

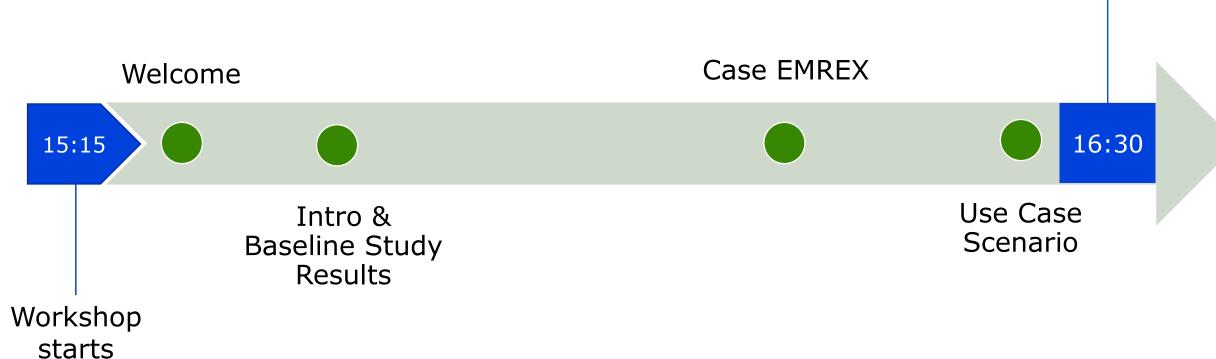
WORKSHOP Studying in another Nordic-Baltic Country

30th November - DAY 1



Welcome to DAY 1 Workshop!

Agenda:



Workshop

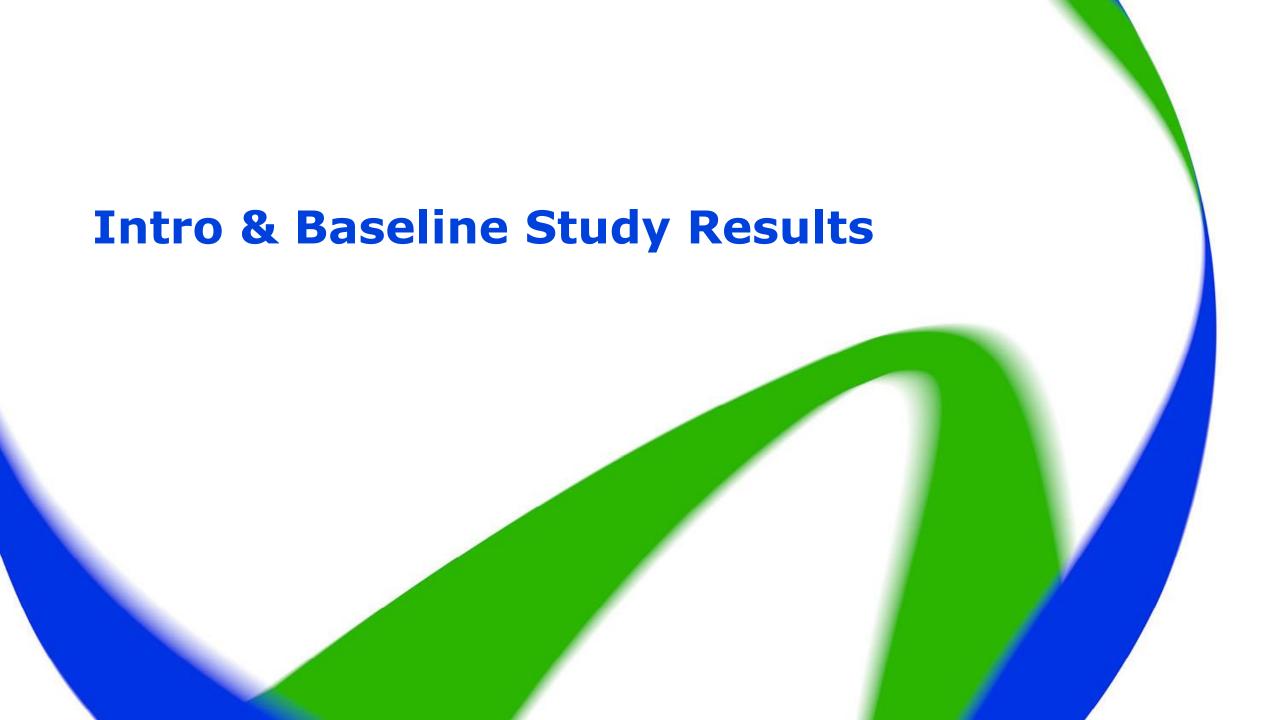
Day 1

ends

Workshop Goals

- Discuss the baseline study findings
- Build a common understanding of the use case scenario
- Start a concrete collaboration between Nordic and Baltic partners







Studying in another Nordic-Baltic Country*

Riikka Rissanen, Project Manager & Petteri Pulli, Adviser Finnish National Agency for Education

PROJECT INTRODUCTION

* also known as *Improved cross-border digital services for studying abroad* in the Nordic and Baltic Countries (CBDS-Study)



Vision

"The Nordic region will become the most sustainable and integrated region in the world in 2030."

The Nordic Prime Ministers,
 The Ministers for Nordic Co-operation

"The world's smoothest cross-border mobility and daily life through digitalisation."

- Finland's Presidency Project



The Studying in another Nordic-Baltic Country project aims during 2021-2024:

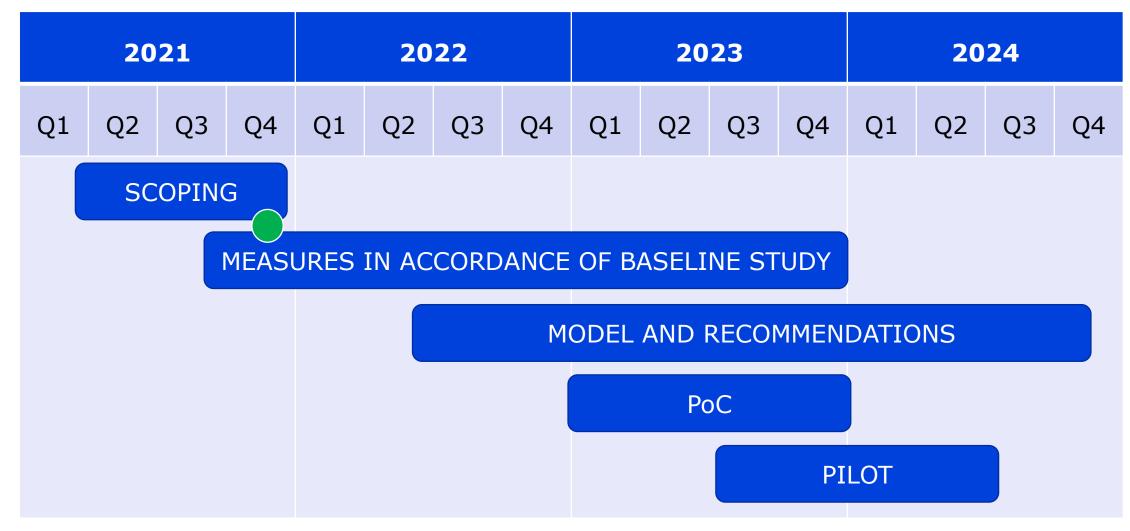
- To identify obstacles and create recommendations in the context of student data exchange
- To build a Proof of Concept and conduct a pilot solution
- To expand the existing networks, e.g. EMREX



Goal State & OFF-SCOPE: Production use Cutover Scope **End-user Training** Refine baseline Goal State 1 **Best** study practices results Goal State 2 П Recognise **barriers** through **Established** EIF* Use case cooperation structure and pilot **Create** practices proposals for action items **Identify** and engage key actors **PoC** (Proof-of-*European Interoperability Concept) **Framework**

08/12/2021 Finnish National Agency for Education

Project Timeline



Partners and Funding

The Studying in another Nordic-Baltic Country Project is administered by Finnish National Agency for Education in Finland and funded by The Nordic Council of Ministers.



