





The EOSC Partnership Monitoring Framework

V6.6

EOSC-A, THE 23RD OF MARCH 2022

This monitoring framework is co-developed by the EC and the EOSC Association.





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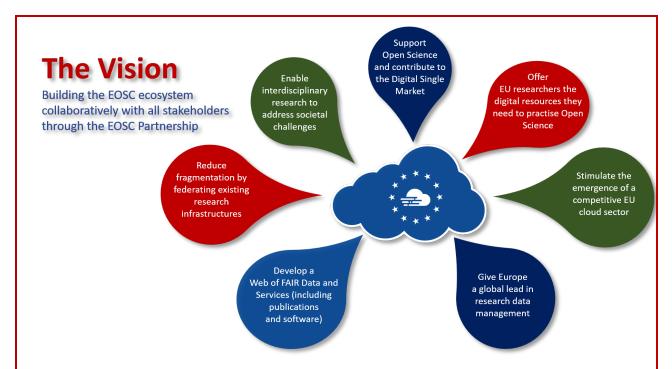
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1. The Vision: Building the EOSC Ecosystem through the EOSC Partnership

The European Open Science Cloud (EOSC) Partnership was launched with a Memorandum of Understanding between the European Commission ('EC', or 'Commission') and the EOSC Association AISBL ('EOSC-A' or 'EOSC Association'), in June 2021. The aim was to enable a trusted, virtual, federated environment in Europe to store, share and reuse digital outputs from research (including publications, data, metadata and software), across borders and scientific disciplines. With invited representatives of the EU Member States and Associated Countries to the EU research framework programme (MS/AC) in its governance bodies, the EOSC Partnership represents a new governance model for EOSC, placing stakeholders across Europe firmly in the driving seat. It will ensure, until at least the end of 2030, a coordinated approach in investments and initiatives in the EOSC ecosystem, from the European Commission, the MS/AC and the EOSC stakeholders, and will ensure directionality and complementarity of commitments and contributions, at all levels.



Vision: To create a trusted, virtual, federated environment in Europe to store, share and reuse digital outputs from research (including publications, data, metadata, and software) across borders and scientific disciplines. The EOSC Partnership will bring together institutional, national and European initiatives, data and service providers and all relevant stakeholders to co-design and deploy a European Research Data Commons where data are findable, accessible, interoperable and reusable (FAIR). EOSC will build on the past decade of investing in Open Science projects and initiatives by the European Commission, Member States and others. EOSC will enhance the possibilities for researchers to find, share and reuse publications, data, and software and will stimulate and enable researchers to work collaboratively and practise Open Science as well as to tackle the global societal challenges of the 21st century.

Mission: The EOSC Partnership shall advance Open Science to accelerate the creation of new knowledge, inspire education, spur innovation and promote accessibility to and transparency of publicly-funded research outcomes.





The creation of the European Open Science Cloud Partnership forms the central element in the development of the EOSC ecosystem, defined by the broad development of the support systems for Open Science and of digital support for scientific output, in Europe. Leveraging the EOSC Strategic Research and Innovation Agenda (SRIA), defined by the EOSC Governance, the partnership has a number of key objectives: to ensure that standards are defined, and services and tools developed to enable researchers to find, access, reuse and combine (FAIR) results from all areas of research; to make Open Science practices and skills become the new normal and are rewarded and taught across Europe; and to establish a sustainable and federated infrastructure enabling open sharing of scientific results.

The EOSC Association and the European Commission will focus on developing a web of FAIR data and related services for science, which defines the ultimate goal of the EOSC. In doing so, the EOSC Association will contribute to the vision illustrated in the figure above. In the context of the EOSC Partnership, the forthcoming Horizon Europe projects will work in collaboration with the EOSC Association to address several aspects of the implementation. The EOSC ecosystem comprises many stakeholders and initiatives. With the ambition to bring together more key stakeholders in this ecosystem, the EOSC Association will provide a single voice for advocacy and representation for the broader EOSC stakeholder community.





2. European Partnership for the EOSC - Monitoring and evaluation Framework (MF)

General Objectives	GO1 Ensure that Open Science practices and skills are rewarded and taught, becoming the "new normal"
A measure of success (General objectives are linked to the Specific objectives and to their KPIs)	The way that researchers, as well as the public and private sectors create, share and exploit digital research outputs (data, publications, protocols, methodologies, software, code, etc.) within and across research disciplines is gradually transformed through the mainstreaming of Open Science practices, leading to better quality, validation, more innovation and higher productivity of research.
State of Play	(2022) To Be Determined (TBD)
Data Reporting	EOSC Association
Data Sources	A combination of the reports, studies, project reporting obtained for the linked specific & operational objectives
Data Provider	EOSC Association

	GO2 Enable the definition of standards, and the development of tools and services to allow researchers to find, access, reuse and combine results
A measure of success (General objectives are linked to the Specific objectives and to their KPIs)	European researchers can find, access and re-use an increasing amount of research outputs across borders and disciplines through state-of-the-art technologies underpinning discoverability and interoperability of research outputs;
State of Play	(2022) TBD
Data Reporting	EOSC Association
Data Sources	A combination of the reports, studies, project reporting obtained for the linked specific & operational objectives
Data Provider	EOSC Association





	GO3 Establish a sustainable and federated infrastructure enabling open sharing of scientific results
A measure of success (General objectives are linked to the Specific objectives and to their KPIs)	Increased availability of services that can be integrated in the existing workflows of researchers across different disciplines, facilitating the cross-disciplinary collaboration, reducing the time to results and increasing productivity.
State of Play	(2022) TBD
Data Reporting	EOSC Association
Data Sources	A combination of the reports, studies, project reporting obtained for the linked specific & operational objectives
Data Provider	EOSC Association





Strategic and operational objective	SO1 Increase the number of relevant research results that are made available as open as possible by researchers performing publicly funded research
КРІ	SO1_01 The percentage of publications from EOSC Association Research Performing members that have been available in immediate open access in the last 12 months.
Baseline	(2022) TBD
Target	(2023) 70% of the publications from the target year from the EOSC Association research-performing members become immediate open access.
Data Reporting	EOSC Association
Data Sources	Internal Reports, OpenAIRE Database
Data Provider	EOSC-A members
Collection Methodology	Surveys and/or desk-studies

Strategic and operational objective	SO2 Professional data stewards are increasingly available in research performing organisations in Europe to support Open Science
КРІ	SO2_01 The number of countries where the national education system recognises curricula for data stewards
Baseline	(2022) TBD
Target	(2025) 5 national education systems recognise curricula for data stewards.
Data Reporting	EOSC Association
Data Sources	a. National reports, ERA Forum b. Relevant EC studies, if available
Data Provider	a. EOSC-SB, national agencies, mandated organisationsb. EC* (*the role of the EC will be limited to providing relevant studies, if available)
Collection Methodology	Survey





Strategic and operational objective	SO2 Professional data stewards are increasingly available in research performing organisations in Europe to support Open Science
КРІ	SO2_02 The percentage of EOSC Association members whose research is supported by professional data stewards.
Baseline	(2022) TBD
Target	(2025) 50% of the RPOs that are EOSC Association members have data stewards to support their research.
Data Reporting	EOSC Association
Data Sources	Stats from RPOs
Data Provider	RPOs that are EOSC Association members
Collection Methodology	Survey

Strategic and operational objective	SO3 Development and adoption of incentives for researchers to perform Open Science
КРІ	SO3_01 Percentage of research-funding members of EOSC-A that require data sharing and incentivise data re-use
Baseline	(2022) TBD
Target	(2025) 70% of research-funding members of the EOSC Association require data sharing and incentivise reuse.
Data Reporting	EOSC Association
Data Sources	Policies/reports of research-funding members of EOSC-A
Data Provider	Research-funding members of EOSC-A, National Agencies
Collection Methodology	Survey





Strategic and operational objective	SO4 Increasing amounts of research data produced by publicly funded research in Europe are FAIR by design
КРІ	SO4_01 The number of repositories in EOSC that have a certification (e.g. CoreTrustSeal).
Baseline	(2022) TBD
Target	(2025) 30% of the repositories in the EOSC will have a certification (e.g. CoreTrustSeal);
Data Reporting	EOSC Association
Data Sources	 a. EOSC Association reports/surveys b. EOSC Platform c. RE3Data's unique catalogue of repositories d. FAIR-Data Support Actions under HE INFRAEOSC (e.g.: FAIR Impact - ex FAIRsFAIR)
Data Provider	 a. EOSC Association b. Operators of the EOSC Platform c. RE3Data d. Project coordinators of the FAIR data support actions under HE INFRAEOSC.
Collection Methodology	Desk study/Survey

Strategic and operational objective	SO4 Increasing amounts of research data produced by publicly funded research in Europe are FAIR by design
КРІ	SO4_02 The number of thematic European research infrastractures (as a proxy for all major scientific disciplines) with documented standards and protocols for data sharing and re-use.
Baseline	(2022) TBD
Target	(2023) 60% of research disciplines have documented standards and protocols for data sharing and reuse.
Data Reporting	EOSC Association
Data Sources	a. ESFRI reports b. ESFRI Cluster projects reports
Data Provider	a. ESFRI Research Infrastructures b. Coordinators of ESFRI Cluster projects and relevant HE INFRAEOSC projects, Representatives from ESFRI RIs
Collection Methodology	Survey





Strategic and operational objective	SO4 Increasing amounts of research data produced by publicly funded research in Europe are FAIR by design In particular: Increasing amounts of project DATA MANAGEMENT Plans require FAIR DATA.
КРІ	SO4_03 Percentage of members of the EOSC Association that have policies which require FAIR to be implemented in project design via Data Management Plans.
Baseline	(2022) TBD
Target	(2023)70% of the members of the EOSC Association have policies which require FAIR to be implemented in project design via Data Management Plans.
Data Reporting	EOSC Association
Data Sources	EOSC Association reports/surveys EOSC Observatory
Data Provider	Members of the EOSC Association
Collection Methodology	Survey

Strategic and operational objective	SO4 Increasing amounts of research data produced by publicly funded research in Europe are FAIR by design
KPI	SO4_04 The percentage/ the estimated number of research data-sets from EOSC-A members that are deposited in repositories and made open and FAIR.
Baseline	(2022) TBD
Target	(2025) 50% of research data-sets from EOSC Association members that is deposited in repositories is made FAIR and "as open as possible", i.e.: at least the metadata are available.
Data Reporting	EOSC Association
Data Sources	EOSC Association reports/surveys
Data Provider	EOSC Association members
Collection Methodology	Survey





Strategic and operational objective	SO5 The EOSC Interoperability Framework supports an increasing range and quantity of FAIR digital objects including data, software and other research artefacts
КРІ	SO5_01 Number of major research infrastructures which adopt the EOSC Interoperability Framework, enabling their data to be federated into EOSC.
Baseline	(2022) TBD
Target	(2023) The EOSC Interoperability Framework is adopted by at least 5 major research infrastructures in Europe, enabling their data to be federated into EOSC
Data Reporting	EOSC Association
Data Sources	a. European RIs b. RI projects
Data Provider	a. Research infrastructures managers b. Coordinators of the RI projects
Collection Methodology	Survey

Strategic and operational objective	SO6 Provide an increased number of services and resources to ensure that European research is discovered and reused within and across disciplines to extract new knowledge
КРІ	SO6_01 The number of inter and cross-disciplinary use cases conducted, on data sharing practices, using EOSC services.
Baseline	(2022) TBD
Target	(2025) Five use cases have demonstrated engaging diverse research communities in cross-disciplinary data sharing using ervices onboarded into EOSC.
Data Reporting	EOSC Association
Data Sources	a. EOSC Platform b. ESFRI Cluster projects and HE INFRAEOSC projects supporting the missions
Data Provider	a. Operators of the EOSC Platform b. ESFRI Cluster project coordinators
Collection Methodology	Survey





