### Co-programmed partnerships

**Additional Activity Reporting**

<table>
<thead>
<tr>
<th>Partnership</th>
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<tbody>
<tr>
<td>EOSC: European Partnership for the European Open Science Cloud</td>
<td>292162962</td>
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</table>

<table>
<thead>
<tr>
<th>Additional Activity category</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Support to additional R&amp;I</td>
</tr>
</tbody>
</table>

#### Definition of Additional Activity category

This category covers:

- a) Additional (i.e. not receiving/having received EU funding) R&I funded and executed by private partners in the association;
- b) Additional (i.e. not receiving/having received EU funding) R&I funded by a public research funder (which is a partner in the association, or not) and executed by private partners in the association (n.b. regional or national programmes to support R&I are often offered by public funders).
- c) Additional (i.e. not receiving/having received EU funding) R&I funded by a public research funder which is a partner in the association through for instance a regional or national R&I funding programme.

For case b) above, please note that:
- If a private partner has received co-funding for a project from a public entity which is NOT a partner in the association, then only the part financed by the private partner should be counted in this category (but not the part co-financed by the public entity).

For case c) above, please note that:
- If a private partner has received co-funding for a project from a public entity which IS a partner in the association, then the entire project should be counted in this category (also the part co-financed by the public entity).

R&I should be understood as covering the full range of TRL levels.

#### Additional activity reported under this category

- Yes
- No

<table>
<thead>
<tr>
<th>Amount per category</th>
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<tbody>
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<table>
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<tr>
<th>Additional Activity Number</th>
<th>Additional Activity Name</th>
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</thead>
<tbody>
<tr>
<td>1.1</td>
<td>Upgrade of existing research infrastructures and e-infrastructures so that they may be federated through EOSC</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Additional Activity type</th>
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</thead>
<tbody>
<tr>
<td>1.1 Upgrade of existing research infrastructures and e-infrastructures so that they may be federated through EOSC</td>
</tr>
</tbody>
</table>

#### Description of Additional Activity

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
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

**Link to partnership general objectives**
- GO1 - Ensure that Open Science practices and skills are rewarded and taught, becoming the ‘new normal’
- GO2 - Enable the definition of standards, and the development of tools and services, to allow researchers to find, access, reuse and combine results
- GO3 - Establish a sustainable and federated infrastructure enabling open sharing of scientific results

**Link to partnership specific objectives**
- SO1 - Increase in the number of relevant research results that are made available as open as possible by researchers performing publicly funded research
- SO4 - Increasing amounts of research data produced by publicly funded research in Europe are FAIR by design
- SO5 - 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
- SO7 - EOSC is operationalised and provides a stable and valuable infrastructure supporting researchers addressing societal challenges
- SO9 - Essential additional functionalities for end users from the public and private sectors are implemented in EOSC (these developments are complementary to those of other European data spaces)
- 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)
- 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)
- OO10 - Deploy and operate an authentication and authorisation infrastructure (AAI) framework to manage user identity and access by 2024
- OO11 - Implement the EOSC persistent identifier (PID) policy and architecture by 2025
- 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

**Link to projects**

<table>
<thead>
<tr>
<th>Activity Number</th>
<th>Activity Name</th>
<th>Funding sources</th>
<th>Amount per activity</th>
</tr>
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<tbody>
<tr>
<td>1.1</td>
<td>Development and deployment of EOSC-compatible search engines to allow the researchers to explore rich metadata and semantic descriptions in EOSC-connected registers</td>
<td>Public</td>
<td>116 405 130 €</td>
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</table>

**Success story number**
1.1

**Success Story Name**
Upgrade Platform: data managing plans - Ghent University

**Success story description**
Ghent University has been enhancing infrastructure provided to their researchers such as - upgrade the platform for managing data managing plans DMPonline.be. Ghent University started the platform and involved other Belgian partners to form a national platform - upgraded the institutional repository http://biblio.ugent.be - connected the UGent CRIS system http://research.ugent.be to the institutional repository so information can be exchanged between the two platforms. This enriched information flows to external infrastructures such as the Flemish Information Space FRIS and OpenAIRE, through which information flows to EOSC - upgraded the OA publishing platform to the new software Janeway, http://openjournals.ugent.be - analysis and first steps of the development of a data vault - development of the data register, ...

**Audience or target group**
- Industry
- Research
- Public Institutes
- Authorities
- Public at large
- Other

**Website**
http://DMPonline.be

**Additional Activity Number**
1.2

**Additional Activity Name**
Development and deployment of EOSC-compatible search engines to allow the researchers to explore rich metadata and semantic descriptions in EOSC-connected registers

**Additional Activity type**
1.2 Development and deployment of EOSC-compatible search engines to allow the researchers to explore rich metadata and semantic descriptions in EOSC-connected registers

**Description of Additional Activity**
This Additional Activities type includes as follows:

1. Development of terminology services 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.
11. Development of an online platform to reduce the barriers for accessing scientific publications by citizens.
12. Establishment of the EOSC-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.
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.

Link to partnership general objectives
GO1- Ensure that Open Science practices and skills are rewarded and taught, becoming the ‘new normal’.

Link to partnership specific objectives
SO1- Increase in the number of relevant research results that are made available as open as possible by researchers performing publicly funded research.
SO4- Increasing amounts of research data produced by publicly funded research in Europe are FAIR by design.
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.
SO7- EOSC is operationalised and provides a stable and valuable infrastructure supporting researchers addressing societal challenges.
SO8- Essential additional functionalities for end users from the public and private sectors are implemented in EOSC (these developments are complementary to those of other European data spaces).
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).
OO3- 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).
OO10- Deploy and operate an authentication and authorisation infrastructure (AAI) framework to manage user identity and access by 2024.
OO11- Implement the EOSC persistent identifier (PID) policy and architecture by 2025.
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.

Link to projects

<table>
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<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>✔</td>
<td></td>
</tr>
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</table>

Funding sources
- Public
- Private

Amount per activity
3,478,976 €

Success story
- Yes
- No

Success story number
1.2

Success Story Name
Development and improvement of search functionality - University of Zagreb Computing Centre

Success story description
Development and improvement of search functionality of the national repository infrastructure Digital academic archives and repositories - DABAR (https://dabar.srce.hr). With the improvements, all contents and repositories in DABAR are aligned with the current OpenAIRE Guidelines for Literature Repository Managers v4 and OpenAIRE Guidelines for Data Archives. It involved training of repository managers on how to register OpenAIRE interface and it had an impact on all institutional and thematic that are established on DABAR. At the end of 2022 DABAR infrastructure contained 155 digital repositories with 215,678 published digital objects. The activity was performed
during the whole of 2022.

**Audience or target group**
- Industry
- Academia
- Research
- Public Institutes
- Public at large
- Other
- Authority

**Website**

https://dabar.srce.hr

**Additional Activity Number**
1.3

**Additional Activity Name**
Deploying EOSC-Core components for FAIR (e.g. the deployment of online tools for data FAIRification or to help creating FAIR Data Management Plans)

**Description of Additional Activity**
This Additional Activities’ type includes as follows:
1. Development, hosting, maintenance, and support for different FAIR tools to support researchers in every step of the life cycle e.g., DMP tool, PRET platform, iRODS infrastructure for active data management, diversified storage solutions
2. Development and pilot of public data repository services for institutions not having capacity to deploy their own repository
3. Provision of standard services for Data Management Plan Tools and REST API (e.g., DMPOnline)
4. Integration of online DMP tool with organisational tools such as repositories and data registers
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 Architecting 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
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. Development 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

**Link to partnership general objectives**
GO1- Ensure that Open Science practices and skills are rewarded and taught, becoming the 'new normal'
GO2-Enable the definition of standards, and the development of tools and services, to allow researchers to find, access, reuse and combine results
GO3- Establish a sustainable and federated infrastructure enabling open sharing of scientific results

**Link to partnership specific objectives**
SO1- Increase in the number of relevant research results that are made available as open as possible by researchers performing publicly funded research
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
SO5- 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)

**Funding sources**
- Public
- Private

**Amount per activity**
12 193 719 €

**Success story**
- Yes
- No

**Success story number**
1.3

**Success Story Name**
Data management expert guide - Consortium of European Social Science Data Archives

**Success story description**
Upgrade of the CESSDA Data Management Expert Guide and the CESSDA Website. It also includes outreach and branding of this DMEG. Realisation of the Data Archiving Guide (DAG) for data experts.

