EMREX - update
Illustrative case: The Norwegian Diploma registry

Paris, April 20th, 2018
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.
The EMREX User Group

The EMREX User Group was formed to maintain, develop and support the EMREX solution on January 2018 in Stockholm.

First Annual Assembly in Paris 17 April

7 full-members in Europe

10-15 associate members in Europe, USA, Australia and China
Executive Committee

- Johan Bergstrom, SE
- Tor Fridell, SE
- Jonna Korhonen, FI (Chair)
- Jan-Joost Norder, the NL
- Janina Mincer-Daszkiewicz, PL
- Geir Vangen, NO
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
“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”.
Year plan 2018

Focus on these areas:
- Building the organization
- Create solid information material and flows
- Expand the network
- Standards work, ELMO
Background

- Educational institutions use a lot of time administrating and producing transcript of records and diplomas
- Today’s practice requires large quantities of paper
- Educational institutions and employers spend a lot of time and money assessing the validity of the documents they receive.
- Some people counterfeit their transcript of records and diplomas
Goals

– Ensure that the shared information is valid
– Simplify processes
– Reduce paper
Timeframe

Assignment given from the Norwegian Ministry of Education and Research

<table>
<thead>
<tr>
<th>2012</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
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</table>

The development started

Release
In general

- “Virtual registry”
- Only the person who has achieved the educational results can see his/her results.
- A recipient can only see a person’s results if access has been given to him/her.
- The «sender» logs in using the Norwegian national ID portal or the education federal id (Feide)
- Information can be shared in Norwegian and English
Two ways of sharing results:
1) transfer       2) access by link
Security

• The result owner controls the data transfer
• Directly access to the datasources
• Encrypted transmissions
• Signed transactions

• Outstanding Security Performance Awards
  – Best security product
Connection to EMREX

- Norwegian NCP in the EMREX network
- Developed in relation to the project
- ELMO also used backend collecting data from universities and colleges
- EMREX protocol also implemented in HR systems connected to Diploma registry
- ELMO also used between HEIs for exchanging data (outside the network)
Demonstration:
Transfer
Silje Olsen goes to an HR-system to apply for a job
Name

Silje

Family name

Olsen

Upload your CV

Browse...

Import results from the Diploma Registry

Log on to the Diploma Registry
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, Bypass or Commidias
<table>
<thead>
<tr>
<th>Course code</th>
<th>Course</th>
<th>Semester</th>
<th>Credits</th>
<th>Grade</th>
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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://vip-test.uio.no/vip/er/ur/er/transfer
Name
Silje

Family name
Olsen

Upload your CV
Browse...

Import results from the Diploma Registry
Chosen results have been imported from the Diploma Registry: View imported results
Demonstration:
Access by link
Diploma registry

The Diploma registry is a new digital solution in Norway. By using the Diploma Registry, you can collect your results from higher education in Norway and share them with potential employers, educational institutions and other relevant recipients. The Diploma Registry is free of charge.

Why use the Diploma registry?

By using the Diploma registry, you can collect your results from higher education in Norway and share them with potential employers, educational institutions and other relevant recipients. The Diploma Registry is free of charge.

- Easy to use and navigate
- Results are updated in real-time
- Results are presented in a professional format
- The Diploma registry is available 24/7
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If you need documentation of results achieved in Norway that do not appear in the diploma registry, please contact the relevant institution.

Oslo and Akershus University College of Applied Sciences

- **Degree:** Bachelor’s Degree - Vocational Teacher Education in Electricity and Electronics (180 ECTS) achieved 04/03/2011
- **Study programme:** Bachelor’s Programme in Vocational Teacher Education, Electricity and Electronics
- **Diploma Supplement (PDF)**

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**View selected results**
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Who do you want to send the email to?

Email address:

farmacia1@norway.no

Settings for the link

This link shall expire in:

1 month

Display language:

English

This is an automatically generated email sent from the Diploma registry.

You have received this email because Siilje Olsen wants to share his/her results from higher education with you.

By following the link below you will access the results (use the code: 

Preview (link cannot be shared)

This link expires 06/05/2018.

Information and guidance about the Diploma registry can be found on our website: https://www.vitnemalsportalen.no/

Send email with link
The document has been sent for electronic signing. The email with link will be sent to farmacia14@norway.no as soon as the Diploma registry has finished the signing. Follow the link to "My shared links" for a status update on email delivery.
The reciever opens his/her email and clicks the link
Please enter the code provided in the email you received in order to view the results.

Code: ******

Go to the results
Results for Silje Olsen
Silje Olsen has chosen to share the following results with you:
This link expires 06/05/2018

Oslo and Akershus University College of Applied Sciences

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</table>

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.
Name: Silje Olsen
National identification: 250689 56789

Silje Olsen has chosen to share the following results:
Oslo and Akershus University College of Applied Sciences

Degree: Bachelor’s Degree Vocational Teacher Education in Electricity and Electronics (180 ECTS) awarded 04/03/2011
(Akershus University College)

Study programme Bachelor’s Programme in Vocational Teacher Education, Electricity and Electronics

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Document generated: 05/04/2016, 14:32
This document is a technology prepared by members - the master student for further use. The student can study and make copies, from the student decides the permission level. The student is only granted to analyse exam results, as it is agreed in the exam regulations, with the accompanying examination regulations.
At any time, Silje can administrate her links in the diploma registry.
## My shared links

### Active links

<table>
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<tr>
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<th>Created</th>
<th>Expires</th>
<th>Status</th>
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<th>Delete</th>
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### Expired links

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So what happened?

• We put this into production Summer 2017
• University of Bergen stopped providing Transcript of Records on paper
• Now several institutions have followed them
• New services connected (consuming data) the EMREX way
  • Admission (2 systems)
  • Recognition (1 system)
  • Recruitment (3 systems, more in development)
Statistics

• 203,000 logons
• 34,000 sharings
  • 10% by transfer
  • 90% by sharing

• 80% Norwegian
• 20% English

• Grant total of inquiries for support: 263
Questions?

No thanks!

We are too busy