



Co-funded by the
Erasmus+ Programme
of the European Union



EMREX

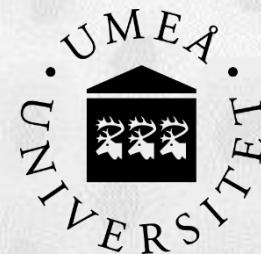
EWP stakeholder meeting 17.2.2017 Porto



Uddannelses- og
Forskningsministeriet



Swedish Council for
Higher Education



17.2.2017

Anders Bøgebjerg Hansen



Facts about the project



- EU Erasmus+ project (2015-2017)
- Ministry level initiative
- Increase student mobility (20%)
- Recognition of previous studies
- Electronic and secure transfer of student data between HEIs
- Field trial and evaluation of impact
- Partners from Denmark, Finland, Italy, Norway, Poland, Sweden



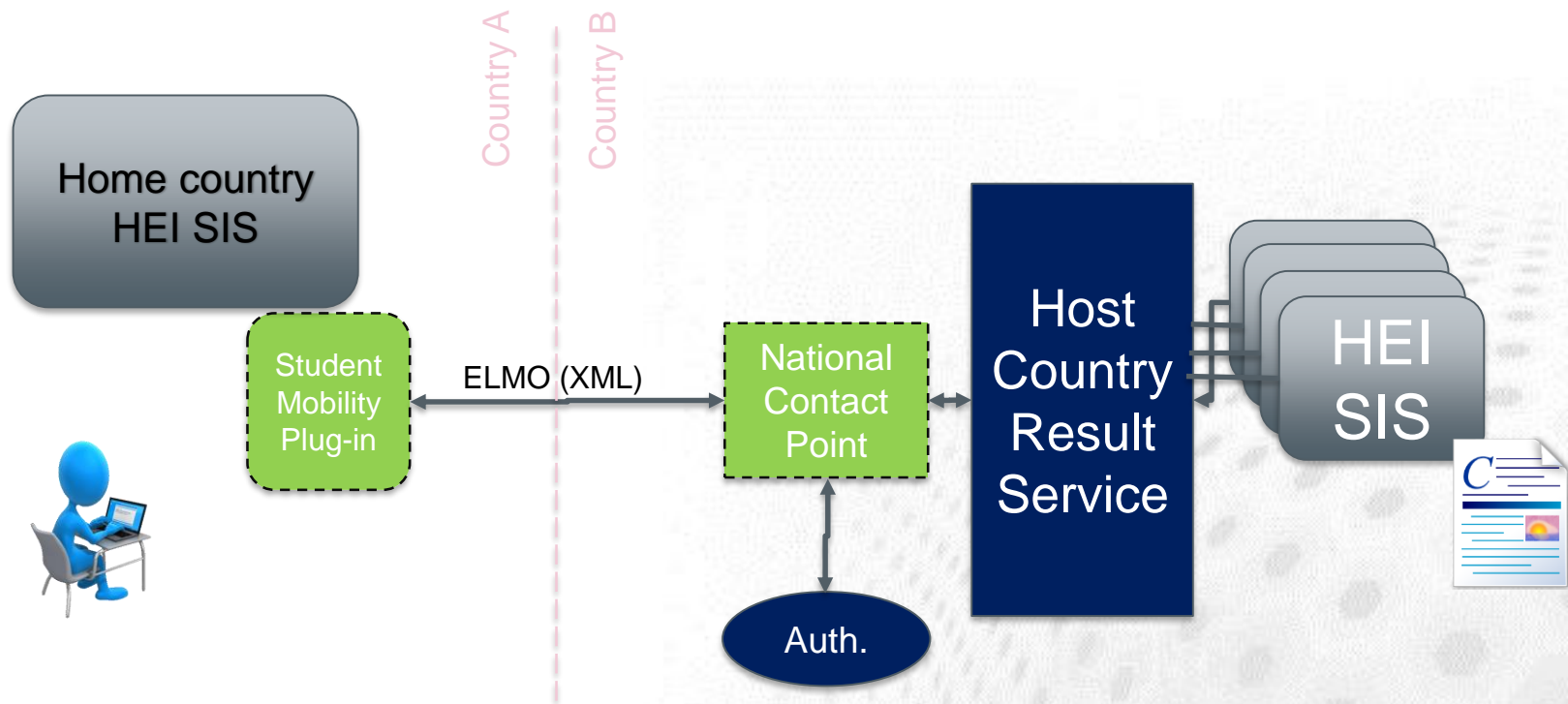
Co-funded by the
Erasmus+ Programme
of the European Union



