

Additional Activities Plan reporting template

European Partnership for the European Open Science Cloud (EOSC)

The aim of this Additional Activities Plan is for the Partnership Board to annually list the Additional Activities they want to steer R&I investments towards to achieve partnership's objectives. The Additional Activities listed here would be the one available in the next annual reporting template for Additional Activities.

In order for the costs to be accounted for as in-kind contributions, the underlying additional activities shall be carried out in the European Union or countries associated to Horizon Europe.



Year: 2023

Total annual envisaged in-kind contributions in Additional Activities by the Partners other than the 383,929,296 €

Category [please select]	Envisaged Additional Activities type (to be selected from "Additional Activities list" tab)	Description of the Additional Activities (Please provide more information on the envisaged Additional Activities)	Link to partnership's objectives / KPIs (to be selected from SRIA/MoU)	Estimated number of FTEs per Additional Activity type	Estimated financial contribution (value of FTEs included) per Additional Activity type	Estimated number of FTEs Per category	Estimated annual value Per category (see Note 2)
1. Support to additional R&I	1.1 Upgrade of existing research infrastructures and e-infrastructures so that they may be federated through EOSC - see note 3	1. Upgrade of the existing institutional and national repositories (e.g., integration of ORCID, assigning DOIs), upgrade of the data catalogues 2. Upgrade of the existing institutional, local, and national data/ research infrastructures (e.g., databases, publishing platforms, e-archives) that may be federated through EOSC 3. Implementation of interfaces to integrate computer and data management solutions to ease access and reuse data 4. Scale up the e-infrastructure capabilities of data centres and improving their connectivity with the EOSC and other European infrastructures 5. Upgrade of data storage infrastructures and/ or research data management services (e.g., upgrade of DOI management application) 6. Enhancement of DMP online tools 7. Upgrade of the Digital Object Gateway 8. Upgrade of the SSH Open Marketplace	SO1 SO4 SO6 SO7 SO8 OO2 OO5 OO10 OO11 OO13 AA3 - FAIR metrics & certification AA4 - AAI AA5 - User Environments AA6 - Resource Provider Environments AA14 - Widening to public & private sectors & going global	200.6	87,376,585.00 €	420	114,288,546 €
	1.2 Development and deployment of EOSC-compatible search engines to allow the researchers to explore rich metadata and semantic descriptions in EOSC-connected registers	1. Development of terminology services for exploring, publishing, and developing shared ontologies, vocabularies, and terminologies 2. Implementation of data catalogues together with an automatic metadata enrichment 3. Development of research output discovery in e.g. Limo Lirias, Research Data Repository front-end, metadata distribution to FRIS portal, OpenAire, Google Scholar and Google Dataset Search 4. Deployment of EOSC-compatible metadata	SO1 SO4 SO6 SO7 SO8 OO2 OO5 OO10 OO11 OO13	66.0	8,051,534.00 €		
	1.3 Deploying EOSC-Core components for FAIR (e.g. the deployment of online tools for data FAIRification or to help creating FAIR Data Management Plans)	1. Development and pilot of public data repository services for institutions not having capacity to deploy their own repository 2. Provision of standard services for Data Management Plan Tools (e.g., DMPOnline), implementation of DMP standards, deployment of different FAIR online tools to support researchers e.g., DMP tools, PRET platform, iRODS infrastructure for active data management, diversified storage solutions, tools like FAIR-	SO1 SO6 OO5 AA2 - Metadata & Ontologies AA3 - FAIR metrics & certification AA5 - User Environments AA6 - Resource Provider	66.5	7,633,610.00 €		