The project partners are:

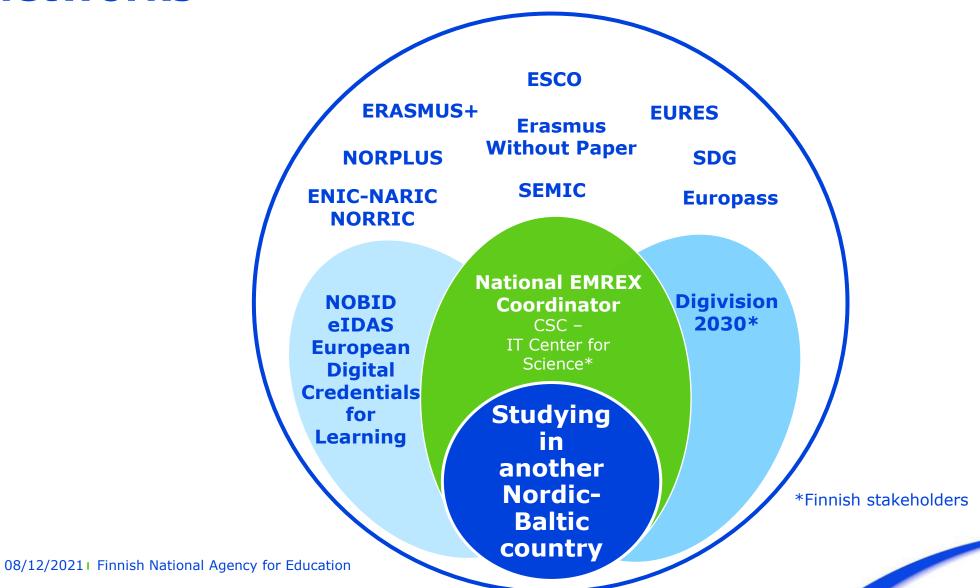
- Denmark
- Estonia
- Faroe Islands
- Finland
- Greenland
- Iceland

- Latvia
- Lithuania
- Norway
- Sweden
- Åland Islands



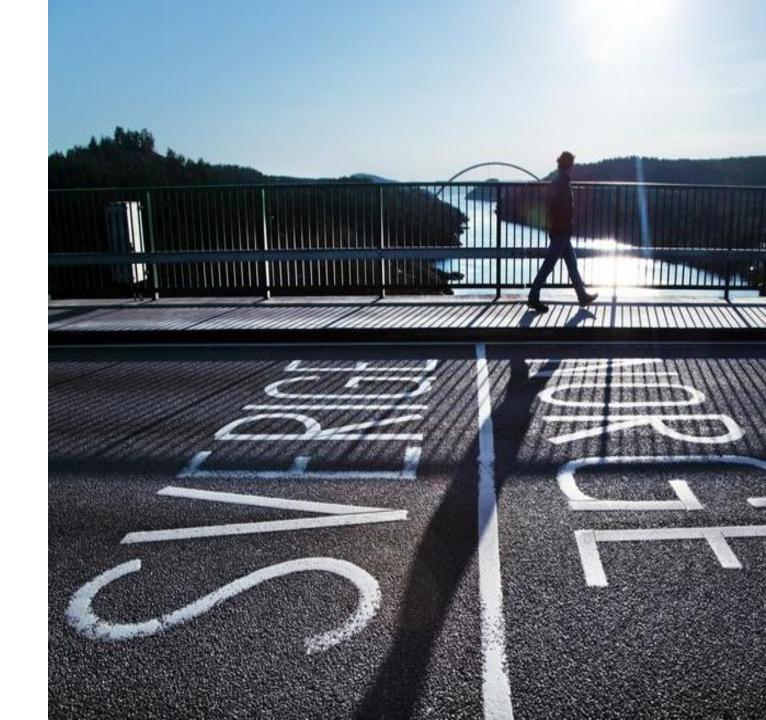


Stakeholders and other related programmes & networks



"Student data flows with a person whenever wanted and it is always accessible."

