

Contributing to uptake of AI in research: advanced AI for scientists - the AI4EOSC platform

Marcin Plociennik (PSNC - impact and collaboration), Álvaro López García (IFCA-CSIC - project coordinator)



Al4EOSC Documentation of the services and software





Artificial Intelligence for the EOSC

- Evolution of the **DEEP Hybrid DataCloud platform**
- Runs September 1st 2022 August 2025 (36 months)

Overall Goal: Deliver an **EOSC AI platform with advanced features** for distributed, federated, composite learning, metadata provenance, MLOps, event-driven data processing, and provision of AI/ML/DL services

- Funding: 5M€
- 3 workshops on AI, image processing, federated learning
- 1 external users open call
- 8 peer reviewed publications in high impact journals
- 2 peer reviewed publications in high impact conferences
- Collaboration with several EU funded and INFRAEOSC projects

coeosc Blue-Cloud2026

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- Feature rich services and platform to build and deploy custom AI applications in the EOSC
- Support for building AI systems on distributed datasets, with a particular focus on federated learning
- Services to compose AI tool workflows, enabling the development of complex data-driven AI applications
- Al Exchange Hub in the context of the EOSC, enhancing and increasing the application offer currently available
- **Extend** the service offer and the capabilities being offered through the EOSC, with focus on Al











