NI4OS-Europe on-boarding - train-the-trainer event



Wednesday, 3 Jun 2020

- □ NI4OS-Europe on-boarding procedure (10:00 11:30)
 - Overview of the on-boarding procedure (Dusan Vudragovic)
 - On-boarding of generic services (Petar Jovanovic)
 - On-boarding of thematic services (Boro Jakimovski)
 - On-boarding of repositories (Brina Klemencic)
- □ NI4OS-Europe resource management (13:00 14:30)
 - Resource catalogue and resource management (Kostas Koumantaros)
 - OpenAIRE integration steps (Antonis Lempesis)

Thursday, 4 Jun 2020

- NI4OS-Europe pre-production environment (10:00 − 12:00)
 - Overview of the pre-production environment (Anastas Mishev)
 - □ A&A component and integration guidelines (Nicolas Liampotis)
 - Monitoring component and integration guidelines (Themis Zamani)
 - Accounting component and integration guidelines (Emanouil Atanassov)

Overview of the on-boarding procedure

NI4OS training platform 03 Jun 2020

Dusan Vudragovic
Institute of Physics Belgrade



On-boarding in general



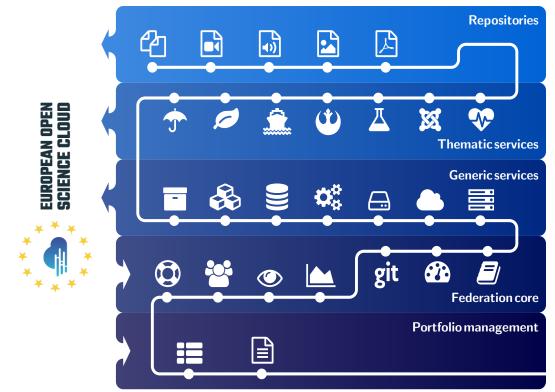
- Onboarding includes all practical activities taken to incorporate a research resource into the EOSC federation
- □ In general, NI4OS-Europe resource onboarding includes five main steps:
 - a request via a dedicated form project operational team will initiate the onboarding procedure for all resources and send the corresponding requests to the EOSC,
 - relevant information is gathered using a project-specific RDT,
 - □ a resource is integrated with the NI4OS-Europe pre-production environment,
 - □ a service is validated by tools from the NI4OS-Europe pre-production env.,
 - □ a service is published in the EOSC catalogue.



Services within the NI4OS-Europe project



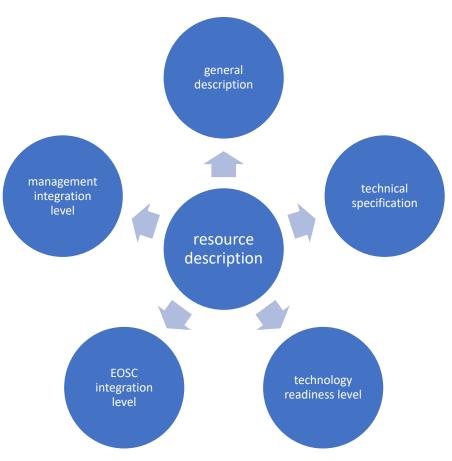
- □ Hierarchical organization of resources within the NI4OS-Europe project
 - □ Resource catalogue/portfolio that implements resource description template
 - Services form the pre-production environment (helpdesk, monitoring, etc.)
 - ☐ Generic services (HTC, HPC, PaaS, etc.)
 - Thematic services
 - Repositories (data, publication, code)



Different aspects of a resource description



- Non-EOSC-related aspects of resource description
 - General resource description common for all types of resources
 - □ Technical specifications of the resources unique for all types of resources
- EOSC-related aspects of resource description
 - □ Technology Readiness Level (TRL)
 - EOSC Integration Level (EIL)
 - Management Integration Level (MIL)
- Scientific impact of a particular resource



Technology Readiness Level (TRL)



- Assess a resource development stage
- □ From the on-boarding perspective, only high-level TRLs are of interest
- However, in our portfolio system, we will also collect and describe resources that are currently under development
- EOSC features and functionalities that could be integrated and reused in the early resource development stage

TRL 9	Actual system proven in operational environment (competitive manufacturing in the case of key enabling technologies; or in space).		
TRL 8	System complete and qualified.		
TRL 7	System prototype demonstration in operational environment.		
TRL 6	Technology demonstrated in relevant environment (industrially relevant environment in the case of key enabling technologies).		
TRL 5	Technology validated in relevant environment (industrially relevant environment in the case of key enabling technologies).		
TRL 4	Technology validated in lab.		
TRL 3	Experimental proof of concept.		
TRL 2	Technology concept formulated.		
TRL 1	Basic principles observed.		

