analyse the uptake of their offerings and user feedback in the EOSC Portal.
- Specifications of the open APIs for enabling exchange of information related to service updates and service usage with the EOSC Portal

- **Task 3.1: Functional Specifications, Architecture design and setup**

Design of the functional and architectural specifications and the design of the EOSC Portal Services to be offered to SRP. Address issues related to UI/UX, open APIs and underlying knowledge base and structures, workflows from content registration to delivery. Describe non-functional specifications

- **Task 3.2: Registration and Validation Services**

Implement the services offered for the onboarding of new SRPs and implement measures verifying the conformance of registered services and resources metadata to the agreed guidelines.

- **Task 3.3. Order Management Services**

Integrate order management tools developed within the EOSC-hub project into the EOSC Portal. Enable SRPs to define required or related services, datasets and resources from the EOSC catalogue that can be jointly used (ordered) with their offerings.

- **Task 3.4. Provider Analytics**

Enhance EOSC SRP workspace (dashboards) for the monitoring and management of their resources. Develop the services for the SRPs to access and analyse usage statistics about their offerings in the portal, via rich visualizations

WP4: EOSC Portal Functionalities towards EOSC End-Users

OBJECTIVES

- Integrating all activities aiming at making the EOSC Portal the universal entry point to the EOSC for European researchers including the “long-tail” of science.
- Enhancing user experience in discovery and access of EOSC services
- Providing a ‘single voice to market’, ensuring that each category of users see a coherent and consistent message across the EOSC Portal.
- Integrating the EOSC Service Catalogue and the EOSC Marketplace into a single coherent solution, will present a seamless experience for the end-user.
- Developing enhanced EOSC Portal features that would promote valuable, accessible, mature solutions and will increase the EOSC Portal value through validation in realistic scenarios.

- **Task 4.1: User experience modeling for key scenarios and personas**

Developing the UX model, such as harmonised user journeys for specified categories of user, based on common user interaction scenarios, verification procedure and results.

- **Task 4.2: Improving user experience for service discovery and presentation**

Integrating software components allowing users to discover services and resources at the EOSC Portal.

- **Task 4.3: Improving access and other user-facing operational processes**

Adds-on to the EOSC Portal allowing users to order services and act in any other relevant operation processes.

- **Task 4.4. Improving discoverability and accessibility of research data**

Add-on for discovery of research data from 5 RI clusters to the EOSC Portal, guidelines for other RIs to enable discoverability.

WP5: EOSC Dissemination, Stakeholder Requirements & Engagement

OBJECTIVES

- Gather portal stakeholder requirements
- Engage stakeholders (already active & newcomers)
- Organize sessions and workshops
- Liaise with existing and newly funded projects
- Enhance & maintain the “informative part” of the EOSC Portal website
- Implement a communication & outreach strategy (w/ Portal Editorial Board)
- Publish Success Stories via the EOSC Portal

- **Task 5.1: Stakeholders consultation, requirements gathering & participation into EOSC Portal**

Identifying, connecting and engaging with key projects, initiatives and developments at the national and European level that can contribute to the EOSC Portal evolution; gather, analyse and prioritize requirements. Organising dedicated “stakeholder-oriented” sessions and workshops and online consultations to support the technical WPs.