Timeline



Supporting student mobility



Student returning home can retrieve his
achievement data electronically



Co-funded by the
Erasmus+ Programme
of the European Union



Demo

- Live demo: <https://emrex-test.its.umu.se/smp/login>





Demo

A Norwegian student logs in to Feide authorisation system



Bytt bruker ▾

Log on using Feide



Feide is the chosen solution of the Department of Education for secure identification in the education sector

[Log on using Feide](#)



Users from Norwegian universities and colleges

Norwegian ID number and PIN



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

[Choose a different institution than Utviklingsbase for FS](#)



Demo

Student wants to import data from Poland

Studies My active courses Results More... ▾ English ▾ Regina Aba ▾

SW Studentweb
University of Oslo-utv

Bytt bruker ▾

1 Choose country **2** Get results **3** Import results **4** Confirmation

Here you can fetch results from another higher education institution in Europe. The results will be digitally signed by the issuing institution, and you will have the possibility to import them to Studentweb. This process is part of EMREX, an international project for electronic transfer of student records between higher education institutions.

Choose country:

Choose from list

- [Test] Finland
- [Test] Italy
- [Test] Norway
- [Test] Poland
- [Test] Sweden
- [Test] Netherlands





Demo

Student is redirected to the Polish institution portal. Student logs in

DEMO University - Central Authentication System You are not logged in | log in


USOSweb PL

NEWS | DIRECTORY | MY USOSWEB | **STUDENT'S SECTION** | STAFF SECTION | COMMON SECTION

Ulrychów Czyste **WARZAWA** Sołec Saska Kępa Przyczółek Grodzowski Osiedle Jantar Kępa Gołdawska Śródmieście Południowe

University of Warsaw



Send your achievements data

 Look out. You are about to send your personal data, along with some information on your grades, courses and study programmes, to an external application.

[Sign in to continue](#)



ADDITIONAL INFORMATION

Po zalogowaniu się, zobaczysz przedmioty, które trafią do raportu.


 University of Warsaw

You're using a **beta** version of the student mobility data exchange service.

This service is a part of an international project (EMREX) which is still in the stages of being developed and tested. If you encounter any technical problems please report it in your dean's office.



Demo

Student is redirected to the EMREX web page. Student can select/deselect courses to be imported

INTRODUCTION

REGISTRATIONS

- calendar
- cart
- for courses
- direct for groups
- group preferences
- for exams
- token registrations

MY STUDIES

- tests
- grades
 - my grades
 - EMREX**
- linkage
- POL-on
- decisions
- promotions
- dean's groups
- rankings
- stipends
- diplomas

Send your achievements data

i Look out. You are about to send your personal data, along with some information on your grades, courses and study programmes, to an external application.

This service is a part of an international project (EMREX) which is still in the stages of being developed and tested. If you encounter any technical problems please report it in your dean's office.

The report which we are going to send to the external application will include the information on your grades and other achievements related to the courses selected below.

Do raportu będzie dołączony plik PDF. Wybierz w jakim języku ma być wygenerowany dokument:

polish

english

[Select/deselect all](#)

Winter semester 2012/13

Course	Grades	Hours of classes	ECTS credits
<input checked="" type="checkbox"/> English - upper intermediate level 3300-ANG0E2	5	60 hours LEK	2