	1.4 Development and publication of large scale studies	1.Funding of two large open cohort studies: the Swiss Transplant and the HIV Cohort Study aiming at a nationwide comprehensive and structured data collection and build a national, open database 2.Supporting and hosting several large studies	SO1 SO5 SO6 SO8 OO1 OO2	28.1	5,202,500.00 €		
	1.5 Contribution to operating core functions of a Minimum Viable EOSC ecosystem	1. AAI infrastructure deployment 2. Implementation of MVE Research Infrastructures (e.g. Connectome Research Infrastructure) 3. Preparation of the secure cloud environment and contribution to the deployment of country-wide AAI fully compliant with EOSC architecture (also providing fully compliant LS AAI for the Life Science community Europe-wide) 4. Cloud operation and management of the EOSC	SO1 SO5 SO6 SO7 SO8 OO1 OO5 OO10 OO11	59.1	6,024,316.75 €		
2. Scale up of technologies	2.1 Investment done complementing the results of a project, bringing it to a higher TRL level (e.g. EOSC thematic services) or to deployment	1.Continuous improvement of thematic services registered in EOSC Portal (e.g. support on the development of EOSC thematic services) 2.Various investments within Connectome poroject as well as investments being part of ELIXIR, LifeWatch and HL-LHC	SO4 SO7 SO8 OO1 OO5	33.3	9,122,289.50 €	159	21,741,460 €
	2.2 Uptake of EOSC projects' outcomes trough adoption of, for instance, new open specifications, standards for data interoperability, common EOSC frameworks for managing AAI, also but not exclusively in the context of public procurements	1. Integraton of new or updated services resulting from EOSC-related projects in the VLO and make them discoverable through EOSC Portal within the SSH Open Marketplace 2. Adoption of open (IVOA) standards for interoperability 3. Adoption of outcomes of relevant projects (e.g. SSHOC, EOSC Future, OpenAIRE, OPERAS) 4. Injection of knowledge from 'EOSC interoperability framework' and 'A Persistent Identifier (PID) policy for the European Open	SO1 SO4 SO5 SO7 OO1 OO5 OO6 OO10 OO11 OO12	64.7	6,634,569.50 €		
	2.3 Implementation of technical specifications required to provide services through the EOSC	1.Standardization and vocabulary development activities relevant for EOSC 2.Implementation of state-of-the-art standards for metadata, interoperability and persistent identification for the upgrading of the cultural heritage digitised collections repository 3.Support implementation of technical specifications within AUSSDA/CESSDA catalogue with link to EOSC	SO1 SO4 SO5 SO7 OO1 OO6 OO10 OO11 OO12	61.0	5,984,601.00 €		
	3.1 Investment in new platforms, demonstrators, pilot use cases exploiting domain-specific user environments and supporting the EOSC vision including the value of sharing FAIR and open research data and other research digital objects such as software	1.Pilot of new services and pilot applications in the context of the Open Research Knowledge Graph for various applications and science domains 2.Implementation of a pilot case for digital critical national editions, fully compliant with state-of-the-art domain standards and EOSC vision for FAIR data 3.Development of the AlmaHealthDB (AHDB) infrastructure that allows researchers to collect and access large volumes of health data in compliance with legal, organizational, and	SO1 SO4 SO5 SO6 SO7 SO8 OO1 OO4 OO5 OO6 OO12	165.5	85,711,357.62 €		

3. Demonstrators	3.2 New (pre-)commercial services and capabilities along the data life cycle addressing current and anticipated needs of the research community at large	<p>1.Implementation of services and related policies for data management, processing and orchestration in accordance with potential commercial use-cases</p> <p>2.Implementation of a set of additional commercial functionalities to the Educloud that aims to serve as general service available for users to be consumed from anywhere</p> <p>3.Development of commercial services and capabilities under Connectome project</p> <p>4.Development of sustainable OA Book focused analytics service, helping safeguard and support diversity in the voices, perspectives, geographies, topics and languages made visible through OA Books to be Findable and Accessible in ECCC</p>	<p>SO4 SO7 OO1 OO5 OO10</p> <p>AA4 – AAI AA5 - User Environments AA6 - Resource Provider Environments AA7 - EOSC Interoperability Framework AA14 - Widening to public & private sectors & going global</p>	63.6	8,347,190.62 €	229	94,058,548 €
4. Creating new business opportunities	4.1 Invest in start-ups, spin-offs on solutions developed within the projects	<p>1.Support the exploitation of project results through the initiation of dedicated spin-offs such as LIBRIS-tech (e-publishing), InnoEtics (communication, robotics and knowledge processing), Symbiolabs (machine learning digital services)</p> <p>2.Invest in "Foodcapture"- a spin-off from TSD looking at nutrition surveillance in homes for</p>	<p>SO8 AA14 - Widening to public & private sectors & going global</p>	1.5	70,000.00 €	24	2,110,000 €
	4.2 Start incubators/accelerators	<p>1. Organisation of bootcamps, hackathons and datathons within Corallia project/ Hellenic Technology Cluster Initiative that fosters collaboration between Science, Entrepreneurship and Industry, also in terms of data accessibility</p>	<p>SO8 AA14 - Widening to public & private sectors & going global</p>	1.0	40,000.00 €		
	4.3 Matchmaking between different start-ups, - SMEs, participating companies, stakeholders	<p>1. Support for SMEs and start-ups through Veksthuset and Dscience (Centre for Computational and Data Science) centres by e.g. organising events/ exchanges related to data/ information sharing</p> <p>2. Matchmaking activities within Big Data and Business Analytics Observatory that aims to understand and portray the status quo of FAIR Data & Analytics in Italy. The Data Center workgroup is established for research related to activities on the Cloud Transformation Observatory with the aim of creating and spreading knowledge on the Italian Data Center supply chain and on the infrastructure existing</p>	<p>SO8 AA13 - Communication AA14 - Widening to public & private sectors & going global</p>	14.5	1,200,000.00 €		
	4.4 Investments in procurement of innovative solutions	<p>1.Procurement of innovative platform for scientific data preservation and management</p>	<p>SO8 OO7 AA14 - Widening to public & private sectors & going global</p>	7.0	800,000.00 €		
		1.Diverse education, training, and skills development activities (business workshops	SO1 SO2				

