



Nasjonalt senter for
felles systemer og tjenester
for forskning og studier

PESC 2018 Data Summit

Introducing EMREX

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Nasjonalt senter for
felles systemer og tjenester
for forskning og studier

- Directorate under the Ministry of Education and Research
- Managing the national strategy on digitalization for higher education
- Providing services
 - Student information
 - Admission
 - Research information
 - Library information
- Run tender processes
- Negotiating license agreements – access to research

European Commision

- EACEA - Education, Audiovisual and Culture Executive Agency
 - Erasmus+
- INEA - Innovation and Networks Executive Agency
 - CEF – Connecting Europe Facility
 - Energy, Telecom, Transport
- New legislations
 - GDPR
 - eIDAS



EMREX

- the user-centered solution for
electronic transfer of student
data





What is EMREX?

- A general solution to enable the students or former students to control their data
 - Access to data
 - Share data
- Enable digitalization of any process in need of assessment data
- Open network – result owner gives access
- GDPR compliant



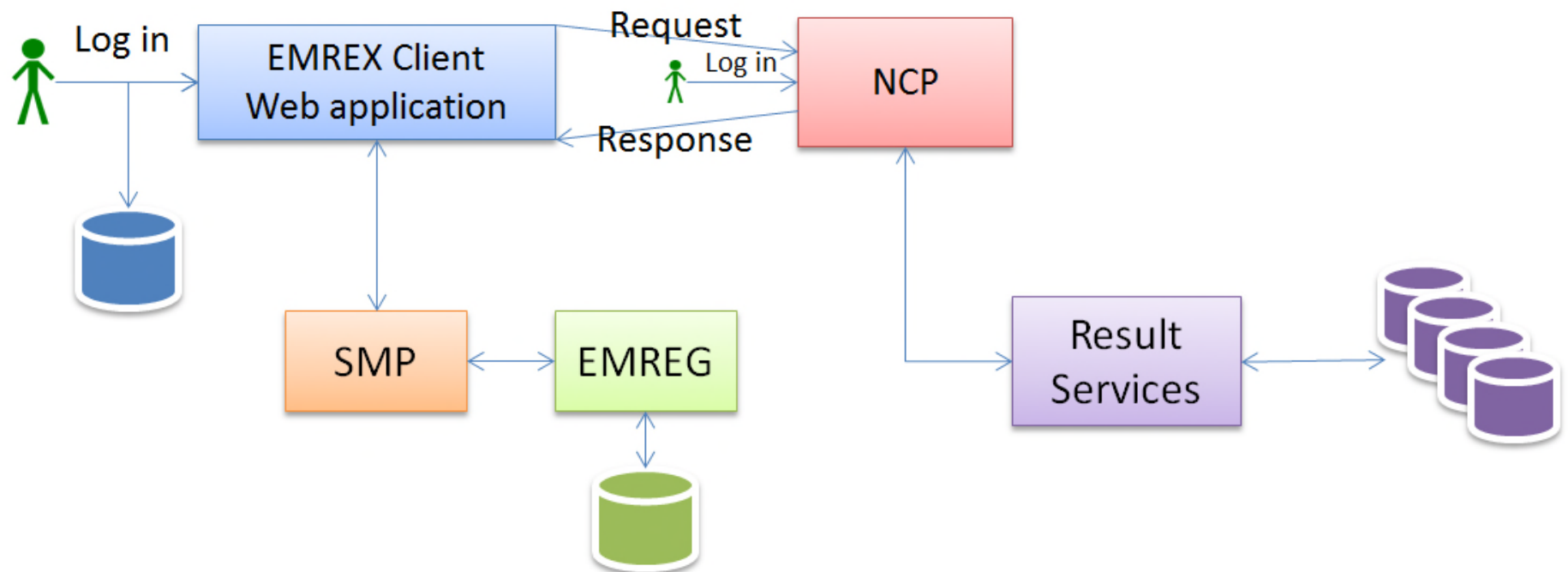
Background

- EU Erasmus+ project (2015-2017)
- DK, FI, NO, IT, PL, SE
- Secure and fast electronic transfer of achievement results
- **User-driven** approach to (my) data management (GDPR)
- **Building block:** uses local infrastructure, integration into other services and processes
- Standard data format for automation (ELMO)



