

EOOSC in the NORDICs

DeiC Conference, November 3, 2021

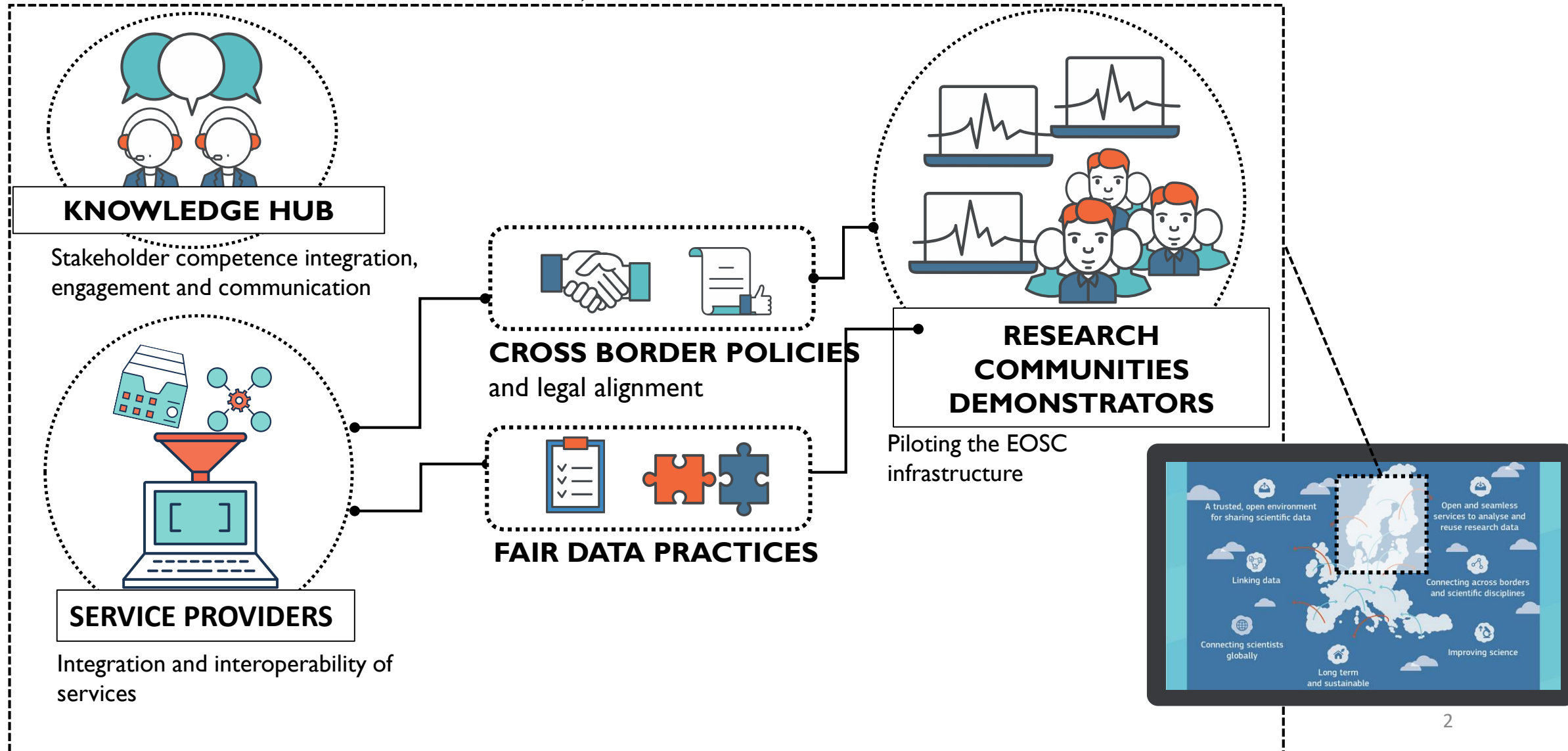