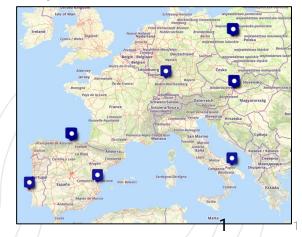






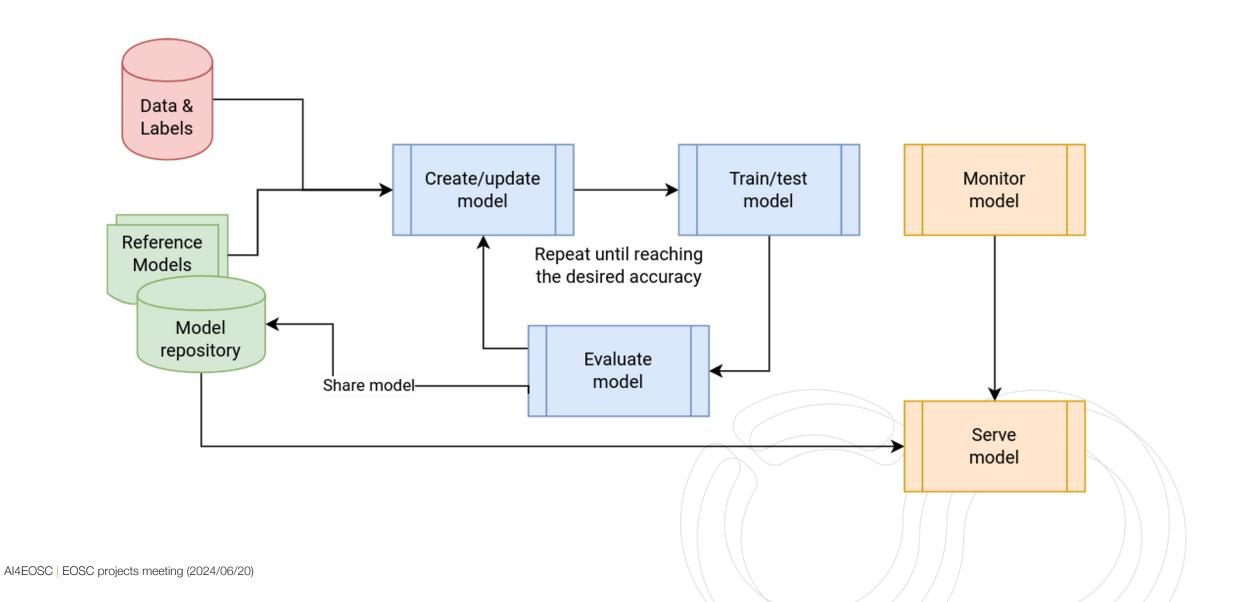






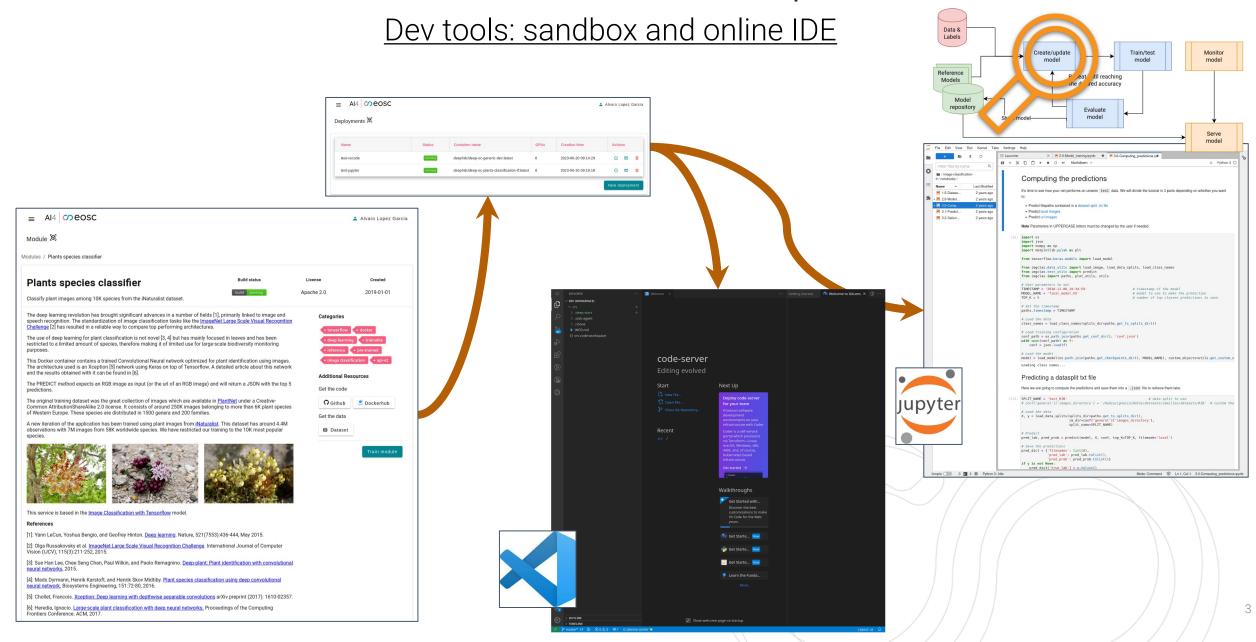


AI4 | meosc The Machine Learning Lifecycle

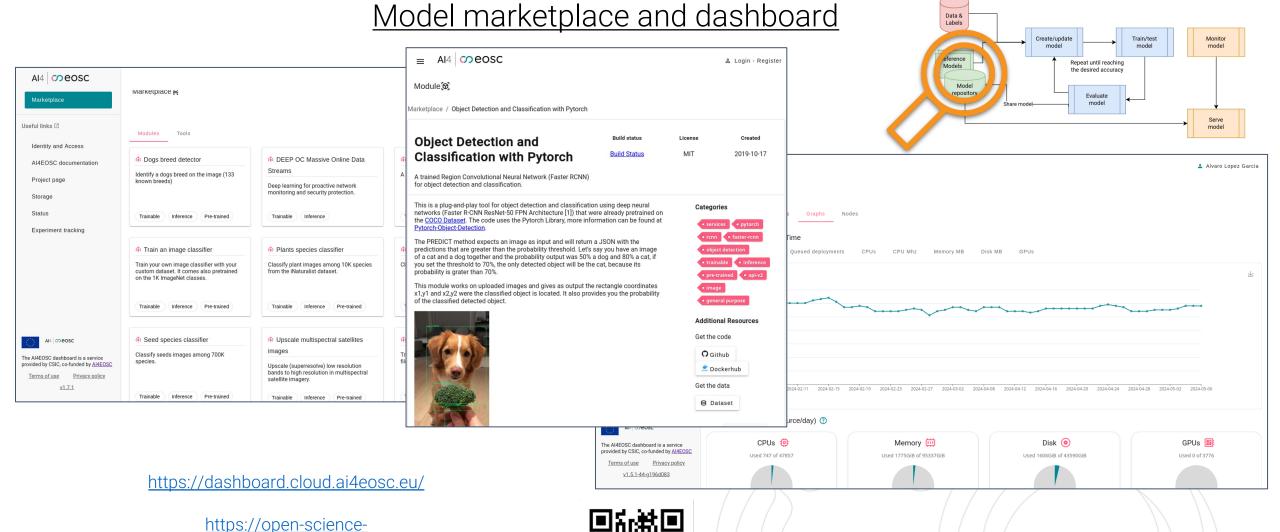




AI4 eosc Services for AI/ML development





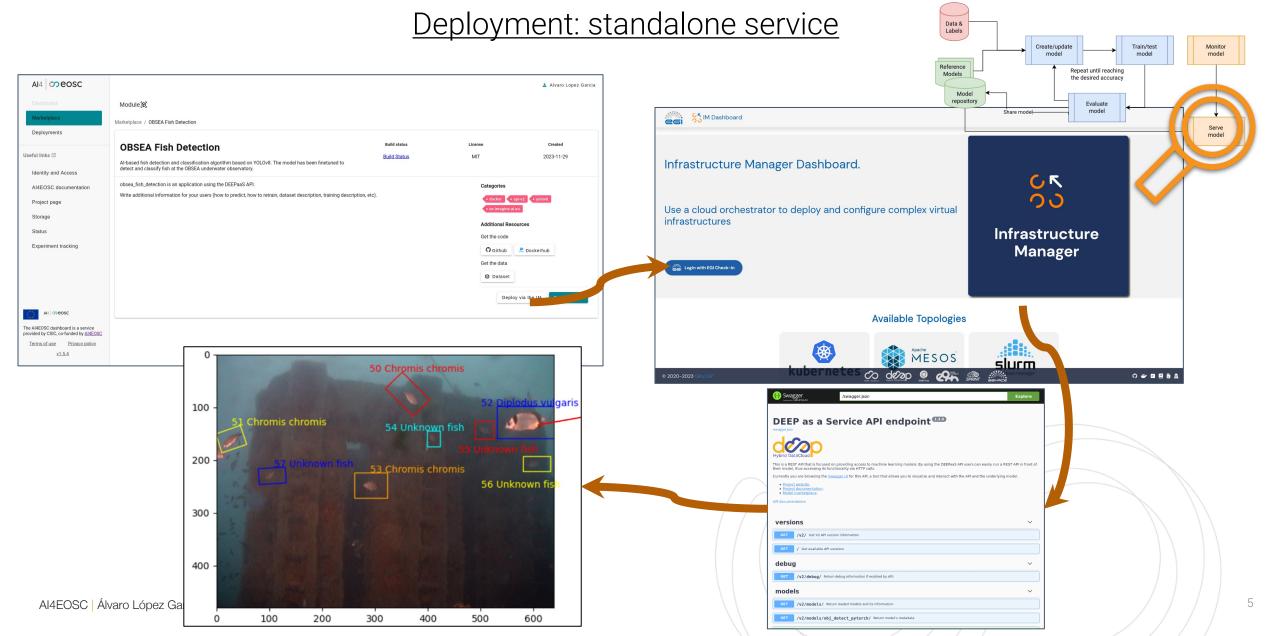


Al4EOSC | Álvaro López García

cloud.ec.europa.eu/resources/services/eosc.ifcacsic.ai4eosc platform

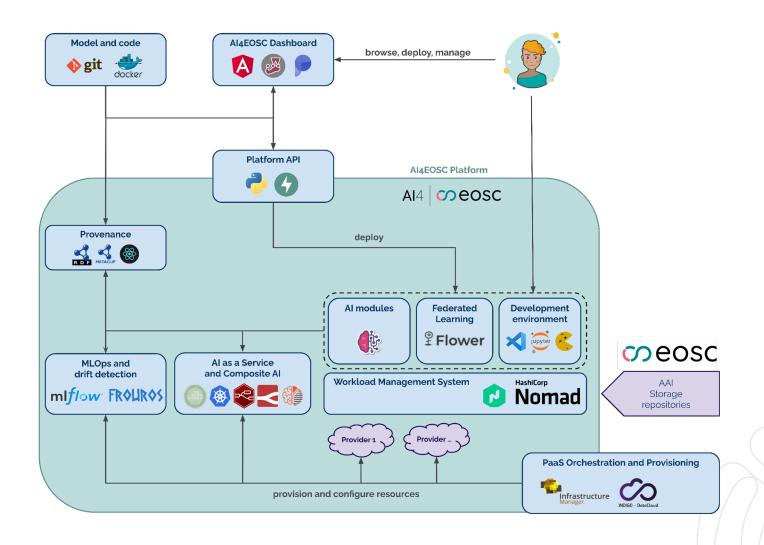


AI4 cosc Services for AI/ML development





AI4 eosc AI4EOSC high level architecture



Interactive C4 diagrams available here.







AI4EOSC empowers scientific research by...

- Providing users with advanced AI tools:
 - Model retraining (iterative learning, fine tuning)
 - Federated learning (including client authentication)
 - o Parallel training in multiple GPUs (distributed training data parallelism)
 - Model monitoring: MLOps, drift detection
 - Model inference
- Providing a simple and intuitive IDE for developing AI/ML/DL models (VSCode or JupyterLab)
- Allowing seamless and transparent access to computational resources to accelerate model development
- Deploying your models in production in a serverless environment.

More info:

https://ai4eosc.eu/ https://docs.ai4os.eu/



Key impacts and outcomes

- Increased number of services in the EOSC Exchange
 - AI/ML generic (AI4EOSC platform) or community specific (e.g. iMagine https://www.imagine-ai.eu/ and https://dashboard.cloud.imagine-ai.eu/)
- Transforming development of AI models for science in the EOSC
 - FAIR, reproducibility of pipelines, model provenance
 - Best practices for development AI and ML models
- Improvement of robustness of AI systems → Trustworthy AI
 - MLOps infrastructure and services for AI scientists
 - Drift detection tools and services to assess data/model/inference validity
 - o Provenance of models (reproducibility), model metadata
 - FAIR-ification of ML assets
- (Main, relevant) Outcomes so far
 - AI platform for the EOSC (AI4EOSC platform)
 - Integrated popular IDE environments (JupyterLab, Visual Studio Code)
 - Advanced ML features: federated learning, homomorphic encryption, privacy tools
 - Composite AI, cross discipline pipelines, serverless platforms
 - o Software stack (AI4OS) to build customized AI platforms
 - Best-practices documents for the AI community of practice in the EOSC







AI4 meosc Exploitation strategy

- -> towards strategy/pathways for the integration, and maintenance, of services developed by projects within EOSC usual issue \rightarrow declared TRL vs real TRL
 - Need for quality standards
 - External, independent validation
 - Very good documentation from the day one is essential: for the providers, developers, users + trainings on top

Preparation phase: towards achieving the adequate TRL

- Provide the high quality software and services \rightarrow procedures and services for delivering it in place (SQaaS,)
- Validation and testing by the use cases within the project