The outcomes

- **The EMREX project** ended in 31 December 2017.
- The project delivered what it promised: the solution was piloted and is now **in production**
- The experiences from the field trial showed that the technical solution is easy to use, adaptable to different national contexts, and greatly appreciated by the students.





EMREX architecture

- NCP National Contact Point
 - Diploma registries
 - Local registries
- EMREX client
 - Any application in need of result data
- SMP Student Mobility Plugin
 - Open software EMREX client functionality
- EMREG
 - Registry with NCPs



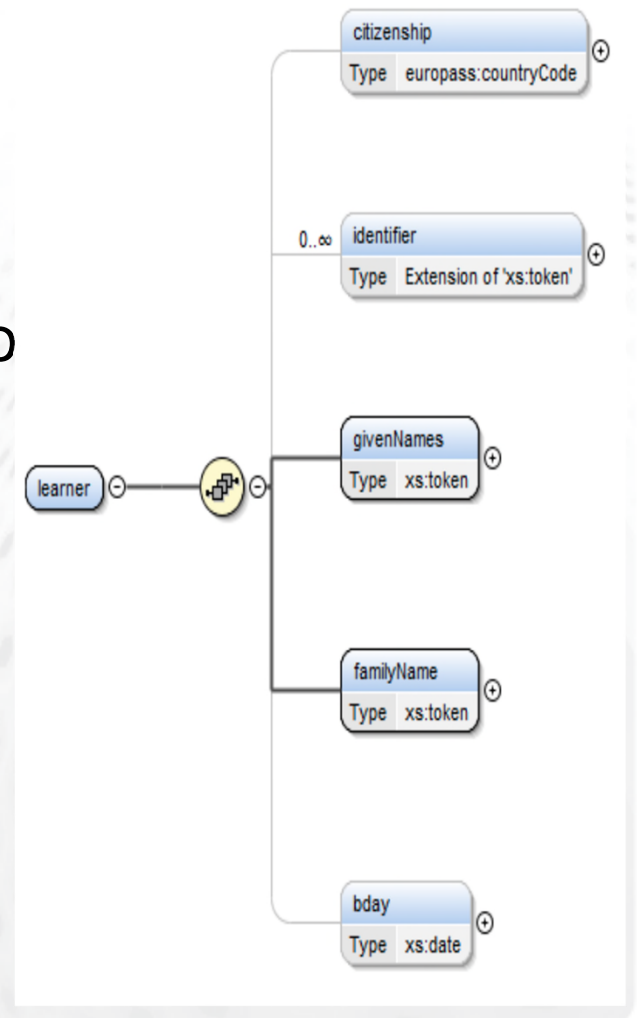
The format - ELMO

- General format – build on an standard model for Diploma, Diploma Supplement, Transcript of records (CEN:2011)
 - This model refer to a model for description of Learner opportunities



The format - ELMO

- Terms in this format
 - Learner
 - Issuer
 - Learning opportunity specification
 - Learning opportunity instance
- Multi language
- Extension
- Attachment





DEMO

Test site





EMREXtest SMP requires authentication. Required personal data is transferred automatically to the service after authentication.

Haka Test-Idp 

☒ Remember selection for this web browser session.

SELECT



Haka Test-Idp login page

Username

Kaisak

Password

••••••••



☐ Clear prior granting of permission
for release of your information to this
service.

Login

Login to EMREXtest SMP

Service: **EMREXtest SMP**

Description: **EMREX testserver SMP**

Privacy Policy: **Privacy Policy Service**





Supporting Student Mobility (EMREX)









Hi and welcome to Emrex!