Audience or target group
- Industry
- Academia
- Research
- Public Institutes
- Public at large
- Authorities
- Other

Website
https://www.cessda.eu

Additional Activity Number
1.4

Additional Activity Name
Development and publication of large scale studies

Description of Additional Activity
This Additional Activities' type includes as follows:
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

Link to partnership general objectives
GO1- Ensure that Open Science practices and skills are rewarded and taught, becoming the 'new normal'
GO2- Enable the definition of standards, and the development of tools and services, to allow researchers to find, access, reuse and combine results

Link to partnership specific objectives
SO1- Increase in the number of relevant research results that are made available as open as possible by researchers performing publicly funded research
SO5- The EOSC Interoperability Framework supports an increasing range and quantity of FAIR digital objects including data, software and other research artefacts
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
SO8- Essential additional functionalities for end users from the public and private sectors are implemented in EOSC (these developments are complementary to those of other European data spaces)
OO1- Deliver and operate all the necessary components of the Minimum Viable EOSC to 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
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)

Link to projects
Yes

Funding sources
- Public
- Private

Amount per activity
2 753 000 €

Success story
Yes
No

Success story number
1.4

Success Story Name
Collaborative use of research data - Graz University of Technology

Success story description
Large-scale studies are planned to be conducted in the project IDE@S (Innovative Data Environment @ Styria). IDE@S is a cooperative project between four Styrian higher education institutions (HEIs) - TU Graz, Karl-Franzens Universität Graz, Medizinische Universität Graz and FH Joanneum - funded by the Government of Styria aiming to develop a regional reference model for the collaborative use of research data. This will foster the cooperation between industry and HEIs in data science, thus strengthening Styria's research and industry position and increasing its visibility throughout Europe. The current study results have been published:
https://doi.org/10.3390/data7020020

Audience or target group
- Industry
- Academia
- Research
- Public Institutes
- Public at large
- Authorities
- Other

Website
https://doi.org/10.3390/data7020020
### Additional Activity Number 1.5

**Additional Activity Name**

Contribution to operating core functions of a Minimum Viable EOSC ecosystem

**Additional Activity type**

1.5 Contribution to operating core functions of a Minimum Viable EOSC ecosystem

### Description of Additional Activity

This Additional Activities' type includes as follows:

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 Geant EduGain
4. Development of the Persistent Identification (PID) service
5. Development of the Research Activity Identifier that helps identify not only research projects but also identify infrastructure used in research projects
6. AAI infrastructure development and maintenance of AAI federation in platforms (e.g. ELIXIR, B2ACCESS)
7. Maintenance of provider profiles on the EOSC Portal
8. Integration of generic data science platform in the EOSC portal, with links to existing EOSC-Exchange services, according to EOSC specifications and architecture
9. New generation platform for libraries, WG Metadata schemas, National Metadata Catalogue, National Centre for PIDs

### Link to partnership general objectives

GO2- Enable the definition of standards, and the development of tools and services, to allow researchers to find, access, reuse and combine results
GO3- Establish a sustainable and federated infrastructure enabling open sharing of scientific results

### Link to partnership specific objectives

SO1- Increase in the number of relevant research results that are made available as open as possible by researchers performing publicly funded research
SO5- The EOSC Interoperability Framework supports an increasing range and quantity of FAIR digital objects including data, software and other research artefacts
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
SO7- EOSC is operationalised and provides a stable and valuable infrastructure supporting researchers addressing societal challenges
SO9- Essential additional functionalities for end users from the public and private sectors are implemented in EOSC (these developments are complementary to those of other European data spaces)
OO1- Deliver and operate all the necessary components of the Minimum Viable EOSC to 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
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)
OO10- Deploy and operate an authentication and authorisation infrastructure (AAI) framework to manage user identity and access by 2024
OO11- Implement the EOSC persistent identifier (PID) policy and architecture by 2025

### Link to projects

- Yes
- No

#### Funding sources

- Public
- Private

#### Amount per activity

13 648 116 €

### Success story

- Yes
- No

### Success story number

1.5

### Success Story Name

E-infrastructure enabling Open Science practices & Identifiers for FAIR Research Information - Coöperatie SURF u.a.

### Success story description

Name of the initiative/action: e-infrastructure enabling Open Science practices. PID service and AAI (SRAM). - primary purpose: The assignment of ePIC is to set up and maintain a reliable joint service for registering, storing and resolving persistent identifiers based on handles for the research community. AAI (SRAM) providing research collaborations with easy and secure access to research services, - which communities or stakeholders are involved: ePIC (CLARIN, CNC, CSC, CSCS, DKRZ, gnet, GWDG, SND, SURF), AAI/SRAM (SURF) - which communities or stakeholders are addressed (e.g. discipline clusters); national infrastructures and scientific communities, European projects and infrastructures. - whether mono or multidisciplinary: multidisciplinary - expected outcome and impact; ePIC (sustainable registering and identifying research) objects, AAI (SRAM)
(enable the collaboration of researchers) - implementation and/or impact timeline: ongoing. - WEBPAGE address: https://www.pidconsortium.net/ https://www.surf.nl/en/surf-research-access-management-easy-and-secure-access-to-research-services

Name of the initiative/action: Identifiers for FAIR Research Information - primary purpose: Build a broader understanding of the international PID landscape and create broader awareness of the current and future possibilities of PID applications and ensure that information about research will be more Findable, Accessible, Interoperable and Reusable. - which communities or stakeholders are involved: pid service providers and research performing organisations - which communities or stakeholders are addressed (e.g. discipline clusters); research funding, - performing and service provisioning organisations. - whether mono or multidisciplinary: multidisciplinary - expected outcome and impact; - implementation and/or impact timeline: a roadmap for further activities. - WEBPAGE address: https://doi.org/10.5281/zenodo.5836056

**Audience or target group**
- Industry
- Research
- Public Institutes
- Public Authorities
- Public at large

**Website**
https://doi.org/10.5281/zenodo.5836056

### Additional Activity category

2. Scale-up of technologies

#### Definition of Additional Activity category

This category covers different scale-up activities (typically at TRL levels 4-5). These are mostly trials/tests of proof of concept models, i.e. validation of the technology in lab or relevant environment. These activities must be totally funded and executed by private partners only. If there is public co-funding, they should be reported in Category 1.

**Additional activity reported under this category**
- Yes
- No

**Amount per category**
11 625 605 €

#### Additional Activity Number
2.1

#### Additional Activity Name
Investment done complementing the results of a project, bringing it to a higher TRL level (e.g. EOSC thematic services) or to deployment

#### Additional Activity type
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

#### Description of Additional Activity
This Additional Activities’ type includes as follows:
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.

#### Link to partnership general objectives
GO2-Enable the definition of standards, and the development of tools and services, to allow researchers to find, access, reuse and combine results
GO3- Establish a sustainable and federated infrastructure enabling open sharing of scientific results

#### Link to partnership specific objectives
SO4- Increasing amounts of research data produced by publicly funded research in Europe are FAIR by design
SO7- EOSC is operationalised and provides a stable and valuable infrastructure supporting researchers addressing societal challenges
SO8- Essential additional functionalities for end users from the public and private sectors are implemented in EOSC (these developments are complementary to those of other European data spaces)
OO1- Deliver and operate all the necessary components of the Minimum Viable EOSC to 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
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)

#### Link to projects
- Yes
- No

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<tr>
<td>Success story number</td>
<td>Yes</td>
</tr>
<tr>
<td>---------------------</td>
<td>-----</td>
</tr>
</tbody>
</table>

2.1

**Success Story Name**
EOSC thematic services - Universitat Politècnica de València

**Success story description**
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. The data will be made available openly but considering ethical and legal constraints. Both activities will leverage services from the EOSC marketplace.

**Audience or target group**
- Industry
- Academia
- Research Institutes
- Public Authorities
- Public at large
- Other

**Website**

**Additional Activity Number**

2.2

**Additional Activity Name**
Uptake of EOSC projects' outcomes through adoption of, for instance, new open specifications, standards for data interoperability, common EOSC frameworks for managing AAI, also but not exclusively in the context of public procurements

**Additional Activity type**

2.2 Uptake of EOSC projects' outcomes through adoption of, for instance, new open specifications, standards for data interoperability, common EOSC frameworks for managing AAI, also but not exclusively in the context of public procurements

**Description of Additional Activity**

This Additional Activities' type includes as follows:

1. 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
2. Exploitation of EOSC services for a Satellite Image Processing Thematic service
3. Adoption of outcomes of relevant projects (e.g. SSHOC, EOSC Future, OpenAIRE, OPERAS)
4. Injection of knowledge from ‘EOSC interoperability framework’ and ‘A Persistent Identifier (PID) policy for the European Open Science Cloud (EOSC)’ and AAI architecture into national working groups and upcoming projects
5. Development and implementation of standards and data interfaces for research information (Subproject 1), Concept Study for a Research Portal (Subproject 2)
6. Development Interfaces for shared research infrastructures
7. Adoption of repositories (Data Stations) and LTP-systems (vault) to fit into EOSC frameworks
8. Implementation of AAI into institution 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

**Link to partnership general objectives**

GO1- Ensure that Open Science practices and skills are rewarded and taught, becoming the ‘new normal’
GO2- Enable the definition of standards, and the development of tools and services, to allow researchers to find, access, reuse and combine results
GO3- Establish a sustainable and federated infrastructure enabling open sharing of scientific results

**Link to partnership specific objectives**

SO1- Increase in the number of relevant research results that are made available as open as possible by researchers performing publicly funded research
SO4- Increasing amounts of research data produced by publicly funded research in Europe are FAIR by design
SO5- The EOSC Interoperability Framework supports an increasing range and quantity of FAIR digital objects including data, software and other research artefacts
SO7- EOSC is operationalised and provides a stable and valuable infrastructure supporting researchers addressing societal challenges
OO1- Deliver and operate all the necessary components of the Minimum Viable EOSC to share openly research data, publications, software, 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
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)
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
OO10- Deploy and operate an authentication and OO10 authorisation infrastructure (AAI) framework to manage user identity and access by 2024
OO11- Implement the EOSC persistent identifier (PID) policy and architecture by 2025

Last saved 29-09-2023 16:52:32
OO12- Co-develop a minimum metadata framework and provide a common search and access mechanism to EOSC resources across the EOSC federation by 2025

<table>
<thead>
<tr>
<th>Link to projects</th>
<th>Funding sources</th>
<th>Amount per activity</th>
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</tr>
<tr>
<td>☐ No</td>
<td>☐ Private</td>
<td></td>
</tr>
</tbody>
</table>

Success story

☐ Yes
☐ No

Success story number
2.2

Success Story Name
Guidelines and standards for interoperability- OpenAIRE

Success story description
Guiding our members on how to adopt guidelines and standards for interoperability in institutional and national settings. This includes guidelines for repositories and for monitoring of open science.

