NI4OS-Europe: Servicing the Service Providers

Community support discussions: FAIR implementation for NI4OS-Europe service providers

29th of April

Andreas Athenodorou NI4OS-Europe WP6 leader The Cyprus Institute



NI4OS-Europe



15 Member States and Associated Countries | 22 Partners









































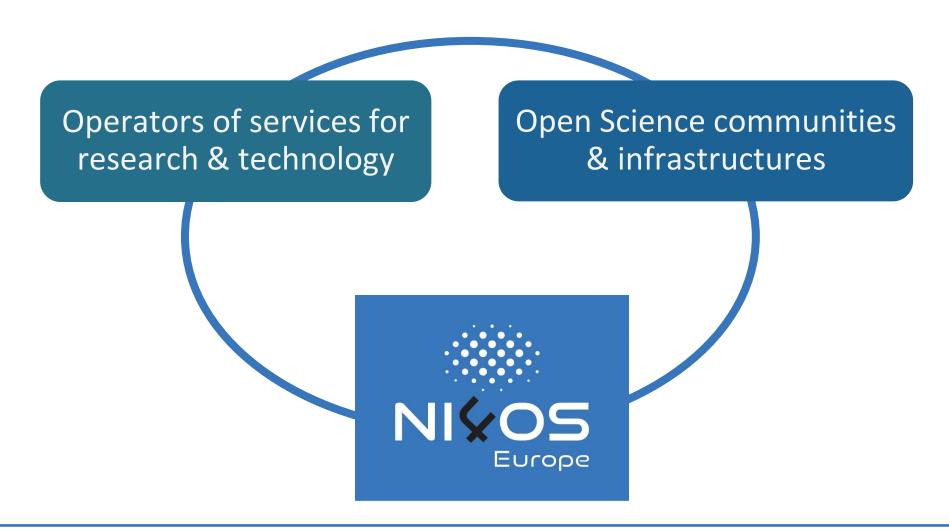






Partnership building blocks





Mission





Support

the development and inclusion of the national Open Science Cloud (OSC) initiatives in 15 Member States and Associated Countries in the overall scheme of EOSC governance



Spread the EOSC and FAIR principles in the community and train it

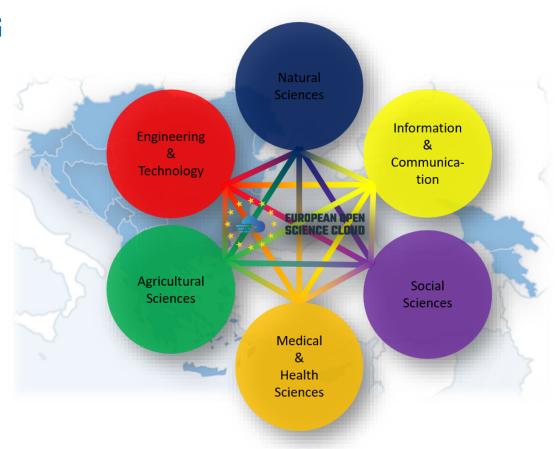


Provide technical and policy support in on-boarding of the existing and future service providers into EOSC

NI4OS-Europe supports OPEN SCIENCE!