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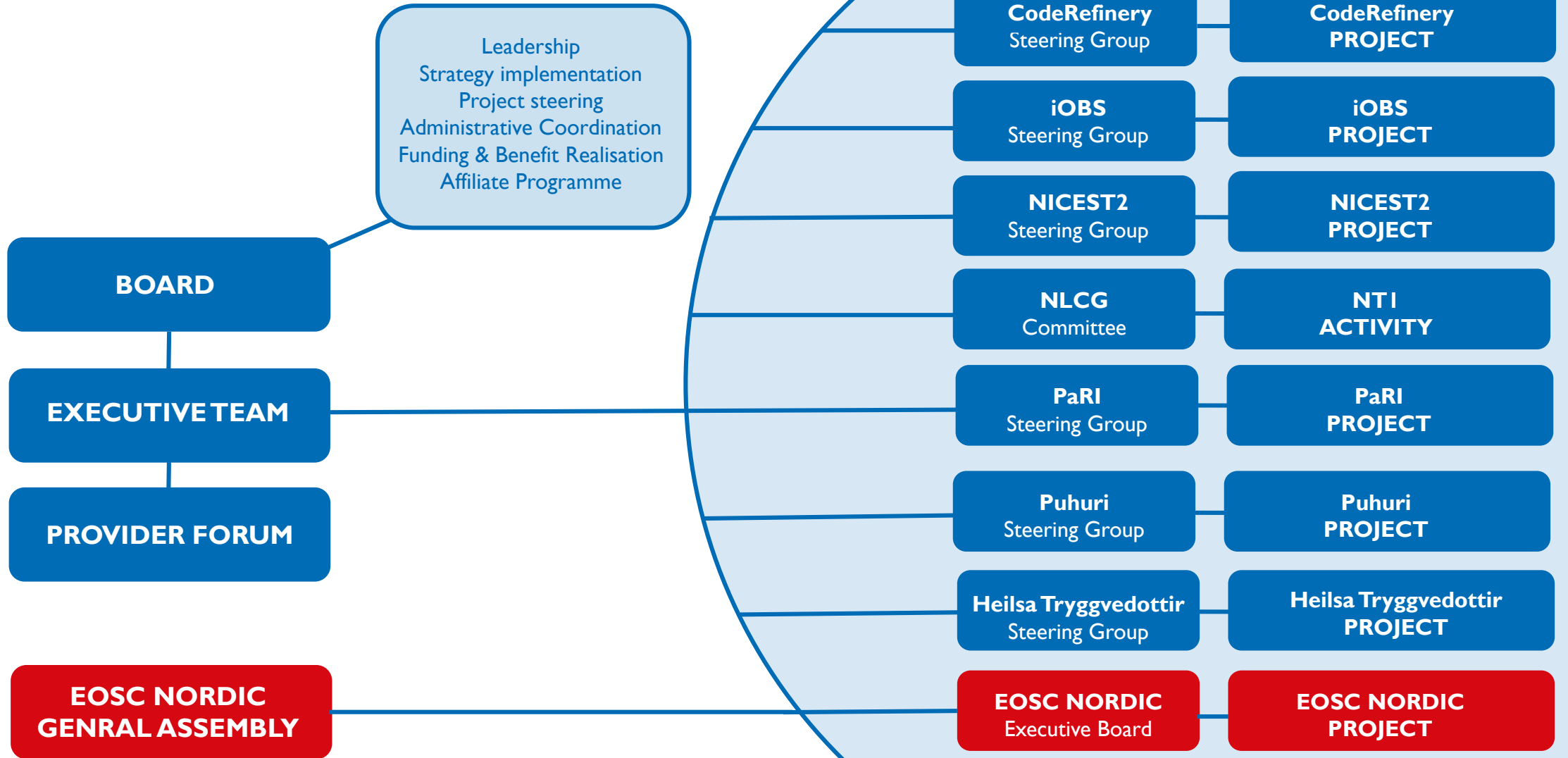