<table>
<thead>
<tr>
<th>Audience or target group</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑ Industry</td>
<td>☑ Academia</td>
</tr>
<tr>
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<td>☑ Other</td>
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</tbody>
</table>

Additional Activity Number 2.3

Additional Activity Name
Implementation of technical specifications required to provide services through the EOSC

Additional Activity type
2.3 Implementation of technical specifications required to provide services through the EOSC

Description of Additional Activity
This Additional Activities' type includes as follows:
1. Standardization and vocabulary development activities relevant for EOSC
2. Implementation of state-of-the-art standards for metadata, interoperability and persistent identification for the upgrading of the cultural heritage digitised collections repository
3. Adoption of service templates at all service provider archives
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

Link to partnership general objectives
GO1- Ensure that Open Science practices and skills are rewarded and taught, becoming the ‘new normal’
GO2- Enable the definition of standards, and the development of tools and services, to allow researchers to find, access, reuse and combine results
GO3- Establish a sustainable and federated infrastructure enabling open sharing of scientific results

Link to partnership specific objectives
SO1- Increase in the number of relevant research results that are made available as open as possible by researchers performing publicly funded research
SO4- Increasing amounts of research data produced by publicly funded research in Europe are FAIR by design
SO5- The EOSC Interoperability Framework supports an increasing range and quantity of FAIR digital objects including data, software and other research artefacts
SO7- EOSC is operationalised and provides a stable and valuable infrastructure supporting researchers addressing societal challenges

OO1- Deliver and operate all the necessary components of the Minimum Viable EOSC to 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

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

OO10- Deploy and operate an authentication and AO10 authorisation infrastructure (AAI) framework to manage user identity and access by 2024

OO11- Implement the EOSC persistent identifier (PID) policy and architecture by 2025

OO12- Co-develop a minimum metadata framework and provide a common search and access mechanism to EOSC resources across the EOSC federation by 2025

<table>
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<tr>
<th>Link to projects</th>
<th>Funding sources</th>
<th>Amount per activity</th>
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<td>Success story number</td>
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<tr>
<td>Success Story Name</td>
<td>Implementation of standards for metadata, interoperability and persistent identification - Alma MaTTer</td>
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<tr>
<td>Success story description</td>
<td>Implementation of state of the art standards for metadata, interoperability and persistent identification for the upgrading of the cultural heritage digitised collections repository (AMSHistorica).</td>
<td></td>
</tr>
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<td>Audience or target group</td>
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<td></td>
</tr>
<tr>
<td>Website</td>
<td><a href="http://amsacta.unibo.it">http://amsacta.unibo.it</a></td>
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</tr>
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</table>

**Additional Activity category**

3. Demonstrators

**Definition of Additional Activity category**

This category covers demonstrations of a prototype. These demonstration activities would typically be at TRL levels 6-8. These activities must be totally funded and executed by private partners only. If there is public-co-funding, they should be reported in Category 1.

**Additional activity reported under this category**

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
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<tbody>
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</table>

| Amount per category | 21 540 346 € |

**Additional Activity Number**

3.1

**Additional Activity Name**

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

**Additional Activity type**

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

**Description of Additional Activity**

his Additional Activities' type includes as follows:

1. Pilot new services and applications in the context of the Open Research Knowledge Graph for various science domains
2. Update of the Digital Object Gateway demonstrator
3. Development of the AlmaHealthDB 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 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 development of the federated data platform
7. Labs Digital Data Exchange Project piloting data sharing and data 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 & implementation of standards & data interfaces for research information
12. Data storage system connected to the university Cloud & 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

Last saved 29-09-2023 16:52:32
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
17. Coordination, curation, and hosting of Covid-19 national platforms
18. Development of an IT platform for repurposing medicines focused on paediatric diseases, based on an innovative model including a fit-for-purpose IT environment for dedicated data analytics
19. Dataverse infrastructure for FAIR geospatial data including contributing to the community metadata standards
21. Investment in collaboration with ICT consortia on how to use the OpenAIRE Graph
22. Build a core component of national research and innovation e-infrastructures with long-term advanced computing and storage resources and network connectivity
23. Provision of services & infrastructures for data management and High-Performance Computing (replicated massive data storage, cloud infrastructures, computing and visualisation nodes)
24. Development of PC oriented computing infrastructure, Big Data computing infrastructure and infrastructure for on-demand cloud services that jointly offer secure data storage, scientific computing on the cloud, software, virtual machines, collaborative research, and computing facilities equipped with technical support and setup for user access
25. Development/running Data Repository services allowing the publication of large-scale datasets to 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
27. Development of a national platform for the implementation of EOSC

Link to partnership general objectives
GO1- Ensure that Open Science practices and skills are rewarded and taught, becoming the 'new normal'
GO2- Enable the definition of standards, and the development of tools and services, to allow researchers to find, access, reuse and combine results
GO3- Establish a sustainable and federated infrastructure enabling open sharing of scientific results

Link to partnership specific objectives
SO1- Increase in the number of relevant research results that are made available as open as possible by researchers performing publicly funded research
SO4- Increasing amounts of research data produced by publicly funded research in Europe are FAIR by design
SO5- The EOSC Interoperability Framework supports an increasing range and quantity of FAIR digital objects including data, software and other research artefacts
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
SO7- EOSC is operationalised and provides a stable and valuable infrastructure supporting researchers addressing societal challenges
SO8- Essential additional functionalities for end users from the public and private sectors are implemented in EOSC (these developments are complementary to those of other European data spaces)
OO1- Deliver and operate all the necessary components of the Minimum Viable EOSC to 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
OO4- Co-develop domain-specific standards and adopt Open Science practices through the engagement with research communities during the lifespan of the Partnership
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)
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
OO12- Co-develop a minimum metadata framework and provide a common search and access mechanism to EOSC resources across the EOSC federation by 2025

Success story number
3.1

Success Story Name
New Health Data Platform - Université de Montpellier

Success story description
The Montpellier Data Science Institute and Meso@LR have invested in a new platform devoted to Health Data on the basis of a collaboration with Inserm. Meso@LR provides services and infrastructures for data management and High Performance Computing: replicated massive data storage, Health data, Cloud infrastructures, computing and visualisation nodes, including big memory nodes, etc.
**Audience or target group**

- Industry
- Academia
- Research
- Public Institutes
- Public Authorities
- Public at large

**Website**

**Additional Activity Number** 3.2

**Additional Activity Name**

New (pre-)commercial services and capabilities along the data life cycle addressing current and anticipated needs of the research community at large

**Additional Activity type**

3.2 New (pre-)commercial services and capabilities along the data life cycle addressing current and anticipated needs of the research community at large

**Description of Additional Activity**

1. Definition of services and related policies for data management, processing and orchestration in accordance with potential commercial use-cases
2. Implementation of the EOSC AAI within EuroHPC

**Link to partnership general objectives**

GO2 - Enable the definition of standards, and the development of tools and services, to allow researchers to find, access, reuse and combine results
GO3 - Establish a sustainable and federated infrastructure enabling open sharing of scientific results

**Link to partnership specific objectives**

SO4 - Increasing amounts of research data produced by publicly funded research in Europe are FAIR by design
SO7 - EOSC is operationalised and provides a stable and valuable infrastructure supporting researchers addressing societal challenges
OO1 - Deliver and operate all the necessary components of the Minimum Viable EOSC to 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
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)
OO10 - Deploy and operate an authentication and authorisation infrastructure (AAI) framework to manage user identity and access by 2024

**Link to projects**

Yes

**Funding sources**

- Public
- Private

**Amount per activity**

100 000 €

**Success story**

Yes

**Success story number**

3.2

**Success Story Name**

Definition of services and related policies - VSB (Technical University of Ostrava)

**Success story description**

Definition of services and related policies for data management, processing and orchestration in accordance with potential commercial use-cases.

**Audience or target group**

- Industry
- Academia
- Research
- Public Institutes
- Public Authorities
- Public at large

**Website**

**Additional Activity category**

4. Creating new business opportunities

**Definition of Additional Activity category**

This category includes activities which aim at turning a fully developed and functional innovation into a business opportunity.
It concerns activities such as investing in start-ups, spin-offs, incubators, accelerators etc. that will take forward the solutions/products developed within the partnership's projects. Please note that "Creating business opportunities" can only happen once the product or service is available in its fully developed form (i.e. when the "Scale-up of technologies" step is fully finished, and normally also when the "Demonstrators" step has been finished).

### Additional activity reported under this category

- **Yes**
- **No**

#### Amount per category

646 350 €

<table>
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<tr>
<th>Additional Activity Number</th>
<th>Additional Activity Name</th>
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</thead>
<tbody>
<tr>
<td>4.1</td>
<td>Invest in start-ups, spin-offs on solutions developed within the projects</td>
</tr>
</tbody>
</table>

#### Additional Activity type

4.1 Invest in start-ups, spin-offs on solutions developed within the projects

#### Description of Additional Activity

This Additional Activities' type includes as follows:

1. Support the creation of spinoffs by universities with a 5% stake
2. Transfer of BSC engineering applications to new spin-offs

#### Link to partnership general objectives

- GO2 Enable the definition of standards, and the development of tools and services, to allow researchers to find, access, reuse and combine results
- GO3 Establish a sustainable and federated infrastructure enabling open sharing of scientific results

#### Link to partnership specific objectives

- SO8 Essential additional functionalities for end users from the public and private sectors are implemented in EOSC (these developments are complementary to those of other European data spaces)

<table>
<thead>
<tr>
<th>Link to projects</th>
<th>Funding sources</th>
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<td>☐ No</td>
<td>Private</td>
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#### Success story number

4.1

#### Success Story Name

Spinoffs - University of Vigo

#### Success story description

The University of Vigo supports the creation of spinoffs with a 5% stake. It also promotes calls to provide workspaces within the university campus to recently created spinoffs. On the other hand, it works with the university community to help them foster their entrepreneurial skills and enter the job market, acquiring the ability to create jobs and not just look for them, through the INCUVI program. This program aims to support entrepreneurial ideas and accelerate and consolidate viable entrepreneurial projects promoted by students or recent graduates.