Strategic and operational objective	SO7 EOSC is operationalised and provides a stable and valuable infrastructure supporting researchers addressing societal challenges
КРІ	SO7_01 The number of major Research Infrastructures (as a proxy for all major scientific disciplines) that have relevant data and services indexed through EOSC.
Baseline	(2022) TBD
Target	(2027) All major scientific disciplines (Frascati Nomenclature-Level 1) have relevant data and services indexed through EOSC.
Data Reporting	EOSC Association
Data Sources	a. European Research Infrastructures b. EOSC Association c. Relevant EC studies, if available d. EOSC Platform
Data Provider	a. Europen Research Infrastructures managers b. EOSC Association member base c. EC* (*the role of the EC will be limited to providing relevant studies, if available) d. Operators of the EOSC Platform
Collection Methodology	Survey

Strategic and operational objective	SO8 Essential additional functionalities for end users, including from the public and private sectors, and citizen scientists, are implemented in EOSC (these developments are complementary to those of other European data spaces)
КРІ	SO8_01 The number of services dedicated to the requirements of end users, including from the public sector and citizen scientists, that are made available through the EOSC Core and EOSC Exchange.
Baseline	(2022) TBD
Target	(2025) Ten additional functionalities and services dedicated to the requirements of end users, including from the public sector, and citizen scientists, are made available through the EOSC Core and EOSC Exchange.
Data Reporting	EOSC Association
Data Sources	EOSC Platform
Data Provider	Operators of the EOSC Platform
Collection Methodology	Survey





Strategic and operational objective	SO8 Essential additional functionalities for end users, including from the public and private sectors, and citizen scientists, are implemented in EOSC (these developments are complementary to those of other European data spaces)
КРІ	SO8_03 The number of active data spaces that take up FAIR data management principles and practices, and provide data into the EOSC ecosystem.
Baseline	(2022) TBD
Target	(2027) At least 50% of the active data spaces take up data management practices, including the FAIR data principles and provide data into the EOSC ecosystem.
Data Reporting	EOSC Association
Data Sources	a. EU Data Spaces b. relevant EC studies, if available
Data Provider	a. EU Data Spaces governance b. EC* (*the role of the EC will be limited to providing relevant studies, if available)
Collection Methodology	Survey

Strategic and operational objective	SO9 EOSC increasingly establishes ties with related initiatives from regions around the world and becomes a partner in global cooperation frameworks for Open Science
КРІ	SO9_01 The number of observers joining the Association from outside EU MS/AC.
Baseline	(2022) TBD
Target	(2025) At least 10 geographically spread observer organisations have joined EOSC from outside EU MS/AC
Data Reporting	EOSC Association
Data Sources	a. RDA data, data from other global initiatives b. EU Data Spaces, International partnerships (e.g. EuroHPC, etc.).
Data Provider	a. RDA managersb. EU Data Spaces governance, international partnerships governance (e.g. EuroHPC)
Collection Methodology	Survey and desk studies





Strategic and operational objective	SO9 EOSC increasingly establishes ties with related initiatives from regions around the world and becomes a partner in global cooperation frameworks for Open Science
КРІ	SO9_02 The number of formalised connections between EOSC and non-EU cloud and commons initiatives, which allow EOSC users to discover additional resources.
Baseline	(2022) TBD
Target	(2027) EOSC establishes connections with at least 3 non-EU cloud and commons initiatives, which allow EOSC users to discover additional resources.
Data Reporting	EOSC Association
Data Sources	a. RDA data, data from other global initiative b.International partnerships.
Data Provider	a. RDA managers b. International partnerships governance.
Collection Methodology	Survey and/or desk studies

Strategic and operational objective	OO1 Deliver and operate all the necessary components of the MVEto share openly research data, publications, software, tools, and services while attracting increasing numbers and categories of users (public and private) (based on a governance structure representative of the various stakeholders and including domain-specific user environments supporting Open Science) by 2025
КРІ	OO1_01 The number of operational and discoverable MVE Core functions
Baseline	(2022) TBD
Target	(2025) 4 core functions of the MVE are developed to make the EOSC ecosystem accessible to researchers across disciplines and countries
Data Reporting	EOSC Association
Data Sources	a. Reports on the EOSC Platform b. Current offerings and deliverables on HE INFRAEOSC projects contributing to the architectural implementation of the MVE
Data Provider	a. Operators of the EOSC Platform b. HE INFRAEOSC project coordinators
Collection Methodology	Survey and/or desk studies





Strategic and operational objective	OO1 Deliver and operate all the necessary components of the MVEto share openly research data, publications, software, tools, and services while attracting increasing numbers and categories of users (public and private) (based on a governance structure representative of the various stakeholders and including domain-specific user environments supporting Open Science) by 2025
КРІ	OO1_02 Types and geographic spread (EU MS) of members in EOSC-A, and members of the Board of Directors (BoD), to represent the varied stakeholders' nature (RPOs, RFOS, Libraries, Service Providers, Mandated Organisations) and a varied EU MS representation.
Baseline	(2022) TBD
Target	(2025) The EOSC-A membership has grown by at least 25 new members representing different stakeholders in the EOSC Ecosystem (RPOs, RFOS, Libraries, Service Providers, Mandated Organisations) coming from at least 5 different EU MS. In addition, a balanced representation is also achieved in the Board of Directors.
Data Reporting	EOSC Association
Data Sources	a. EOSC Association stats re. Board of Directors and membership b.
Data Provider	EOSC-A
Collection Methodology	Survey and/or desk studies

Strategic and operational objective	OO2 Make monitoring systems to gather data and evidence on best open science practices accessible through EOSC (including the development of a dashboard to monitor the evolving landscape of policies, infrastructures and open resources made accessible via EOSC by 2023)
КРІ	OO2_01 A monitoring system (like a dashboard) to gather OS metrics of the evolving landscape of policies, infrastructures and open resources can be accessed through EOSC.
Baseline	(2022) TBD
Target	(2023) A monitoring system (like a dashboard) to gather OS data and feed metrics of the evolving landscape of policies, infrastructures and open resources can be accessed through EOSC.
Data Reporting	EOSC Association
Data Sources	a. EOSC Observatory b.EOSC Steering Board, subgroup A
Data Provider	a. EOSC Future b. Members of the EOSC Steering Board - subgroup A
Collection Methodology	Survey and/or desk studies





Strategic and operational objective	OO3 Increasingly mainstream Open Science skills in European research- performing organisations (RPOs) including through the uptake of curricula and training frameworks related to data stewardship through the lifespan of the Partnership
КРІ	OO3_01 Percentage of RPO members of the Association that provide training for the upskilling of their researchers in Open Science.
Baseline	(2022) TBD
Target	(2025) 50% of EOSC-A RPOs across Europe offer training on Open Science for researchers and data stewards.
Data Reporting	EOSC Association
Data Sources	EOSC Association surveys
Data Provider	EOSC Association RPO members
Collection Methodology	Survey

Strategic and operational objective	OO4 Co-develop domain-specific standards and adopt Open Science practices through the engagement with research communities during the lifespan of the Partnership
КРІ	OO4_01 Number of scientific disciplines for which EOSC Association TFs provide recommendations on standards and Open Science best practices.
Baseline	(2022) TBD
Target	(2023) Each major scientific community (Level 1 of the Frascati Manual Nomenclature) has at least one initiative on standards and Open Science practices involving EOSC-members.
Data Reporting	EOSC Association
Data Sources	Reports from TFs
Data Provider	TFs set up by the EOSC Association
Collection Methodology	Survey





Strategic and operational objective	OO5 Provide the technical components of a FAIR ecosystem for uptake and customisation by the communities by 2023 (including open specifications, standards, schemas, application programming interfaces (APIs), metadata frameworks supporting FAIR digital objects and their automated processing)
КРІ	OO5_01 The following technical components supporting FAIR digital objects and their automated processing are operational: standards, schemas, APIs, metadata frameworks.
Baseline	(2022) TBD
Target	(2023) Standards, schemas, APIs, metadata frameworks and other technical components supporting FAIR digital objects are specified by EOSC related communities and supported by the service providing organisations.
Data Reporting	EOSC Association
Data Sources	a. ESFRI Cluster projects, ESFRIb. EC Horizon Dashboard and/or EC Open Data Portal and relevant EC studies, if available
Data Provider	a. RI managers b. EC* (*the role of the EC will be limited to providing public access to the data portal/dashboard, and to the provision of relevant studies, if available)
Collection Methodology	Survey and/or Desk Studies

Strategic and operational objective	OO6 Provide the metrics and tools to measure the adoption of the FAIR principles for research artefacts and provide frameworks to help in certifying that repository services enable FAIR in EOSC throughout the lifespan of the Partnership
КРІ	OO6_01 Availability of FAIR assessment tools to measure the FAIRness of different research digital objects
Baseline	(2022) TBD
Target	(2025) At least one type of FAIR assessment tool exists to measure the FAIRness of datasets, software and DMPs, respectively
Data Reporting	EOSC Association
Data Sources	Relevant HE INFRAEOSC projects
Data Provider	Project coordinators for the HE INFRAEOSC projects
Collection Methodology	Survey / desk study





Strategic and operational objective	OO7 Co-develop a first generation of a robust pan-European network of infrastructures for software source code (including incentives for the effective documentation and sharing of research software) by 2025.
КРІ	OO7_01 Percentage of research funders who are members of the EOSC association that include software source code as a research output to be described and managed in their Data Management Plans (DMPs).
Baseline	(2022) TBD
Target	(2025) 50% of research funders across the members of the EOSC Association include software source code as a research output to be described and managed in their Data Management Plans (DMPs).
Data Reporting	EOSC Association
Data Sourcesv	a. EOSC Association member base
Data Provider	a. EOSC Association RFOs/ Funders members
Collection Methodology	Survey

Strategic and operational objective	OO7 Co-develop a first generation of a robust pan-European network of infrastructures for software source code (including incentives for the effective documentation and sharing of research software) by 2025.
КРІ	OO7_03 The number of first generation pan-European infrastructures for preservation, management and sharing of research software
Baseline	(2022) TBD
Target	(2025) A first generation of pan-European infrastructures for preservation, management and sharing of research software is available
Data Reporting	EOSC Association
Data Sources	a. EOSC Association b. ESFRI c. Relevant HE INFRAEOSC projects
Data Provider	a. EOSC Association RFOs/ Funders members b. ESFRI governance c. Project coordinators for relevant HE INFRAEOSC projects.
Collection Methodology	Survey





Strategic and operational objective	OO8 Co-design and adopt a rewards and recognition framework for FAIR and open data practices in research during the lifespan of the Partnership
КРІ	OO8_01 Number of policy fora where rewards and recognition frameworks for FAIR and open data practices are co-designed, where the EOSC Association is represented.
Baseline	(2022) TBD
Target	(2023) The EOSC Association is represented and active in policy fora where rewards and recognition frameworks are co-designed
Data Reporting	EOSC Association
Data Sources	EOSC Association
Data Provider	All EOSC-A members, EOSC-A TFs
Collection Methodology	Survey

Strategic and operational objective	OO8 Co-design and adopt a rewards and recognition framework for FAIR and open data practices in research during the lifespan of the Partnership
КРІ	OO8_02 Number of Association members that recognise open science activities in research career assessments (i.e.: FAIR and open data practices are linked to researchers' online records, publications linked to a researcher; open data practices and FAIR data practices are linked back to the researcher who can get credit for this).
Baseline	(2022) TBD
Target	(2025) 50% of the EOSC association members recognise Open Science activities in research career assessments.
Data Reporting	EOSC Association
Data Sources	EOSC Association surveys of their members
Data Provider	EOSC-A members and TFs
Collection Methodology	Survey





Strategic and operational objective	OO9 Implement and evolve the EOSC Rules of participation and onboarding process for EOSC providers and increase the number of service providers and services offered progressively over the course of the Partnership
КРІ	OO9_01 Establishment of an "RoP Board" to monitor and report on the qualitative and quantitative compliance with the Rules of Participation.
Baseline	(2022) TBD
Target	(2023) An "RoP Board" is established to monitor and report on the qualitative and quantitative compliance with the Rules of Participation.
Data Reporting	EOSC Association
Data Sources	a. EOSC Association reports
Data Provider	a. EOSC Association and EOSC TFs
Collection Methodology	Survey

Strategic and operational objective	OO10 Deploy and operate an authentication and authorisation infrastructure (AAI) framework to manage user identity and access by 2024
КРІ	OO10_01 Number of federated frameworks that are deployed and operational allowing service providers to offer services to users
Baseline	(2022) TBD
Target	(2025) A federated AAI framework is deployed and operational allowing service providers to offer services to identified users, and allowing users to gain access to services
Data Reporting	EOSC Association
Data Sources	a. EOSC Future b. HE INFRAEOSC projects
Data Provider	a.EOSC Future project coordinator b. Project coordinators for HE INFRAEOSC projects
Collection Methodology	Survey