EOOSC-Nordic project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 857652

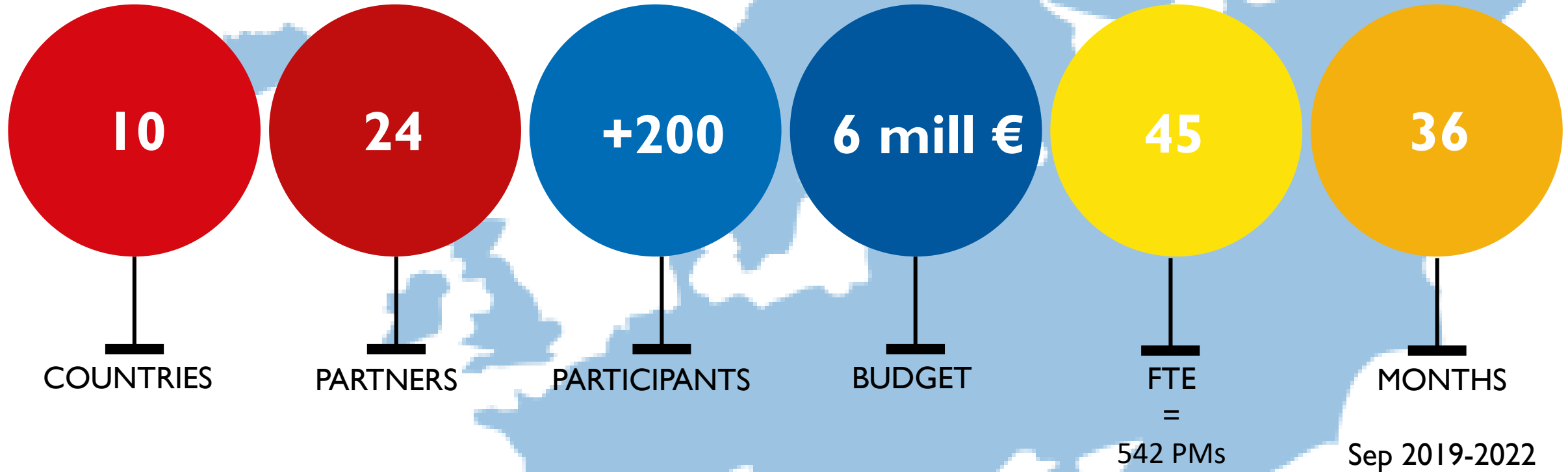
EOSC & THE NORDIC MISSION:

TO ESTABLISH THE NORDIC AND BALTIC COUNTRIES AS FRONTRUNNERS IN THE TAKE-UP OF THE EOSC CONCEPT, PRINCIPLES AND APPROACH.





EOSC-NORDIC IN NUMBERS





OBJECTIVE 1

POLICIES: Support coordination and alignment on national policies for service provision



OBJECTIVE 5

KNOWLEDGE HUB: Offer training and technical support to service providers and users



OBJECTIVE 2



SERVICES: Increase discoverability of services and make them accessible through EOSC portal