#### Audience or target group

- ☑ Industry
- ☑ Academia
- ☑ Research
- ☑ Public Institutes
- ☑ Authorities
- ☐ Public at ☑ Other large

#### Website


<table>
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<tr>
<th>Additional Activity Number</th>
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</thead>
<tbody>
<tr>
<td>4.2</td>
<td>Start incubators/accelerators</td>
</tr>
</tbody>
</table>

#### Additional Activity type

4.2 Start incubators/accelerators

#### Description of Additional Activity

This Additional Activities' type includes as follows:

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, mentoring, fundraising support, and spaces
3. SWITCH Innovation Labs concerning the harnessing of Open Science with a focus on Open Research Data - Budget Labs

**Link to partnership general objectives**
GO2 Enable the definition of standards, and the development of tools and services, to allow researchers to find, access, reuse and combine results
GO3 Establish a sustainable and federated infrastructure enabling open sharing of scientific results

**Link to partnership specific objectives**
SO8 Essential additional functionalities for end users from the public and private sectors are implemented in EOSC (these developments are complementary to those of other European data spaces)

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</table>

**Success story number**
4.2

**Success Story Name**
Start-ups - Politecnico di Torino

**Success story description**
I3P supports 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, mentoring, fundraising support and spaces. The Incubator of the Polytechnic of Turin I3P is the Best Public Business Incubator in the world as recognized by the World Rankings of Business Incubators and Accelerators 2019-2020. The ranking is drawn up by UBI Global, the most important international organisation active in the benchmarking of incubation and acceleration programmes linked to university institutions.

**Website**
https://www.i3p.it/en/

**Additional Activity Number**
4.3

**Additional Activity Name**
Matchmaking between different start-ups, - SMEs, participating companies, stakeholders

**Additional Activity type**
4.3 Matchmaking between different start-ups, - SMEs, participating companies, stakeholders

**Description of Additional Activity**
This Additional Activities’ type includes as follows:
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 co-development)
2. Organisation of info days and matchmaking events
3. Support for SMEs to deliver new innovative products via the EOSC Future DIH

**Link to partnership general objectives**
GO2 Enable the definition of standards, and the development of tools and services, to allow researchers to find, access, reuse and combine results
GO3 Establish a sustainable and federated infrastructure enabling open sharing of scientific results

**Link to partnership specific objectives**
SO8 Essential additional functionalities for end users from the public and private sectors are implemented in EOSC (these developments are complementary to those of other European data spaces)

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</table>

Success story
### Success Story Name
Innovation based on co-development - Clarin-Eric

#### Success story description
In 2022 workshops are planned with representatives of non-academic partners in order to develop a more articulate overview of existing opportunities and conditions for service provision and collaboration (innovation based on co-development).

#### Audience or target group
- Industry
- Academia
- Research Institutes
- Public Authorities
- Public at large
- Other

#### Website
https://www.clarin.eu/content/clarin-workshops

### Additional Activity Number
4.4

#### Additional Activity Name
Investments in procurement of innovative solutions

#### Description of Additional Activity
1. Procurement of innovative platform for scientific data preservation and management

#### Link to partnership general objectives
- GO2 Enable the definition of standards, and the development of tools and services, to allow researchers to find, access, reuse and combine results
- GO3 Establish a sustainable and federated infrastructure enabling open sharing of scientific results

#### Link to partnership specific objectives
- SO8 Essential additional functionalities for end users from the public and private sectors are implemented in EOSC (these developments are complementary to those of other European data spaces)
- 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

#### Link to projects
- Yes
- No

#### Funding sources
- Public
- Private

#### Amount per activity
100 000 €

### Additional Activity category
5. Training and skills development

#### Definition of Additional Activity category
This category covers activities that aim to identify and perform the skills and training programmes needed for the workforce that will produce and/or use the new product/service.

#### Additional activity reported under this category
- Yes
- No

#### Amount per category
26 343 700 €

#### Additional Activity Number
5.1

#### Additional Activity Name
Addressing the development of education, training and skills development in Open science and FAIR data management of research artefacts.

#### Additional Activity type
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

**Description of Additional Activity**

This Additional Activities’ type includes as follows:

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 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 steward training programmes, 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
13. Advisory services, courses and OS trainings for students, PhD candidates, university authorities, administrative staff, librarians
14. Metadata for Machines workshops
15. +B57 Training 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

**Link to partnership general objectives**

GO1 Ensure that Open Science practices and skills are rewarded and taught, becoming the ‘new normal’
GO2 Enable the definition of standards, and the development of tools and services, to allow researchers to find, access, reuse and combine results

**Link to partnership specific objectives**

SO1 Increase in the number of relevant research results that are made available as open as possible by researchers performing publicly funded research
SO2 Professional data stewards are increasingly available in research performing organisations in Europe to support Open Science
SO4 Increasing amounts of research data produced by publicly funded research in Europe are FAIR by design
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
SO8 Essential additional functionalities for end users from the public and private sectors are implemented in EOSC (these developments are complementary to those of other European data spaces)
OO4 Co-develop domain-specific standards and adopt Open Science practices through the engagement with research communities during the lifespan of the Partnership
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

**Link to projects**

- Funding sources
  - Public
  - Private
- Amount per activity: 26 343 700 €

**Success story number**

5.1

**Success Story Name**

Training researchers - Gdańsk University of Technology

**Success story description**

Activities of the Open Science Competence Center at the Library of the Gdańsk University of Technology - improving the qualifications of employees, academic staff, PhD students, and Librarians. The main goal of Open...
Science Competence Center created in the framework of the MOST DANYCH project at Gdańsk Tech Library is to offer guidance and support to researchers about publishing in an open access, preparing Data Management Plan and making data accessible in the research data repository. The Center offers various trainings, consultancies, and other events promoting the idea of opening science. Publishing open research offers a number of benefits: • increased citation and usage • greater public engagement • wider collaboration • faster impact • increased interdisciplinary conversation • compliance with open access mandates.

**Audience or target group**

- Industry
- Academia
- Research
- Public
- Institutes
- Authorities
- Public at large

**Website**


**Additional Activity category**

6. Contribution to the development of new standards, regulations and policies

**Definition of Additional Activity category**

This category includes activities that aim at the development of new standards and regulations and new public policy in the area of the new product/innovation and that will help in entering the innovation into the market and/or enhance its societal uptake.

**Additional activity reported under this category**

- Yes
- No

**Amount per category**

28 011 358 €

**Additional Activity Number**

6.1

**Additional Activity Name**

Standardisation and certification activities related to EOSC trusted repositories

**Additional Activity type**

6.1 Standardisation and certification activities related to EOSC trusted repositories (e.g. CoreTrustSeal and FAIR)

**Description of Additional Activity**

This Additional Activities’ type includes as follows:

1. Preparation of repositories and national repository platform for CTS certification
2. Certification (CoreTrustSeal) of institutional research data repositories
3. Development of FAIR practices, semantics interoperability of FAIR research resources and repositories
4. Support for CoreTrustSeal certification
5. Extension of activities of Meta Data Offices, including the management of meta data profiles
6. Preparation of certification documentation for the Sensitive Cloud to deal with sensitive (health-related) data
7. Financial contribution to the board and secretariat of Core Trust Seal
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

**Link to partnership general objectives**

GO1 Ensure that Open Science practices and skills are rewarded and taught, becoming the ‘new normal’
GO2 Enable the definition of standards, and the development of tools and services, to allow researchers to find, access, reuse and combine results

**Link to partnership specific objectives**

SO1 Increase in the number of relevant research results that are made available as open as possible by researchers performing publicly funded research
SO3 Development and adoption of incentives for researchers to perform Open Science
SO4 Increasing amounts of research data produced by publicly funded research in Europe are FAIR by design
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
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
OO12 Co-develop a minimum metadata framework and provide a common search and access mechanism to EOSC resources across the EOSC federation by 2025

**Link to projects**

- Yes
- No

**Funding sources**

- Public

**Amount per activity**

1 578 178 €
**Success story number**
6.1

**Success Story Name**
Trusted repositories - National Center for Scientific Research (CNRS)

**Success story description**
ASOV organization of meetings with french data centers and data providers to explain how to become trusted repositories.// The CDS is maintaining (or implementing) the certification of its services by CoreTrustSeal./Data Terra RI ODATIS Ocean and ForM@Ter Solid Earth Data Hub : Application of FAIR principles and Core Trust Seal certification (RDA & WDS) for Data Centers and services of the Ocean and Solid Earth data center (ANR Flash : Copilote and CEDRE)

ASOV funds participation of french data providers to develop standards for interoperability. Some of them are tested in EOSC context_x000D_ Data Terra RI : guideline for FAIR principle applications (DMP, Licenses, interoperability standards, Authentication, Catalogs)

**Audience or target group**
- Industry
- Academia
- Research Institutes
- Public Authorities
- Public at large
- Other

**Additional Activity Number**
6.2

**Additional Activity Name**
Translate FAIR guidelines and frameworks to make them applicable to other digital objects, such as software, code, data management plans, protocols