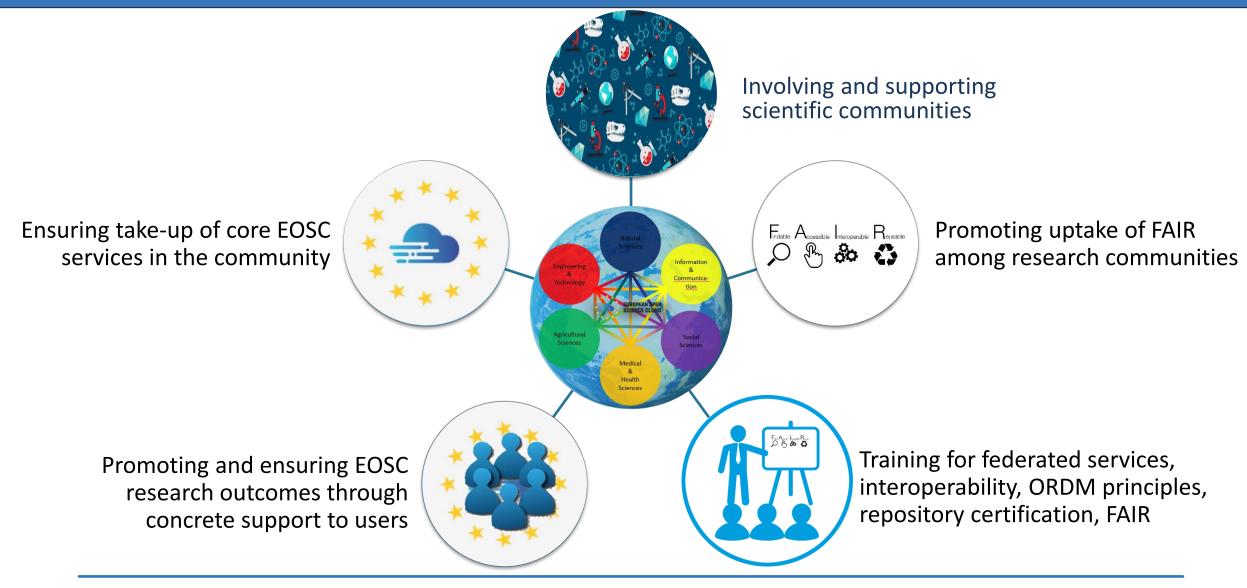


- □ We support ○P{N C}E
- By providing all the necessary tools to the LONG TAIL OF SCIENCE throughout the EOSC
- Servicing ALL possible disciplines
- Namely we support the on-boarding of
 - Thematic Services
 - Generic Services
 - Repositories
- We provide access to ORDM tools
- We provide training on FAIR



User engagement, training and demonstrators





Support to EOSC service & FAIR uptake in communities



- □ Policy/Strategy: **Ambassadors** from each country assigned as EOSC promoters
- □ Training and dissemination: material for FAIR and EOSC service uptake is available in all different mother languages of the NI4OS-Europe area. Webinars for disseminating EOSC and FAIR principles in each country
- □Infrastructures and tools: Provide ORDM tools and enhancing current practices





Flagship scientific communities



We have identify four highly cross-disciplinary, real-user communities:



Life Science

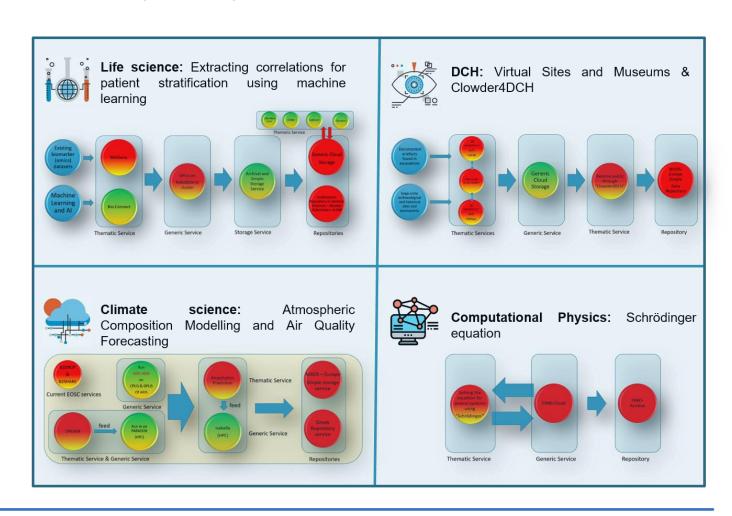


Digital Cultural Heritage



Climate Science





Open Call



at: https://ni4os.eu/

OPEN CALL

OPEN 11 April 2022 CLOSE 11 May 2022

GAIN ACCESS

to EOSC on-boarded NI4OS-Europe services



Open Call













collections of artefacts

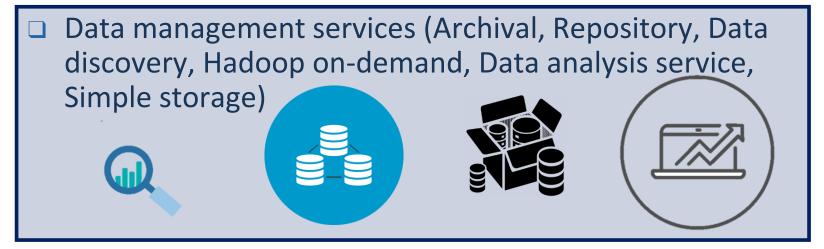
EOSC candidate generic services: examples