OBJECTIVE 3



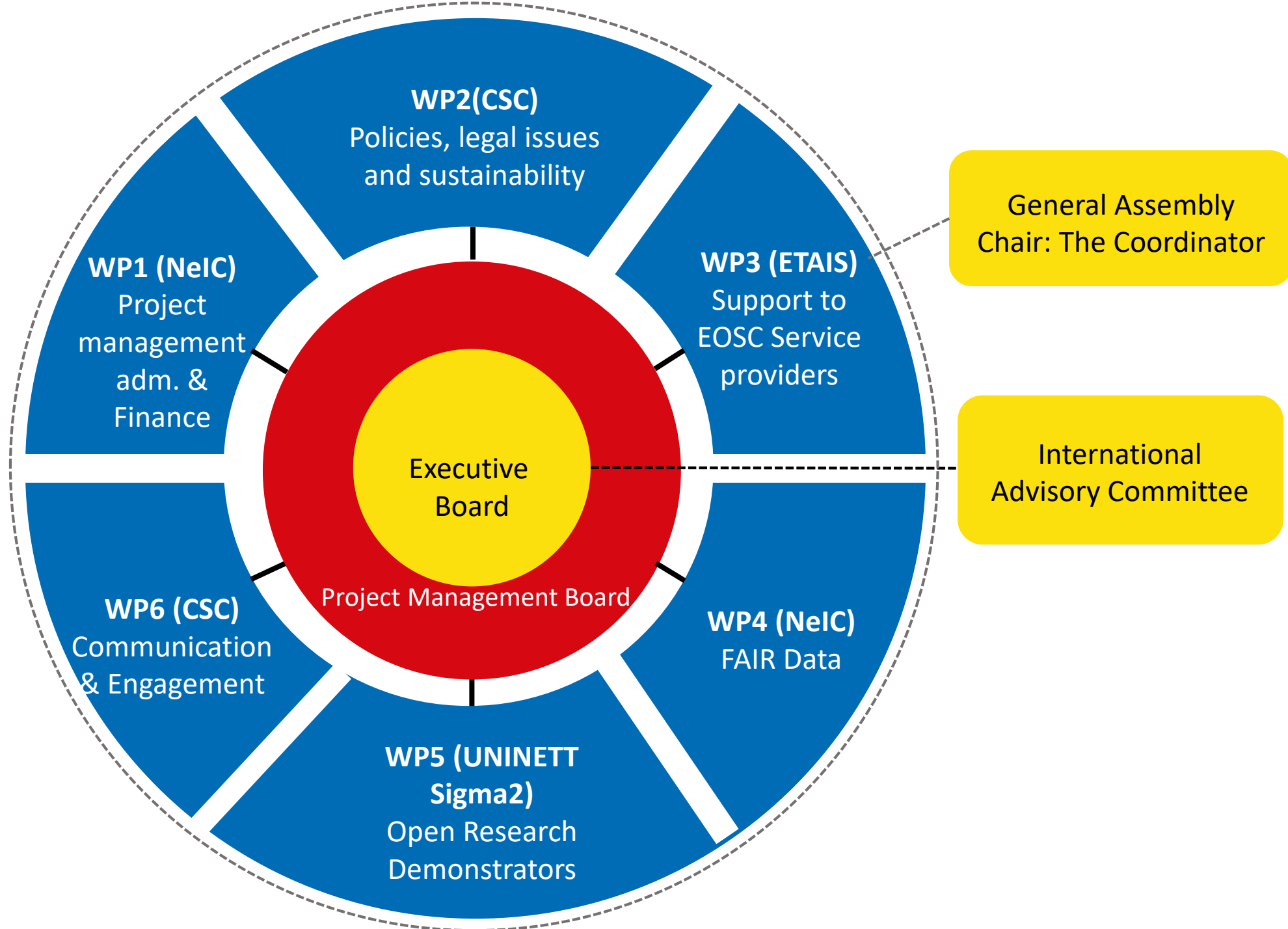
FAIR: Promote FAIR data practises

OBJECTIVE 4



DEMONSTRATORS: Innovative solutions that work cross-border, developed in our 8-country testbed

PROJECT ORGANISATION



MIDTERM PROJECT HIGHLIGHTS

Policy

- Nordic Open Science Charter Landscape
- Bridging policy and infrastructure stakeholders
- Nordic cross-border EOSC service delivery chains

Services

- Nordic EOSC service compliance & maturity checklist
- Nordic EOSC service interoperability framework

FAIR

- Machine readable FAIR maturity model
- Certification & FAIR support to research communities
- FAIR assessment of datasets
- Increasing trends in the Nordic FAIR scores are observed

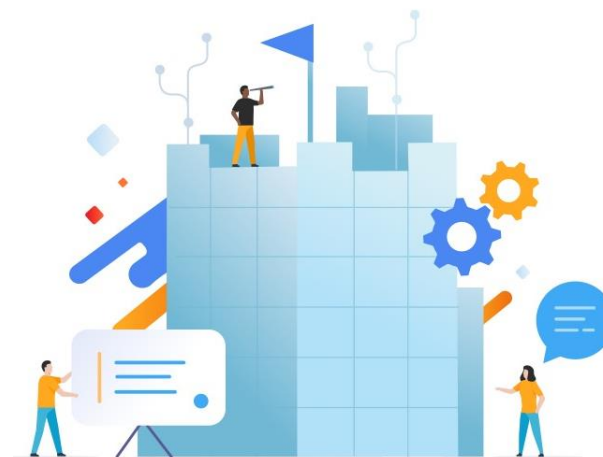
Demonstrators

- Successful integration of community portals with cross border computing
- Research interdisciplinary e-Infrastructure training
- Nordic Health Cloud architecture(s) ready for PoC

Community engagement

- EOSC-Nordic stakeholder mapping

EOSC-Nordic Knowledge Hub launched



EOSC NORDIC INTERLINKING COLLABORATORS

PAN-EUROPEAN COLLABORATORS:

- **FAIRsFAIR**
- **ExPaNDs** (Cluster)
- **EOSC Secretariat**
- **INFRA EOSC:** Cross Project Collaboration Board
- **INFRA EOSC TASKFORCES:**
 - Landscaping
 - FAIR data & Infrastructures
 - Service on-boarding
 - National policies & governance
 - Training & Skills
 - Dissemination & Events
- **EOSC-LIFE** (13 ESFRIs)
- **CESSDA** (ESFRI)
- **SSHOC** (ESFRI)
- **ARIADNE** (ESFRI)
- **OpenAire**
- **EOSC Hub**
- **EUDAT**
- **EOSC Enhance**
- **EOSC Future**
- **EOSC Executive Board**
- Working Groups
- **EOSC Association**
- **EOSC NRENs**
- **e-IRG**
- **EOSC co-creation projects** on FAIR topics