**Additional Activity type**
6.2 Translate FAIR guidelines and frameworks to make them applicable to other digital objects, such as software, code, data management plans, protocols

**Description of Additional Activity**
This Additional Activities’ type includes as follows:
1. Templates, protocols, and guidelines to manage data according to FAIR principles for the research community, provided by Data Stewards
2. Software development of data analysis under open code principles to guarantee its future reusability and data provenance
3. Contribution to the development of applicable FAIR guidelines and DMP elaboration guidelines
4. Development of FAIR practices, 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 RDM
12. Participation to RDA, IVOA, IHDEA, 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 standards, Authentication, Catalogues)

**Link to partnership general objectives**
GO1 Ensure that Open Science practices and skills are rewarded and taught, becoming the ‘new normal’
GO2 Enable the definition of standards, and the development of tools and services, to allow researchers to find, access, reuse and combine results

**Link to partnership specific objectives**
SO1 Increase in the number of relevant research results that are made available as open as possible by researchers performing publicly funded research
SO2 Professional data stewards are increasingly available in research performing organisations in Europe to support Open Science
SO3 Development and adoption of incentives for researchers to perform Open Science
SO4 Increasing amounts of research data produced by publicly funded research in Europe are FAIR by design
SO5 The EOSC Interoperability Framework supports an increasing range and quantity of FAIR digital objects including data, software and other research artefacts
SO6 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

004 Co-develop domain-specific standards and adopt Open Science practices through the engagement with research communities during the lifespan of the Partnership

005 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)

006 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

007 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

008 Co-design and adopt a Rewards and Recognition framework for FAIR and open data practices in research during the lifespan of the Partnership

Link to projects

☐ Yes
☐ No

Funding sources

☐ Public
☐ Private

Amount per activity

6 719 611 €

Success story

☐ Yes
☐ No

Success story number

6.2

Success Story Name

Policy and Guidelines - Uppsala University

Success story description

Drafting local Data Management policy and guidelines. Work performed within the Data Office but also in collaboration with other Swedish Universities.

Audience or target group

☐ Industry
☐ Academia
☐ Research
☐ Public
☐ Institutes
☐ Authorities
☐ Public at
☐ Other
☐ large

Website

Additional Activity Number

6.3

Additional Activity Name

Continuous standardisation of PID resource types and promotion of new practices to expand the range of identifiable research objects

Additional Activity type

6.3 Continuous standardisation of PID resource types and promotion of new practices to expand the range of identifiable research objects e.g. instruments, services, organisations and software

Description of Additional Activity

This Additional Activities' type includes as follows:
1. Collaboration with DataCite 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
3. Application in institutional context (eRA, PID service), contributions to committees (e.g., DataCite, CrossRef, ORCID-DE, Eurocris)
4. Work with DataCite DOI service
5. Establishment of national PID roadmaps
6. Integration of ORCID, DOI and other PID in university system
7. PID management, nation-wide services DOI-Service, ORCID, activities in the RDA National PID Strategies Working Group
8. Alignment of PID usage across national DOI users
9. Involvement in EOSC Association's Task Forces work (EOSC Task Force PID policy and implementation)
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)

Link to partnership general objectives

GO2 Enable the definition of standards, and the development of tools and services, to allow researchers to find, access, reuse and combine results

GO3 Establish a sustainable and federated infrastructure enabling open sharing of scientific results

Link to partnership specific objectives
SO2 Professional data stewards are increasingly available in research performing organisations in Europe to support Open Science
SO3 Development and adoption of incentives for researchers to perform Open Science
SO4 Increasing amounts of research data produced by publicly funded research in Europe are FAIR by design
SO5 The EOSC Interoperability Framework supports an increasing range and quantity of FAIR digital objects including data, software and other research artefacts
OO4 Co-develop domain-specific standards and adopt Open Science practices through the engagement with research communities during the lifespan of the Partnership
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
OO8 Co-design and adopt a Rewards and Recognition framework for FAIR and open data practices in research during the lifespan of the Partnership
OO11 Implement the EOSC persistent identifier (PID) policy and architecture by 2025

Success story number
6.3

Success Story Name
PID - Coöperatie SURF u.a.

Success story description
Name of the initiative/action: National roadmap for persistent identifiers - primary purpose: To counteract the fragmentation of identifiers in the global landscape of research information, the demand for a national roadmap for PIDs has arisen, - which communities or stakeholders are involved: UKB, NWO, KNAW DANS, Leiden University/CWTS, UU, eScience Center and 4TU.ResearchData. SURF - which communities or stakeholders are addressed (e.g. discipline clusters); funding organisations, research performing organizations, publishers, research service organisations, - whether mono or multidisciplinary: multidisciplinary - expected outcome and impact; The roadmap and PID use cases is intended as an instrument to strengthen the coherence of stakeholder developments and to increase the impact through the use of PIDs. - implementation and/or impact timeline: 2022-2023. - WEBPAGE address: https://www.surf.nl/en/national-roadmap-for-persistent-identifiers
https://doi.org/10.5281/zenodo.5849310

Additional Activity Number
6.4

Additional Activity Name
Support all research communities to develop and adopt domain-specific standards and to consolidate common metadata and data schemata for use in the EOSC context

Additional Activity type
6.4 Support all research communities to develop and adopt domain-specific standards and to consolidate common metadata and data schemata for use in the EOSC context

Description of Additional Activity
This Additional Activities' type includes as follows:
1. Support domain specific development of ontologies for semantic web applications
2. Support to LifeWatch and CSIC's Teledetection Thematic Platform on the adoption of relevant standards for their domains of knowledge and FAIR principles
3. Support to the implementation of data standards
4. Development of Flemish Standard for Research Data
5. Support arts and humanities research communities in developing/adopting new standards and policies,
6. Participation in the following EOSC-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
15. Preparation for National Metadata Catalogues for research data

**Link to partnership general objectives**  
GO1 Ensure that Open Science practices and skills are rewarded and taught, becoming the ‘new normal’  
GO2 Enable the definition of standards, and the development of tools and services, to allow researchers to find, access, reuse and combine results

**Link to partnership specific objectives**  
SO1 Increase in the number of relevant research results that are made available as open as possible by researchers performing publicly funded research  
SO4 Increasing amounts of research data produced by publicly funded research in Europe are FAIR by design  
OO4 Co-develop domain-specific standards and adopt Open Science practices through the engagement with research communities during the lifespan of the Partnership  
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)  
OO12 Co-develop a minimum metadata framework and provide a common search and access mechanism to EOSC resources across the EOSC federation by 2025

**Link to projects**  
☐ Yes  
☒ No

**Funding sources**  
Public  
Private

**Amount per activity**  
13 807 569 €

**Success story**  
☐ Yes  
☒ No

**Success story number**  
6.4

**Success Story Name**  
Metadata standards - National Library of Technology

**Success story description**  
Leading the national WG for metadata standards for research data + preparation for national project CARDS where one of the activities is focused on common metadata schema and metadata interoperability.

**Audience or target group**  
☒ Industry  
☒ Academia  
☒ Research  
☒ Public  
☒ Institutes  
☒ Authorities  
☐ Public at large  
☐ Other

**Website**  

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7. Supporting ecosystem development

**Definition of Additional Activity category**  
This category includes activities that aim at further developing and integrating the R&I ecosystem in the partnership's area - for example, knowledge sharing with technology clusters, innovation hubs, networking structures and other R&I bodies, cross-partnership cooperation.

**Additional activity reported under this category**  
☐ Yes  
☒ No

**Amount per category**  
33 473 995 €

**Additional Activity Number**  
7.1

**Additional Activity Name**  
Define and test financing models for a lasting long-term EOSC sustainability framework

**Additional Activity type**  
7.1 Define and test financing models for a lasting long-term EOSC sustainability framework

**Description of Additional Activity**  
This Additional Activities’ type includes as follows:  
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

**Link to partnership general objectives**

GO1 Ensure that Open Science practices and skills are rewarded and taught, becoming the ‘new normal’
GO2 Enable the definition of standards, and the development of tools and services, to allow researchers to find, access, reuse and combine results

**Link to partnership specific objectives**

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
OO14 Define models for availability and costing of services across borders by 2023

**Link to projects**

- **Funding sources**
  - Public
  - Private

- **Amount per activity**
  - 339 800 €

**Success story**

- Yes
- No

**Success story number**

7.1

**Success Story Name**

Legal Entity Built - Consortium GARR Association (Gestione Ampliamento Rete Ricerca)

**Success story description**

Building ICDI Legal Entity: management effort, legal expenses, initial capital for all members – from next year fees and capital will be accounted for in ICDI LE’s monitoring

**Audience or target group**

- Industry
- Academia
- Research
- Public Institutes
- Authorities
- Public at
- Other
- large

**Website**

**Additional Activity Number**

7.2

**Additional Activity Name**

Development of consensual EOSC frameworks and guidelines

**Additional Activity type**

7.2 Development of consensual EOSC frameworks and guidelines (e.g. for interoperability, AAI, the implementation of EOSC rules of participation)

**Description of Additional Activity**

This Additional Activities’ type includes as follows:
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

**Link to partnership general objectives**

GO2 Enable the definition of standards, and the development of tools and services, to allow researchers to find, access, reuse and combine results
GO3 Establish a sustainable and federated infrastructure enabling open sharing of scientific results

**Link to partnership specific objectives**

SO5 The EOSC Interoperability Framework supports an increasing range and quantity of FAIR digital objects including data, software and other research artefacts
OQ4 Co-develop domain-specific standards and adopt Open Science practices through the engagement with research communities during the lifespan of the Partnership
OQ5 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)
### Link to projects