EOSC candidate thematic services: examples

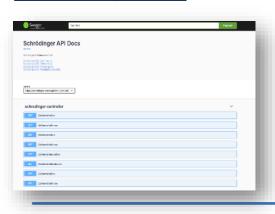
OVRET



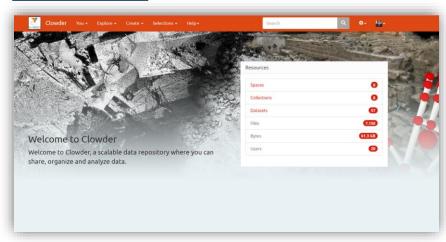
ChemBioServer

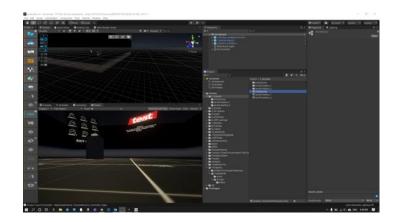


Schrödinger API

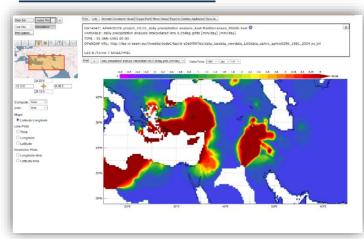


DCH Clowder





Live Access Server



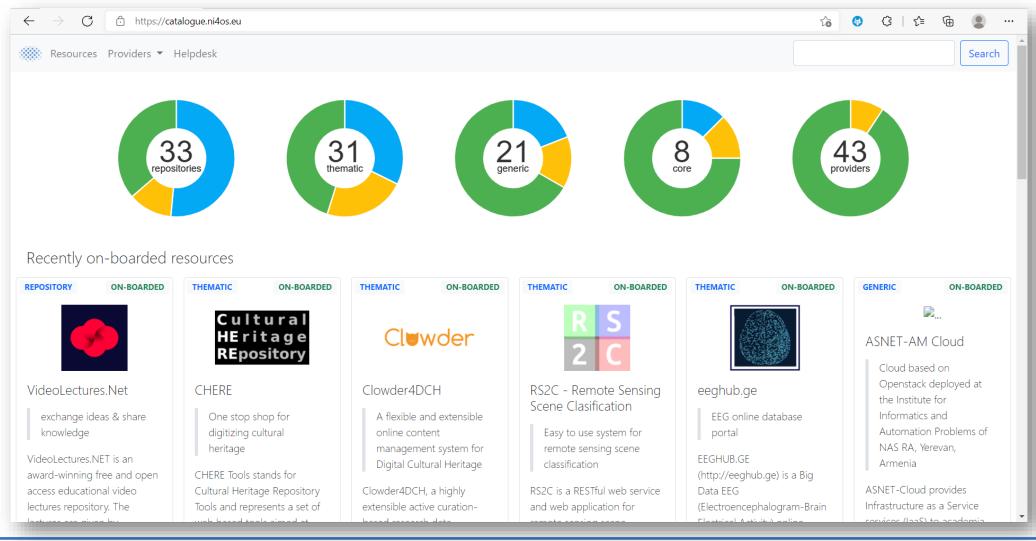
Airquality



NI4OS-Europe Service Catalogue: examples



Link: https://catalogue.ni4os.eu/

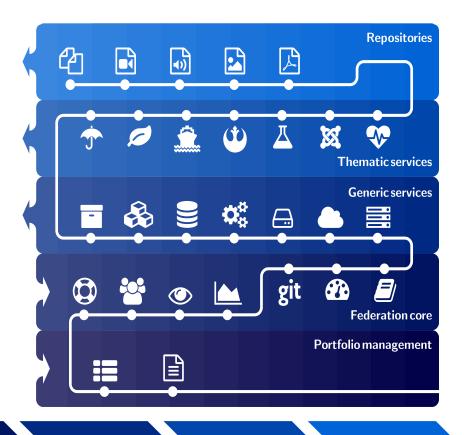


Service integration and onboarding



- Pre-production environment validate readiness and maturity level for EOSC onboarding
- Service portfolio management system based on the EOSC provider and service profile
- Integration with federation core services
- Service categorization
- Onboarding of
 - generic services
 - thematic services
 - repositories





