

Practical alignment of e-Infrastructure services in a cross-border setup

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WP3 Lead

24 Participants

Iceland

- UNIVERSITY OF ICELAND

Norway

- NORDFORSK
- UNINETT SIGMA2 AS
- NORWEGIAN CENTER FOR RESEARCH DATA

Denmark

- DENMARK TECHNICAL UNIVERSITY
- UNIVERSITY OF SOUTHERN DENMARK
- DANISH NATIONAL ARCHIVES
- UNIVERSITY OF COPENHAGEN
- CAPITAL REGION OF DENMARK
- NORDUNET / AS

Netherlands
GoFair

Germany
DKRZ

Finland

- CSC – IT CENTER OF SCIENCE
- UNIVERSITY OF HELSINKI
- UNIVERSITY OF TAMPERE
- UNIVERSITY OF EASTERN FINLAND
- FINNISH METEOROLOGICAL INSTITUTE

Estonia

- UNIVERSITY OF TARTU
- NATIONAL INSTITUTE OF CHEMICAL PHYSICS AND BIOPHYSICS

Latvia

- RIGA TECHNICAL UNIVERSITY

Lithuania

- UNIVERSITY OF VILNIUS

Sweden

- UNIVERSITY OF UPPSALA
- SWEDISH RESEARCH COUNCIL
- UNIVERSITY OF GOTHENBURG

Preliminary work - NeIC Dellingr project

- NeIC Dellingr project (2017-2020) investigated cross-border collaboration opportunities and issues
- Dellingr project has been influential in designing EOSC-Nordic with most partners being also EOSC-Nordic partners (FI, DK, NO, SE, EE, IS)
- <https://wiki.neic.no/wiki/Dellingr>
- Accent on access for smaller scale HPC projects

Highlights of issues discovered in Dellingr

- Technical issues were generally solvable and were handled by service provider support.
- A major effort was spent on the aligning semantics and organizational aspects of services.
 - Access policies / required levels of assurance
 - VAT
 - Motivation for granting the access
 - Required attributes of the request to reduce overhead of follow-ups
- EOSC would hopefully provide standard solutions for such issues

INTEGRATION AND INTEROPERABILITY

OF PROSPECTIVE EOSC SERVICE PROVIDERS IN NORDIC AND BALTIC COUNTRIES

Integration

Identify existing Nordic generic and thematic service providers.

Support integration and discovery of their services via the EOSC portal

Interoperability

Foster organizational, semantic and technical interoperability of service providers.

Propose improvements of the interoperability approach within EOSC.

EOSC

Local/national services

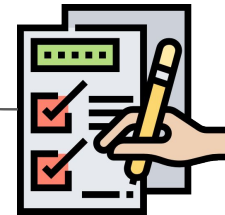
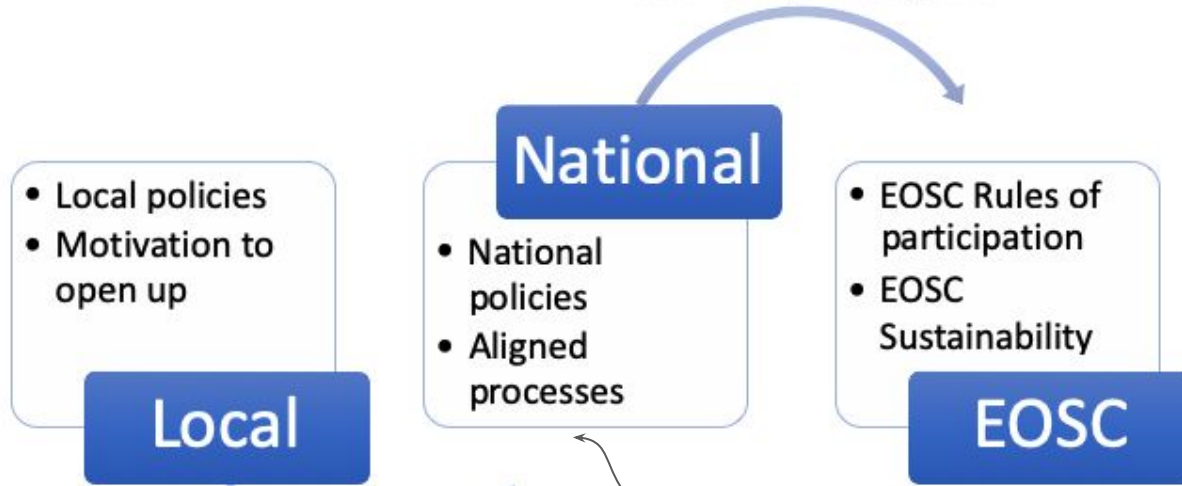


EOSC-Nordic accent is on increasing interoperability

- We aim at aligning the services and bringing them to a common level of maturity
- Mature services should be able to efficiently address resource consumption in a cross-border setup
- A tool of choice for evaluating the situation as well as providing actionable suggestions is a Maturity model
- The model along with the concrete examples of its application will be published during this month.