Studying in anotherNordic-Baltic Country





The baseline study answeres to the following questions:

- 1. How the management of study records is organised in each country in scope?
- 2. Does digital cross-border exchange of study records exist between the countries in scope?
 - a. In what extent and between which countries?
 - b. How is the data exchanged?
- 3. What are the semantic, technical, organisational, and legal challenges in cross-border interoperability and digital exchange of study records?









Legal

Organizational interoperability refers to the way in which public administrations align their business processes, responsibilities and expectations to achieve commonly agreed and mutually beneficial goals

Technical interoperability factors cover the applications and infrastructures linking systems and services

Semantic interoperability ensures that the precise format and meaning of exchanged data and information is preserved and understood throughout exchanges between parties

Legal interoperability is about ensuring that organizations operating under different legal frameworks, policies and strategies are able to work together

Factors slowing, constraining, or preventing cross-border data access and exchange

- Differences in school systems between countries
- Motivation for change and willingness to put money and effort into joint solutions varies between countries
- Existing and outdated organizational processes and structures in countries do not support automated solutions cross-border data exchange
- Autonomous information management inside countries, responsibility is spread and uncertain

- Different levels of digital maturity
- Different systems, data models. formats, solutions, database structures
- Digital data does not exist or is not in machine-readable format
- No technical knowledge

- Lack of understanding other Nordic and Baltic languages
- Lack of translations
- Lack of shared vocabulary
- Lack of agreed formats and standards
- Lack of descriptive data
- Different concepts and meanings

- Regulations that limit data transfer
- Regulations that define ownership of the data
- Need for changes in legislations
- Different recognition of qualifications



Country/Region	Machine- readable data (Upper Secondary)	Machine- readable data (HEI)	Descriptive information in English (Upper Secondary)	Descriptive information in English (HEI)
Denmark	Yes	Unclear	No	Yes
Estonia	Yes	Yes	No	Yes
Faroe Islands	Unclear	Unclear	Unclear	Yes
Finland	Yes	Yes	No	Partially
Greenland	Unclear	Unclear	No	Unclear
Iceland	Yes	No	No	Yes
Latvia	Yes	Partially	No	Partially
Lithuania	Yes	Yes	Partially	Partially
Norway	Yes	Yes	Partially	Yes
Sweden	Yes	Yes	Partially	Yes
Åland	Yes	Yes	No	No









EMREX transfers

Max Laihonen / CSC – IT Centre for Science Ltd



CSC

What is EMREX?

- EMREX is a decentraliced system used for transferring study credits internationally.
- Data providers in The Netherlands, Greece, Croatia, Norway, Poland, Sweden, Germany and Finland.
- Utilizes the <u>ELMO XML schema</u>
- (Three) system components: EMREX Client EMC, Data access point EMP, (and EMREG)
 - o EMC: Application that allows students to fetch their results from EMP. Often integrated into result services, like student information system.
 - EMP: Data provider. System that has access to student information database and provides the information for EMC.
 - o (EMREG: Centralized system that provides a list of EMPs for EMCs. Will be merged into EWP Registry service XML.)