- Integration with other initiatives and frameworks (e.g. Flower.Al, NVIDIA MONAI)
- Exploitation strategy \rightarrow technical liaison with projects (EOSC ecosystem, Al-ondemand ecosystem, RI, etc), scientific community, private, innovator sector (through EOSC DIH)

Validation phase

- Call for external use cases to validate the services
- Other initiatives to reuse the software stack (AI4OS) → provide feedback or contribution to enhance

Exploitation phase

- Usage of the platform within the Scientific Communities, innovators, other projects
- Different models of collaboration (depending on business model) \rightarrow need for infrastructure and resources
- Al community of practice for the EOSC







AI4EOSC suggestions towards pathways for integration within the wider EOSC ecosystem

- Define clear methodology and processes for integration
- Be pragmatic: architecture must be presented in an easy to understand, clearly defined and easy to update documents and notations. Use community standards (e.g. C4 model)
- Adequate quality of the software and services should be provided: similar standards should be followed
- Define a common standard to document things in order to have a clear understanding of the federation and integration paths e.g.:
 - OpenAPI specification,
 - C4 model,
- Foster reusability, promote visibility of results





Capacity to contribute to EOSC core capabilities

- AI4EOSC is interested in **exploring the exploitation of EOSC Node compute capacity** as underlying infrastructure to deliver the advanced AI platform
- AI4EOSC is ready to implement integration with EOSC Node core capabilities (AAI, catalogs, accounting, monitoring)
- AI4EOSC vision on contributions to EOSC core:
 - Comprehensive provenance tracking system for ML assets (planned Q4 of 2024)
 - Service oriented, standards based, extensive for other scientific products
 - Proposing common standards and approaches:
 - Common an easily understandable model to define the architecture (e.g. C4Model)
 - Open API specifications and interoperability guidelines
- Discussion is needed to understand which of the other general AI related services and capabilities could be included in the EOSC Core

AI4EOSC | EOSC projects meeting (2024/06/20)



SRIA Macro Roadmap contribution

- Metadata and ontologies
 - Provenance tracking system for AI: Service oriented, semantic standards and domain specific ontologies
- FAIR Metrics
 - RDA FAIR Data Maturity, extension of FAIR EVA to support ML model provenance
- User environments
 - Enhanced AI platform for the EOSC (powered by the AI4OS software stack) providing EU researchers and data scientists with a comprehensive set of tools to share, develop and deploy AI models following the open science and FAIR principles
 - Integrations with EOSC repositories for automatic downloading of datasets (Zenodo, Figshare, etc.)
 - Automatic deposit of Al assets (Zenodo + GitHub)