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### Success story

- Yes
- No

### Success story number

7.2

### Success Story Name

Task Forces - European Organization for Nuclear Research

### Success story description

CERN personnel are members of the EOSC Association’s task forces: Rules of Participation, Compliance Monitoring, Long-Term Data Preservation, Technical Interoperability of Data and Services

### Audience or target group

- Industry
- Academia
- Research
- Public Institutions
- Public Authorities
- Public at large
- Other

### Website

Additional Activity Number

7.3

### Additional Activity Name

Support to knowledge building and sharing with the research domains to support data-intensive-science and inter-disciplinary research

### Additional Activity type

7.3 Support to knowledge building and sharing with the research domains to support data-intensive-science and inter-disciplinary research

### Description of Additional Activity

This Additional Activities’ type includes as follows:

1. Collaboration with national RPOs and researcher networks
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 research data management practices 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 Management Offices
13. The cost of personnel (developers, system managers, data curators) involved in local research infrastructure work

### Link to partnership general objectives

GO1 Ensure that Open Science practices and skills are rewarded and taught, becoming the ‘new normal’
GO2 Enable the definition of standards, and the development of tools and services, to allow researchers to find, access, reuse and combine results

### Link to partnership specific objectives

SO1 Increase in the number of relevant research results that are made available as open as possible by researchers performing publicly funded research
SO4 Increasing amounts of research data produced by publicly funded research in Europe are FAIR by design
SO8 Essential additional functionalities for end users from the public and private sectors are implemented in EOSC (these developments are complementary to those of other European data spaces)
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)
OO4 Co-develop domain-specific standards and adopt Open Science practices through the engagement with research communities during the lifespan of the Partnership
Success story number
7.3

Success Story Name
Hub - Fonds Wetenschappelijk Onderzoek Vlaanderen (Research Foundation Flanders)

Success story description
Coordination of the Flemish Open Science Board (FOSB) and the Flemish Research Data Network (FRDN), a forum c.q. network for the development of a uniform and concerted OS policy for Flemish universities and research institutions. Their coordination hub is situated at FWO. Apart from that, FWO itself also puts in place OS policy and has dedicated staff to follow up on that policy goal.

Audience or target group
- Industry
- Academia
- Research
- Public Institutes
- Authorities
- Public at large

Website

Additional Activity Number
7.4

Additional Activity Name
Building industry-academia cooperation

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

Description of Additional Activity
This Additional Activities’ type includes as follows:
1. Collaboration with national RPOs and researcher networks
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 research data management practices 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 Management Offices
13. The cost of personnel (developers, system managers, data curators) involved in local research infrastructure work

Link to partnership general objectives
GO1 Ensure that Open Science practices and skills are rewarded and taught, becoming the ‘new normal’
GO2 Enable the definition of standards, and the development of tools and services, to allow researchers to find, access, reuse and combine results

Link to partnership specific objectives
SO8 Essential additional functionalities for end users from the public and private sectors are implemented in EOSC (these developments are complementary to those of other European data spaces)

Link to projects
- Yes
- No

Funding sources
- Public
- Private

Amount per activity
4 813 549 €

Success story
- Yes
- No
7.4

Success Story Name
Ecosystem of Excellence - University of Zagreb Computing Centre

Success story description
In 2022, SRCE participated in the creation of the EDIH proposal for CROatian Industry and Society BOosting (EDIH CROBOHUB++) project, which started on 1st January 2023. CROBOHUB ++ is an ecosystem of excellence, specialized in three key areas of the Digital European Program (DEP): 1. Artificial intelligence, 2. Cybersecurity, 3. High-performance computing (HPC). It will form the core of a coherent package of services that will support SMEs that intend to harness the digital and green transformation in the EU.

Audience or target group
- Industry
- Research
- Public Institutes
- Public at large

Additional Activity Number
7.5

Additional Activity Name
Enforcement and implementation of the EOSC Persistent Identifier (PID) policy and architecture

Additional Activity type
7.5 Enforcement and implementation of the EOSC Persistent Identifier (PID) policy and architecture

Description of Additional Activity
This Additional Activities’ type includes as follows:
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

Link to partnership general objectives
GO2 Enable the definition of standards, and the development of tools and services, to allow researchers to find, access, reuse and combine results
GO3 Establish a sustainable and federated infrastructure enabling open sharing of scientific results

Link to partnership specific objectives
SO1 Increase in the number of relevant research results that are made available as open as possible by researchers performing publicly funded research
SO2 Professional data stewards are increasingly available in research performing organisations in Europe to support Open Science
SO4 Increasing amounts of research data produced by publicly funded research in Europe are FAIR by design
SO11 Implement the EOSC persistent identifier (PID) policy and architecture by 2025

Link to projects
- Yes
- No

Funding sources
- Public
- Private

Amount per activity
356 454  €

Success story
- Yes
- No
Additional Activity Number | Additional Activity Name
---|---
7.6 | Encouraging and incentivising use of European infrastructure for sharing of research software

Additional Activity type

7.6 Encouraging and incentivising use of European infrastructure for sharing of research software

Description of Additional Activity

This Additional Activities’ type includes as follows:
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 (EUSSTI), 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 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

Link to partnership general objectives
GO3 Establish a sustainable and federated infrastructure enabling open sharing of scientific results

Link to partnership specific objectives
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
SO7 EOSC is operationalised and provides a stable and valuable infrastructure supporting researchers addressing societal challenges
OO1 Deliver and operate all the necessary components of the Minimum Viable EOSC to 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
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

Link to projects

Funding sources
- Public
- Private
Amount per activity
266 020 €

Success story
- Yes
- No

Success story number
7.6

Success Story Name
Platform design - Barcelona Supercomputing Center - Centro Nacional de Supercomputación

Success story description

Audience or target group
- Industry
- Research
- Public

Institutes
- Authorities
- Public at
- Other
large

Website
https://www.bsc.es/research-and-development/projects/meheart-modelo-virtual-computacional-mecano-e%C3%A9ctrco-de-coraz%C3%B3n
### Additional Activity Number 7.7

**Additional Activity Name**
Monitoring of EOSC key performance indicators (KPI's), investments and FAIR data production and management

**Description of Additional Activity**
This Additional Activities' type includes as follows:
1. Monitor institutional progress of KPIs by Open Science teams
2. Engagement in in OpenAIRE monitoring activities
3. Reporting activities and participation 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

**Link to partnership general objectives**
Go2 Enable the definition of standards, and the development of tools and services, to allow researchers to find, access, reuse and combine results

**Link to partnership specific objectives**
SO5 The EOSC Interoperability Framework supports an increasing range and quantity of FAIR digital objects including data, software and other research artefacts
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)
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

**Link to projects**

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**Success story**

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**Success story number 7.7**

**Success Story Name**
National Platform for Open Science - Data Archiving and Networked Services - Royal Netherlands Academy of Arts and Sciences (KNAW)

**Success story description**

**Audience or target group**

- Industry
- Academia
- Research
- Public
- Institutes
- Authorities
- Public at
- Other large

**Website**

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### Additional Activity Number 7.8

**Additional Activity Name**
Contributing to a rewards and recognition framework that incentivises FAIR data and Open Science

**Description of Additional Activity**
This Additional Activities' type includes as follows:
1. Contribution to the alignment of the national rewards and incentives framework to the European initiatives
2. Participation in EOSC-A Advisory Group 'Research careers and curricula' – Task Force 'Research careers, recognition and credit'
3. Contributions to committees (e.g., EOSC TF Research careers and recognition and credit, The Guild) and contributions to institutional / national discussions
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.


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.

**Link to partnership general objectives**

GO1 Ensure that Open Science practices and skills are rewarded and taught, becoming the 'new normal'.

GO2 Enable the definition of standards, and the development of tools and services, to allow researchers to find, access, reuse and combine results.

**Link to partnership specific objectives**

SO1 Increase in the number of relevant research results that are made available as open as possible by researchers performing publicly funded research.

SO4 Increasing amounts of research data produced by publicly funded research in Europe are FAIR by design.

OO8 Co-design and adopt a Rewards and Recognition framework for FAIR and open data practices in research during the lifespan of the Partnership.

**Link to projects**

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**Success story number**

7.8

**Success Story Name**

Coordination - OpenAIRE

**Success story description**

Inform and coordinate through our Open Science Strategy (internal) Standing Committee our members on the latest developments. Participate in all European fora on the topic. Contribute towards new metrics via services based on the OpenAIRE Research Graph.

**Audience or target group**

- Industry
- Academia
- Research
- Public
- Institutes
- Public authorities
- Large public
- Other

**Website**

Additional Activity Number | Additional Activity Name
----------------------------|--------------------------------------------------
7.9                         | Activities contributing to strategic and operational alignment, coordination and synergies with other partnerships, HE missions, initiatives, research data commons and data spaces.

**Additional Activity type**

7.9 Activities contributing to strategic and operational alignment, coordination and synergies with other partnerships, HE missions, initiatives, research data commons and data spaces.

**Description of Additional Activity**

This Additional Activities type includes as follows:

1. Collaboration with other infrastructures, partnerships, Horizon Europe mission, to implement into the strategic and operational plans at EU level innovative paediatric research to be developed in synergy.