Request for onboarding Information gathering

Integration

Validation

Publication

NI4OS-Europe pre-production environment

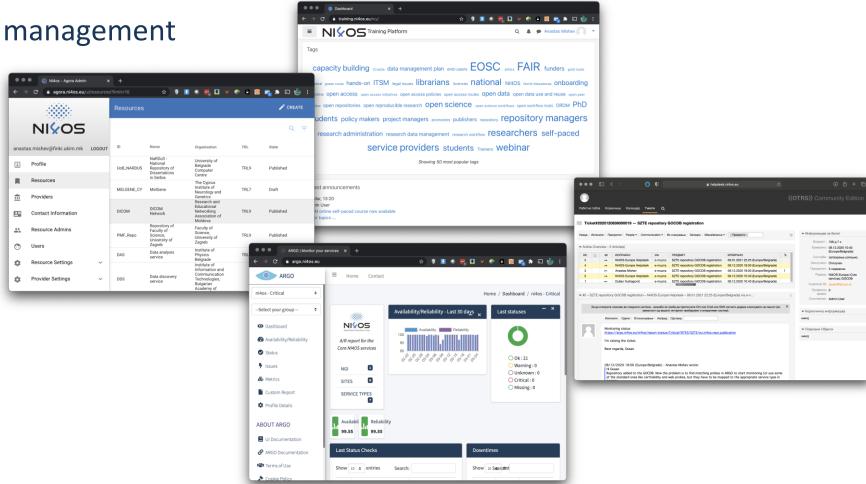


□ Federating core

Service catalogue management

system (AGORA)

- AAI
- Helpdesk
- Monitoring
- Accounting



How FAIR-enabling are the services?



- Does a service support metadata?
- Does a service support semantics?
- □ Are there metadata standards available for a specific domain?
- How much FAIR-educated are the scientists developing a service?
- How about semantics interoperability?
- ☐ How do we facilitate the inclusion of semantics, metadata schemas, ontological solutions on a service at practical level?
- □ Address the above









NI4OS-Europe Task-Force on Semantics/Metadata/Ontologies



□ NI4OS-Europe Team of experts:

Consists of academics with experience on metadata and controlled vocabularies





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Zoe Cournia



Valentina Vassallo



Adam Szaldobagyi





Branko Marović









NI4OS-Europe Task-Force on Semantics/Metadata/Ontologies



- □ NI4OS-Europe Team of experts:
- Goals:
 - □ Provide more context on the foggy subject of FAIR-enabling services
 - Answer questions and increase awareness on the technicalities of FAIR implementation
 - Everyone to understand the basics of semantics and the role of metadata and controlled vocabularies (ontologies, taxonomies, etc)
 - Work with service providers to analyse the different types of metadata
 - ☐ Provide tailored advice for appropriate use in a research data management lifecycle
 - □ Contribute to some parts of the implementation of domain data protocols (to later be implemented in the Argos DMP service)
 - □ Contribute to the EOSC FAIR TF and EOSC FAIR Metrics and Data Quality TF conversations

NI4OS-Europe Task-Force on Semantics/Metadata/Ontologies



- Activities:
 - Organisation of webinars for on-boarded service providers and repository managers
 - Providing a pathway on integrations and/or alterations that are necessary for enhancing existing services or new services
 - □ Feedback on ORDM tools (RePol, LCT, RoLECT)
 - □ LCT License Clearance Tool: https://lct.ni4os.eu
 - RePol Repository Policy Generator https://repol.ni4os.eu/
 - □ RoLECT EOSC RoP Legal & Ethics Compliance https://rolect.ni4os.eu/

Further on



- □ Consolidate the 'experts group' activities to Guidelines for service providers
 - Clearly demonstrate how different services (eg data analysis, storage, etc) can enhance FAIRness
- Create a metadata standard based on best practices

Thanks for your attention!