SRIA Macro Roadmap contribution

- User provider environments
 - AI4OS software stack: The AI4OS software stack allows providers to build customized platforms (similar to the AI4EOSC platform) that can be tailor-made for the specific needs of a community
 - Service mesh approach as a model for EOSC, allowing more rich distributed platforms
- EOSC interoperability
 - Guidelines for AI for EOSC Interoperability Framework
 - Open Architecture definition following common notation model (C4 model)
- Skills development
 - Training materials and courses on AI for EOSC
 - Collaboration with EOSC sister projects (INFRAEOSC) on AI and EOSC skills development

AI4 coesc Work ahead

Finish and settle collaborations with INFRAEOSC (and other) projects



- AI + Open Science + FAIR data intersection
 - Uptake of AI for science and research with a solid foundations and scientific background
 - Start taking into account quality aspects of the data (QAFAIRD)
- Increased trust in Al-based research
 - Reputation of Al systems
 - FAccT for Al systems: Fairness, Accountability, and Transparency
- Al must be seen as an interdisciplinary collaboration
 - Data experts, domain scientists, data scientists, research software engineers must work together
 - Al community of practice for the EOSC

AI4 eosc Thank you for your attention!

The AI4EOSC platform

Marcin Plociennik marcinp@man.poznan.pl (impact and dissemination)

Álvaro López García <u>aloga@ifca.unican.es</u> (project coordinator)





ကeosc cancer

EOSC4Cancer contributions to session #5.2:

Adding value through the EOSC Federation: Users and Resource environments in thematic communities

2024 Coordination meeting of EOSC-related projects funded under Horizon Europe June 20th, 2024

Salvador Capella-Gutierrez (BSC) · Veli Stroetmann (Empirica)



EOSC4Cancer: the cancer research

point of view





Risk & Primary Prevention ourney **Early Detection &** Interception atient **Diagnostics & treatment** primary cancers **Diagnostics & treatment** Cancer metastatic cancers ...



EOSC4Cancer: the cancer research point of view





use-cases Colorectal Cancer

Cancer risk identification and prevention by linking environmental data to **cancer registry** data

Data-driven optimisation of **cancer screening** programs

Data-driven treatment selection for localised tumours with **multiple patient-derived data types**

Data-driven treatment selection for localised tumour: improving the treatment of colorectal cancer by the inclusion of **circulating DNA information**

Connecting omics data from multiple sources to a **Clinical**

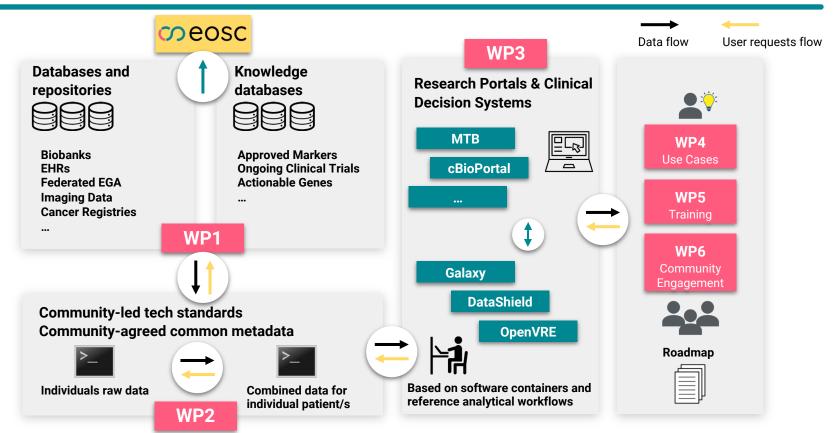
Decision Support System (CDSS) for precision treatment of metastatic CRC



Technical overview







Outcomes





KEY OUTCOMES ACHIEVED (first half)

→ Towards EU cancer research catalogue

 EOSC4Cancer Cancer Catalog, providing standardised descriptions of cohorts and other data resources, and the collaboration networks of experts surrounding them.

→ Synthetic data

 First synthetic dataset made available (longitudinal genomic + clinical data)

→ Integration of imaging data

- Started deployment of cBioPortal at BBMRI with slide image integration
- Work on XNAT and cBioPortal for image integration
- → Reference cBioPortal instance hosted by Health-RI

- → Development of a model for biomarker-driven clinical trials
- → Initiated the development of an AI-powered NLP tool for Cancer Patient-to-Precision Clinical Trials Matching
- → Establishment of a European training support network for Cancer Data Research
- → Initial framework for the Cancer Roadmap defined
- → Engagement with **KEY stakeholders**

Outcomes





KEY OUTCOMES ACHIEVED (first half)

- → Towards EU cancer research catalogue
 - EOSC4Cancer Cancer Catalog, providing standardised descriptions of cohorts and other data resources, and the collaboration networks of experts surrounding them.
- → Synthetic data
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- → Development of a model for biomarker-driven clinical trials
- → Initiated the development of an Al-powered NLP tool for Cancer Patient-to-Precision Clinical Trials Matching
- Fetablishment of a European training cupport

UPCOMING OUTCOMES

- → **Demonstrator of data mobilization** across analysis platforms (from Galaxy to cBioPortal)
- → SOPs for the exchange of different data types (Genomics, Clinical data, Images, Cancer registries, Screening programs, Exposome data)
- → Harmonization models, procedures, and recommendations
- → Demonstrator to trigger Galaxy workflows from within cBioPortal
- → RDMkit Cancer View and EOSC4Cancer course portfolio
- → Demonstrator of federated data flow

→ Inte

Engagement with KEY stakeholders















Data Generation



Standards, Services, **Software & Portals**



Deployment of Infrastructure



Demonstration through use-cases















ကeosc cancer

How can EOSC help us demonstrate and promote the benefits of open science and related collaborative practices for thematic users and resource environments?