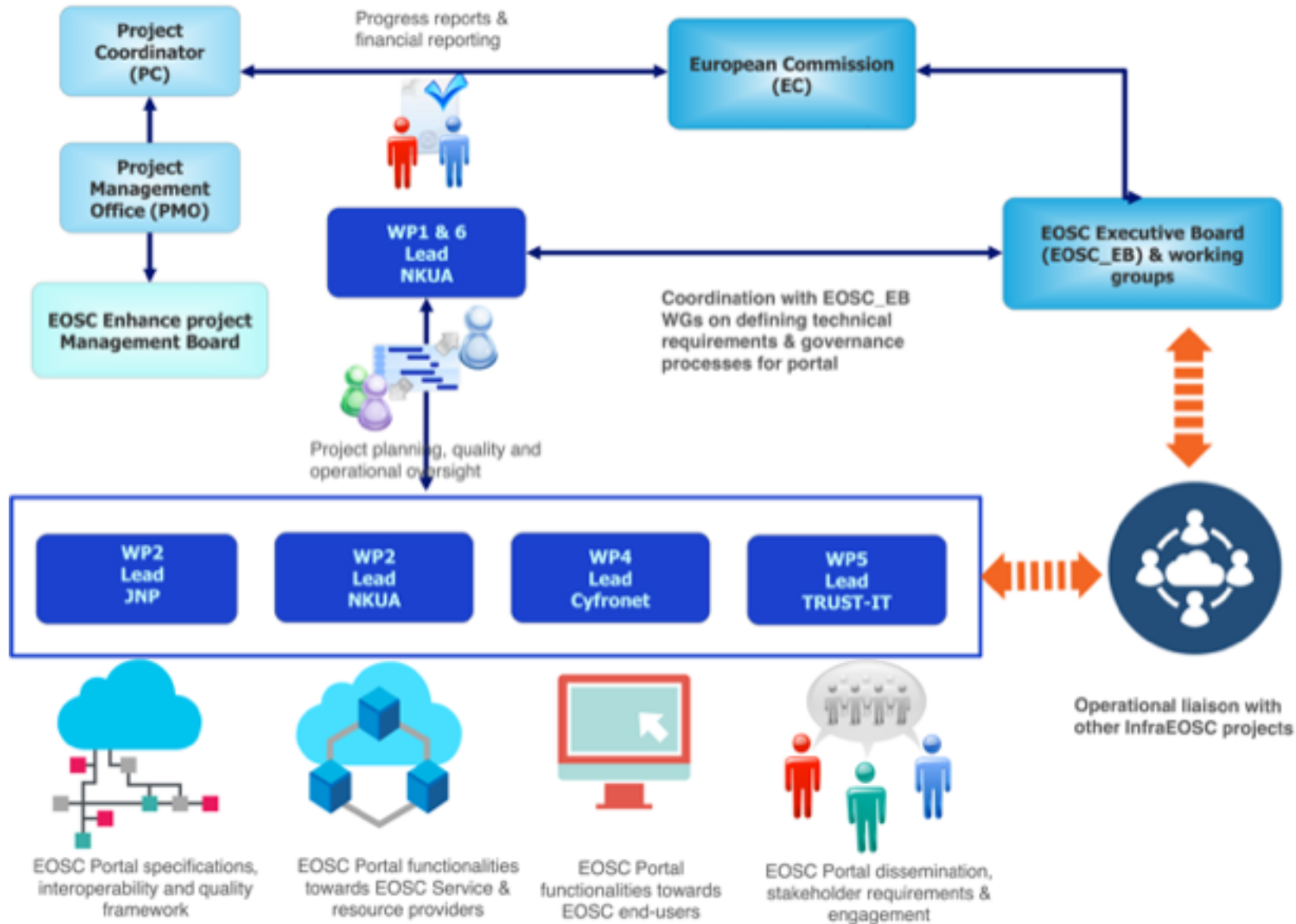
- **Task 5.2: Enhancement and operation of the EOSC Portal overall website**

Operating and maintaining the EOSC Portal website; liaise with the EOSC Portal Editorial Board and Task 5.3 to develop new features of the website to support the evolving communication and stakeholder engagement needs of the Portal. Ensuring a proper usage of the EOSC branding in the evolution of the portal.

- **Task 5.3: Realising the EOSC Portal value proposition in dissemination, communication & outreach**

Supporting the enhancement of the EOSC Portal with a valid communication and dissemination strategy to address the overall value-proposition and attractiveness of the EOSC Portal.

Project structure



Project timeline

EOSC ENHANCE			Year 1												Year 2												
Work packages and tasks		WP/T lead	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
WP1	Project management, financial & operational reporting	NKUA																									
T1.1	Project management, financial & operational reporting	NKUA	M1.1																M1.3								M1.4
T1.2	Quality, data management and operational oversight	EFIS	D1.1		D1.2			D1.4			D1.5								D1.2			D1.6					D1.9
T1.3	Liaison with EOSC governance and stakeholders	EFIS		M1.2			M1.2			M1.2			M1.2					M1.2			M1.2				M1.2		
T1.4	Sustainability planning for the next phase of the EOSC Portal	EFIS												D1.7												D1.8	
WP2	EOSC Portal specifications, interoperability and quality framework	JNP																									
T2.1	EOSC contributors (ARMs, RIs and SRPs) state-of-play analysis	EFIS					D2.1																				
T2.2	Service description and classification	JNP										M2.1	D2.2												D2.3		
T2.3	Service onboarding and validation	JNP											M2.2	D2.4											D2.5		
T2.4	Quality assurance and support measures	JNP									D2.6		M2.3														
WP3	EOSC Portal functionalities towards EOSC Service & Resource Providers	NKUA																									
T3.1	Functional Specifications, Architecture design and setup	NKUA												D3.1													
T3.2	Registration and validation services	NKUA									M3.1																
T3.3	Order management services	CYFRONET															M3.2										
T3.4	Provider analytics	NKUA																	M3.3								
T3.5	EOSC APIs specifications	NKUA																						D3.2			
WP4	EOSC Portal functionalities towards users	CYFRONET																									
T4.1	User experience modeling for key scenarios and personas (B2C and B2B)	CYFRONET				D4.1													D4.2								
T4.2	Improving user experience for service discovery and presentation	CYFRONET																		M4.2							
T4.3	Improving access and other user-facing operational processes	CYFRONET										M4.1													M4.3		
T4.4	Improving discoverability and accessibility of research data	UNIMAN						D4.3																D4.4			
WP5	Dissemination, Stakeholder Requirements & Engagement	TRUST-IT																									
T5.1	Stakeholders consultation, requirements gathering & participation into EOSC portal	EFIS						D5.2												D5.3							
T5.2	Enhancement and maintenance of the EOSC portal website	TRUST-IT												M5.1										M5.2			
T5.3	Realising the EOSC portal value proposition in dissemination, communication & out	TRUST-IT				D5.1																				D5.4	
WP6	Ethics Requirements	NKUA	D6.1																								



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Thank you

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