NEIC PROJECTS:

- **NeIC Puhuri:** User access to the Nordic EuroHPC facility (LUMI)
- **NeIC NICEST:** Climate research infrastructure
- **NeIC Pandemic Research Infrastructure**
- **NeIC Heilsa Tryggvedottir:** Nordic Health Cloud
- **NeIC Nordic Language Processing Laboratory:** Digital Humanities

INFRA EOSC 5 PROJECTS:

- **NI4OS Europe**
- **EOSC Pillar**
- **EOSC Synergy**

INTERNATIONAL COLLABORATORS:

- **RDA**
- **The EOSC-Nordic International Advisory Committee**



IMPACT EOSC NORDIC

+100

**RESEARCH
DATA
REPOSITORIES**

has had a FAIR
maturity
assessment

+300

**PEOPLE
TRAINED**

within the
EOSC-Nordic
frame

10

**EARLY EOSC
ADOPTERS**

in place

+200.000

**NORDIC
RECORDS
HARVESTED**

via the B2Find
service and into
the EOSC meta
data catalogue

+60

**EOSC NORDIC
REPRESENTATIONS**

+26.000

PAGE VIEWS

EOSC-Nordic
website:
www.eosc-nordic.eu

+150

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EOSC Nordic Key Exploitable Results (KER)

- impact at EU level

Contributing to the EOSC developments



KER 1 - Nordic Interoperability framework: Analysis and development of interoperability guidelines for service providers.

KER 2 - Service compliance checklist & maturity model to quickly validate if a service is fit for EOSC

KER 3 - FAIR assessment model: Semi-automated assessment of FAIR uptake for repositories and datasets

KER 4: Best practices/ Recommendations on policies, legal issues, cross-border collaborations and business models

Enriching the EOSC offering



KER 5: "X" services onboarded on the EOSC Portal

EOSC Nordic KERs (impact at regional level)

Improving EOSC alignment and coordination



KER 6: EOSC alignment activities: mapping the open science policies; identifying legal issues; advising on EOSC impact at national level; exchanging best practices

Increasing EOSC awareness



KER 10: eosc-nordic.eu
(incl. Knowledge Hub)

**KER 11: EOSC Nordic
community**

Enabling EOSC uptake & increasing FAIR skills



KER 7: Regional EOSC onboarding platform:
integration and on-boarding of regional providers

KER 8: Support for FAIR practices adoption in the region: FAIR data repository support on CoreTrustSeal certification and FAIR implementation.

KER 9: X FAIR data stewards trained in the region: FAIR data repository support on CoreTrustSeal certification and FAIR implementation.

EOSC Nordic KERs

-Impact at at organisational /community level

Increasing discoverability of services in EOSC



KER 5: “X” services onboarded on the EOSC Portal

Improving organisational workflows



KER 12: Machine actionable DMPs:
Alignment of the DMPs that are being used by unis with the machine actionable DMP schema to make them machine actionable

Enabling cross-border service provision



KER 13: Nordic/Baltic X-Road prototype a solution deployed in EE and FI for secure data exchange across organisations, mainly used for exposing government registries to their users from public and private sector

KER 14: PoC for the sensitive data architecture for the eHealth Cloud

Enabling cross-disciplinary research



KER 15: Lifescience technologies and standards adopted by earth science community: Climate scientists and ecologists from all over the world can collaborate together

Key Exploitable Results Overview



- Guidelines & models contributing to the EOSC developments
→ *IF, service compliance checklist & maturity model, FAIR assessment model*



- New services & tools (mainly results of the demonstrators) → *machine actionable DMPs, X Road prototype, PoC for the sensitive data architecture for health cloud, lifescience toolkit for earth science*



- EOSC alignment & coordination in the region



- Support activities incl. training → *FAIR adoption/data stewards, regional onboarding platform*



- EOSC awareness



How do we approach sustainability after the end of the project?