EOSC-Nordic approach to EOSC service publishing

Automated export
EOSC-Nordic/NeIC support

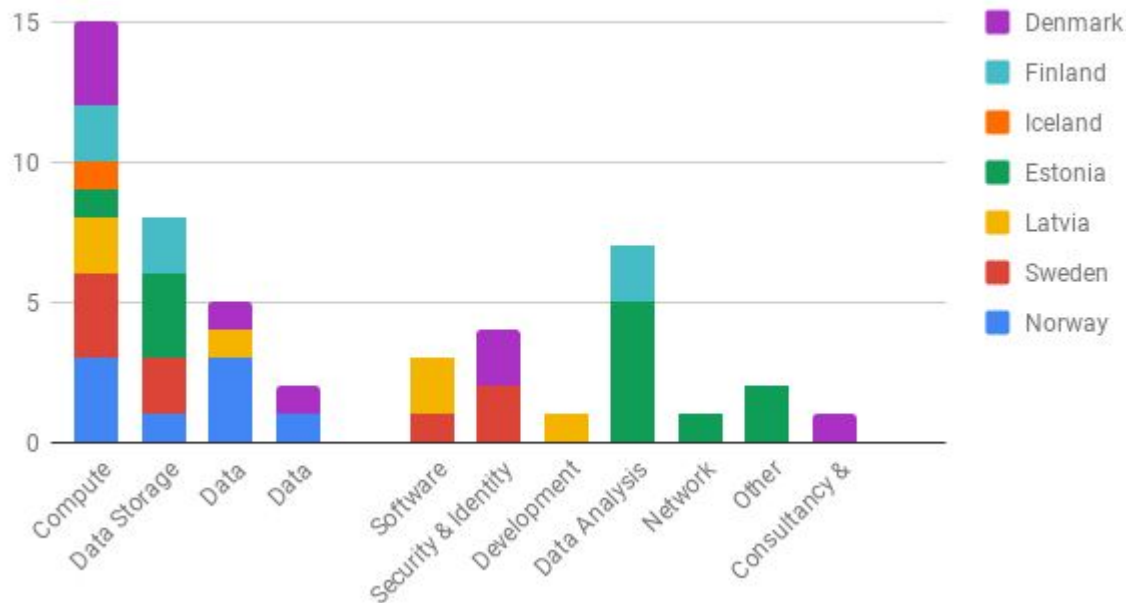


Maturity model

Coverage of analysis

Over 50 services analysed from all Nordic and Baltic countries

Service Category per Country



Minimal requirements for an EOSC service

1			Minimum	Intermediate	High		
2	1. Service management						Source:
3		S-1	X	X	X	Web address where more information about the service can be found is publicly available	FitSM: Service Portfolio Management Process
4		S-2	X	X	X	Contact address for end-users is publicly available	FitSM: Incident & Service Request Management Process, EOSC portal service requirements for providers
5		S-3	X	X	X	Contact address for security issues is publicly available	FitSM: Incident & Service Request Management Process
6		S-4	X	X	X	Service documentation for end users is publicly available	FitSM: Service Portfolio Management Process, EOSC portal service requirements for providers
7		S-5	X	X	X	Disaster recovery possibilities for research data are publicly described	FitSM: Incident & Service Request Management Process
8		S-6		X	X	Detailed service installation documentation exist.	
9		S-7		X	X	Automatic software upgrades have been implemented or there is an alternative policy/practice enabling rapid responses to software vulnerabilities	FitSM: Information Security Management
10		S-8		X	X	Service availability is monitored and availability information is publicly available for service users	FitSM: Service Level Management, FitSM: Service Availability & Continuity Management
11		S-9			X	Service level target is defined and it is publicly available	FitSM: Service Level Management
12		S-10			X	Service capacity is monitored	FitSM: Capacity Management

Service name:	UT Rocket			
Assessor:	Ahti Saar			
Date:	21.04.2020			
1. Service management			Result	
	S-1	Web address where more information about the service can be found is publicly available	Yes	▼
	S-2	Contact address for end-users is publicly available	Yes	▼
	S-3	Contact address for security issues is publicly available	Yes	▼
	S-4	Service documentation for end users is publicly available	Yes	▼
	S-5	Disaster recovery possibilities for research data are publicly described	No	▼
	S-6	Detailed service installation documentation exist.	Yes	▼
	S-7	Automatic software upgrades have been implemented or there is an alternative policy/practice enabling rapid responses to software vulnerabilities	Yes	▼
	S-8	Service availability is monitored and availability information is publicly available for service users	Yes	▼
	S-9	Service level target is defined and it is publicly available	No	▼
	S-10	Service capacity is monitored	Yes	▼
	S-11	Service capacity limits are known	Yes	▼
	S-12	Service usage metric is defined and followed	Yes	▼
	S-13	Information about maintenance breaks is publicly available	Yes	▼
	S-14	There is a document, that is used to ensure that the service behaves normally after implemented changes	Yes	▼

2. Data management and FAIR data requirements (research data repositories only)			
	D-1	Service provider has analyzed "FAIRness" of the service.	Unknown ▼
	D-2	Research data lifecycle is clearly publicly defined	Unknown ▼
3. Accessibility and legal requirements			
	L-1	The service is accessible by users outside its original community	Yes ▼
	L-2	Service usage from other EU countries is possible	Yes ▼
	L-3	Terms Of Use is available	Yes ▼
	L-4	IPR (immaterial rights) : * Licences, non-disclosure agreements, copyrights, database rights, are clear	Unknown ▼
	L-5	Limitation of liability in contracts and contract chains: * Damages has to be limited	Unknown ▼
	L-6	GDPR * GDPR status of a service has been clarified * If the service contains or processes personal data, GDPR implications have been identified * If the service contains or processes personal data, service fulfills GDPR requirements	Yes ▼

Next steps

- We are going to publish the model along with performed estimations very soon.
- We plan to release an updated version with a larger accent on cross-border interactions following the release of EOSC WG artefacts.
- It is our vision that in the longer run such maturity model would be replaced by the evolved Service Description Template.

Thank you!

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