Strategic and operational objective	OO11 Implement the EOSC persistent identifier (PID) policy and architecture by 2025
КРІ	OO11_01 The Number of RPO members of the EOSC Association that adopt and use the persistent identifier allocation practice.
Baseline	(2022) TBD
Target	(2025) Persistent identifier allocation and usage is the adopted practice by all RPO members of the EOSC Association.
Data Reporting	EOSC Association
Data Sources	a.EOSC Association surveys across its RPO members
Data Provider	a. EOSC Association RPOs members
Collection Methodology	Survey and/or Desk Studies

Strategic and operational objective	OO12 Co-develop a minimum metadata framework and provide a common search and access mechanism to EOSC resources across the EOSC federation by 2025
КРІ	OO12_01 Number members of the Association that participate in fora to agree on standards for minimum metadata requirements and number of members of the EOSC-A that have policies in place to enforce the adoption of standard minimum metadata.
Baseline	(2022) TBD
Target	(2025) Standards for minimum metadata requirements are agreed and are progressively adopted by relevant EOSC Association Members.
Data Reporting	EOSC Association
Data Sources	EOSC Association reporting of its members
Data Provider	EOSC Association RPOs, RFOs
Collection Methodology	Survey





Strategic and operational objective	OO12 Co-develop a minimum metadata framework and provide a common search and access mechanism to EOSC resources across the EOSC federation by 2025
КРІ	OO12_02 Percentage of metadata belonging to publicly funded research datasets, from EOSC Association members, which are defined as Open Data, that are discoverable through EOSC federated infrastructure.
Baseline	(2022) TBD
Target	(2025) 70% of the metadata related to publicly funded research datasets (from EOSC Association members) which are defined as Open Data are discoverable by a search mechanism through EOSC federated infrastructure.
Data Reporting	EOSC Association
Data Sources	a. EOSC Association reporting of its members,b. OpenAIRE servicesc. Relevant HE INFRAEOSC projects
Data Provider	a. All EOSC-A members b. OpenAIRE governance c. Coordinators of the relevant HE INFRAEOSC projects
Collection Methodology	Survey

Strategic and operational objective	OO13 Continuously monitor and promote the increased uptake of core services and EOSC resources, access to EOSC Exchange tools and services and ensure a feedback loop with the users
КРІ	OO13_01 Frequency of EOSC stakeholder fora that are organised by the EOSC Association or by INFRAEOSC projects.
Baseline	(2022) TBD
Target	(2023) At least one EOSC stakeholder forum takes place, and plans exist for yearly events.
Data Reporting	EOSC Association
Data Sources	a. EOSC Association workplans b. INFRAEOSC project reports
Data Provider	a. EOSC-A b. INFRAEOSC project coordinators
Collection Methodology	Internal survey





Strategic and operational objective	OO13 Continuously monitor and promote the increased uptake of core services and EOSC resources, access to EOSC Exchange tools and services and ensure a feedback loop with the users		
КРІ	OO13_02 The number of EOSC-A Task Forces which are set up with representation of users and service providers from different disciplines that issue relevant recommendations and launch relevant consultations for the continued development of EOSC.		
Baseline	continued development of EOSC. (2022) 13 TFs have been created by the EOSC Association, under five advisory group umbrellas (https://eosc.eu/advisory-groups): • Implementation of EOSC • PID policy and implementation • Researcher engagement and adoption • Rules of Participation (RoP) compliance monitoring • Metadata and data quality • FAIR metrics and data quality • Semantic interoperability • Research careers and curricula • Data stewardship curricula and career paths • Research careers, recognition and credit • Upskilling countries to engage in EOSC • Technical challenges on EOSC • AAI Architecture • Infrastructures for quality research software • Technical interoperability of data and services • Sustaining EOSC • Financial Sustainability		
Target	(2023) The EOSC-A sets up five Task Forces with representation of users and service providers from different disciplines. The TFs issue relevant recommendations and launch relevant consultations for the continued development of EOSC.		
Data Reporting	EOSC Association		
Data Sources	EOSC Association internal reports		
Data Provider	EOSC-A TFs		
Collection Methodology	Survey		





Strategic and operational objective	OO14 Define models for availability and costing of services across borders
КРІ	OO14_01 Percentage of service providers who are members of the Association that have developed, adopted or tested models for the availability and costing of transnational services.
Baseline	(2022) TBD
Target	(2023) At least 30% of the EOSC Association service provider members have developed, adopted or testedmodels for the availability and costing of their transnational services.
Data Reporting	EOSC Association
Data Sources	Organsisation reports by service provider organisations that are members of the EOSC-A
Data Provider	Service provider organisations that are members of the EOSC-A EOSC-A TFs
Collection Methodology	Survey





3. The Partnership Monitoring Framework as a living document

The monitoring framework will be further developed and discussed with the EOSC Association membership. In particular:

3.1 - EOSC-A and EC will work together and define the MF information workflow, including:

- Refine quantifiable KPIs and align them with the best measures of success and the objectives set in the Draft Monitoring Framework
- Alignment of these measures of success and KPIs with the data sources, the Data Provider and the data collection methodology
- Define a text for the monitoring framework with a clarified and agreed terminology, especially for the chosen measures of success/KPIs
- Inclusion of KPIs related to the functioning of the Partnership between the EC and the EOSC Association, e.g.:
 - Degree of representativeness of the Association (Proportion of EU funders and RPOs included in as members)
 - Level of EU investments through HE;
 - Level of operationalisation of the Association; number of meetings etc.

3.2 - EOSC-A will start implementing the monitoring framework, in 2022, with the establishment of the baseline for all KPIs, as follows:

- Turning the agreed tables into one or more target-specific questionnaires;
- Upload of the questionnaire to an online platform, preferrably with the support of EOSC Future Observatory;
- Train the EOSC-A member base on data provision;
- Roll-out the survey;
- Consolidate all inputs (from both EOSC-A and EC streams) and report on the results

EOSC-A will address the broader EOSC ecosystem by:

 Engaging in bidirectional exchange of information with its mandated organisations;

EOSC-A will ensure the evolution of the monitoring framework as a living document by:

Continuing to ensure that the KPIs and targets remain meaningful;
 Expanding the list of KPIs and targets to ensure that the different dimensions of the objectives can be measured (to this effect, the monitoring framework includes a companion document - ANNEX One, with a pool of KPIs and targets which can serve as inspiration)

3.3 - EC will implement the provision of the ECdata stream.

Full methodology and timeline will be described, in line with the HE monitoring mechanism to be developed in support of all HE partnerships:

- EC will address the broader EOSC ecosystem through involvement of the tripartite governance;
- EC will facilitate the access to the EC data streams by various means, which could include: adding requirements to report information to EOSC-A when procuring EC services and projects related to EOSC; providing access to EC Horizon Dashboard and/or EC Open Data Portal and relevant EC studies, if/when available; and: liaising with newly granted HE INFRAEOSC projects.





4. The EOSC Monitoring Framework Glossary

Authentication	Digital infrastructure that allows users to be identified and subsequently allowed to
and	access data and/or services.
Authorisation	See the SRIA: https://www.eosc.eu/sites/default/files/SRIA_2022_01.pdf
Infrastructure	
(AAI)	Claran of Onen Science recognising that the drive is for all research outputs to be
As open as	Slogan of Open Science recognising that the drive is for all research outputs to be
possible	open as far as possible and as soon as possible. See the SRIA: https://www.eosc.eu/sites/default/files/SRIA 2022 01.pdf
Baseline	A fixed point of reference that is used for comparison purposes. It is seen as the value
Daseille	of a performance indicator before the implementation of activities, against which
	progress can be assessed or comparisons made.
Data provider	The organisation or entity responsible for the collection and aggregation of
Buta provider	data from their initial source. The data provider is accountable to provide the
	reporting organization with the required information.
Data source	A specific data set, metadata set, database or metadata repository from where
Data Source	data or metadata are available.
	See the OECD Glossary of Statistical Terms:
Data	https://stats.oecd.org/glossary/detail.asp?ID=7045
Data	Data collection is a process of collecting information from all the relevant
collection	sources. Data collection methods can be divided into two categories:
methodology	secondary methods of data collection (e.g. reports, studies, online portals, or
	databases) and primary methods of data collection (e.g., survey).
	See the Research Methodology Net: https://research-
	methodology.net/research-methods/data-collection/
Data	An encompassing term used in the EOSC context for all digital outputs of research
	including datasets, metadata, publications and software code. See the SRIA: https://www.eosc.eu/sites/default/files/SRIA 2022 01.pdf
Data	A plan which describes the data management life cycle for the data to be
Management	collected, processed and/or generated by a European-funded project.
Plan	See the EC website: https://ec.europa.eu/research/participants/docs/h2020-
Pidii	
	funding-guide/cross-cutting-issues/open-access-data-management/data-
Data	management en.htm
Data	Support offered at all levels to researchers and institutions by expert data stewards with respect to the management of data.
Stewardship	See the SRIA: https://www.eosc.eu/sites/default/files/SRIA_2022_01.pdf
European	The generic term for the envisioned federation of research (data) infrastructures that
Open Science	will enable the Web of FAIR Data and Services and help researchers to perform Open
Cloud (EOSC)	Science and open up and exploit their data, publications, and code.
0.000 (2000)	See the SRIA: https://www.eosc.eu/sites/default/files/SRIA_2022_01.pdf
European Open	International Non-Profit Association (AISBL) founded in Brussels on 29 July 2020 to
Science Cloud	represent those (eligible) stakeholders wishing to formalise their role in EOSC. In July
Association	2022 the Association signed a Memorandum of Understanding (MoU) with the
(EOSC-A)	European Commission and thus form a Co-programmed European Partnership on
	EOSC.
FOSC	See the SRIA: https://www.eosc.eu/sites/default/files/SRIA 2022 01.pdf
EOSC	The Co-programmed European Partnership between the EOSC Association and the
Partnership	European Commission that consolidates the outputs of EOSC projects from Horizon





	2020 and further develop EOSC through structured funding in Horizon Europe and in-
	kind contributions from the member organizations.
	See the SRIA: https://www.eosc.eu/sites/default/files/SRIA_2022_01.pdf
EOSC Platform	The EOSC Platform refers to the range of services and resources accessible through the
	EOSC Portal (<u>https://eosc-portal.eu/services-resources</u>), currently operated by EOSC
	Future. Future developments of the EOSC Platform will take place in the context of the
	procurement "Delivering the EOSC Core Infrastructure and Services".
EOSC Task	Thirteen Task Forces consisting of groups of experts from the EOSC ecosystem
Forces	focusing on implementation of EOSC, metadata and data quality, research careers and
	curricula, technical challenges and sustain EOSC, which have delivered reports and
	recommendations for EOSC.
	See the EOSC-A website: https://www.eosc.eu/advisory-groups
European data	Ten data commons that will incentivise the sharing of data and facilitate the use of
spaces	data across the areas of manufacturing, mobility, health, finance, energy, agriculture,
	public administration, skills, and the Green Deal.
	See the SRIA: https://www.eosc.eu/sites/default/files/SRIA_2022_01.pdf
EOSC-Core	The basic architecture, standards and services that form the technical
	backbone of EOSC and are necessary to operate a Web of FAIR Data and
	Services.
	See the SRIA: https://www.eosc.eu/sites/default/files/SRIA_2022_01.pdf
EOSC-	The value-added services that will build upon the EOSC-Core and offer its users
Exchange	additional functionality to perform Open Science and share and exploit FAIR (and
	open) data.
	See the SRIA: https://www.eosc.eu/sites/default/files/SRIA_2022_01.pdf
EOSC	A set of principles (technical, semantic, organisational, and legal principles)
Interoperability	and a model for the organisation of FAIR digital objects into EOSC.
Framework	See the EC website: https://op.europa.eu/en/publication-detail/-
	/publication/d787ea54-6a87-11eb-aeb5-01aa75ed71a1
ESFRI Cluster	Five ESFRI cluster projects launched in 2019, providing a gathering point for
projects	various ESFRI projects and landmarks to connect to the EOSC: ENVRI-FAIR,
	PaNOSC, ESCAPE, SSHOC, EOSC-Life. ESFRI Cluster projects also refer to new
	cluster projects for RI under Horizon Europe INFRAEOSC.
	See the EOSC Glossary: https://eosc-portal.eu/news/five-new-esfri-cluster-
	<u>projects-eosc-panorama</u>
EOSC	The encompassing set of federated (e-)infrastructures, research infrastructures,
Ecosystem	stakeholder organisations and projects that contribute to and/or use EOSC.
	See the SRIA: https://www.eosc.eu/sites/default/files/SRIA_2022_01.pdf
FAIR	The set of guidelines for making research (meta)data findable, accessible,
(principles)	interoperable, and reusable that ultimately ensures standardized machine
	actionability.
	See: FAIR Principles - GO FAIR (go-fair.org)
FAID made:	A quantitative approach for evaluating the extent to which data have been read-
FAIR metrics	A quantitative approach for evaluating the extent to which data have been made
	FAIR. See the SRIA:
	https://www.eosc.eu/sites/default/files/SRIA 2022 01.pdf
FAIR data	
FAIR Udld	Data that conform to the FAIR principles.
	See the SRIA:





	https://www.eosc.eu/sites/default/files/SRIA_2022_01.pdf		
Key	Indicators of performance towards the achievement of a pre-defined objective.		
Performance	Measured with a certain frequency, e.g., once a year, they can provide on indication		
Indicators	of the progress of a certain activity towards reaching a set out target performance,		
(KPIs)	from the initial status, which is called the baseline.		
Metadata	Information that is provided with data to explain the nature of the data and how the		
IVICIAUAIA	data could and should be exploited.		
	See the SRIA: https://www.eosc.eu/sites/default/files/SRIA 2022 01.pdf		
Minimun	The EOSC-Core plus selected services from the EOSC-Exchange that provide		
Viable EOSC	researchers with the minimum level of functionality required to share and exploit		
	FAIR (and open) data.		
(MVE)	See the SRIA: https://www.eosc.eu/sites/default/files/SRIA_2022_01.pdf		
Monitoring	The systematic process of collecting, analyzing, and using information to track a		
Wiomitoring	programme's progress toward reaching its objectives.		
Open Access	Possibility to access and re-use digital research outputs with as few restrictions as		
(OA)	possible.		
(OA)	See the EOSC Glossary: https://eosc-portal.eu/glossary		
Open Science	Approach to the scientific process based on cooperative work and ways of		
(OS)	disseminating knowledge, improving accessibility to and-reusability of research		
(33)	outputs by using digital technologies and collaborative tools.		
	See the EOSC Glossary: https://eosc-portal.eu/glossary		
Open data	Data in an open format that can be freely used, reused, and shared by anyone for any		
Open data	purpose.		
	See the SRIA: https://www.eosc.eu/sites/default/files/SRIA 2022 01.pdf		
Personal	A digital description that uniquely and persistently identifies an individual so that the		
Identifier (PID)	correct digital object of research output can be linked to the correct researcher		
identifier (FID)	responsible for its creation.		
	See the SRIA: https://www.eosc.eu/sites/default/files/SRIA 2022 01.pdf		
Rules of	The terms, policies, processes, and procedures required to provide assurance of		
Participation	sustainability, transparency, quality and trust in the practices and services offered		
	through voluntary participation in EOSC.		
	See the SRIA:		
	https://www.eosc.eu/sites/default/files/SRIA_2022_01.pdf		
Repository	Service delivering organized and persistent data storage that allows data retrieval.		
	See the EOSC Glossary: https://eosc-portal.eu/glossary		
Reporting	The systematic and timely provision of essential information at periodic intervals.		
Research	The term refers to the Revised Field of Science and Technology (FOS) classification in		
disciplines (=	the Frascati Manual, consisting of the following high-level groupings:		
research	Natural sciences		
communities)	Engineering and technology		
	Medical and Health sciences		
	Agricultural sciences		
	Social sciences		
	See: https://unstats.un.org/unsd/EconStatKB/KnowledgebaseArticle10269.aspx		
	EUROSciVoc: https://op.europa.eu/s/vVxp		
Research	An international, national, or institutional infrastructure that enables research		
Infrastructure	communities to perform research.		
	See the SRIA: https://www.eosc.eu/sites/default/files/SRIA_2022_01.pdf		





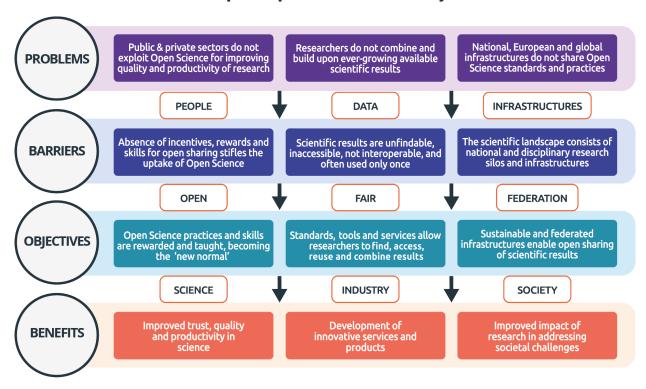
Research data	Data collected or produced during scientific research activities and used as evidence in the research process, or commonly accepted in the research community as	
	necessary to validate research findings and results.	
	See the EOSC Glossary: https://eosc-portal.eu/glossary	
Research	Any product of the research lifecycle such as methodologies, data, software,	
artefacts	publications, reviews and learning materials.	
	See the SRIA: https://www.eosc.eu/sites/default/files/SRIA_2022_01.pdf	
Target	A specific, planned level of result to be achieved within an explicit timeframe.	





5. EOSC Partnership intervention logic: linking expected impacts and objectives to activities, outputs, and KPIs

European Open Science Cloud Objectives Tree









The EOSC Partnership Monitoring Framework

V6.6

EOSC-A, THE 23RD OF MARCH 2022

ANNEX ONE

COMPANION TO THE MONITORING FRAMEWORK





Companion to the Monitoring Framework

This companion provides a list of additional, partially developed, KPIs and targets for future consideration when developing a more comprehensive version of the EOSC Monitoring Framework. This list is provided to keep track of the outcome of previous work on EOSC measures of success. It will be subject to further revisions with the support of representatives of the EOSC constituency, notably the EOSC task forces and the Commission. These KPIs might therefore be removed, changed or completed by new KPIs in future version of the EOSC Monitoring Framework.

Objectives	KPIs	Targets
SO1 Increase the number of relevant research results that are made available as open as possible by researchers performing publicly funded research	SO1_02 Percentage of research data from EOSC Association members are made as FAIR as possible, ideally open	(2027) 70 % of research data from EOSC Association members are made as FAIR as possible, ideally open
SO3 Development and adoption of incentives for researchers to perform Open Science	SO3_02Number of EOSC association members that recognise open science activities in research career assessments	(2025) 50% of the EOSC association members recognise open science activities in research career assessments
SO5 The EOSC Interoperability Framework supports an increasing range and	SO5_02 Percentage of research data produced in the last year by European RIs is made FAIR and can be accessed through EOSC	(2025) 70% of research data produced in the last year by European RIs is made FAIR and can be accessed through EOSC
quantity of FAIR digital objects including data, software and other research artefacts	SO5_03 Percentage of research data and other digital objects produced yearly in Europe that is FAIR and available Through EOSC	(2027) 50% of data and other digital objects produced yearly in Europe that is FAIR and available Through EOSC
SO6 Provide an increased number of services and resources to ensure that European research is	SO6_02 Yearly increase of number of data and services available through EOSC	(2025) Increase of 30% of number of data and services available through EOSC compared to the previous year
discovered and reused within and across disciplines to extract new knowledge	SO6_03 Number of tools and services from national infrastructures available through EOSC	(2027) At least 30% of tools and services available through EOSC are from national infrastructures





Objectives	KPIs	Targets
SO8 Essential additional functionalities for end users, including from the public and private sectors, and citizen scientists, are implemented in EOSC (these developments are complementary to those of other European data spaces)	SO8_02 Number of commercial providers that provide research related services through EOSC	(2027) At least 2 agreements with commercial providers are activated to enhance the EOSC resources at national or international level
OO1 Deliver and operate all the necessary components of the MVEto share openly research data, publications, software, tools, and services while attracting increasing numbers and categories of users (public and private) (based on a governance structure representative of the various stakeholders and including domain-specific user environments supporting Open Science) by 2025	OO1_03 An effective governance framework that coordinates activities and that directs the architectural development and the EOSC interoperability framework	(2024) An effective governance framework for architecture and interoperability framework of EOSC
OO2 Make monitoring systems to gather data and evidence on best open science practices accessible through EOSC (including the development of a dashboard to monitor the evolving landscape of policies, infrastructures and open resources made accessible via EOSC by 2023)	Implementation of an infrastructure to gather OS metrics through EOSC	(2025) Infrastructure to gather OS metrics can be accessed through EOSC.





Objectives	KPIs	Targets
OO7 Co-develop a first generation of a robust pan-European network of infrastructures for software source code (including incentives for the effective documentation and sharing of research software) by 2025.	OO7_02 number of services and infrastructures for software and source code (including repositories that opened up to host software) that are available though EOSC	(2025) 10% increase with respect to the previous year of services and infrastructures for software and source code (including repositories that opened-up to host software) are available though EOSC
OO9 Implement and evolve the EOSC Rules of participation and onboarding process for EOSC providers and increase the number of service providers and services offered progressively over the course of the Partnership	OO9_02 Availability of detailed and comprehensive set of guidance documents to implement the RoP	(2023) A detailed and comprehensive set of guidance documents are available.
OO11 Implement the EOSC persistent identifier (PID) policy and architecture by 2025	OO11 Services that resolve a wide variety of PIDs	(2025) A global PID resolver is developed to resolve all kinds of digital objects including services, for different kinds of PID (e.g. DOIs, ARKs, handles, etc.).
OO13 Continuously monitor and promote the increased uptake of core services and EOSC resources, access to EOSC Exchange tools and services and ensure a feedback loop with the users	OO13_03 EOSC Exchange growth in number of domain-specific services.	(2025) increase of 10% of the average number of domainspecific services available through EOSC Exchange





ADDITIONAL ACTIVITIES PLAN 2022





Additional Activities Plan		
European Partnership for the European Open Science Cloud (EOSC)		
Year:	2022	
Total annual envisaged in-kind contributions in Additional	312.453.697,31 €	
Activities by the Partners other than the Union:		

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.