Welcome! With this service you can retrieve your achievement records from studies at another university or college. Importing your records is a quick and easy process.

1. Select the country from which you want to retrieve your achievement records
2. Use the credentials from the host university where you studied to log into the system where your results are stored.
-- You will be able to import results from all the universities you studied at in that country (if part of EMREX)
3. Select the achievement records you want to import
4. Review and confirm the selection. The records will be sent to your home university and you will be sent a copy if you'd like.
5. Afterwards you will be asked to answer a few questions about the tool to help us develop it further.

So let's get started by selecting a country!

Choose Your Exchange Country:

Select	[Test] Croatia	
Select	[Test] Finland	
Select	[Test] Italy	
Select	[Test] Norway	
Select	[Test] Poland	
Select	[Test] Sweden	
Select	[Test] Denmark	
Select	[Test] Netherlands	
Select	[Test] Germany	



Log in using Feide



Feide is the chosen solution of the Department of Education for secure identification in the education sector [Log in using Feide](#)



Users from Norwegian universities and colleges



Log in using ID-porten with MinID, BankID, Buypass or Commfides

Log in with Feide

Diploma Registry - test has requested you to log in with Feide.



Log in with your Feide account from **Feide**. [Not your affiliation?](#)



perra789student



.....|



[Forgot your username or password?](#)

Log in 

[➤ Help](#)

[Privacy and cookie information](#)

Welcome Per Andreas Persen



My results

If you need documentation of results achieved in Norway that do not appear in the diploma registry, please contact the relevant institution.

☐ Show all details☒ Hide all details

University of Oslo



Results (25 ECTS)

<input checked="" type="checkbox"/>	Course code	Course	Semester	Credits		Grade	Grade distribution A B C D E ?
<input checked="" type="checkbox"/>	ENG4373	Multicultural literature in English	2014 Spring	10	ECTS	C	
<input checked="" type="checkbox"/>	NORINT0110	Norwegian for International Students, course 0110	2014 Spring	15	ECTS	A	
	NORINT0110	Norwegian for International Students, course 0110	2014 Spring	—		B	
	NORINT0110	Norwegian for International Students, course 0110	2014 Spring	—		A	

[View selected results](#)[Abort transfer](#)

University of Oslo

Results (25 ECTS)

Course code	Course	Semester	Credits		Grade	Grade distribution A B C D E ?
ENG4373	Multicultural literature in English	2014 Spring	10	ECTS	C	
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NORINT0110	Norwegian for International Students, course 0110	2014 Spring	—		B	
NORINT0110	Norwegian for International Students, course 0110	2014 Spring	—		A	

The document has been signed. You can now transfer the results.

[Signed document with selected results \(PDF\)](#)

NB: Some browser's internal PDF viewers do not show digital signature. In such cases, we recommend using Adobe Acrobat Reader.

☒ I confirm that these results will be transferred to <https://emrextest.csc.fi/smp/onReturn>

Transfer records

Back

[Abort transfer](#)



Review and approve import

You have selected to import 4 courses.

Please review your selection below and approve it to import the courses to your home university results.

[Import courses](#)[Cancel](#)

If you'd like a copy of the imported results, [please open and save the PDF](#) to your own device.

University of Oslo ()

ID	Code	Title	Part of	Level	Type	Credits	Results	Date
763942389372823	ENG4373-1	Multicultural literature in English	-	Master	Course	10 ECTS	C	2014-07-15
836681618872722	NORINT0110-1	Norwegian for International Students, course 0110	-	Bachelor	Course	15 ECTS	A	2014-07-15
866542714885874	NORINT0110-1	Norwegian for International Students, course 0110	836681618872722	Bachelor	Course		B	2014-07-15
197668313854428	NORINT0110-1	Norwegian for International Students, course 0110	836681618872722	Bachelor	Course		A	2014-07-15