Usage measured from data access point

Overview 2020

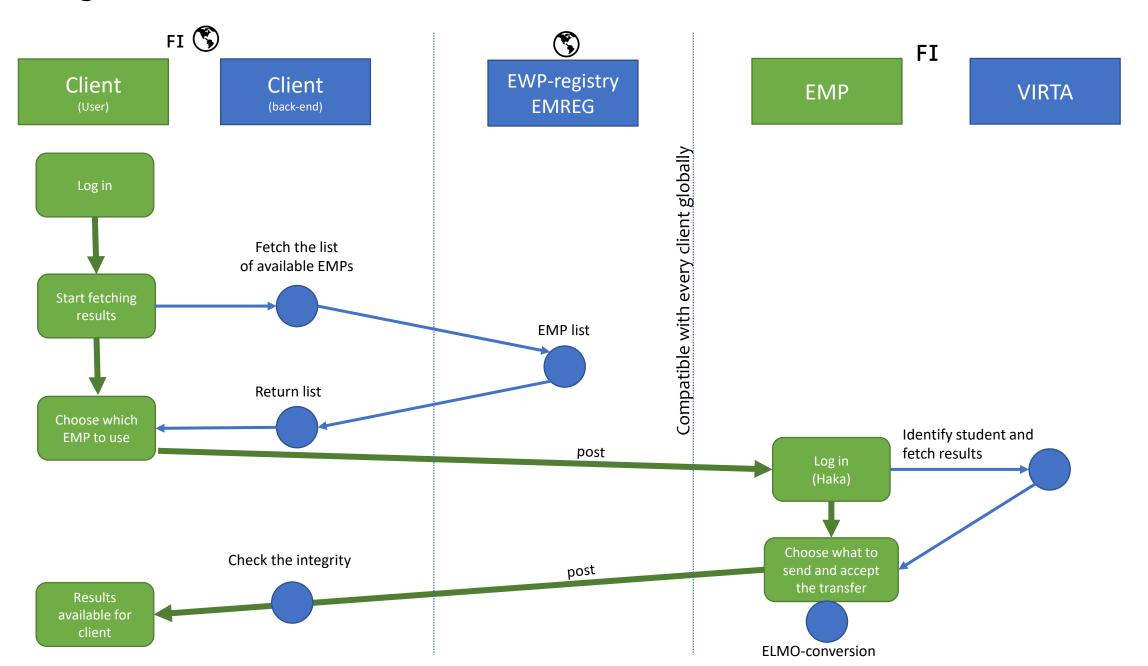
	CRO	NL	NO	PL	SE	Total
Number of connections	2358	479	57242	90	1387	61556
Change from 2019	93%	1228%	199%	74%	205%	192%



Example: EMREX EMP in Finland

- Finnish EMP uses the national <u>VIRTA student information database</u> to provide the information. VIRTA updates regularly (~ daily) from Finnish HEIs.
- Student is in control of their data. They see everything that will be transferred and approve it themselves.
- Most data users will be Finnish HEIs, but usage is not limited/approved in any other way than by the student themself.

Using the Finnish EMP





Emrex Test Service requires authentication. Required personal data is transferred automatically to the service after authentication.

HAAGA-HELIA University of Applied Sciences

Remember selection for this web browser session.





Login to Emrex National Contact Point

Username
Password
☐ Don't Remember Login
☐ Clear prior granting of permission
for release of your information to this
service.
Login

- > Need Help?
- > Privacy Statement

Emrex National Contact Point



Curcx

Finnish National Contact Point

Kaisa Keränen | Logout Suomeksi | På svenska

2 courses selected (10 credits)

Send chosen credits

□ Name	Credits	Organization	Evaluation	Registration date
□ Terveydenhoitaja (AMK)	240	Centria-ammattikorkeakoulu		2018-05-31
Asiakaslähtöinen hoitotyö	5	Centria-ammattikorkeakoulu	3	2015-04-17
Asiakkuusosaaminen hoitotyössä	5	Centria-ammattikorkeakoulu	3	2017-05-08
□ Avopalvelu hoitotyö	10	Centria-ammattikorkeakoulu	3	2017-05-29
✓ Harjoittelu hoitotyö	5	Centria-ammattikorkeakoulu	HYV	2014-11-18
☐ Harjoittelu hoitotyön perusteet	10	Centria-ammattikorkeakoulu	HYV	2015-03-30
☐ Harjoittelu ikääntyneiden hoitotyö	10	Centria-ammattikorkeakoulu	HYV	2016-11-21





Finnish National Contact Point

♣ Kaisa Keränen | Logout Suomeksi | På svenska



Personal information:

Given names: Kaisa Barbara

Family name: Keränen

Personal Identity Code: 180766-2213

National Learner ID: 1.2.246.562.24.17488477125

post

Day of Birth: 18.07.1966

Gender: Female

Exportable achievements:

1 degree, 2 modules, 39 courses = 240 credits

Name		Organization	Evaluation	Registration date
Terveydenhoitaja (AMK)		Centria-ammattikorkeakoulu		2018-05-31
Asiakaslähtöinen hoitotyö	5	Centria-ammattikorkeakoulu	3	2015-04-17
Asiakkuusosaaminen hoitotyössä	5	Centria-ammattikorkeakoulu	3	2017-05-08
Avopalvelu hoitotyö	10	Centria-ammattikorkeakoulu	3	2017-05-29
Harjoittelu hoitotyö	5	Centria-ammattikorkeakoulu	HYV	2014-11-18
Harjoittelu hoitotyön perusteet	10	Centria-ammattikorkeakoulu	HYV	2015-03-30
Harjoittelu ikääntyneiden hoitotyö	10	Centria-ammattikorkeakoulu	HYV	2016-11-21



More information

- EMREX.eu, information and technical specification
- EMREX Service Finland



data access

technical interoperability

automatised processes

architecture

structured data

identity authentication

data maturity level

upper secondary education

prior learning

organisational interoperability

degrees

Student

data transfer

digitalisation in recognition

agreements

academic & professional recognition

higher education

descriptive data

learning outcomes

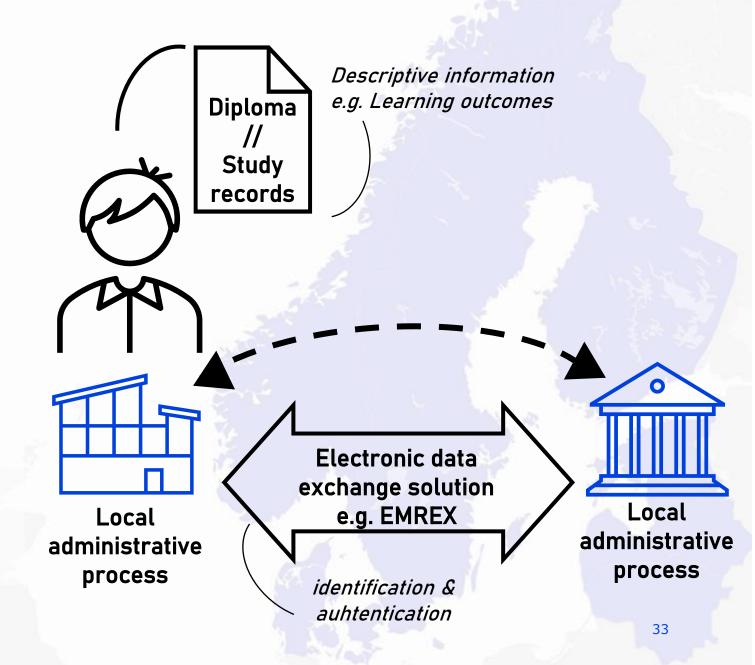
artifical intelligence semantic interoperability

legal interoperability

Use Case Scenario

A learner applies for studies through the application system of the target country. The learner shares his/her previous study record data to the target higher education institute (HEI) or upper secondary education institute by using an electronic data exchange solution.

In the use case, the learner must be identified, and his/her study record data includes descriptive information (e.g. learning outcomes, learning objectives).





WP1: Studying in another Nordic-Baltic Country

Cross-Border Mobility

Baseline study publication seminar 30.11. - 1.12.2021

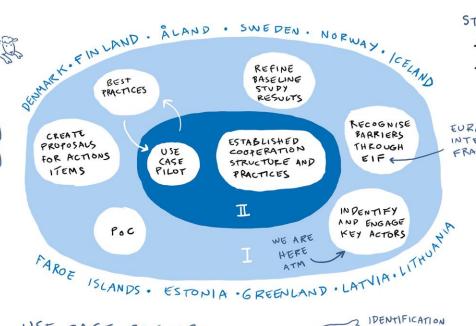


"The Nordic region will become
the most sustainable and integrated
region in the world in 2030."

PROJECT AIMS 2021-2024 . . . 0 0

- . Identify obstacels and create recommendations
- . Build a Proof of Concept

· Expand existing networks, e.g. EMREX



USE CASE SCENARIO

- 1. Learner applies for studies through the application system
- 2. Learner snares their previous study record data by using an electronic data exchange solution
- The youth is three times more capable of using these services

 They are also impatient and need to be motivated



STUDY DATA AVAILABLE (Upper Secondary)

+ Machine readable

- Pescriptive information in English

EUROPEAN INTEROPERABILITY FRAMEWORK



READ!