5. Training & skills development	5.1 Addressing the development of education, training and skills development in Open science and FAIR data management of research artefacts. Coordinating and aligning relevant curricula on skills for FAIR and Open Science, and training frameworks for young researchers, civil servants and policy makers	development activities (webinars, workshops, online courses, mutual learning events) in Open Science, RDM and FAIR data management of research artefacts also in the context of EOSC related services 2. Contribution to the National Digital Skills and Jobs Coalition by supporting RPOs in delivering training on FAIR & ORDM as well as on the use of EOSC-relevant services 3. Development of training materials and guidelines covering RDM topics like anonymization, best practices, FAIR principles, DMPs; continuous upgrading of training materials on FAIR data, RDM, DMP, OA	SO2 SO4 SO6 SO8 OO3 OO4 OO6 AA1 – Identifiers AA2 -Metadata & Ontologies AA3 - FAIR metrics & certification AA5 - User Environment	265.7	24,575,983.00 €	266	24,575,983 €
6. Contribution to the development of new standards, regulations and policies	6.1 Standardisation and certification activities related to EOSC trusted repositories (e.g. CoreTrustSeal and FAIR)	1. Preparation of repositories and national repository platform for CTS certification 2. Core Trust Seal certification of institutional research data repositories and local storages connected to DORIS repository work 3. CESSDA Trust support and AUSSDA CTS certification	SO1 SO3 SO4 SO6 OO6 OO12	63.8	6,815,474.00 €		
	6.2 Translate FAIR guidelines and frameworks to make them applicable to other digital objects, such as software, code, data management plans, protocols	1. Development of applicable FAIR guidelines and frameworks 2. Establishment of templates and protocols to manage data according to FAIR principles for the research community 3. Contribution to the development of applicable FAIR guidelines and DMP elaboration guidelines through EERTIS 4. Implementation of discipline specific RDM strategies 5. Implementation of a data management policy together with DMPs	SO1 SO2 SO3 SO4 SO5 OO3 OO4 OO5 OO6 OO7 OO8	76.2	7,527,630.00 €		
	6.3 Continuous standardisation of PID resource types and promotion of new practices to expand the range of identifiable research objects e.g. instruments, services, organisations and software	1. Collaboration with DataCite with respect to various PID standardization activities, work with DataCite DOI service 2. Alignment of PID usage across national DOI users 3. Using and promoting the use of DOI for OGS digital materials 4. Application in institutional context (eRA, PID service), contributions to committees (e.g., DataCite, CrossRef, ORCID-DE, Eurocris)	SO1 SO2 SO3 SO4 SO5 OO1 OO4 OO7 OO8 OO11	58.6	5,715,553.00 €	307	30,981,585 €
	6.4 Support all research communities to develop and adopt domain-specific standards and to consolidate common metadata and data schema for use in the EOSC context	1. Support research communities in the SSH and beyond to adopt domain-specific standards 2. Working with research communities through national Task Forces to support their adoption of the metadata standards relevant in their domains 3. Support to LifeWatch and CSIC's Teledetection Thematic Platform on the adoption of relevant standards for their domains of knowledge and	SO1 SO4 OO4 OO5 OO12 AA2 -Metadata & Ontologies AA3 - FAIR metrics &	108.5	10,922,927.50 €		
7.1 Define and test financing models for a lasting long-term EOSC sustainability framework	1. Participation in EOSC-A Task Force 'Long term data preservation' 2. Contribution to the work of EOSC Association Financial Sustainability Task Force	OO13 OO14 AA9 – Landscape Monitoring AA10 – Funding Models	23.8	2,366,000.00 €			