2. Establishment of national Open Science Task Forces and/ or national EOSC Support Offices.

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: 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

Link to partnership general objectives
GO1 Ensure that Open Science practices and skills are rewarded and taught, becoming the ‘new normal’
GO2 Enable the definition of standards, and the development of tools and services, to allow researchers to find, access, reuse and combine results

Link to partnership specific objectives
SO1 Increase in the number of relevant research results that are made available as open as possible by researchers performing publicly funded research
SO8 Essential additional functionalities for end users from the public and private sectors are implemented in EOSC (these developments are complementary to those of other European data spaces)
SO9 EOSC increasingly establishes ties with related initiatives from regions around the world and becomes a partner in global cooperation frameworks for Open Science
OO4 Co-develop domain-specific standards and adopt Open Science practices through the engagement with research communities during the lifespan of the Partnership

Success story number
7.9

Success Story Name
Strategic and operational alignment - Unitatea Executiva pentru Finantarea / Invatamantului Superior, a Cercetarii, Dezvoltarii si Inovarii

Success story description
Collaboration with other important institution and initiatives contributing to strategic and operational alignment: x000D Science Europe (SE Working Group on Open Science) x000D Part of CoNOSC x000D Connection to the European Consortia of Universities (e.g. CIVIS, ČIVITAS) for practices exchange and a correlation of OS approaches. Acting as the RDA Node Romania x000D

Audience or target group
Industry Research Institutes Public at large

Website

Additional Activity Number
7.11

Additional Activity Name
Contact points at national or institutional levels and coordination mechanisms for EOSC uptake by the research communities, infrastructure connection and FAIR implementation

Additional Activity type
7.10 Contact points at national or institutional levels and coordination mechanisms for EOSC uptake by the research communities, infrastructure connection and FAIR implementation

**Description of Additional Activity**

This Additional Activities’ type includes as follows:

1. Participation in the Hellenic Open Science Initiative, which aims to promote EOSC in the country
2. Operation of contact points concerning EOSC activities, related projects, RDM steering group, research data networks
3. Coordination activities for National Open Science Cloud Initiative
4. Coordination of OS activities relevant at national level and acts as 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 level (i.e., raising awareness, onboard services on the EOSC Marketplace)
8. Contact point for EOSC for national Association of Higher Educational Institutions
9. Design of governance model to engage stakeholders (“mirroring the EOSC Association activities”) in the national EOSC building activities
10. Coordination of activities and information flows, liaising with the involved ministries and national funding agencies
11. Financial support for EOSC Membership for national institutions
12. Contact point for Service Providers in member countries
13. Staff dedicated to disseminating information among members, and strengthening reinforcement of cooperation to EOSC from all the HE institutions
14. Coordination of national activities towards the implementation of ESOC, including work on the general conditions for this implementation participation in 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 those institutions that consider joining the EOSC Association
16. Provision of a communication platform for the institutions, which are not members of the EOSC Association, but whose Open Science initiatives and investments can be aligned with EOSC

**Link to partnership general objectives**

GO2 Enable the definition of standards, and the development of tools and services, to allow researchers to find, access, reuse and combine results
GO3 Establish a sustainable and federated infrastructure enabling open sharing of scientific results

**Link to partnership specific objectives**

SO1 Increase in the number of relevant research results that are made available as open as possible by researchers performing publicly funded research
SO3 Development and adoption of incentives for researchers to perform Open Science
SO8 Essential additional functionalities for end users from the public and private sectors are implemented in EOSC (these developments are complementary to those of other European data spaces)
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)
OO4 Co-develop domain-specific standards and adopt Open Science practices through the engagement with research communities during the lifespan of the Partnership

**Link to projects**

<table>
<thead>
<tr>
<th>Funding sources</th>
<th>Amount per activity</th>
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<tr>
<td>Public</td>
<td>5 488 171 €</td>
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<td>Private</td>
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</table>

**Success story number**

7.1

**Success Story Name**

Coordinating national activities - Masaryk University

**Success story description**

Coordinating national activities towards the implementation of EOSC, preparing the strategic systematic project EOSC-CZ (launched on 1st of January 2023, under MU coordination). This included close collaboration with the relevant Ministry and their strategic board on the definition of the general conditions for and scope of the strategic intervention for the EOSC implementation in Czechia.

**Audience or target group**

- Industry
- Academia
- Research
- Public
- Public at
- Other
- Institutes
- Authorities

**Website**
Additional Activity category

8. Communication, dissemination, awareness raising, citizen engagement

Definition of Additional Activity category

This category includes activities in the areas of communication and dissemination, in order to ensure that citizens "take up" and accept the new product/innovation, as well as learning about user needs. It also goes further to cover activities that aim at awareness raising and stakeholder engagement in relation to the new product/innovation.

Additional activity reported under this category

☐ Yes  ☐ No

Amount per category

6 474 084 €

<table>
<thead>
<tr>
<th>Additional Activity Number</th>
<th>Additional Activity Name</th>
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</thead>
<tbody>
<tr>
<td>8.1</td>
<td>EOSC-related communication, dissemination, outreach and awareness raising activities</td>
</tr>
</tbody>
</table>

Additional Activity type

8.1 EOSC-related communication, dissemination, outreach and awareness raising activities

Description of Additional Activity

This Additional Activities' type includes as follows:

1. EOSC-related communication and awareness raising activities, using all available communication institutional channels, including webpages, magazines, newsletters and through social networks
2. Dissemination, outreach, social media postings, events and webinars targeted widely for research communities on topics including research data management, EOSC, EUDAT, FAIR data, data infrastructures and research data services
3. Dissemination actions with respect to EOSC during national e-Science meetings
4. PR activities with national press and magazines (scientific, IT related, broad coverage, ...)
5. Awareness raising activities in diverse contexts (e.g., institutional meetings and events, university alliances)
6. Creation of a dedicated space on the institutional website to explain EOSC, publicize our membership and gather attention from our community
7. Local and national workshops and events
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

Link to partnership general objectives

GO1 Ensure that Open Science practices and skills are rewarded and taught, becoming the ‘new normal’

Link to partnership specific objectives

SO2 Professional data stewards are increasingly available in research performing organisations in Europe to support Open Science
SO3 Development and adoption of incentives for researchers to perform Open Science
SO4 Increasing amounts of research data produced by publicly funded research in Europe are FAIR by design
SO8 Essential additional functionalities for end users from the public and private sectors are implemented in EOSC (these developments are complementary to those of other European data spaces)
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
OO4 Co-develop domain-specific standards and adopt Open Science practices through the engagement with research communities during the lifespan of the Partnership

Link to projects

☐ Yes  ☐ No

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<th>Funding sources</th>
<th>Amount per activity</th>
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<td>Public</td>
<td>5 488 171 €</td>
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Success story

☐ Yes
## Success story number
8.1

## Success Story Name
Outreach - EUDAT LTD

## Success story description
Dissemination, outreach, social media postings, events and webinars targeted widely for research communities on topics including research data management, EOSC, EUDAT, FAIR data, data infrastructures and research data services.

<table>
<thead>
<tr>
<th>Audience or target group</th>
<th>Website</th>
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<tbody>
<tr>
<td>Industry</td>
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<td>Academia</td>
<td>Public Authorities</td>
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<tr>
<td>Research Institutes</td>
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</table>

## Additional Activity Number
8.2

## Additional Activity Name
Promoting EOSC at all levels by engaging with relevant communities and stakeholders

## Additional Activity type
8.2 Promoting EOSC at all levels by engaging with relevant communities and stakeholders

## Description of Additional Activity
This Additional Activities’ type includes as follows:
1. Maintenance of dedicated webpage on EOSC-related activities, addressed to various communities
2. Engagement activities through EOSC Board and membership fee
3. Regular webinars with researchers where EOSC and engagement opportunities are disseminated
4. Management of large platforms such as BrainMap - the online community of researchers, innovators, technicians, and entrepreneurs with more than 42,000 accounts or EERIS platform that offers an overview of existing research facilities, equipment, services, and 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

## Link to partnership general objectives
GO1 Ensure that Open Science practices and skills are rewarded and taught, becoming the ‘new normal’

## Link to partnership specific objectives
SO1 Increase in the number of relevant research results that are made available as open as possible by researchers performing publicly funded research
SO3 Development and adoption of incentives for researchers to perform Open Science
SO8 Essential additional functionalities for end users from the public and private sectors are implemented in EOSC (these developments are complementary to those of other European data spaces)
SO9 EOSC increasingly establishes ties with related initiatives from regions around the world and becomes a partner in global cooperation frameworks for Open Science
OO4 Co-develop domain-specific standards and adopt Open Science practices through the engagement with research communities during the lifespan of the Partnership
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)
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
OO8 Co-design and adopt a Rewards and Recognition framework for FAIR and open data practices in research during the lifespan of the Partnership
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
OO14 Define models for availability and costing of services across borders by 2023

## Link to projects
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Success
Success story number
8.2

Success Story Name
National/International platforms - Unitatea Executiva pentru Finantarea / Invatamantului Superior, a Cercetarii, Dezvoltarii si Inovarii

Success story description
UEFISCDI is managing large platforms such as BrainMap (https://www.brainmap.ro) - the online community of researchers, innovators, technicians and entrepreneurs with more than 42,000 accounts or EERIS platform (Engage in the European Research Infrastructures System Platform, https://eeris.eu/) that offers an overview of existing research facilities, equipment, services and technological services at national level, and it is currently running a series of pilot activities with other European countries, in order to expand EERIS internationally.