EMREX. eu &

Finland

EMREX Service

EMREX TRANSFERS

- -> WHAT? Recentralized system used for transferring study credits internationally
- -> Utilizes the ELMO XML schema
- -> 2 (+1) system components:
 - . EMREX client Emc
 - · Data access point EMP
 - (EMREG)

EXAMPLE : EMREX EMP IN Finland

- Uses national VIRTA student information database
- Student is in control of data
- Most data is Finnish HEI's

COMMENTS & QUESTIONS

- · what about countries that are not in the system? -> we would need data converters
- In Norway we use EMREX for job recruitment (20 nillion NOK saved yearly)



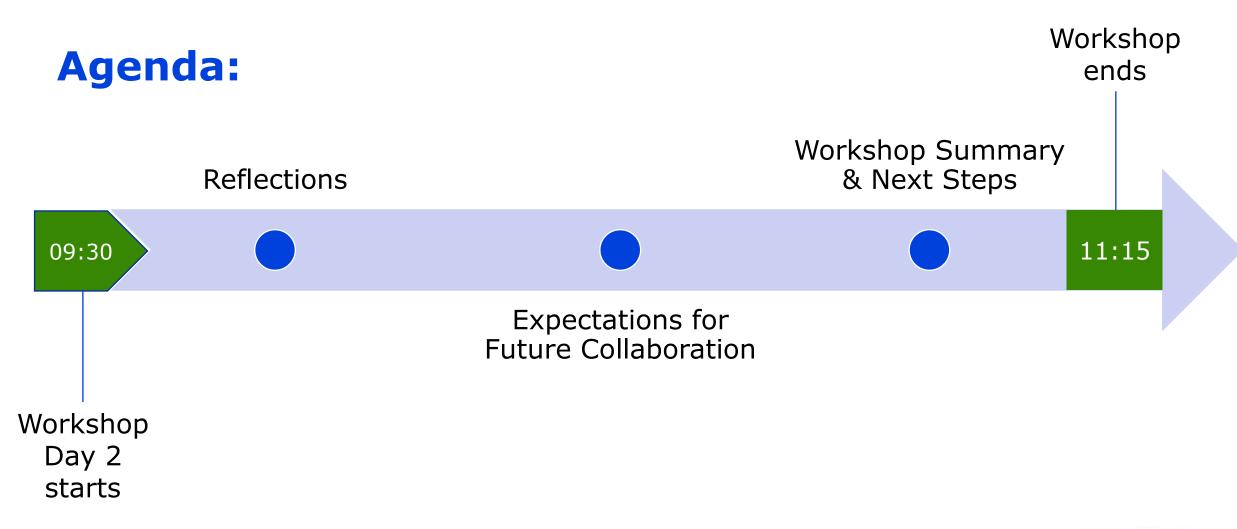


WORKSHOP Studying in another Nordic-Baltic Country

1st December 2021 - DAY 2



Welcome to DAY 2 Workshop!





Round table discussion

- Which one of the sections of the European Interoperability Framework (EIF) should we put the most effort to?
- What would be the most beneficial in your point of view?

Section	Examples		
Organizational	Networking, common direction		
Semantic	Richer descriptive information, definitions		
Technical	Technical interoperability		
Legal	Data transfer agreements		



Expectations for Future Collaboration

Goal State & OFF-SCOPE: Production use Cutover Scope **End-user Training** Refine baseline Goal State 1 **Best** study practices results Goal State 2 П Recognise **barriers** through **Established** EIF* Use case cooperation structure and pilot **Create** practices proposals for action items **Identify** and engage key actors **PoC** (Proof-of-*European Interoperability Concept) **Framework**

08/12/2021 Finnish National Agency for Education

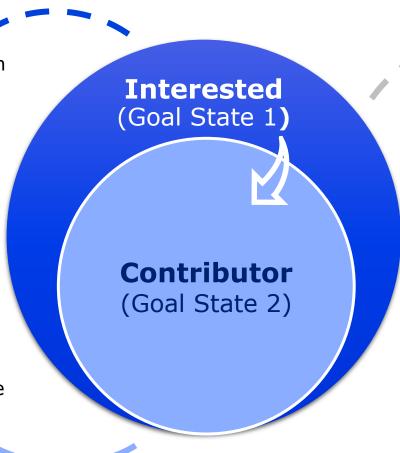
Our Collaboration Network in practice

Interested:

- Receives updates of the project
- As a contact point provides information related to the project scope
- Is welcome to participate in annual project activities
- Will hopefully become an active contributor at some point

Contributor (in addition to previous list):

- Participates in annual project activities
- Participates in working group activities
- Contributes in POC planning and in use case pilot
- Joins TEAMS or other collaboration platform (tbd)



Project Management:

- Keeps the network updated of the project
- Arrranges project activities
- Coordinates the working group
- Provides material and report(s) related to the project
- Is in charge of resourcing (in use case pilot phase in particular)

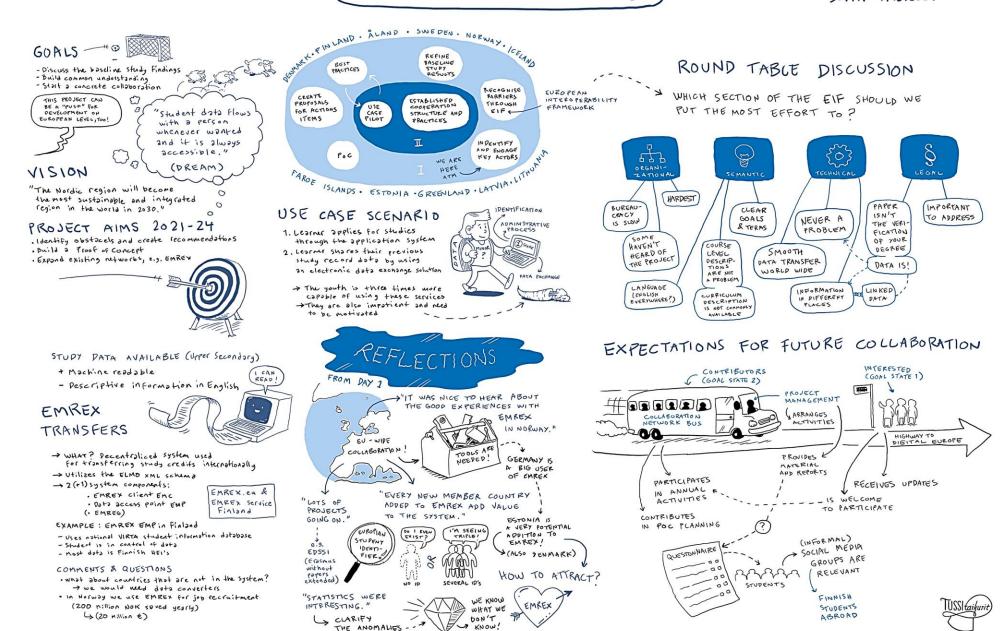
Workshop Summary & Next Steps



WP1: Studying in another Nordic-Baltic Country

Cross-Border Mobility

Baseline study publication seminar 30.11. - 1.12.2021



Key takeaways for successful cross-border data exchange according to interviews and survey

- EMREX
- Solving legal issues and student identification across country borders
- A common interest and motivation
- Student holds the ownership of the data
- Clear responsibility management
- A common Nordic database for study records
- Requirements of GDPR fully observed
- Better communication between responsible parties

Next Steps

- Primary way of communication is the project website (<u>link</u>)
- Workshop's summary and next steps will be published in the newsletter 1/2022
- Building working groups and finding the right partners & networks







Contact information:

Mrs Riikka Rissanen

Project Manager Finnish National Agency for Education PB Box 380 (Hakaniemenranta 6) FI-00531 Helsinki, Finland Tel. +358 295 331 059

E-mail: firstname.lastname(at)oph.fi

Mr Petteri Pulli

Adviser

Finnish National Agency for Education P.O. Box 380 (Hakaniemenranta 6), FI-00531 Helsinki, Finland

Tel. +358 295 331 996

E-mail: firstname.lastname(at)oph.fi