	Category	Estimated number of FTEs per category	Estimated annual value in euro per category		
1. SUPPORT TO ADD	ITIONAL R&I	310,96	132.165.265,20		
Envisaged Additional Activities type	Description of the Additional Activities	Link to partnership's objectives / KPIs	[Optional] Link to partnership's project/topic	Estimated number of FTEs per Additional Activity type	Estimated financial contribution in euro (value of FTEs included) per Additional Activity type
1.1 Upgrade of existing research infrastructures and e-infrastructures so that they may be federated through EOSC	1. Upgrade of institutional and national repositories (e.g., upgrade of the data catalogues) 2. Upgrade of existing institutional, local, and national data infrastructures (e.g., databases, publishing platforms) 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., extension of processing capabilities, extension of data storage capacity, upgrade of DOI management application) 6. Provision of portals and service desks for Open Sciences related tools 7. Provision of tools for secure collaboration between researchers 8. Upgrade of the SSH Open Marketplace 9. Integration of FAIR-Data services in infrastructure	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		111,83	107.215.223,20





1.2 Development and	10. Integration of a new data processing centre in the EOSC portal, offering Cloud resources to EU researchers and upgrade of existing scientific cloud providers in the EOSC portal 1. Development of terminology services	SO1	29,45	3.345.804,00
deployment of EOSC-compatible search engines to allow the researchers to explore rich metadata and semantic descriptions in EOSC-connected registers	for exploring, publishing, and developing shared ontologies, vocabularies, and terminologies. 2. Upgrade of catalogues with information about policies for OA, licenses, publication fees and conditions offered by the different institutions 3. Implementation of data catalogues together with an automatic metadata enrichment 4. Development, maintenance, and support 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 5. Development and maintenance of metadata repositories and semantic interoperability tools 6. Upgrade of data catalogues to support data onboarding to thematic and EOSC Data Portals 7. Improvement of standard compliance in all national archives to ensure optimal interoperability through automated testing of metadata quality 8. Implementation of discovery services 9. Integration of existing data repositories with EUDAT services for metadata indexing 10. Maintenance and operation of the PID Central Registry	SO1 SO4 SO6 SO7 SO8 OO2 OO5 OO10 OO11 OO13 AA1 - Identifiers AA2 - Metadata and ontologies AA3 - FAIR metrics & certification AA4 - AAI AA5 - User Environments AA6 - Resource Provider Environments AA14 - Widening to public & private sectors & going global	23,43	3.343.604,00





11. Development of an online platform to reduce the barriers for accessing scientific publications by citizens 12. Establishment of the EOSC-	
scientific publications by citizens 12. Establishment of the EOSC-	
12. Establishment of the EOSC-	\
an wastible accuse wastel that	
compatible search portal that	
constitutes a single-entry point for	
searching, discovery and recall of	
thousands of scientific and scholarly	
publications, namely journal articles,	
conference papers, thesis, and	
dissertations, distributed by several	
repositories.	
13. Development of the Comprehensive	
Information System for acquiring,	
processing, preservation and provision	
research and bibliometric information	
and publications	
14. Integration of metadata search	
engine and platform for FAIR	
epidemiological computational	
modelling and simulation	
15. Instalment and maintenance of	
infrastructure related to ontology	
service	
16. Preparation of platforms for	
academic libraries, including search	
engine for both documents and data	
from one access point	
17. Development and implementation	
of standards and data interfaces for	
research information	
18. Development and integration of	
open research knowledge graphs for	
semantically describing research	
contributions	
1.3 Deploying EOSC-Core 1. Development, hosting, maintenance, SO1 104,80 11.582.386,00	
components for FAIR (e.g. and support for different FAIR tools to SO6	
the deployment of online support researchers in every step of the OO5	
tools for data FAIRification life cycle e.g., DMP tool, PRET platform,	
iRODS infrastructure for active data	





Γ		Γ	Г	
or to help creating FAIR	management, diversified storage	AA2 - Metadata &		
Data Management Plans)	solutions	Ontologies		
	2. Development and pilot of public data	AA3 - FAIR metrics &		
	repository services for institutions not	certification		
	having capacity to deploy their own	AA5 - User Environments		
	repository	AA6 - Resource Provider		
	3. Provision of standard services for	Environments		
	Data Management Plan Tools and REST			
	API (e.g., DMPOnline)	AA7 - EOSC Interoperability		
	4. Integration of online DMP tool with	Framework		
	organisational tools such as repositories and data registers	AA13 - Communication		
	5. Establishment and implementation of			
	machine-actionable DMP tools			
	6. Integration of local CRIS systems with			
	DMP tool			
	7. Development of DMPonline Metadata			
	for Machines toolbox for ontologies and			
	metadata definition			
	8. Upgrade of Data Management Expert			
	Guides and realisation of Data Archiving			
	Guides for data experts			
	9. Implementation of DMP standards			
	10. Collaboration on FAIR DMPs,			
	collaboration on Data Stewardship			
	Wizard deployment			
	11. Enhancement of existing UIs for data			
	access in correspondence with EOSC			
	requirements for FAIR data			
	12. Development and deployment of			
	Domain Data Protocols and F-UJI FAIR			
	assessment tools			
	13. Contribution to various FAIR-related			
	initiatives, which analyse research			
	systems and experiments with new tools			
	and approaches to science funding			
	14. Development of Paediatric Data			
	interoperability service where users can			
	access tools for identifying, accessing,			
	integrating, and analysing paediatric			





	data to facilitate sharing and re-use of data according to the FAIR principles 15. Deployment of online tools to support the creation of Data Management Plans (DMPs) 16. Deployment of management platforms for metadata quality 17. Implementation of FAIR data in existing repositories 18. Establishment of the FAIR Checker - a tool to assess the FAIR metrics of a resource			
1.4 Development and publication of large scale studies	1. Funding of two large cohort studies: the Swiss Transplant and the HIV Cohort Study 2. Large-scale studies under the project IDE@S (Innovative Data Environment @ Styria) that aims to foster the cooperation between industry and HEIs in data science 3. Policy regulations for the sharing of research data, a study of strategies and regulations 4. Mapping and analysis of Open Science policy developments at international, European, and national level	SO1 SO5 SO6 SO8 OO1 OO2 AA3 - FAIR metrics & certification AA5 - User Environments AA6 - Resource Provider Environments AA7 - EOSC Interoperability Framework	11,20	3.239.000,00
1.5 Contribution to operating core functions of a Minimum Viable EOSC ecosystem	1. Maintenance, improvement, and operation of services for cloud orchestration related to the EOSC EGI Cloud Compute 2. Implementation of MVE Research Infrastructures (e.g. Connectome Research Infrastructure) 3. Exploitation of AAI Federation and access to Géant EduGain 4. Development of the Persistent Identification (PID) service 5. Development of the Research Activity Identifier that helps identify not only	\$01 \$05 \$06 \$07 \$08 \$001 \$005 \$0010 \$0011	53,68	6.782.852,00





2. SCALE UP OF TECH	research projects but also identify infrastructure used in research projects 7. AAI infrastructure development and maintenance of AAI federation in platforms (e.g. ELIXIR, B2ACCES) 8. Maintenance of provider profiles on the EOSC Portal 9. Integration of generic data science platform in the EOSC portal, with links to existing EOSC-Exchange services, according to EOSC specifications and architecture 10. New generation platform for libraries, WG Metadata schemas, National Metadata Catalogue, National Centre for PIDs	AA3 - FAIR metrics & certification AA4 - AAI AA5 - User Environments AA6 - Resource Provider Environments AA14 - Widening to public & private sectors & going global	17,50	2.876.736,00
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 services registered in EOSC Portal 2. Metrics service deployment 3. Support on the development of EOSC thematic services for the development of a Medical Imaging Real World Data repository to create a biobank on medical imaging data, internally funded by the institution 4. Sustaining outcomes of the SSHOC cluster project to become TRL-8 services.	SO4 SO7 SO8 OO1 OO5 AA5 - User Environments AA6 - Resource Provider Environments AA7 - EOSC Interoperability Framework	4,95	1.195.000,00
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	The investment in the SSH Open Marketplace will be maintained as part of the post-project sustainability plan for continued collaboration by the RIs in SSH Exploition of EOSC services for a Satellite Image Processing Thematic service	SO1 SO4 SO5 SO7 OO1 OO5 OO6	5,90	847.850,00





exclusively in the context of	3. Adoption of outcomes of relevant	0011		
public procurement	projects (e.g. SSHOC, EOSC Future,	0012		
	OpenAIRE, OPERAS)			
	4. Injection of knowledge from 'EOSC	AA1 - Identifiers		
	interoperability framework' and 'A	AA3 - FAIR metrics &		
	Persistent Identifier (PID) policy for the	certification		
	European Open Science Cloud (EOSC)'			
	and AAI architecture into national	AA4 - AAI		
	working groups and upcoming projects	AA5 - User Environments		
	5. Development and implementation of	AA6 - Resource Provider		
	standards and data interfaces for	Environments		
	research information (Subproject 1),	AA7 - EOSC Interoperability		
	Concept Study for a Research Portal	Framework		
	(Subproject 2)	AA14 - Widening to public		
	6. Develompent Interfaces for shared	. .		
	research infrastructures	& private sectors & going		
	7. Adoption of repositories (Data	global		
	Stations) and LTP-systems (vault) to fit			
	into EOSC frameworks			
	8. Implemention of AAI into instution			
	online services, using EOSC compute			
	services in scientific pipelines			
	9. Development of guidelines on			
	adoption of standards for			
	interoperability in institutional and			
	national settings			
	10. FBI data roadmap for 2022: using			
	the EOSC standards and AAI for			
	biological image management			
2.3 Implementation of	Standardization and vocabulary	SO1	6,65	833.886,00
technical specifications	development activities relevant for	SO4	3,32	200.000,00
required to provide services	EOSC	SO5		
1	2. Implementation of state-of-the-art			
through the EOSC	standards for metadata, interoperability	S07		
	and persistent identification for the	001		
	upgrading of the cultural heritage	006		
	digitised collections repository	0010		
	3. Adoption of service templates at all	0011		
	service provider archives	0012		
	<u> </u>			





	4. Implementation of technical specifications required to provide repository and LTP services through the EOSC 5. Support implementation interoperability guidelines 6. Support repository platforms to embed functionalities for specs	AA1 – Identifiers AA2 - Metadata & Ontologies AA3 - FAIR metrics & certification AA4 - AAI AA5 - User Environments AA6 - Resource Provider Environments AA7 - EOSC Interoperability Framework AA14 - Widening to public & private sectors & going global		
3. DEMONSTRATOR	s	8.0.0.0	104,88	63.932.416,42
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. Update of the Digital Object Gateway demonstrator 3. Development of the AlmaHealthDB (AHDB) infrastructure, adopting a FAIR by design approach, and develop a shared infrastructure for ensuring the highest interoperability level 4. Build a repository for Medical Image data in Cancer for research, applying the FAIR principles 5. Investments concerning the further development of a MVP Discovery Platform and use-case development to uptake features developed on top of the Connectome Knowledge Graph (future interoperable with EOSC) 6. In kind contribution of BBMRI-ERIC members and employees for the	SO1 SO4 SO5 SO6 SO7 SO8 OO1 OO4 OO5 OO6 OO12 AA3 - FAIR metrics & certification AA4 - AAI AA5 - User Environments AA6 - Resource Provider Environments AA7 - EOSC Interoperability Framework	103,88	63.832.416,42





development of the federated data	AA14 Widoning to public		
platform	AA14 - Widening to public		
7. Labs Digital Data Exchange Project	& private sectors & going		
piloting data sharing and data	global		
sovereignty options, lead to potential			
new services			
8. Build technical prototypes in EOSC-compatible frameworks, showcase them			
and work with end-users			
9. Set up vocabulary registries as a demonstrator for a federated registry			
service infrastructure			
10. Development of prototype of a			
flexible science platform for the access			
of open astroparticle data available			
through the EOSC			
11. Development and implementation			
of standards and data interfaces for			
research information			
12. Data storage system, connected to			
the university Cloud and HPC services,			
systematically requiring a DMP, to			
prepare a simple/smooth transition to			
an EOSC repository to open the data			
13. Development of domain-specific			
computational environment built on			
JupyterHub/Binder			
14. Analysis of EOSC requirements on			
complex workflow orchestration and			
distributed data management and their			
integration to the LEXIS platform			
15. Development of a new platform			
devoted to Health Data			
16. Establishment of / or provision a			
funding for new data centres. (e.g.			
creation of Thematic Digital			
Competence Centre for humanities and			
social sciences)			
17. Coordination, curation, and hosting			
of Covid-19 national platforms			





		1	
18. Development of an IT platform for	<u> </u>		
repurposing medicines focused on			
paediatric diseases, based on an			
innovative model including a fit-for-			
purpose IT environment for dedicated			
data analytics	<u> </u>		
19. Dataverse infrastructure for FAIR	<u> </u>		
geospatial data including contributing to	<u> </u>		
the community metadata standards	<u> </u>		
20. Upscaling of IPCC-Atlas Hub and	<u> </u>		
integration with EOSC authentication	<u> </u>		
system and EOSC Exchange	<u> </u>		
21. Investment in collaboration with ICT	<u> </u>		
consortia on how to use the OpenAIRE	<u> </u>		
Graph for their businesses	<u> </u>		
22. Build a core component of national	<u> </u>		
research and innovation e-	1		
infrastructures with long-term advanced	<u> </u>		
computing and storage resources and	1		
network connectivity	1		
23. Provision of services and	1		
infrastructures for data management	1		
and High-Performance Computing	1		
(replicated massive data storage, cloud	<u> </u>		
infrastructures, computing and	1		
visualisation nodes)	<u> </u>		
24. Development of PC oriented	1		
computing infrastructure, Big Data	<u> </u>		
oriented computing infrastructure and	1		
infrastructure for on-demand cloud	<u> </u>		
services that jointly offer secure data	<u> </u>		
storage, scientific computing on the	<u> </u>		
cloud, software, virtual machines,	<u> </u>		
collaborative research, and computing	1		
facilities equipped with technical	1		
support and setup for user access	1		
25. Development and running Data	1		
Repository services allowing the	1		
publication of large-scale datasets to			





