EOSC-Nordic Policy Workshop

Collaboration on Data

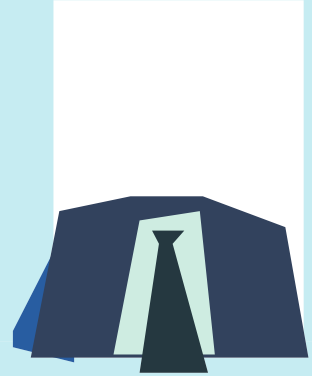*Lars Fischer, NORDUnet*

Data Focus

- During 2h 2019, EOSC focus has shifted to data
  - FAIR and Open Science
  - Sharing of research data, "the web of research data"
- In the high-level view, services secondary
  - Focus on Data Identifiers (PID), AAI, discovery
  - Focus on storage, access, archival
- However, services still show
  - In implementation
  - In the provider view

Vertical EOSC Projects – Big Science

- Discipline-oriented EOSC implementations
  - Pan-European research community focus
  - Astronomy, particle physics
- Existing communities
  - Generalisations of existing infrastructures
- Impact on Nordic ESFRIs
  - EISCAT, ESS, SKA
- For some communities, "EOSC already exist"
  - LHC, ELIXIR, …
- But what about the long tail, sensitive data, etc?

POLICIES, LEGAL ISSUES & SUSTAINABILITY
IN A CROSS-BORDER ENVIRONMENT

POLICIES AND PRINCIPLES

Identify & map the **open science policies** & resource provisioning principles applied in the Nordic and Baltic countries.

SERVICES & RESOURCES

Investigate **models, roles and responsibilities** for the coordinated provisioning and delivery of **EOSC services and resource**s at national level

LEGAL CHALLENGES

Identify current and potential **legal hurdles** associated with the sharing of data and resources across national borders. Suggest solutions.
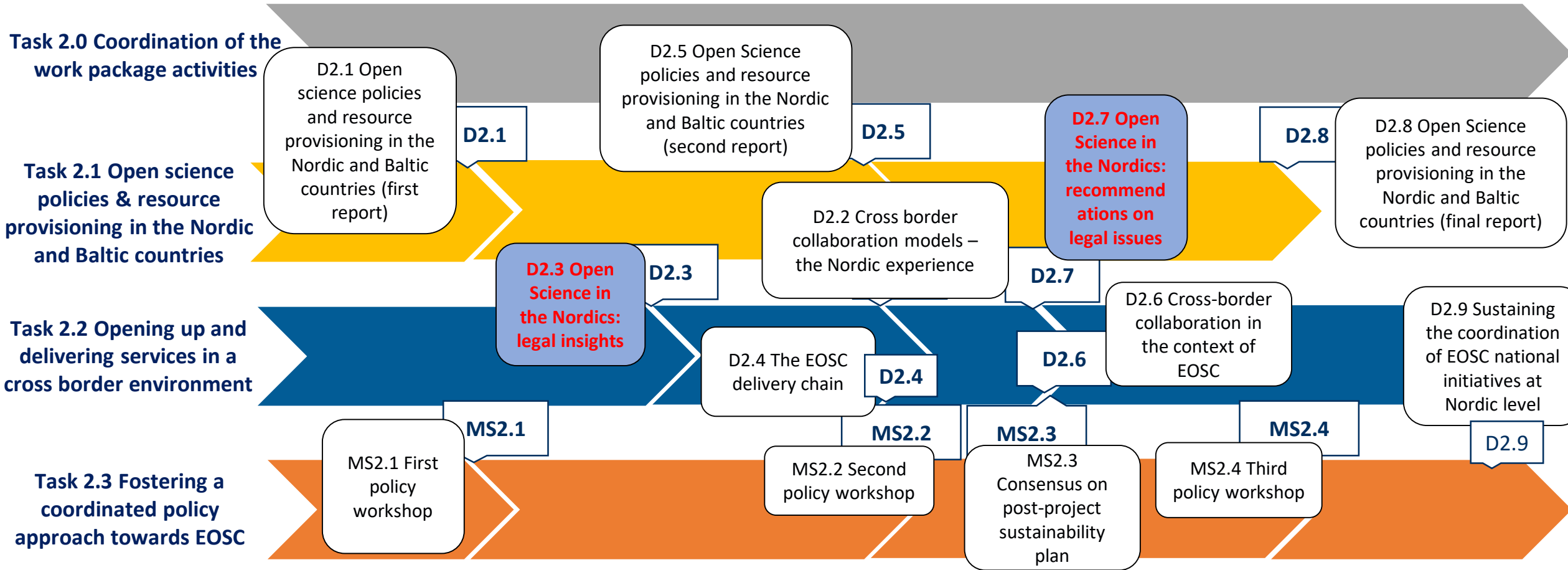
COORDINATE AND ALIGN

Discuss and coordinate policy activities, and advise on directions the national initiatives should take to align with relevant EOSC policies.