EOSC Integration Level (EIL)



EIL9			
	Service Management Level > 8	☐ Service Management Level > 8	☐ Service Management Level > 8
EIL8	1 Service Management Level > 6	☐ Service Management Level > 6 ☐ Workflow production	☐ Service Management Level > 6
EIL7	Service Management Level > 3	☐ Service Management Level > 3 ☐ API production (APIP)	☐ Service Management Level > 3
	Accounting (ACC) Training resources (TR)	□ Accounting (ACC)□ Training resources (TR)□ Datasets production (PID)	☐ Accounting (ACC) ☐ Training resources (TR)
EIL5	Monitoring (MON)	☐ Monitoring (MON) ☐ Generic Service Integration (GSI)	☐ Monitoring (MON)
	Auth and Authz (AAI) PID for services (PID)	□ Auth and Authz (AAI) □ PID for services (PID) □ Code Repository (CR)	☐ Auth and Authz (AAI) ☐ PID for services (PID)
	Helpdesk (HD) Privacy policy (PP)	☐ Helpdesk (HD) ☐ Privacy policy (PP)	☐ Helpdesk (HD) ☐ Privacy policy (PP)
	Terms of Use (ToU) User manual (UM)	☐ Terms of Use (TOU) ☐ User manual (UM)	☐ Terms of Use (TOU) ☐ User manual (UM)
EIL1 -	Basic Service Description (BSD)	☐ Basic Service Description (BSD)	☐ Basic Service Description (BSD)

Management Integration Level (MIL)



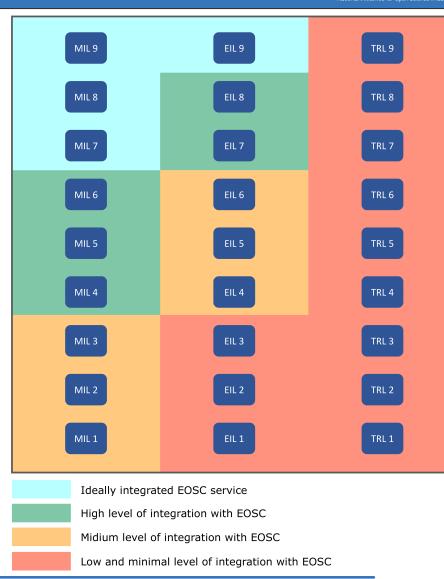
- □ Procedures and policies will ensure the practical implementation of various Rules of Participation
- □ Although resource management reflects the achieved EIL, it imposes some concrete obligations on the resource providers
- We have introduced nine different levels that the resource could reach in the integration with the project's resource management procedures and policies



Cumulative levels of integration



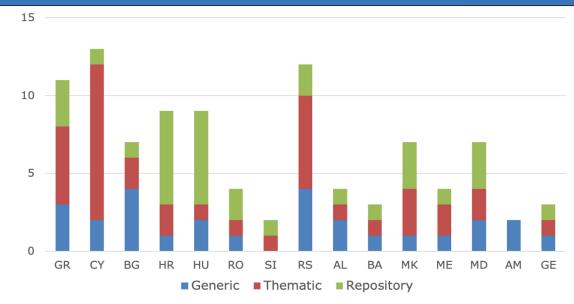
- □ Cumulative levels of integration with EOSC
 - Low and minimal level of integration with EOSC
 - Medium level of integration with EOSC
 - ☐ High level of integration with EOSC
 - □ Ideally integrated EOSC resource
- Should not be considered as a static set of rules, they reflect the current EOSC development stage and will evolve through time following the EOSC expansion
- EOSC-core resources have to evolve dynamically with the EOSC-Exchange layer

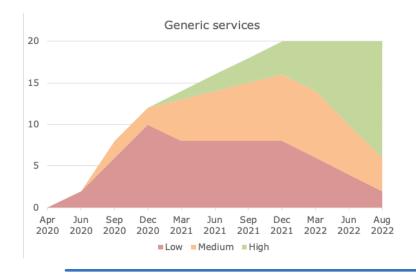


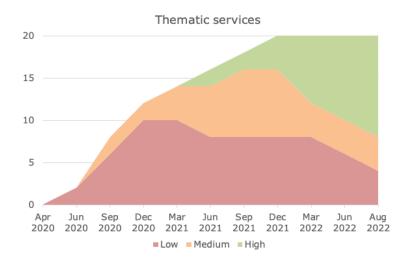
NI4OS-Europe services

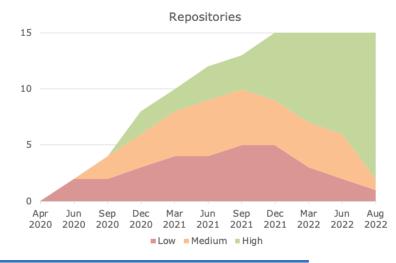


- □ At the moment, 97 resource descriptions collected
- On-boarding timeline









On-boarding related documents



■ Best practices for on-boarding and related policies (D3.1)

http://dx.doi.org/10.5281/zenodo.3736143

□ Provider landscape analysis and provider categorization (D5.1)

https://www.dropbox.com/s/s4wafh0o22u9txg/NI4OS-Europe-WP5-UKIM-008-D5.1-k-2020-05-13.docx?dl=0