Introducing EMREX

Geir Vangen
- 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.

- [ ] Remember selection for this web browser session.

SELECT
Haka Test-Idp login page

Username
Kaisak

Password

[Show Password]

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

Login to EMREXtest SMP

Service: EMREXtest SMP
Description: EMREX testserver SMP
Privacy Policy: Privacy Policy Service

Login
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!
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.
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
### My results

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

<table>
<thead>
<tr>
<th>University of Oslo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Results (25 ECTS)</td>
</tr>
<tr>
<td>Course code</td>
</tr>
<tr>
<td>ENG4373</td>
</tr>
<tr>
<td>NORINT0110</td>
</tr>
<tr>
<td>NORINT0110</td>
</tr>
<tr>
<td>NORINT0110</td>
</tr>
</tbody>
</table>

[View selected results](#)
### University of Oslo

#### Results (25 ECTS)

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course</th>
<th>Semester</th>
<th>Credits</th>
<th>Grade</th>
<th>Grade distribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG4373</td>
<td>Multicultural literature in English</td>
<td>2014 Spring</td>
<td>10 ECTS</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>NORINT0110</td>
<td>Norwegian for International Students, course 0110</td>
<td>2014 Spring</td>
<td>15 ECTS</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td>NORINT0110</td>
<td>Norwegian for International Students, course 0110</td>
<td>2014 Spring</td>
<td>—</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>NORINT0110</td>
<td>Norwegian for International Students, course 0110</td>
<td>2014 Spring</td>
<td>—</td>
<td>A</td>
<td></td>
</tr>
</tbody>
</table>

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

[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://emretest.csc.fi/smp/onReturn

[Transfer records]([#])  [Back](#)

[Abort transfer](#)
Supporting Student Mobility (EMREX)

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.

<table>
<thead>
<tr>
<th>ID</th>
<th>Code</th>
<th>Title</th>
<th>Part of</th>
<th>Level</th>
<th>Type</th>
<th>Credits</th>
<th>Results</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>703942389372823</td>
<td>ENG4373-1</td>
<td>Multicultural literature in English</td>
<td>-</td>
<td>Master</td>
<td>Course</td>
<td>10 ECTS</td>
<td>C</td>
<td>2014-07-15</td>
</tr>
<tr>
<td>836681618872722</td>
<td>NORINT0110-1</td>
<td>Norwegian for International Students, course 0110</td>
<td>-</td>
<td>Bachelor</td>
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<td>15 ECTS</td>
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<td>Bachelor</td>
<td>Course</td>
<td></td>
<td>A</td>
<td>2014-07-15</td>
</tr>
</tbody>
</table>

If you’d like a copy of the imported results, please open and save the PDF to your own device.

University of Oslo ()
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 ones;
  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 eligable
- 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
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
The Netherlands in production with NCP
Croatia in test with NCP
China ready to start development
Sigma ready to start development
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!

LinkedIn – author unknown