From Project to Network





The EMREX User Group

- **The EMREX User Group** was formed to maintain, develop and support the EMREX solution on January 2018 in Stockholm.
- Includes all previous partner countries + the Netherlands
- First Annual Assembly in Paris 17 April










Our vision

- Enabling digitalization of any process in need of assessment data - before, during and after studies
- Goes beyond Erasmus+ mobility
 - student mobility programs
 - cooperative arrangements e.g. joint degrees, double degrees
 - admission services
 - recruitment solutions
 - credential evaluation
 - authorization



“To act as a global platform for connecting expertise, sharing knowledge and enhancing collaboration to expand EMREX footprint and help unlock the full potential of student data and open up data flows globally”.



-  Denmark: 4 universities in, working on the rest
-  Finland: All HEIs in
-  Italy: 2 universities in, working on the rest
-  Netherlands: All HEIs in
-  Norway: All HEIs in
-  Poland: 7 universities in, several new this year
-  Sweden: All HEIs in



Emrex User Group (EUG) Statutes



Role and Mission

➤ Role

- EUG is an independent, international non-profit network uniting actors interested in enhancing student data portability.
- Global platform for connecting expertise, sharing knowledge and enhancing collaboration to expand EMREX.

➤ Mission

- The purpose is to empower individuals to control their own electronic student data and exchange throughout its lifespan, across borders, for various purposes.



Objectives

- Maintain the EMREX network
- Support the uptake of EMREX
 - new countries
 - new services
- Plan and support dissemination activities around EMREX
- Maintain the EMREX policy agreement to be signed by all full members,
- Contribute to relevant standardization work



Organisation – Annual Assembly

- The Annual Assembly elects
 - Executive Committee
 - Chair of the Annual Assembly and Executive Committee.
- The Annual Assembly has the power to do the following:
 - a) to approve the reports of activities;
 - b) to approve new members or revoke existing one
 - c) to modify and approve the statutes of the organization;
 - d) to dissolve the organization
- Convenes once a year



Executive committee

- Chair, vice chair and three to six members
- Both Full and Associate members eligible
- 2 year term
- Responsible for:
 - Preparing a yearly action plan (AP)
 - Ensuring that appropriate activities are taken to reach the goals in AP
 - Convening the Annual Assembly



Policy group

- An optional group
- Tasks:
 - To bring needed policy expertise and contacts to policy makers to strengthen the role of EMREX
 - To advise the Executive Committee on policy issues
 - To actively support the EMREX network in relevant policy groups



Membership

- 2 different membertypes:
 - Full members
 - Institutions or organizations responsible for one or more EMREX National Contact Points (NCPs) and have access to the EMREX services.
 - Associate members
 - refer to parties interested in EMREX, either through having e.g. an SMP or considering building an NCP or SMP.
 - Associate members are represented in the meetings by a person named by the associate member.
- Only organisations – no individuals
- No membership fee. Members cover their own costs.



Year plan 2018





Year plan 2018

Focus on these areas:

- Building the organization
- Create solid information material and flows
- Expand the network
- Standards work, ELMO



2018 - Information

- Website www.emrex.eu
 - "De-projectification"
 - Quality assurance
 - Regular update scheme
- General presentation of EMREX
- Electronic documents for various purposes for use by members
- Regular newsletter



2018 - Expansion

- Collaboration
 - Nearby EU-initiatives
 - Worldwide collaborations
 - Groningen Declaration Network
- General presentation of EMREX
- Membership retention
 - Support in creating NCP or SMP
 - Information and marketing

2018



- The Netherlands in production with NCP
- Croatia in test with NCP
- China ready to start development
- Sigma ready to start development



Dienst Uitvoering Onderwijs
Ministerie van Onderwijs, Cultuur en
Wetenschap



agency for science and higher education

2018



- ELMO

- Diploma Supplement
- Student information
- Other issues

- <https://github.com/emrex-eu/elmo-schemas/releases>

2018



- Regional meeting with GDN
- DigiRec
- eIDAS
- Dissemination
 - GDN, EUNIS, Enic-Naric, PESC, EAIE