3.2 New (pre-)commercial services and capabilities along the data life cycle addressing current and anticipated needs of the research community at large	support researchers to make large data sets FAIR and discoverable within EOSC 26. Development of advanced data management and analysis capabilities linked to strategic Supercomputing infrastructures (HPC) 27. Development of a national platform for the implementation of EOSC 1. Definition of services and related policies for data management, processing and orchestration in accordance with potential commercial use-cases 2. Implemention of the EOSC AAI within EuroHPC	SO4 SO7 OO1 OO5 OO10 AA4 – AAI AA5 - User Environments AA6 - Resource Provider Environments AA7 - EOSC Interoperability Framework AA14 - Widening to public	1,00	100.000,00
		& private sectors & going global		
4. CREATING NEW B	USINESS OPPORTUNITIES	giobai	5,45	769.350,00
4.1 Invest in start-ups, spin- offs on solutions developed within the projects	Support the creation of spinoffs by universities with a 5% stake Transfer of BSC engineering applications to new spin-offs	SO8 AA14 - Widening to public & private sectors & going global	1,85	220.000,00
4.2 Start incubators/accelerators	1. Organisation of bootcamps, hackathons and datathons 2. Support the creation and development of innovative start-ups with high technological intensity and growth potential, founded both by university researchers and students, and by external entrepreneurs, providing strategic consulting services, coaching,	SO8 AA14 - Widening to public & private sectors & going global	2,1	399.350,00





4.3 Matchmaking between different start-ups, - SMEs, participating companies, stakeholders 4.4 Investments in procurement of innovative solutions	mentoring, fundraising support, and spaces 3. SWITCH Innovation Labs concerning the harnessing of Open Science with a focus one Open Research Data - Budget Labs 1. Organisation of workshops with representatives of non-academic partners to develop a more articulate overview of existing opportunities and conditions for service provision and collaboration (innovation based on codevelopment) 2. Organisation of info days and matchmaking events 3. Support for SMEs to deliver new innovative products via the EOSC Future DIH 1. Procurement of innovative platform for scientific data preservation and management	SO8 AA13 - Communication AA14 - Widening to public & private sectors & going global SO8 OO7 AA14 - Widening to public	0,10	140.000,00
		& private sectors & going global		
5. TRAINING & SKILL	S DEVELOPMENT	-	253,96	25.893.368,69
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	1. Various education, training, and skills development activities (such as webinars, video recordings and screencasts) in Open science 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 3. Support to RPOs in delivering training on FAIR and RDM 4. Development of training materials and courses covering RDM topics like	SO1 SO2 SO4 SO6 SO8 OO3 OO4 OO6 AA1 – Identifiers AA2 -Metadata & Ontologies	253,96	25.893.368,69





anonymization, best practices, FAIR principles 5. Data stewards' recruitment campaigns 6. Trainings on Data Management Plan and data archiving provided by data repository staff to researchers involved in funded projects 7. RDM support desks and OS support desks 8. Training on ISO standards on data quality, security and on information transfer systems 9. Development of data stewardship curriculums, establishment of data stewardship curriculums, establishment of data stewardship certificate courses 10. Development of training resources about Open Science and FAIR data for the arts and humanities research communities 11. Annual course on Responsible Research and Innovation with a specific stress on OS and FAIR 12. Involvement in various working groups on FAIR data, data management	
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12. Involvement in various working	
l groups on FAIR data, data management	
13. Advisory services, courses and OS	
trainings for students, PhD candidates,	
university authorities, administrative	
staff, librarians	
14. Metadata for Machines workshops	
15. +B57Training activities focusing on	
experts (train-the-trainers) and	
researchers (data producers and data	
users)	
16. Diploma for 'scientific data	
management', certifications in Open	
Science	
17. Development of leadership	
programmes to foster the right policy	





	environment that supports digital skills				
	and training at institutional and national				
	level				
	18. Build capacities to sustain learning				
	corpora for digital skills and tools so that				
	EOSC represents a trusted and long-				
	lasting knowledge hub				
	19. Cycle of conferences within the				
	framework of the HRS4R to promote				
	scientific careers, incorporating aspects				
	related to open science, FAIR data				
	management plan				
	20. Training platforms with courses on				
	Open Access publishing and FAIR data				
	/RDM				
	21. Continuous upgrading of training				
	materials on FAIR data, RDM, DMP, OA,				
	OS				
	22. Dedicated activities within Open				
	Science Competence Centres and				
	Knowledge Research Education Centres				
	23. Training and dissemination activities				
	among the national RIs connected to ESFRI				
6 CONTRIBUTION T	O THE DEVELOPMENT OF NEW STAN	IDADOS DECLILATIONS ANI	D DOLLCIES	304,63	30.608.601,00
o. Contribution i	O THE DEVELOPMENT OF NEW STAF	VDANDS, REGULATIONS AND	D POLICILS	304,03	30.008.001,00
6.1 Standardisation and	1. Preparation of repositories and	SO1		8,9	1.236.394,00
certification activities	national repository platform for CTS	SO3			,
related to EOSC trusted	certification	SO4			
repositories (e.g.	2. Certification (CoreTrustSeal) of	SO6			
CoreTrustSeal and FAIR)	institutional research data repositories	006			
Core i astocal and i Anti	3. Development of FAIR practices,	0012			
	semantics interoperability of FAIR	0012			
	research resources and repositories				
	4. Support for CoreTrustSeal	AA2 -Metadata &			
	certification	Ontologies			
	5. Extension of activities of Meta Data	AA3 - FAIR metrics &			
	Offices, including the management of	certification			
	meta data profiles	AA5 - User Environments			





	6. Preparation of certification	AA6 - Resource Provider		
	documentation for the Sensitive Cloud	Environments		
	to deal with sensitive (health-related)	AA7 - EOSC Interoperability		
	data	1		
	7. Financial contribution to the board	Framework		
	and secretariat of Core Trust Seal	AA13 – Communication		
	8. Operation of internal ORD working			
	groups			
	9. Operation of the Metadata Validator			
	services			
	10. Contribution to national Computing			
	and Data Infrastructure activities			
	11. Investment in repository			
	certifications stimulate the awareness			
	and skill-levels for how to make data			
	FAIR and help increase the volume of			
	FAIR language data collections			
	12. Provision of funds for participation			
	of data providers to develop standards			
	for interoperability			
	13. Application of FAIR principles and			
	Core Trust Seal certification (RDA &			
	WDS) for Data Centers and services of			
	the Ocean and Solid Earth			
	14. Maintenance of certification services			
	related to Core Trust Seal			
6.2 Translate FAIR	1. Templates, protocols, and guidelines	SO1	77,1	7.651.344,00
guidelines and frameworks	to manage data according to FAIR	SO2	ŕ	,
to make them applicable to	principles for the research community,	SO3		
other digital objects, such	provided by Data Stewards	SO4		
	2. Software development of data	SO5		
as software, code, data	analysis under open code principles to			
management plans,	guarantee its future reusability and data	003		
protocols	provenance	004		
	3. Contribution to the development of	005		
	applicable FAIR guidelines and DMP	006		
	elaboration guidelines	007		
	4. Development of FAIR practices,	008		
	semantics interoperability of FAIR			
	research resources and repositories			





	5. Upgrade the pISA-tree framework for FAIR data management of life science projects 6. Preparation of FAIR guidelines for research projects 7. Support different research communities in practical solutions to make their infrastructure and procedures FAIR engage in development of template DMPs 8. Development of Metadata for Machines tools 9. Participation in activities related to national Minimal DMPs 10. Contribution to the European Software Sustainability Initiative (EUSSI), the Workshops on Sustainable Software Sustainability (WOSSS) and the FAIR Software Route 11. Contribution to the development of institutional and national guidelines for	AA2 -Metadata & Ontologies AA3 - FAIR metrics & certification AA5 - User Environments AA6 - Resource Provider Environments AA7 - EOSC Interoperability Framework AA11 - Skills and training AA13 - Communication AA14 - Widening to public & private sectors & going global		
	IPDA working groups 13. Involvement in EOSC Association's Task Forces work 14. Development and upgrade of guidelines for publications, data, software, other research products 15. Implementation of discipline specific RDM strategies 16. Guidelines for FAIR applications (DMP, Licenses, interoperability			
6.3 Continuous standardisation of PID resource types and promotion of new practices to expand the range of identifiable research	standards, Authentication, Catalogues) 1. Collaboration with Data Cite on various PID standardization activities 2. Implementation of a PID identifier (provided by DataCite) in the raw data of sets collected in different experimental stations	SO1 SO2 SO3 SO4 SO5	66,65	6.306.563,00





	1 2 4 12 12 12 12 12 12 12 12 12 12 12 12 12		T T		
objects e.g. instruments,	3. Application in institutional context	004			
services, organisations and	(eRA, PID service), contributions to	007			
software	committees (e.g., DataCite, CrossRef,	008			
	ORCID-DE, Eurocris)	0011			
	4. Work with DataCite DOI service				
	5. Establishment of national PID				
	roadmaps	AA1 – Identifiers			
	6. Integration of ORCID, DOI and other	AA2 -Metadata &			
	PID in university system				
	7.PID management, nation-wide	Ontologies			
	services DOI-Service, ORCID, activities in	AA3 - FAIR metrics &			
	the RDA National PID Strategies Working	certification			
	Group	AA5 - User Environments			
	8. Alignment of PID usage across	AA6 - Resource Provider			
	national DOI users 9. Involvement in EOSC Association's	Environments			
	Task Forces work (EOSC Task Force PID	AA7 - EOSC Interoperability			
	policy and implementation)	Framework			
	10. Collaboration on national PID				
	infrastructures for FAIR data				
	11. Contribution to various national and				
	international PID standardisation				
	activities				
	12. Contribution to the PID Architecture				
	and design document				
	13. Costs related to PIDs licencing				
	(DataCite, Handle, CrossRef, ORCID).				
	14. Operation of the OpenOrgs service				
	that bridges identifiers of organisations				
	from different registries				
	15. Using and promoting the use of DOI				
	for OGS digital materials				
	16. Establishment of National Centres				
	for PIDs (ISSN, ORCID consortium,				
	DataCite consortium, ROR)				
6.4 Support all research	Support domain specific development	SO1		151,98	15.414.300,00
communities to develop	of ontologies for semantic web	SO4		202,00	25.12.1000,00
and adopt domain-specific	applications	004			
1	2. Support to LifeWatch and CSIC's				
standards and to	Teledetection Thematic Platform on the	005			
consolidate common		0012			





metadata and data
schemata for use in the
FOSC context

adoption of relevant standards for their			
domains of knowledge and FAIR	AA2 -Metadata &		
principles	Ontologies		
3. Support to the implementation of	_		
data standards	AA3 - FAIR metrics &		
4. Development of Flemish Standard for	certification		
Research Data	AA5 - User Environments		
5. Support arts and humanities research	AA6 - Resource Provider		
communities in developing/adopting	Environments		
new standards and policies,	AA7 - EOSC Interoperability		
6. Participation in the following EOSC-	Framework		
Association task forces: TF Upskilling			
Countries to Engage in EOSC, TF			
Research Careers, Recognition, and			
Credit, TF Defining Funding Models for			
EOSC and TF Semantic interoperability			
7. Contribution to FOSB working group			
architecture - use cases			
8. Support for adopting metadata and			
file format standards to ease data			
access and discovery			
9. Development of national open			
science plans, development, and			
promotion of institutional OS policies			
10. Support for several research			
communities in standardisation by data			
steward teams			
11. Activities in the GEO Data Working			
Group			
12. Support research communities (e.g.,			
migration, historical financial data,			
religious studies, election studies) to			
implement dedicated metadata			
13. Support research communities,			
mainly in the SSH, to adopt domain-			
specific standards			
14. Development of Code of Conduct for			
Health Research			
15. Preparation for National Metadata			
Catalogues for research data			