Different sustainability pathways

Extra funding required

New funds to support the activity after the project:

- NeIC support
- New HE or national/regional opportunities

Adoption by specific organisation

Exploitation of the results is up to individual organisations/partners/communities

Legacy / Hand over

Hand over of the asset to other initiatives/projects/EOSC ecosystem

KERs & sustainability pathways

Extra funding required

Adoption by specific organisation

Legacy / Hand over



- Discussion started with NeIC



- Research communities involved in the demonstrators
- Service Providers
- Other regional funding



- EOSC Association
- EOSC Steering Board
- EOSC A Task Forces
- EOSC Future



- NeIC
- FAIRsFAIR project
- New HE projects (fx EOSC Future, 01-01, 01-03, 01-05...etc)

Nordic Members of EOSC Association

- **Denmark:** NORDUnet, DeiC/DTU
- Norway: Uninett, CESSDA
- Finland: CSC, EUDAT, European Mathematical Society
- Sweden: Chalmers, Karolinska, Gothenburg University, Uppsala University, Stockholm University, Umeå University, Formas, Swedish Research Council
- Estonia: ETAIS/UT

Nordic EOSC-A Task Force Engagement (current status)

1.1 PID policy – 23 members

1.2 Engagement – 38 members

1.3 RoP – 23 members

2.1 FAIR metrics – 25 members

2.2 Semantic interop – 44 members

3.1 Stewardship – 25 members

3.2 Recognition – 27 members

3.3 Upskilling – 26 members

4.1 Funding – 30 members

4.2 Preservation – 37 members

5.1 AAI – 35 members

5.2 Software – 41 members

5.3 Technical interop – 67 members

- Denmark: 7
- Finland: 14
- Norway: 4
- Sweden: 19
- Estonia: 1
- Members associated with EOSC-Nordic: 8

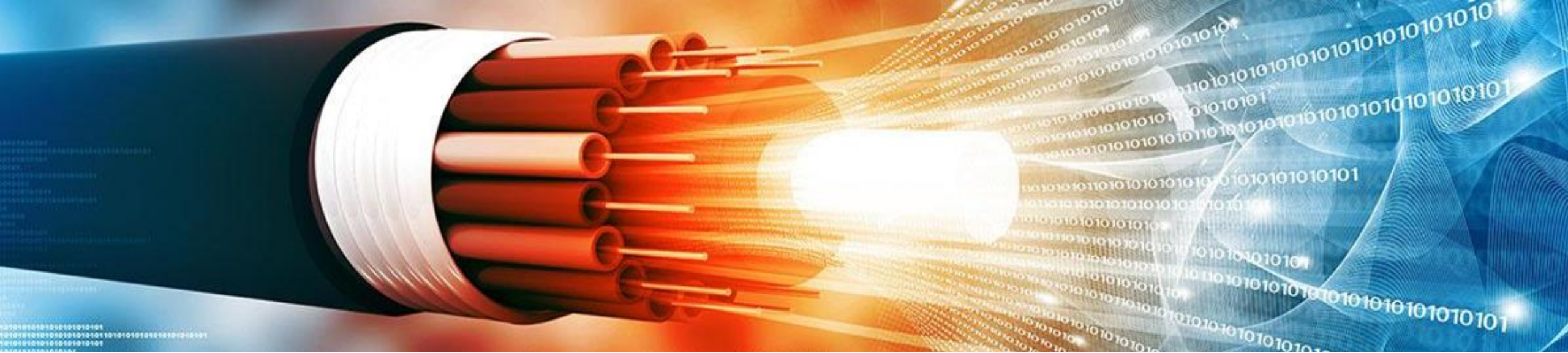
Conclusions

- We are to few members in the EOSC Association from Nordic countries to really influence in the building of EOSC (16/196)
- We have some influence by the Nordic members in the taskforces (45/545)
- The Nordic countries should work together to get a stronger voice
 - EOSC-Nordic is a good network to start from
- EOSC- Nordic is connecting to EOSC Association to discuss the project result that could be useful for the future work with EOSC

Conclusions

- Different paths for sustainability depending on the result and its role in the EOSC implementation
- The sustainability of some KERs requires extra funding. Adoption does not always come “for free”
- Hand over of activities/tools will require dialogue and agreements with ongoing and upcoming initiatives and the EOSC Partnership beyond the Nordic region

We have 10 months to make the best of it!



www.eosc-nordic.eu

Save the dates for the final
EOSC-Nordic Policy Workshop:
@NeIC2022 conf: May 30 – June 2nd, 2022
Oslo, Norway



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