7.2 Development of consensual EOSC frameworks and guidelines (e.g. for interoperability, AAI, the implementation of EOSC rules of participation)	1.Participation in EOSC-A Advisory Group "Technical challenges on EOSC" – Task Force 'AAI Architecture', Task Force 'Technical interoperability of data and services' 2.Work on EOSC compatible AAI ecosystem for specific scientific domains	SO5 OO4 OO5 OO13 AA3 - FAIR metrics & certification	38.2	3,565,814.00 €	
7.3 Support to knowledge building and sharing with the research domains to support data-intensive-science and inter-disciplinary research	1.Collaboration with national RPOs and researcher networks to facilitate transition towards Open Science (FAIR Data, RDM) 2.Coordination and support across all CSIC research areas with regards to digital and open science through CSIC's Digital Science thematic	SO1 SO4 SO8 OO2 OO4	79.7	31,237,714.00 €	
7.4 Building industry-academia cooperation (e.g. GAIA-X and other industry-driven initiatives)	1.Collaboration Sunet/RISE to establish a joint national EuroHPC node, focusing on industry-academic use cases 2.Foster collaboration with industry stakeholders within GAIA-X through CSIC's Digital Science thematic platform 3.Involvement in GAIA-X AISBL, GAIA-X national hubs, EuroHPC, Digital Innovation Hubs and	SO8 AA9 – Landscape Monitoring AA14 - Widening to public & private sectors & going global	76.1	7,944,148.00 €	
7.5 Enforcement and implementation of the EOSC Persistent Identifier (PID) policy and architecture	1.Enforcement and implementation of EOSC PID policy through (revised) institutional/ national Open Science policies/ documents 2.Implementation of automatic DOIs in datasets collected in one beamline supporting ICAT data	SO1 SO2 SO4 OO11	26.7	2,500,400.00 €	
7.6 Encouraging and incentivising use of European infrastructure for sharing of research software	1.Promotion of the use of Software Heritage and FAIR software route 2.Fostering usage of EOSC across all CSIC institutes through CSIC's Digital Science thematic platform 3.Promotion of the services from ERICs like EATRIS and ELIXIR through the institutional	SO6 SO7 OO1 OO7 AA5 - User Environments AA6 - Resource Provider	32.7	2,986,220.00 €	
7.7 Monitoring of EOSC key performance indicators (KPI's), investments and FAIR data production and management	1.National mapping/monitoring on open access to research data within national assignment 2.Engagement in OpenAIRE monitoring activities 3.Monitoring closely the progress on institutional KPIs by the Open Science team	SO5 OO2 OO7 AA9 - Landscape Monitoring	25.3	2,442,624.00 €	502
7.8 Contributing to a rewards and recognition framework that incentivises FAIR data and Open Science	1.Development of national rewards and recognition framework within national FAIR Strategy implementation 2.Establishment of Research Assessment Group dedicated following topics related to the rewards and recognition framework that incentivises FAIR data and Open Science 3.Promotion, dissemination, consultation/ mutual learning exercises and policy advise on new indicators for research assessment and rewards, including EOSC, Open Science, RDM	SO1 SO4 OO8 AA3 - FAIR metrics & certification AA12 - Rewards & Recognition AA13 – Communication OO2 OO7	28.1	2,827,813.00 €	