7. SUPPORTING ECOSYSTEM DEVELOPMENT			328,13	33.859.813,00
7.1 Define and test financing models for a lasting long-term EOSC sustainability framework	1. Co-definition of a sustainability framework with the members of the Hellenic Open Science Initiative 2. Participation in EOSC-A Task Force 'Long term data preservation' 3. Contribution to the work of EOSC Association Financial Sustainability Task Force development of national models for financial sustainability 4. Establishment of working group for defining and assessing business models for OpenAIRE services 5.Build ICDI Legal Entity: management effort, legal expenses, initial capital for all members"	OO13 OO14 AA9 – Landscape Monitoring AA10 – Funding Models	3,35	435.000,00
7.2 Development of consensual EOSC frameworks and guidlelines (e.g. for interoperability, AAI, the implementation of EOSC rules of participation)	1. Participating in EOSC-A Advisory Group 'Technical challenges on EOSC' — Task Force 'AAI Architecture', Task Force 'Technical interoperability of data and services' 2. Participation in EOSC Rules of Participation Compliance Monitoring working group 3. Work on EOSC compatible AAI ecosystem for specific scientific domains (primary Life Science and Healthcare) 4. Contribution to AAI standards and best practices definition from the HPC centre and related services operator perspective 5. Participation in the definition of SRIA and the corresponding Architecture, AAI 6.Participation in the EOSC Association's Task Forces: Rules of Participation Compliance Monitoring, Long-Term Data Preservation	SO5 OO4 OO5 OO13 AA3 - FAIR metrics & certification AA4 - AAI AA7 - EOSC Interoperability Framework AA9 – Landscape Monitoring	5,62	570.433,00
7.3 Support to knowledge building and sharing with	Collaboration with national RPOs and researcher networks	SO1 SO4	86,07	9.053.433,00



involved in local research infrastructure

work



the research domains to
support data-intensive-
science and inter-
disciplinary research

2. Support the publication in Open Science Journals through internal grants 3. Fostering best practices in open science across researchers 4. Dedicated staff to support researchers with interdisciplinary data interoperability across department and projects 5. Establishment of Digital Competence Centers with a focus on improving SO8 OO2 AA1 – Identifiers AA2 -Metadata & Ontologies AA3 - FAIR metrics & certification	
research data management practises and the adoption of FAIR and Open Science 6. Engagement in several working groups and workshops, e.g., on metrics, architecture, metadata standards 7. Facilitation of dialog across research domains with relevant stakeholders 8. Support all research teams covering the entire data cycle, from writing DMPs, adopting appropriate storage solutions, depositing their datasets in open repositories 9. Communication and dissemination activities towards engagement of research communities in open science practice 10. Collection of regional competences and knowledge and make them available for industry 11. Organisation of a multi-disciplinary, annual scientific and technical users' conferences 12. The cost of personnel in Research Data/ Research Data/ Research Data Management Offices 13. The cost of personnel (developers, system managers, data curators)	





7.4 Building industry-
academia cooperation (e.g.
GAIA-X and other industry-
driven initiatives)

1. Collaboration with national RPOs and	SO8	19,5	2.007.833,00
researcher networks		·	ŕ
2. Support the publication in Open	AA9 – Landscape		
Science Journals through internal grants	Monitoring		
3. Fostering best practices in open	AA14 - Widening to public		
science across researchers			
4. Dedicated staff to support	& private sectors & going		
researchers with interdisciplinary data	global		
interoperability across department and			
projects			
5. Establishment of Digital Competence			
Centers with a focus on improving			
research data management practises			
and the adoption of FAIR and Open			
Science			
6. Engagement in several working			
groups and workshops, e.g., on metrics,	•		
architecture, metadata standards			
7. Facilitation of dialog across research			
domains with relevant stakeholders			
·			
=			
Offices			
8. Support all research teams covering the entire data cycle, from writing DMPs, adopting appropriate storage solutions, depositing their datasets in open repositories 9. Communication and dissemination activities towards engagement of research communities in open science practice 10. Collection of regional competences and knowledge and make them available for industry 11. Organisation of a multi-disciplinary, annual scientific and technical users' conferences 12. The cost of personnel in Research Data/ Research Data Management Offices 13. The cost of personnel (developers, system managers, data curators)			





	involved in local research infrastructure work			
7.5 Enforcement and implementation of the EOSC Persistent Identifier (PID) policy and architecture	1. Internal campaign for adoption and promotion of ORCID among staff and researchers from the linked organisations 2. PID analysis project within Knowledge Exchange Centre 3. Revision of institutional policies and enforcement of PIDs for all data holdings 4. The programme that aims to facilitate the production, access, sharing and management of information on national scientific activity 5. Implementation & maintenance of pilot PID services for national User community	SO1 SO2 SO4 OO11 AA1 – Identifiers AA2 - Metadata & Ontologies AA3 - FAIR metrics & certification AA9 – Landscape Monitoring	2,80	283.202,00
7.6 Encouraging and incentivising use of European infrastructure for sharing of research software	1. Encouraging use of image data tools developed in EOSC-Life 2. Internal campaign, using institutional newsletter, for promotion of EOSC membership and raise awareness of the importance of open standards and sharing of research software 3. FAIR software project within Knowledge Exchange Centre 4. Establishment and expansion of a software quality platform (EURISE Network) and bilateral collaborations with other scientific domains 5. Contribution to the European Software Sustainability Initiative (EUSSI), the Workshops on Sustainable Software Sustainability (WOSSS) and the FAIR Software Route 6. HPCQS platform design activities 7. MeHeart open-source optimized model of solid mechanics of the myocardium to reproduce the cardiac	SO6 SO7 OO1 OO7 AA5 - User Environments AA6 - Resource Provider Environments AA9 – Landscape Monitoring AA14 - Widening to public & private sectors & going global	2,86	315.533,00





	electro-mechanics in HPC environment			
	for industrial, clinical, and academic			
	applications			
	8. Implementation of software			
	metadata standards on DIGITAL.CSIC			
	institutional repository to increase			
	software visibility and metadata quality			
7.7 Monitoring of EOSC key	1. Monitor institutional progress of KPIs	SO5	1,72	172.000,00
performance indicators	by Open Science teams	002	•	ŕ
(KPI's), investments and	2. Engagement in in OpenAIRE	007		
FAIR data production and	monitoring activities	AA9 - Landscape Monitoring		
· ·	3. Reporting activities and participation	AA9 - Lanuscape Monitoring		
management	in WG KPIs and WG Landscape Analysis			
	of national EOSC Mandated			
	Organisation			
	4. Collection of KPIs based on ESFRI KPI			
	framework			
	5.Contribution to national open science			
	website by publishing an online open			
	science dashboard with a variety of			
	indicators			
	6. Performance of a national survey on			
	the status of open access to research			
	data			
	7. Involvement in activities relating to			
	monitoring in the EOSC Steering Board			
	and in the EOSC Association			
7.8 Contributing to a	1. Contribution to the alignment of the	SO1	59,29	5.933.633,00
rewards and recognition	national rewards and incentives	SO4		
framework that incentivises	framework to the European initiatives	008		
FAIR data and Open Science	2. Participation in EOSC-A Advisory			
17 int data and open science	Group 'Research careers and curricula' –	AA3 - FAIR metrics &		
	Task Force 'Research careers,	certification		
	recognition and credit'			
	3. Contributions to committees (e.g.,	AA12 - Rewards &		
	EOSC TF Research careers and	Recognition		
	recognition and credit, The Guild) and	AA13 – Communication		
	contributions to institutional / national	002		
	discussions	007		
		AA9 - Landscape Monitoring		





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	4. Creation of two new awards available			
	to researchers: one for the 'best open			
	access publication' and the other for the			
	'best FAIR research database'			
	5. Involvement in European initiatives			
	such as the development of an			
	agreement on Reforming Research			
	Assessment			
	6. Ongoing support for the new			
	evaluation system for university's			
	professors			
	7. Scientometric analyses and advisory			
	services for university's researchers and			
	research units			
	8. A pilot for responsible metrics			
	implementation in assessments and job			
	applications			
	9. Development of national rewards and			
	recognition framework within national			
	FAIR Strategy implementation			
	10. Implementation of open science as			
	part of assessment criteria for grant			
	applications in 2022			
	11. Include the Open Science metrics,			
	esp. data sharing, into the carrier			
	reward system			
	12. Establishment of Research			
	Assessment group			
	13. Participation in initiatives outside			
	EOSC Association (e.g.in cOAlition S and			
	Science Europe)			
	14. Establishment of internal working			
	groups dedicated to rewards and			
	recognitions as well as research			
	assessment			
7.9 Activities contributing	1. Collaboration with other	SO1	128,84	13.207.013,00
to strategic and operational	infrastructures, partnerships, Horizon	SO8		
alignment, coordination	Europe mission, to implement into the	SO9		
and synergies with other	strategic and operational plans at EU	004		
_		004		
partnerships, HE missions,				





r		1		
initiatives, research data	level innovative paediatric research to	AA9 - Landscape Monitoring		
commons and data spaces	be developed in synergy.	AA14 - Widening to public		
·	2. Establishment of national Open	& private sectors & going		
	Science Task Forces and/ or national	global		
	EOSC Support Offices	8.000		
	3. Coordination of national Open			
	Science Cloud Initiative as national,			
	organizational, and technological			
	environment which encourages and			
	enables open science by providing the			
	resources and services needed for			
	collecting, processing, storing, sharing,			
	and reusing research data following			
	FAIR principles.			
	4. Participation in Executive Board in			
	Competence Centers			
	5. Participation in national Open Science			
	Observatories			
	6. Participation in EOSC task forces			
	UNIBO, in Open Science working groups			
	of The Guild			
	7. Coordination of national Network for			
	e-Science, fostering the cooperation			
	among main national stakeholders in e-			
	Science, including Open Science			
	8. Contribution to national Open			
	Research Forum which brings together			
	stakeholders in national research eco-			
	system to help develop national policies			
	on open research			
	9. Stakeholder-Management and			
	Communication with Connectome			
	Research Infrastructure Partners and			
	prospective Partners, EOSC national			
	group alignment			
	10. Collaboration with other important			
	institution and initiatives contributing to			
	strategic and operational alignment:			
	Science Europe, part of CoNOSC, acting			
	as national RDA Node			





11. Connection to the European			
Consortia of Universities for practices			
exchange and a correlation of OS			
approaches			
12. Contributions to discussions in			
committees (e.g., The Guild, EUA, LIBER,			
RDA)			
13. Alignment with euroCRIS and EOSC			
14. Coordination of national network			
and programs on RDM policies to			
support information exchange and to			
create and pilot new RDM services			
15. Alignment between various national			
universities and with national			
administration			
16. Cooperation between universities			
and national funding organisations to			
establish an interaction between			
research information systems and			
research data management			
infrastructures with the aid of digital			
technologies			
17. Development of common definition			
of components of the national			
infrastructure for 1 million genomes			
(part of the Health Data Space) with			
relevant stakeholders			
18. Collaboration with main national			
providers of data services to have a			
better integrated national data			
infrastructure in place			
19. Contribution to the National e-			
Science Network			
20. Coordination of National Institute of			
Bioinformatic			
21. Participation to National Open			
Science Committee, and national EOSC			
working groups			
22. Contribution to relevant EU			
initiatives aligned with EOSC objectives:			