Technical overview







Examples: Towards EU cancer research catalogue

http://data-catalogue.molgeniscloud.org/catalogue/ssr-catalogue/EOSC4Cancer





Metadata included:

Resource summary, Population, collection events, linkage, access conditions, mappings to standards, links to other 'networks', data access conditions (DUO)

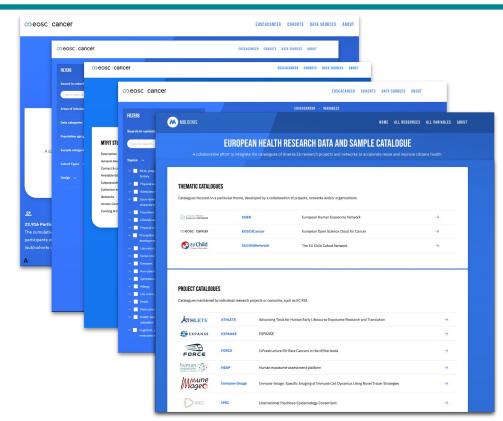
Enhancements made:

Cancer landing page

Cross linking to other EU programs (e.g. exposome)

Standards:

DCAT, FDP, DUO, Beacon, RDF, GraphQL, CSV, OIDC/LSAAI

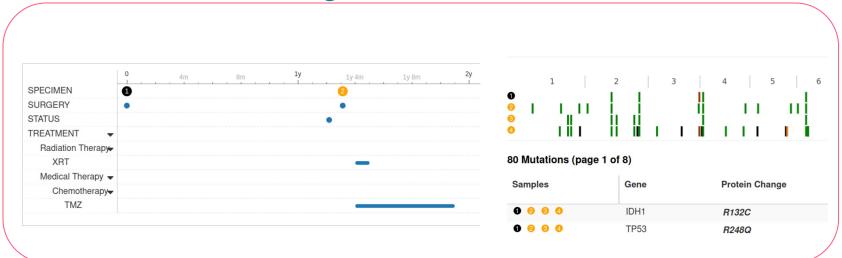


Examples: Community-driven data Visualization and Interpretation





Longitudinal Data



- → Inclusion of additional data views (longitudinal data)
- → Inclusion of additional data types (radiological imaging visualization).
- → Development of guidelines to facilitate interoperability across different cBioPortal instances.

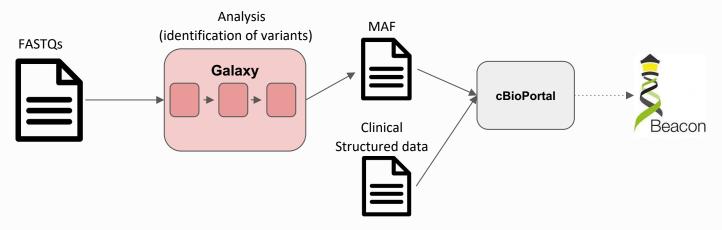




Examples: Data mobilization across analysis platform (**Cancer use-case** connecting EOSC4Cancer & GDI)

Description of the demonstrator

Workflow from FastQ to data analysis and visualisation in cBioPortal. Then, the data in cBioPortal, if it is well formatted, will be queried directly by Beacon (optional).





Examples: Data mobilization across analysis platform (Cancer use-case connecting EOSC4Cancer & GDI)





Data mobilization across analysis platform (Cancer use-case)



EOSC4Cancer: the cancer research point of view





use-cases Colorectal Cancer

Data-driven optimisation of **cancer screening** programs

Connecting omics data from multiple sources to a ${f Clinical}$

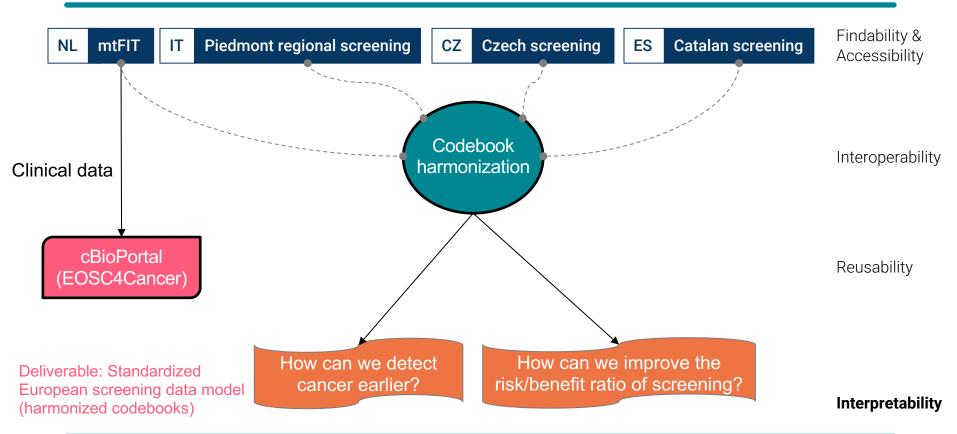
Decision Support System (CDSS) for precision treatment of metastatic CRC



