Delivering 3 in One Stroke

- Supporting student mobility,
  Automatic recognition and
  Learning mobility statistics
EMREX
-
Field trial on the impact of enabling easy mobility on recognition of external studies
EMREX prehistory

Collaboration between some of the nordic countries (Finland, Sweden, Norway and Denmark) began in 2006.
## Nordic glossary and Nordic hub

<table>
<thead>
<tr>
<th>Term</th>
<th>Term (MLO/ELM)</th>
<th>EN translation/ description</th>
<th>N</th>
<th>DK</th>
<th>SV SE</th>
<th>FIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Combination rule (“Rule”)</td>
<td></td>
<td>Rule governing what is allowed or accepted regarding combination of learning opportunities taken by a learner. Example module A can only be taken after successful completion of module B, and must be studied in conjunction with module C.</td>
<td>Forkunnskapskrav Krav til utdanningsplan (emnekombinasjon)</td>
<td>Regel</td>
<td>Förkunnskapskrav, behörighetsvillkor</td>
<td>Rakenteen säännöt (kuiten, sisätyvyytet, edeltävytet, edeltävät opinnot)</td>
</tr>
<tr>
<td>Cost</td>
<td>Cost</td>
<td>MLO: A cost associated with obtaining access to the learning opportunity (instance)</td>
<td>Kostnad</td>
<td>Pris?</td>
<td>Kostnad</td>
<td>Opetuksen osallistumismaksu</td>
</tr>
<tr>
<td>Course</td>
<td>Learning opportunity object: course</td>
<td>Formally specified education or training process in the form of a course</td>
<td>Emne</td>
<td>Undervisningsaktivitet</td>
<td>Kurs</td>
<td>Opintojakso</td>
</tr>
<tr>
<td>Course</td>
<td>Learning Opportunity Object: Course</td>
<td>Learning opportunity object that awards credits.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Course instance</td>
<td>Learning opportunity instance: course</td>
<td>LO offered to students restricted to time, place, pace and form</td>
<td>Undervisnings-enhet, Undervisnings-aktivitet</td>
<td>Lektion?</td>
<td>Kurstillfälle</td>
<td>Opintojakson toteutus</td>
</tr>
<tr>
<td>Credit</td>
<td>Credit</td>
<td>Credit, a measure of the extent of the learner action according to a framework like ECTS.</td>
<td>Studiepoeng (=ECTS)</td>
<td>Belastning</td>
<td>Pcaang (ECTS = högskolepoang)</td>
<td>Opintopiste</td>
</tr>
</tbody>
</table>
EMREX Partners

Gronningen Declaration, Malaga, 2015
EU-funded project – Figures

- Total costs estimated at 1,9 million Euro
- 75% funded by the EU’s Erasmus+ program, key action 3: Support for policy reform – Prospective initiatives
Timeline

2015
- Planning
- Specification
- Developing

2016
- Field Trial
- Surveys

2017
- Evaluation
- Upscaling
- Production

Gronningen Declaration, Malaga, 2015
EMREX Field Trial

Four nordic countries and Italy – University of Warsaw as evaluator:

- Working solution, tested with real students
- Can easily be scaled-up after project
- To promote higher attainment level to student mobility in higher education
- To test new ways to enable easier administration of student mobility

Gronningen Declaration, Malaga, 2015
EMREX Field Trial Network
HEI client

- Initiates the EMREX transfer for the student
- Must implement secure login
- Provide a way to store fetched results in local SIS
SMP – Student mobility plugin

- Used by the HEI client to ensure that the transfer is standardized
- A library of helpful functions

Gronningen Declaration, Malaga, 2015
NCP – National contact point

Entry point for the EMREX network to that country’s data

Must contain functionality for secure login, result-fetching and transfer
EMREG

- Only central component
- Registry of available NCPs with metadata
- Exposed through web services
- Currently hosted in Norway

Gronningen Declaration, Malaga, 2015
Standards – ELMO

- EMREX uses the ELMO XML format to exchange data

- Metadata for learner opportunities (MLO-AD)

- European Learner Mobility – Achievement Information (EuroLMAI)

Gronningen Declaration, Malaga, 2015
Security

- Login at both client and NCP
- Enforce HTTPS
- Sign ELMO data. Public key in EMREG
- Validate student
Wireframe mock-ups

Not supported by IE

https://moqups.com/lundin.goran@gmail.com/2sWGyfXn/p:a2fa73ae2
Field Trial Network - Finland

Gronningen Declaration, Malaga, 2015
Field Trial Network - Denmark

Groningen Declaration, Malaga, 2015
Field Trial Network - Norway

Gronningen Declaration, Malaga, 2015
Field Trial Network - Sweden
Field Trial Network - Italy

Gronningen Declaration, Malaga, 2015
Up scaling

- Peer-to-peer communication, so no bottlenecks
- EMREX provides examples of clients and NCPs
- Some local implementation required
Future organisation?

New steering group to be set down in the end of the project.
Delivering 3 in one stroke
Supporting student mobility

- EMREX will be based on common procedures
- EMREX will simplify the exchange of results by making it:
  - Easier
  - Faster
  - Authenticated
  - Secure
  - Initiated by the student

Gronningen Declaration, Malaga, 2015
Conditions that have to be fulfilled:

- Information about the student must be brought in to the system where it shall be handled
- Information in the form of data
- Standard formats to be used
- Standardized information
- All parties must agree on this information

Gronningen Declaration, Malaga, 2015
Delivering 3 in one stroke
Learning mobility statistics

EMREX can provide quality data about the students assessments
Prevention of doublecounting

Result:

- Extended degree of knowledge about recognition practises in EMREX-countries
- More focus on the need of quality assurance for the proces of recognition
- Transparency will lead to more uniform processes
- Equal treatment of the recognition cases

Gronningen Declaration, Malaga, 2015
Information and contact

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