7. Supporting ecosystem development

71,164,691 €

	7.9 Activities contributing to strategic and operational alignment, coordination and synergies with other partnerships, HE missions, initiatives, research data commons and data spaces	1.Collaboration with other infrastructures, partnerships, Horizon Europe missions, to implement into the strategic and operational plans at EU level innovative pediatric research to be developed in synergy 2.Contribution to strategic and operational alignment of pan-European e-Infrastructures through activities in e-IRG and EGI 3.Participations in international research infrastructures, providing data for an OS/EOSC environment e.g ELIXIR Belgium, AnaEE-Belgium, CLARIAH-VL, DiSSCo, EMBRC, ICOS, EMPHASIS-Belgium, ELIAR	SO1 SO8 SO9 OO4 AA9 - Landscape Monitoring AA14 - Widening to public & private sectors & going global	130.5	11,311,655.67 €	
	7.10 Contact points at national or institutional levels and coordination mechanisms for EOSC uptake by the research communities, infrastructure connection and FAIR implementation	1.Coordination and promotion of collaboration on the national work on open access to research data, coordination of the national engagement in EOSC 2.Participation in the Hellenic Open Science Initiative that aims to promote EOSC at national level 3.Coordination of national activities towards the implementation of EOSC, including work on the general conditions for this implementation 4.Setting up the national EOSC secretariats 5.Coordination of OS national activities as the national contact points for EOSC, being also the OS and EOSC national helpdesks supporting the	SO1 SO3 SO8 OO2 OO4 AA8 – Rules of Participation AA9 - Landscape Monitoring AA13 – Communication AA14 - Widening to public & private sectors & going global	41.1	3,982,302.40 €	
8. Communication, dissemination, awareness raising, citizen engagement	8.1 EOSC-related communication, dissemination, outreach and awareness raising activities	1.EOSC-related communication and awareness raising activities through all available communication institutional channels such as webpages, magazines, newsletters and through social media 2.Organisation of national Tripartite events involving the national stakeholders 3.Running EOSC Roadshow and other national and local events that aim to promote EOSC to research communities	SO2 SO3 SO4 SO8 OO3 OO4 AA5 - User Environments AA6 - Resource Provider	37.3	3,499,893.75 €	83
	8.2 Promoting EOSC at all levels by engaging with relevant communities and stakeholders	1.Maintenance of the dedicated webpages presenting EOSC-related activities, addressed to various communities 2.Collaboration with the infrastructures and e-infrastructures managers 3.Regular webinars addressed to researchers where EOSC and engagement opportunities are disseminated 4.Promotion of EOSC by engaging with research communities in the SSH, with the national stakeholders and the national infrastructures	SO1 SO3 SO8 SO9 OO4 OO5 OO7 OO8 OO9 OO14	45.3	4,271,495.75 €	
	9.1 Introduction of EOSC-specific references in research programmes and EOSC-related criteria for R&I funding	1.Establishment of the requirements for open access to publications of funded research 2.Setting up the requirements that a data management plan is drawn up before the research starts and that the plan is maintained	SO1 SO3 SO4 OO4	1.8	4,857,072.40 €	
						7,771,390 €

9. Other	9.2 Activities in support of open publishing and initiatives to promote wider open access publication through the EOSC	1.Support through Figshare Bolin centre and Figshare - an online open access repository to preserve and share research outputs, including figures, datasets, images, and videos 2.Open access publishing-related activities carried out by dedicated teams/ staff e.g., Open Access Office 3.Support to publication in Diamond Open Access through the institutional e-publishing Editorial Service	SO1 SO3 SO4 OO1 OO3 AA6 - Resource Provider Environments AA13 - Communication AA14 - Widening to	57.4	7,447,064.92 €	115	17,237,094 €
	9.3 Adoption of national or institutional strategies for digital transformation and related roadmaps including a reference to the EOSC	1.Support to the implementation of the Digital Strategy priorities 2.Implementation of the national digital transformation strategies 3.Adoption of the national strategy for FAIR research data management 4.Implementation of the institutional strategies for digital transformation and related roadmaps through a dedicated working group 5.Contribution to the national AI strategy and actions in the field of data platforms 6.Adoption of the national strategy for digital transformation	SO1 SO2 SO3 SO4 SO9 OO1 OO2 OO3 OO4 OO6 OO8 OO13	21.2	1,726,820.00 €		
	9.4 Adoption of new policies on Open Science referring to the use of the EOSC or the implementation of the FAIR principles. Definition of policy targets and action plans for the implementation of those policies	1.Publication of the institutional policies on management and sharing of data 2.Revision and update of the institutional policies on open access to publications 3.Adoption of the institutional road maps to Open Science with a set of the recommendations 4.Support to the implementation of activities included in the proposal for a National Open Science Plan	SO3 SO4 OO4 AA3 - FAIR Metrics & Certification AA8 – Rules of Participation	32.6	3,064,804.00 €		
	9.5 Liaise internationally to develop a global cooperation framework for Open Science infrastructures	1.Collaboration with the Federated Institutional Repositories of Scientific Publications Network which is a Latin American network of open access repositories 2.Collaboration aimed at raising the awareness for the potential benefits of sharing language resources via active links with nodes in South Africa, the US, Australia, and Latin America	SO8 SO9 AA14 - Widening to public & private sectors & going global	2.4	141,333.00 €		

Note 1: Column E ("Link to partnership's project/ topic") lists Horizon Europe calls/topics linked to the Additional Activity mentioned under column B. The Additional Activity mentioned under column B is complementary to the projects arising from the calls/topics mentioned in column E and therefore excludes the activities undertaken by the beneficiaries in the EU grants funded under the corresponding calls/topics.

Note 2: Column F ("Estimated value") indicates the amounts corresponding to the Additional Activity mentioned under point B but excludes any costs incurred by the beneficiaries in the EU grants funded under the corresponding call.

Note 3: Only federation activities and their corresponding amounts are included.