4.2: Data driven optimisation of cancer screening programs



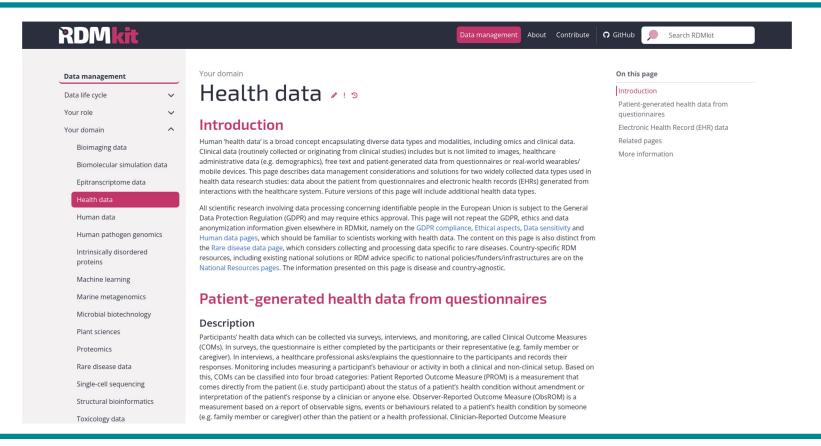




4.2: Data driven optimisation of cancer screening programs



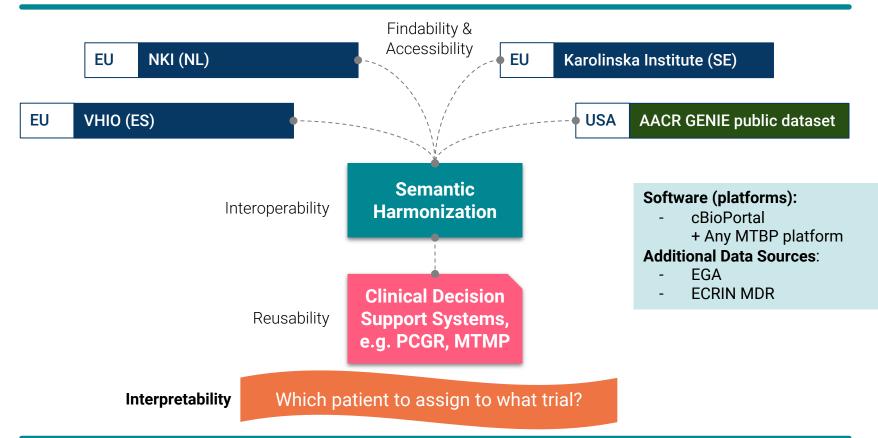




4.5: Clinical Decision Support System











Thank you!



Horizon Europe projects coordination meeting in the context of the EOSC European Partnership

Session 5.2: Adding value through the EOSC Federation: Users and Resource environments in thematic communities

AquaINFRA

Restoring our oceans, seas, coastal and inland waters

Lise Schrøder and Henning Sten Hansen
Aalborg University Copenhagen



Agenda

- Introduction to AquaINFRA
- Potentials of EOSC regarding demonstration and promotion of the benefits of open science and related collaborative practices for thematic users and resource environments
- Opportunities of the connection to the EOSC Federation to enhance user/resources environments already in place in thematic communities?
- Services of features that could be accessible for the Federation that could have the largest impact in thematic environments?
- Major difficulties or overheads (technical, managerial etc.) entail the eventual connection to the EOSC Federation for thematic user environments?

Overall objectives of AquaINFRA

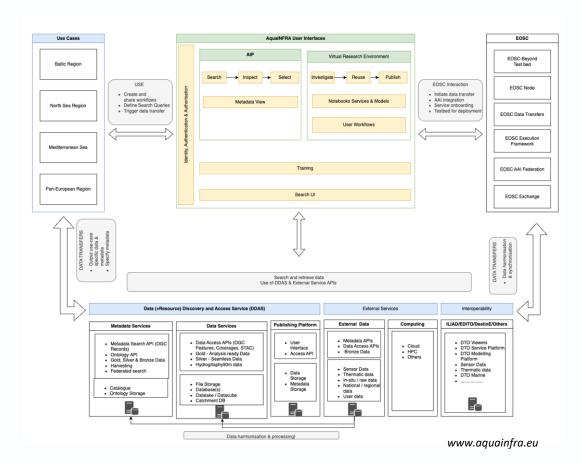
The overall objective of the project is to develop a virtual environment equipped with FAIR multidisciplinary data and services to support marine and freshwater scientists and stakeholders restoring healthy oceans, seas, coastal and inland waters

The aim of the AquaINFRA virtual environment is to enable the target stakeholders to store, share, access, analyse and process research data and other research digital objects from their own discipline, across research infrastructures, disciplines and national borders leveraging on EOSC and the other existing operational dataspaces (e.g., EMODnet, Copernicus Marine Service, Digital Twins, etcetera)



The AquaINFRA setting

- The technical framework is designed to enhance cross-domain research, enabling seamless discovery and access to marine and freshwater data via interdisciplinary discovery services
- The Data Discovery and Access Service (DDAS) will act as a bridge connecting diverse data catalogues, APIs, and Digital Twins
- The AquaINFRA architecture will utilise international standards such as those from ISO TC211, the Open Geospatial Consortium (OGC), and the EU INSPIRE Directive





Regional case study areas and technical use cases hydrosphere within an EOSC setting

across the

- 1. Effectiveness of measures, their social and economic effects
- 2. Creation of seamless water quality data from land to sea utilising high-frequency water quality monitoring with FerryBox observations and combining sensor data with satellite observations.
- 3. Changes in nutrient loading and the Gulf of Riga optical properties: effectiveness, costs and socio-economic effects of environmental measures.
- 4. Monitoring the aquatic carbon cycle and quantifying the human impact (eutrophication).
- 5. Land- Sea interactions and quantifying the human impact (eutrophication)
- 6. Marine ecological state by the land catchment interactions
- 7. Future scenarios for inland water quantity and coastal impacts
- 8. Marine ecological state by the land groundwater interactions
- 9. Freshwater biodiversity



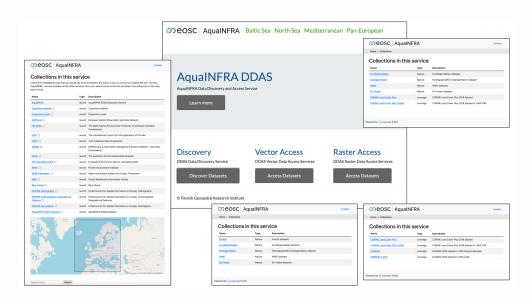


Potentials of EOSC regarding demonstration and promotion of the benefits of open science and related collaborative practices for thematic users and resource environments

Marine and freshwater scientists will be equipped with a user environment for data harmonisation, processing, quality assessment, interaction and sharing, emphasising the pan-European seamless connectivity across the marine and freshwater realms

 The AquaINFRA Data Discovery & Access Service enables search for marine data, freshwater data, and socio-economic data seamlessly across borders and data repositories

EOSC as a central entrance point might enable collaboration and sharing across this very interdisciplinary research field.