Audience or target group
☑ Industry ☐ Academia
☑ Research ☑ Public
☑ Institutes ☐ Authorities
☐ Public at ☐ Other
large

Website
https://eeris.eu

Additional Activity category
9. Other

Definition of Additional Activity category
This category includes any other activities that cannot be included in the above categories

Additional activity reported under this category
☑ Yes
☐ No

Amount per category
15 568 583 €

Additional Activity Number Additional Activity Name
9.1 Introduction of EOSC-specific references in research programmes and EOSC-related criteria for R&I funding

Additional Activity type
9.1 Introduction of EOSC-specific references in research programmes and EOSC-related criteria for R&I funding

Description of Additional Activity
This Additional Activities’ type includes as follows:
1. Elaboration of a concrete roadmap/ action plan with indicators correlated 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

Link to partnership general objectives
GO1 Ensure that Open Science practices and skills are rewarded and taught, becoming the ‘new normal’
GO2 Enable the definition of standards, and the development of tools and services, to allow researchers to find, access, reuse and combine results

Link to partnership specific objectives
SO1 Increase in the number of relevant research results that are made available as open as possible by researchers performing publicly funded research
SO3 Development and adoption of incentives for researchers to perform Open Science
SO4 Increasing amounts of research data produced by publicly funded research in Europe are FAIR by design
SO5 Co-develop domain-specific standards and adopt Open Science practices through the engagement with research communities during the lifespan of the Partnership

Link to projects
☑ Yes

Funding sources Amount per activity
Public
15 000 €
### Additional Activity Number
9.2

### Additional Activity Name
Activities in support of open publishing and initiatives to promote wider open access publication through the EOSC

### Description of Additional Activity
This Additional Activities type includes as follows:

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 peer-reviewed journals and books
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 SC OSS, 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

### Link to partnership general objectives
GO1 Ensure that Open Science practices and skills are rewarded and taught, becoming the ‘new normal’

### Link to partnership specific objectives
SO1 Increase in the number of relevant research results that are made available as open as possible by researchers performing publicly funded research
SO3 Development and adoption of incentives for researchers to perform Open Science
SO4 Increasing amounts of research data produced by publicly funded research in Europe are FAIR by design
OO1 Deliver and operate all the necessary components of the Minimum Viable EOSC to 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
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

### Link to projects

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<td>No Private</td>
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### Success story number
9.2

### Success Story Name
Publishing Initiatives - Alma MaTTer

### Success story description
1. Transformative “Publish and Read agreements” with the main international publishers and APCs monitoring
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 peer-reviewed journals and books. The reduction in the contribution is essentially due to two factors: - staff
that we had planned to report but were paid with funds that were indirectly attributable to European funding. The University of Bologna and the Research Centre for Open Scholarly Metadata manage OpenCitations infrastructure, an independent not-for-profit organization for open scholarship dedicated to the publication of open bibliographic and citation data by the use of Semantic Web technologies. The reduction in the contribution is essentially due to two factors: - staff that we had planned to report but were paid with funds that were indirectly attributable to European funding.

In 2021 the University of Bologna started the up-grade of ACNP, the Italian union catalogue of serials, which includes data about 258,221 serials held in 1937 academic and research libraries. The catalogue wishes to enhance its records with information about Open Access, including data from ROAD (the Directory of Open Access scholarly Resources) and DOAJ (Directory of Open Access Journals). The catalogue will offer information about policies for OA, licenses, publication fees and conditions offered by the different institutions part of the catalogue. ACNP will also evaluate the provision of links about data repository facilities for journals in the catalogue.

### Audience or target group
- Industry
- Academia
- Research
- Public
- Institutes
- Authorities
- Public at
- Other
- Large

### Website

<table>
<thead>
<tr>
<th>Additional Activity Number</th>
<th>Additional Activity Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.3</td>
<td>Adoption of national or institutional strategies for digital transformation and related roadmaps including a reference to the EOSC</td>
</tr>
</tbody>
</table>

### Description of Additional Activity
This Additional Activities type includes as follows:
1. Support to the implementation of the Digital Bible priorities
2. Digitisation projects of cultural heritage collections within the national program of the Ministry of Culture
3. Research Data Management policy
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 the involvement of all institute's personnel

### Link to partnership general objectives
- GO1 Ensure that Open Science practices and skills are rewarded and taught, becoming the 'new normal'
- GO2 Enable the definition of standards, and the development of tools and services, to allow researchers to find, access, reuse and combine results

### Link to partnership specific objectives
- SO1 Increase in the number of relevant research results that are made available as open as possible by researchers performing publicly funded research
- SO2 Professional data stewards are increasingly available in research performing organisations in Europe to support Open Science
- SO3 Development and adoption of incentives for researchers to perform Open Science
- SO4 Increasing amounts of research data produced by publicly funded research in Europe are FAIR by design
- SO9 EOSC increasingly establishes ties with related initiatives from regions around the world and becomes a partner in global cooperation frameworks for Open Science
- SO11 Deliver and operate all the necessary components of the Minimum Viable EOSC to 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
- 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)
- 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
- OO4 Co-develop domain-specific standards and adopt Open Science practices through the engagement with research communities during the lifespan of the Partnership
- 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
- OO8 Co-design and adopt a Rewards and Recognition framework for FAIR and open data practices in research during the lifespan of the Partnership
- 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

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<th>Link to projects</th>
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<table>
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<tr>
<th>Success story number</th>
<th>Success Story Name</th>
<th>Success story description</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.3</td>
<td>National Roadmap - National Infrastructures for Research and Technology - GRNET S.A.</td>
<td>GRNET contributed in the National Roadmap for Digital Transformation which included also actions for Open Science and EOSC <a href="https://digitalstrategy.gov.gr/website/static/website/assets/uploads/digital_strategy.pdf">https://digitalstrategy.gov.gr/website/static/website/assets/uploads/digital_strategy.pdf</a> and is actively developing a number of actions. Due to the constraints of the timeframe to submit this survey we are unable to offer an estimation of the effort allocated to that. Thus we report only the effort to contribute in writing this Roadmap.</td>
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</table>

<table>
<thead>
<tr>
<th>Audience or target group</th>
<th>Website</th>
<th>Additional Activity Number</th>
<th>Additional Activity Name</th>
<th>Additional Activity type</th>
<th>Description of Additional Activity</th>
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<tr>
<td>☑ Research</td>
<td></td>
<td>9.4</td>
<td>Adoption of new policies on Open Science referring to the use of the EOSC or the implementation of the FAIR principles.</td>
<td>9.4 Adoption of new policies on Open Science referring to the use of the EOSC or the implementation of the FAIR principles.</td>
<td>This Additional Activities' type includes as follows: 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 4. Ensure a long-term connection to the major EU initiatives and the national ones 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 open 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 organizations) 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 &amp; 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</td>
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<tr>
<td>☑ Public Institutes</td>
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<td>9.4</td>
<td>Adoption of new policies on Open Science referring to the use of the EOSC or the implementation of the FAIR principles.</td>
<td>9.4 Adoption of new policies on Open Science referring to the use of the EOSC or the implementation of the FAIR principles.</td>
<td>This Additional Activities' type includes as follows: 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 4. Ensure a long-term connection to the major EU initiatives and the national ones 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 open 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 organizations) 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 &amp; 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</td>
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<tr>
<td>☑ Public at large</td>
<td></td>
<td>9.4</td>
<td>Adoption of new policies on Open Science referring to the use of the EOSC or the implementation of the FAIR principles.</td>
<td>9.4 Adoption of new policies on Open Science referring to the use of the EOSC or the implementation of the FAIR principles.</td>
<td>This Additional Activities' type includes as follows: 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 4. Ensure a long-term connection to the major EU initiatives and the national ones 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 open 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 organizations) 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 &amp; 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</td>
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<td>☑ Other</td>
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<tr>
<th>Link to projects</th>
<th>Funding sources</th>
<th>Amount per activity</th>
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Success story number
9.4

Success Story Name
National Policies - Institute for Development of Information Society (Moldova)

Success story description

Audience or target group
- Industry
- Academia
- Research Institutes
- Public Authorities
- Public at Large
- Other

Website

Additional Activity Number
9.5

Additional Activity Name
Liaise internationally to develop a global cooperation framework for Open Science infrastructures

Additional Activity type
9.5 Liaise internationally to develop a global cooperation framework for Open Science infrastructures

Description of Additional Activity
This Additional Activities’ type includes as follows:
1. Collaboration aimed at increasing the awareness for the potential benefits of sharing language resource enabled by the interoperability framework.
2. Maintenance of existing links with active consortia in South Africa, the US, Australia, and Latin America.
3. Organization 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.

Link to partnership general objectives
GO1 Ensure that Open Science practices and skills are rewarded and taught, becoming the ‘new normal’.
GO2 Enable the definition of standards, and the development of tools and services, to allow researchers to find, access, reuse and combine results.
GO3 Establish a sustainable and federated infrastructure enabling open sharing of scientific results.

Link to partnership specific objectives
SO8 Essential additional functionalities for end users from the public and private sectors are implemented in EOSC (these developments are complementary to those of other European data spaces).
SO9 EOSC increasingly establishes ties with related initiatives from regions around the world and becomes a partner in global cooperation frameworks for Open Science.

Link to projects

Funding sources
- Public
- Private

Amount per activity
6 211 350 €

Success story number
9.5

Success Story Name
SARS-CoV-2 - Slovak Centre of Scientific and Technical Information

Success story description
Provision of technical and personnel capacities for SARS-CoV-2 sequences processing in Slovakia. Data upload in the required standards to GISAID and ENA (European Nucleotide Archive) and to covid19dataportal.org. Bioinformatics services provided by the Slovak Centre of Scientific and Technical Information for sequencing laboratories - raw data supplied by laboratories are then processed into the required form. If required, it is possible to create exports and various visualizations from these systems nationally and internationally.

**Audience or target group**
- ✔ Industry
- ✔ Research
- ✔ Public
- ✔ Institutes
- ✔ Authorities
- ☐ Public at
- ☐ Other
- ☐ large

**Website**
https://otvorenaveda.cvtsr.sk/narodna-strategia-otvorenej-vedy