WP2 Task 2

- Partners,
  - Lead: NORDUnet
  - Participants: SNIC, CSC, SIGMA2, UH, UT/ETAIS, DeiC, UICE, RTU, VU

- T2.2.1 *Assessment of cross-border collaboration models*
  - NORDUnet CSC, UT/ETAIS, SNIC

- **T2.2.2 *Legal issues***
  - **UH, SIGMA2, SNIC, UT/ETAIS, DeiC, UICE, RTU, VU**

- T2.2.3 *Roles and responsibilities in the overall EOSC delivery chain*
  - NORDUnet, CSC, UT/ETAIS, SNIC

Cross Border Collaboration

M6   M12   M18   M24   M30   M36

Task 2.0 Coordination of the work package activities

Task 2.1 Open science policies & resource provisioning in the Nordic and Baltic countries

D2.1 Open science policies and resource provisioning in the Nordic and Baltic countries (first report)

D2.1

D2.5 Open Science policies and resource provisioning in the Nordic and Baltic countries (second report)

D2.5

D2.7 Open Science in the Nordics: recommendations on legal issues

D2.8

D2.8 Open Science policies and resource provisioning in the Nordic and Baltic countries (final report)

D2.2 Cross border collaboration models – the Nordic experience

D2.3 Open Science in the Nordics: legal insights

D2.3

D2.7

D2.6 Cross-border collaboration in the context of EOSC

Task 2.2 Opening up and delivering services in a cross border environment

D2.4 The EOSC delivery chain

D2.4

D2.6

D2.9 Sustaining the coordination of EOSC national initiatives at Nordic level

D2.9

MS2.1

MS2.2

MS2.3

MS2.4

Task 2.3 Fostering a coordinated policy approach towards EOSC

MS2.1 First policy workshop

MS2.2 Second policy workshop

MS2.3 Consensus on post-project sustainability plan

MS2.4 Third policy workshop

Legal Matter Deliverables

- D2.3 Open Science in the Nordics: legal insights
  - August 2020
  - Assess the legal frameworks in the Nordic and Baltic countries with regard to the implementation of EOSC standards and policies. The sharing and safe processing of both open and "restricted" data from across borders will be in scope

- D2.7 Open Science in the Nordics: recommendations on legal issues
  - August 2021
  - Provide recommendations with regard to the implementation of EOSC standards and policies in the Nordics

Data Sharing at Work

- The Large Hadron Collider (LHC)
  - Global community of high ernergy physics researchers
  - Active and committed Nordic collaboration
  - National, regional, and global formal agreements on resource and data
- Sharing by Necessity
  - Instruments outgrow national budgets.
  - Examples: ESS, EISCAT, telescopes
  - Has fostered a tradition of data sharing
- The role of cross-border consortia
  - Access to national data through national partner(s)
  - Agreements on access rights, publication credits
  - National commitments, Mutual benefits
- Research Consortia have a very important role to play

Sensitive Data

- Nordforsk effort in medical data sharing
  - Ongoing for 5-6 years
  - Report on "The Nordic Commons"
  - Based on request from "Embedmandskommiteen for helse"
  - Much policy work remains – long-term effort
- Offer a solid stating point for EOSC-Nordic legal analysis
  - Combined with EOSC-Nordic pilots
  - EOSC-Nordic will offer analysis based on cases identified in EOSC Nordic pilots and elsewhere
  - Focus on current experience
  - Will complement long-term policy effort
- Big challenge er non-science repository owners
  - What's in it for me
  - Mix of national and cross-border issues

A VISION OF A NORDIC SECURE
DIGITAL INFRASTRUCTURE
FOR HEALTH DATA:
THE NORDIC COMMONS

NordForsk

Encouraging Data Collaboration

- Sharing is not free
  - Data format standards, meta data
  - Effort may be on data owners who do no benefit from collaboration
  - "What's in it for me"
- Barriers
  - Funding & time
  - Distance – cross-border is harder than local
  - Legal issues – privacy experienced as a deterrent.
- Sometimes data is a currency for getting access to collaborations

Analysis from Use-cases

- EOSC-Nordic is identifying use cases
  - For understanding data collaboration scenarios
  - For analysis of data sharing challenges
  - For documentation of potential solutions used in practice

- Collaboration with EOSC Projects, Nordforsk
  - Sensitive Data, data-driven research, opening repositories

- Partner use cases
  - Data-driven community collaborations
  - Examples of attempted collaboration on sensitive data

Scoping – Legal Issues

- Current scoping activity
  - Assess types of legal questions that are most important for EOSC, for data sharing, and for Nordic Collaboration
  - Assess existing cases useful for documenting opportunities and challenges

- Questions
  - Focus on sensitive data, or all data collaboration?
  - Focus on privacy and protection of personal data?
  - Include intellectual property rights (IPR)
  - Include national funding rules and policies?
  - …

Scoping – Why is it Important?

- Policy and Legal Issues is far reaching
  - Large body of background material
  - Risk of loss of focus
  - Focus on the topics of critical importance for data sharing
  - Focus on the topics where policy discussions are ongoing (i.e., where there is impacts)

- In the end, we should give tangible recommendations
  - Based on national and Nordic experience
  - Identify practices that can be reused and replicated across fields
  - Identify specific issues that must be addressed by policy change