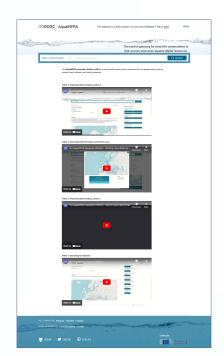


Potentials of EOSC regarding demonstration and promotion of the benefits of open science and related collaborative practices for thematic users and resource environments

An open and reproducible science capacity is being established in the marine, coastal, and inland water research communities, from bachelor's students to experienced researchers

- demo versions supporting the internal capacity building are available via the AquaINFRA Interaction Platform (AIP)
- a suite of educational materials and resources are being co-developed during the project promoting a sustainable culture of open science within the marine and freshwater research communities.

Capacity building within the consortium as part of being an EOSC project as well as the promotion of the AquaINFRA training platform via EOSC







Opportunities of the connection to the EOSC Federation to enhance user/resources environments already in place in thematic communities?

- To provide an EOSC service that allows users to seamlessly and easily find and access data from the diverse set of catalogues
- To develop use cases for improved water quality and healthy aquatic environments to demonstrate the value of sharing open and FAIR research data and provide feedback to the EOSC Partnership
- To synergise with the oceans, seas, coastal and inland waters initiatives and the EOSC Partnership to avoid overlaps and reuse existing resources

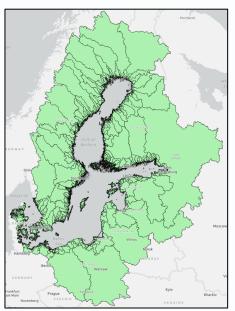




Services of features that could be accessible for the Federation that could have the largest impact in thematic environments?

AquaINFRA aims at providing a robust, userfriendly, and innovative environment that enables and propels forward the research in marine and freshwater sciences.

- A cornerstone of AqualNFRA is data harmonisation, essential for integrating diverse datasets from disparate sources, ensuring consistency and compatibility across different systems.
- The process will involve standardising data formats, metadata, and vocabularies to align with FAIR principles.
- The harmonised data, once processed, will feed into the AquaINFRA Data Space.





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https://nordregio.org/maps/nuts-3-regions-in-the-nordic-region-in-2015/



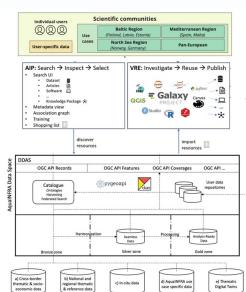
Services of features that could be accessible for the Federation that could have the largest impact in thematic environments?

Through leveraging high-performance computing, adhering to and advancing standards, and promoting open science and FAIR data principles, AquaINFRA aims to be a transformative force in aquatic research infrastructures

- The AquaINFRA Interaction platform (AIP) provides access to DDAS as well as the Virtual Research Environment (VRE)
- The VRE will provide computational tools and services necessary for sophisticated data analysis and modelling and support a range of programming languages, such as R and Python
- Notebook services offering customisable workflows to facilitate the analysis of raw or harmonised data will be included, allowing researchers to create tailored processes for their specific research needs.

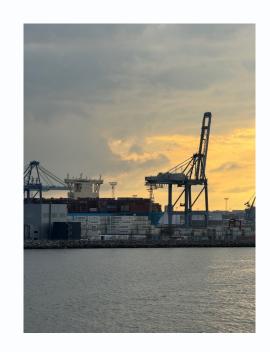






Major difficulties or overheads (technical, managerial etc.) that entail the eventual connection to the EOSC Federation for thematic user environments?

- EOSC is new to most of the domain experts in AquaINFRA especially on the freshwater side
- Tools and workflows are typically tailored within national organisations and data are not necessarily in a searchable format
- Combining the fresh water and marine research environments and also include socioeconomic data in a seamless setting is in itself a challenge
- How to adapt the AquaINFRA architecture to connect to the new EOSC node setting and contribute to the EOSC Federation
- Uncertainty regarding the future of EOSC
- How to consider EOSC vs. DTO efforts/synergies



Partners



- AALBORG UNIVERSITET (AAU) DK
- MAANMITTAUSLAITOS (NLS FGI) FI
- THE BALTIC MARINE ENVIRONMENT PROTECTION COMMISSION (HELCOM)
- CSC-TIETEEN TIETOTEKNIIKAN KESKUS OY (CSC) FI
- SUOMEN YMPARISTOKESKUS (SYKE) FI
- SINTEF AS (SINTEF) NO
- NORSK INSTITUTT FOR VANNFORSKNING (NIVA) NO
- · TARTU ULIKOOL (UTARTU) EE
- LATVIJAS HIDROEKOLOĢIJAS INSTITŪTS (LIAE) LV
- HOCHSCHULE BOCHUM (HSBO) DE
- FORSCHUNGSVERBUND BERLIN EV (FVB-IGB) DE
- 52NORTH SPATIAL INFORMATION RESEARCH GMBH (52°North) DE
- HELMHOLTZ-ZENTRUM HEREON GMBH (HEREON) DE
- DEUTSCHES KLIMARECHENZENTRUM GMBH (DKRZ) DE
- CENTRO DE INVESTIGACION ECOLOGICA Y APLICACIONES FORESTALES (CREAF)
- AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS (CSIC)
- UNIVERSITA TA MALTA (UMALTA) MT
- UNIVERSITAET FUER BODENKULTUR WIEN (BOKU) AT
- KARLSRUHER INSTITUT FUER TECHNOLOGIE (KIT) DE
- TECHNISCHE UNIVERSITAET DRESDEN (TUD) DE
- BLUE LOBSTER IT LIMITED (BLIT) UK

○ COSC | AqualNFRA















































EOSC HE Coordinators June 2024

Breakout 5b - Adding value through the EOSC Federation: Users and Resource environments in thematic communities.