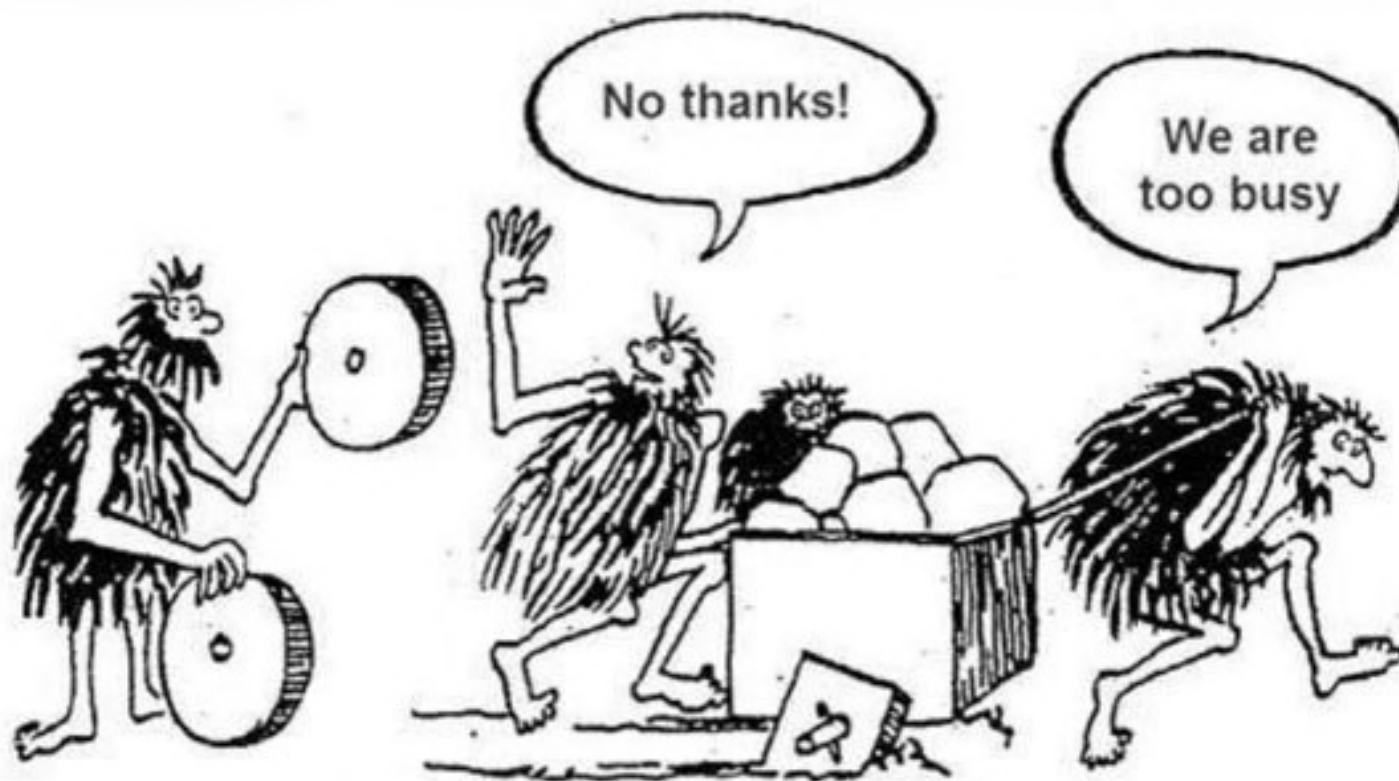




Executive committee

- Jonna Korhonen, FI, Chair
- Johan Bergstrom, SE
- Tor Fridell, SE
- Jan-Joost Norder, the NL
- Janina Mincer-Daszkiewicz, PL
- Geir Vangen, NO

Thank you!



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