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	SeaDATANET, Science Europe, GBIF,			
	OPERAS			
	23. Participation in the community of			
	IODE Ocean Best Practices system and in			
	the Inter-sessional Working Group to			
	propose a Strategy on Ocean Data and Information Stewardship for the UN			
	Decade of Ocean Science for Sustainable			
	Development 2021-2030			
7.10 Contact points at	Participation in the Hellenic Open	SO1	18,08	1.881.733,00
·	-	SO3	18,08	1.881.733,00
national or institutional	Science Initiative, which aims to			
levels and coordination	promote EOSC in the country	SO8		
mechanisms for EOSC	2. Operation of contact points	002		
uptake by the research	concerning EOSC activities, related	004		
communities, infrastructure	projects, RDM steering group,	_		
connection and FAIR	research data networks	AA8 – Rules of Participation		
implementation	3. Coordination activities for	AA9 - Landscape Monitoring		
	National Open Science Cloud	AA13 – Communication		
	Initiative	AA14 - Widening to public		
	4. Coordination of OS activities	& private sectors & going		
	relevant at national level and acts as	global		
	an OS and EOSC helpdesk,			
	supporting the EOSC uptake, being			
	connected to the main initiatives			
	5. Coordination of the national EOSC			
	Forum, running EOSC national			
	Coordination Forum			
	6. Coordination of the national OS			
	Taskforce, engagement with			
	national stakeholders, co-creation			
	activities for potential 'EOSC-proof'			
	services in collaboration with			
	research organisations and			
	researchers			
	7. ERIC contact point that			
	coordinates mechanisms for EOSC			
	uptake at national or institutional			
	uptake at national or institutional			





level (i.e., raising awareness,			
onboard services on the EOSC	1		
Marketplace)	1		
8. Contact point for EOSC for	1		
national Association of Higher	1		
Educational Institutions			
9. Design of governance model to			
engage stakeholders ("mirroring the			
EOSC Association activities") in the			
national EOSC building activities	1		
10. Coordination of activities and	1		
information flows, liaising with the			
involved ministries and national			
funding agencies			
11. Financial support for EOSC	1		
Membership for national			
institutions	1		
12. Contact point for Service			
Providers in member countries	1		
13. Staff dedicated to disseminating			
information among members, and			
strengthening reinforcement of			
cooperation to EOSC from all the HE	1		
institutions			
14. Coordination of national	1		
activities towards the			
implementation of ESOC, including	1		
work on the general conditions for			
this implementation participation in	1		
the coordination board for			
implementation of the EOSC			
initiative on a national level			
15. Coordinating of works of the			
national members of EOSC			
Association, as well as liaising with	I		





thos	se institutions that consider				
ioini	ing the EOSC Association				
	Provision of a communication				
	form for the institutions, which				
l -	-				
	not members of the EOSC				
Asso	ociation, but whose Open				
Scie	nce initiatives and investments				
can	be aligned with EOSC				
	-				
8. COMMUNICATION, DIS	SEMINATION, AWARENESS RA	ISING, CITIZEN ENGAGEMEN	NT	54,79	5.510.900,00
1 50	OSC-related communication and	SO1		42,24	4.238.400,00
	reness raising activities, using all			42,24	4.238.400,00
	lable communication institutional	SO2			
		SO3			
	nnels, including webpages,	SO4			
_	azines, newsletters and through	SO8			
	al networks	003			
	issemination, outreach, social media	004			
	ings, events and webinars targeted	004			
	ely for research communities on				
	cs including research data	AA5 - User Environments			
	agement, EOSC, EUDAT, FAIR data,	AA6 - Resource Provider			
0.1 LOSC-related	infrastructures and research data	Environments			
communication, servi		AA9 - Landscape Monitoring			
niccemination officeach	issemination actions with respect to	AA13 - Communication			
and awareness raising	C during national e-Science	AA14 - Widening to public			
	tings	& private sectors & going			
4. FN	R activities with national press and				
maga	azines (scientific, IT related, broad	global			
	erage,)				
5. Av	wareness raising activities in diverse				
conte	exts (e.g., institutional meetings				
and e	events, university alliances)				
6. Cro	reation of a dedicated space on the				
instit	tutional website to explain EOSC,				
publi	licite our membership and gather				
atter	ntion from our community				
7. Lo	ocal and national workshops and				
even					





	8. Dissemination of EOSC policy,			
	funding, and other activities from the			
	European to national and local level			
	9. Roadshow and promoting EOSC to			
	research communities			
	10. Update of engagement strategy			
	11. Activities of communication and			
	awareness of the Scientific Culture			
	12. Dissemination activities related to			
	EOSC near the community, namely			
	through the RDM Forum event			
	13. Online materials devoted to EOSC			
	and Open Science that will be			
	disseminated among national			
	researchers, data stewards, service			
	providers, university authorities as well			
	as local and national authorities			
	14. Creating, transferring, and			
	promoting informational and			
	promotional content via the website,			
	social media, as well as events and			
	publications			
	15. Digital University Hub is the			
	cooperation and service platform for			
	digital and social transformation			
	initiatives by Austrian universities			
	16. Conferences, articles, publications,			
	online events (e.g., the "Open Science			
	Café)			
	17. Organization of promotion and			
	outreach activities updating the			
	information on the website on mapping			
	of research infrastructures			
	18. Development of and contribution to			
	guidelines related to European policy			
	framework and EOSC			
8.2 Promoting EOSC at all	1. Maintenance of dedicated webpage	SO1	12,55	1.272.500,00
levels by engaging with	on EOSC-related activities, addressed to	SO3		
relevant communities and	various communities	SO8		
stakeholders		SO9		





		1	
2. Engagement activities through EOSC	004		
Board and membership fee	005		
3. Regular webinars with researchers	007		
where EOSC and engagement	008		
opportunities are disseminated	009		
4. Management of large platforms such	0014		
as BrainMap - the online community of	0014		
researchers, innovators, technicians,			
and entrepreneurs with more than	AA13 - Communication		
42.000 accounts or EERIS platform that	AA14 - Widening to public		
offers an overview of existing research	& private sectors & going		
facilities, equipment, services, and	global		
technological services at national level			
5. Promotion of EOSC in various			
activities, sometimes in cooperation			
with OpenAIRE			
6. Promotion of the federation of			
existing services and data at the			
European level			
7. Promotion of EOSC policy, funding,			
and other activities from the European			
to national and local level			
8. Leverage of existing network and			
communication channels to general e-			
infrastructure users' community			
9. Promotion of EOSC by engaging with			
research communities in the SSH			
10. Interactive webinars and EOSC			
conversations			
11. Promotion of Open Science with			
national events, press releases, posts on			
social media, web news on institutional			
web sites, paper material (leaflets, roll			
up, posters), contents on the dedicated			
section of the institutional web portal			
12. Citizen engagement through			
monitoring surveys with the use of			
innovative applications			





	13. Collaboration with funders, research organizations, policymakers, and research communities			
9. OTHER			88,11	16.837.247,00
9.1 Introduction of EOSC-specific references in research programmes and EOSC-related criteria for R&I funding	1. Elaboration of a concrete roadmap/ action plan with indicators corelated to the EU policy recommendations and correlated with SRIA and the EOSC Partnership KPIs, including proposals/ estimates of the financial interventions needed at national level 2. Support in drafting OS related criteria in different funding streams 3. Contribution to the Horizon Europe Programme (HE) in collaboration with the national HE Programme Committee Research Infrastructures 4. Support researchers in integrating EOSC & FAIR in proposals, support researchers to comply with requirements for projects 5. University policy for Open Science and Open Access, finalization, and implementation	SO1 SO3 SO4 OO4 AA8 – Rules of Participation AA9 - Landscape Monitoring AA12 - Rewards & Recognition	0,15	15.000,00
9.2 Activities in support of open publishing and initiatives to promote wider open access publication through the EOSC	1. Development, support, and promotion of the national infrastructure for OA and activities on boarding those infrastructures to EOSC 2. Enforcement of the open access policy for mandatory deposit of publications and data in the institutional repositories - OpenAIRE compliant - through the recruitment of new library staff for full-text check 3. Support to diamond open access through the institutional e-publishing platforms for open access peerreviewed journals and books	SO1 SO3 SO4 OO1 OO3 AA6 - Resource Provider Environments AA13 - Communication AA14 - Widening to public & private sectors & going global	43,71	6.866.512,00





	4. Institutional contributions to			
	European infrastructures (e.g., OPERAS,			
	OpenAIRE)			
	5. Liaison activities with Open Research			
	Europe - ORE and Open Repositories at			
	EU, national and regional levels			
	6. Collaboration with other			
	organisations, support Open Science			
	organisations like SCOSS, participation in			
	OpenAIRE			
	7. Open Access initiatives for digital			
	publications			
	8. Involvement in the international			
	coalition, cOAlition S, which is behind			
	Plan S			
	9. Operation of the institutional open			
	access repository Research Collection			
	10. Support open access data journal			
	Research Data Journal for Social			
	Sciences and Humanities			
	11.Support for researchers with finding			
	appropriate research repositories and			
	support in the deposition process			
	12. Operation of institutional DSpace			
	repository			
	13.Development of guides for open			
	access publishing in Horizon Europe			
	14.Provision of technical links from			
	OpenAIRE repositories to Open			
	Research Europe			
	15.CzechElib - transition to Gold OA via			
	transformative agreements, National			
	repository, Implementation of European			
	OS standards			
9.3 Adoption of national or	1. Support to the implementation of the	SO1	17,93	2.141.500,00
institutional strategies for	Digital Bible priorities	SO2	27,55	2.2 (2.300)00
1	2. Digitisation projects of cultural			
digital transformation and	heritage collections within the national	SO3		
related roadmaps including	program of the Ministry of Culture	SO4		
a reference to the EOSC	3. Research Data Management policy	SO9		
		001		





	4. Adoption of national strategies, e.g. National Strategy Open Research Data 5. Development of national roadmap on Open Science 6. Participation in projects aligned with the National AI strategy and actions in the field of data platforms 7. Promotion of digital enabling technologies such as connectivity infrastructures or massive data environments to facilitate data sharing 8. Development of advanced data management and analysis capabilities linked to strategic Supercomputing infrastructures (HPC) 9. Finalization of the university roadmap on open science, essentially on open data 10. Adoption and implementation of Institutional Strategies on Open Science 11.Implementation of national digital transformation strategies through the University Action Plan 12. Contribution to the National Roadmap for Digital Transformation which also included actions for Open Science and EOSC 13.Implementation of the institutional strategies for digital transformation and related roadmaps through a dedicated working group, periodical meetings, and	OO2 OO3 OO4 OO6 OO8 OO13 AA9 - Landscape Monitoring AA13 - Communication AA14 - Widening to public & private sectors & going global AA3 - FAIR Metrics & Certification AA9 - Landscape Monitoring		
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	1.Support the implementation of activities included in the proposal for a National Open Science Plan 2. Plan S implementation, national Open Science Board roadmap implementation 3.Completion of national policies on Open Science	SO3 SO4 OO4 AA3 - FAIR Metrics & Certification	20,83	2.094.235,00





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plans for the	4. Ensure a long-term connection to the	AA8 – Rules of Participation		
implementation of those	major EU initiatives and the national	AA9 - Landscape Monitoring		
policies	ones			
pomoro	5. Operation of NOSCI forum			
	6. Contribution to the development of			
	national policies, agenda, objectives on			
	OS in the OS national Taskforce			
	7. Adoption of national roadmap on			
	Open Science			
	8. Develop an update of the open			
	science and the publication policy			
	9. Implementation of institutional RDM/			
	OS policy			
	10. Development of the concept of a			
	national strategic document on Open			
	Science for the Ministry of Education			
	and Research			
	11.Development of national and			
	institutional strategic document			
	templates on Open Access, Open			
	Science (for research performing and			
	research funding organisations)			
	12.Development of the Institutional			
	Open Research Data Policy framework			
	13.Development and implementation of			
	national policies on Open Science			
	14. Revision of policies to adhere to new			
	national ORD strategy, which also refers			
	to EOSC			
	15.Implementation of institutional			
	policy on FAIR Data & software			
	16.Development of a set of			
	recommendations in relation to			
	infrastructure and various research			
	artefacts (research publications, data,			
	software, open-source code) at national			
	and institutional level			
	17.Continuation and enforcement of the			
	institutional mandate for Open Access			
	publications through DIGITAL repository			
		1		





9.5 Liaise internationally to	1. Collaboration aimed at increasing the	SO8	5,50	5.720.000,00
develop a global	awareness for the potential benefits of	SO9		
cooperation framework for	sharing language resource enabled by			
Open Science	the interoperability framework	AA14 - Widening to public		
infrastructures	2. Maintenance of existing links with	& private sectors & going global		
	active consortia in South Africa, the US,			
	Australia, and Latin America	giobai		
	3. Organisation of promotion and			
	outreach activities updating the			
	information on the website on mapping			
	of research infrastructures			
	4.Active liaisons with regional networks			
	around the world (Canada, Latin			
	America, UN, GOSC, RDA, COAR) which			
	include technology transfer, know-how			
	and practices			