Agenda

- Introduction, breakout approach (Peter, Sara)
- Intro talk 1: Lise Schrøder, Aqua-INFRA.
- <u>Intro talk 2</u>: Salvador Capella-Gutierrez, EOSC4Cancer
- Discussion question 1:
 - How can EOSC help us demonstrate and promote the benefits of open science and related collaborative practices for thematic users and resource environments?
- Discussion question 2:
 - What opportunities does the eventual connection to the EOSC Federation bring to enhance user/resources environments already in place in thematic communities?
- Discussion question 3:
 - What services of features that could be accessible for the Federation could have the largest impact in thematic environments?
- Discussion question 4:
 - What major difficulties or overheads (technical, managerial etc) entail the eventual connection to the EOSC Federation for thematic user environments?
- Summary, discussion readouts (Sara, Peter)

Adding value through the EOSC Federation: Users and Resource environments in thematic communities Practical example from the EOSC4Cancer project

Reusing catalogues via common standards

Open access platform (cBioPortal) available to anyone

Data driven harmonisation of cancer screening programme: interoperability was put in practice in two screening programmes (NL - IT) working together by harmonising a codebook, which was then used also by IT and CZ

Clinical decision support system: creation of a (new) standard for semantic harmonisation for clinical decisions

Discussion question 1: How can EOSC help us demonstrate and promote the benefits of open science and related collaborative practices for thematic users and resource environments?

The **human engagement factor** is perceived as a value add in EOSC. People wouldn't have had the chance to meet without EOSC, domain specific practices would have been shared without EOSC.

EOSC is not a portal, should be considered as an umbrella framework going much beyond data.

Training becomes strategic at this point: to inform researchers and scientists about the opportunity to use services, tools and methods already in place

Discussion question 2: What opportunities does the eventual connection to the EOSC Federation bring to enhance user/resources environments already in place in thematic communities?

EOSC has the potential of making available resources from other spaces (institutes, communities, nodes) not available before. **Shared authentication** is one of the opportunities, with an unique ID that is broad enough to include availability of a broader set of services (so not just limiting it to EduGAIN)

An **EOSC helpdesk** would be a great opportunity - if sustainability of such a service is ensured

Scalability of VRE resources is also seen as an opportunity, with SLAs that can vary according to the type of resources needed, the scope of using the services and the domain

Discussion question 3: What services of features that could be accessible for the Federation could have the largest impact in thematic environments?

A managed, reliable cloud service with ensured uptime service would be the most desirable service for scientific user communities

A **modular SLA model** to be adapted for different services and different scientific communities, so to facilitate the understanding of what services are critical to be ensured at what conditions

A **credit system** could be effective if linked to an effective tracking of usage of resources (and here the AAI is necessary) and an **elastic resizing of resources** across the federation, to avoid stopping services when credits end

Discussion question 4: What major difficulties or overheads (technical, managerial etc) entail the eventual connection to the EOSC Federation for thematic user environments?

Data can be used in many different research environments, what's difficult is **making data findable by other domains** and to describe data in a way that can be integrated to other domains

Stronger (human and technological) connection between EOSC and **Digital Twins** should be made

Time is a challenge: putting EOSC in practice requires years!

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INFRAEOSC Coordination Meeting 2024

Sustainability of projects' outcomes

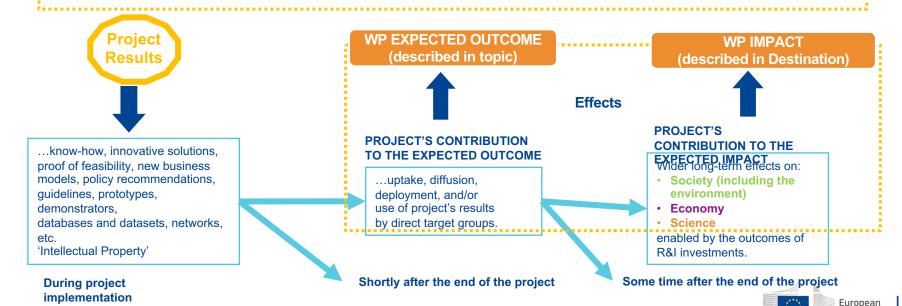
Flavius PANA
European Research Executive Agency

Project's pathway towards impact



Project's pathway towards impact

Specific contribution that projects can make to the expected outcomes and impacts set out in the Work Programme



IPR - BACKGROUND AND RESULTS - ARTICLE 16

Exploitation of results

- Beneficiaries which have received funding under the grant must <u>up to four years after the end of the action use their best efforts to exploit their results directly or to have them exploited indirectly by another entity ...</u>
- If, despite a beneficiary's best efforts, the results are not exploited within one
 year after the end of the action, the beneficiaries must (unless otherwise
 agreed in writing with the granting authority) use the Horizon Results
 Platform to find interested parties to exploit the results.



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About

What is Horizon Results Booster?

Horizon Results Booster (HRB) is an initiative of the <u>European Commission</u> which aims to bring a continual stream of innovation to the market and maximise the impact of public funded research within the EU.

It supports projects eager to go beyond their Dissemination and Exploitation (D&E) obligations - steering research towards strong societal impact and concretising the value of Research and Innovation (R&I) activity for societal challenges.

To achieve this, HRB offers free consulting services to closed or ongoing research projects funded by FP7, Horizon 2020, or Horizon Europe programmes.

What Services Are Available?

The Horizon Results Booster offers 3 types of services:

1. Portfolio Dissemination & Exploitation Strategy

- . Identifying and creating the portfolio of Research & Innovation project results (module A),
- · Creating the portfolio of results; design and execute a portfolio dissemination plan (module B)
- Improving existing exploitation strategy (module C)
- 2. Tailor made support services to develop a business plan
- 3. Assistance, coaching and mentoring for go-to-market activities.

When Can You Apply?

It is possible to submit an HRB application as soon as the project's results are identified. HRB services must be completed at the latest by 7th of November 2024.

Who Is Providing the Services?

The services are provided by a consortium of specialized companies: META Group, Ecorys Europe, ICONS, Trust-IT Services, BDO, and PNO. For more information about Horizon Results Booster, visit the <u>FAQ section</u> or contact us at booster@meta-group.com.

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Open Questions

☐ How is your project ensuring the sustainability of the project Outcomes?

■ What are the challenges (if any) that you are facing?

■ What possible solutions do you envisage?