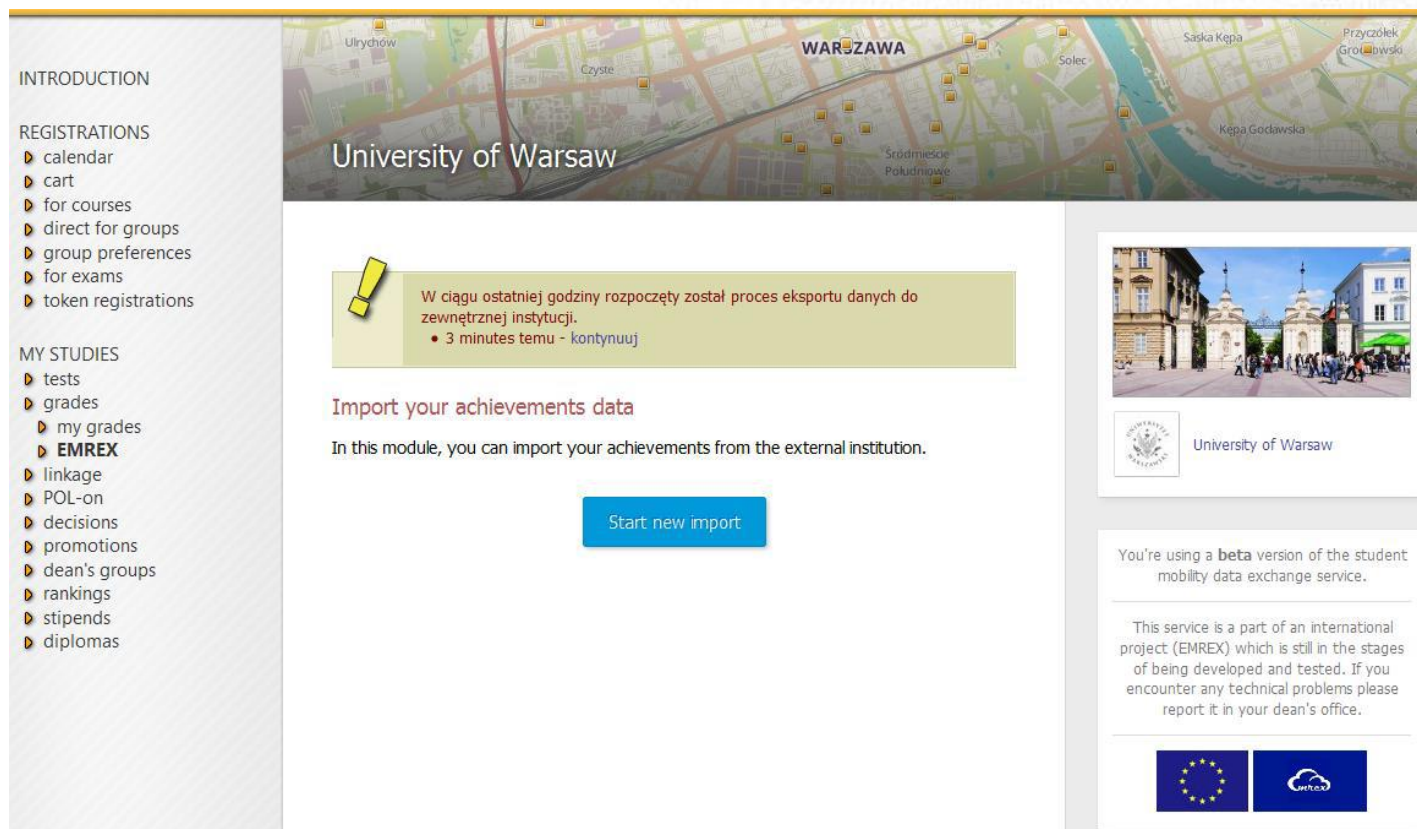
Summer semester 2012/13

Course	Grades	Hours of classes	ECTS credits
<input checked="" type="checkbox"/> English - upper intermediate level 3300-ANG0E2	3,5	60 hours LEK	2

Academic year 2012/13

Course	Grades	Hours of classes	ECTS credits
<input checked="" type="checkbox"/> Annual Essay 1 3501-PR1	PRA-R: 3	PRA-R	2
<input checked="" type="checkbox"/> Annual Essay 1 3501-PR2	PRA-R: 5	PRA-R	2

This page is part of USOSweb. Any time student can switch to another page. After student comes back to the EMREX page, he finds the link to abandoned session and can continue



The screenshot shows the EMREX web interface. On the left is a navigation menu with sections: INTRODUCTION, REGISTRATIONS (calendar, cart, for courses, direct for groups, group preferences, for exams, token registrations), and MY STUDIES (tests, grades, my grades, EMREX, linkage, POL-on, decisions, promotions, dean's groups, rankings, stipends, diplomas). The main content area features a map of Warsaw with 'University of Warsaw' overlaid. Below the map is a yellow warning box with a yellow exclamation mark icon, containing the text: 'W ciągu ostatniej godziny rozpoczęty został proces eksportu danych do zewnętrznej instytucji. • 3 minutes temu - kontynuuj'. Underneath is the heading 'Import your achievements data' and the text 'In this module, you can import your achievements from the external institution.' A blue button labeled 'Start new import' is positioned below. To the right, there is a photo of the University of Warsaw entrance, the university's logo, and a notice: 'You're using a beta version of the student mobility data exchange service.' Below the notice, it states: 'This service is a part of an international project (EMREX) which is still in the stages of being developed and tested. If you encounter any technical problems please report it in your dean's office.' At the bottom right, there are logos for the European Union and EMREX.



On this page student can select/deselect courses (depending on how system is configured)

Academic year 2014/15

Course	Grades	Hours of classes	ECTS credits
<input checked="" type="checkbox"/> Aesthetics 3501-DWF34ES	WYK: 4,5 CW: 3,5	60 hours WYK 60 hours CW	10
<input checked="" type="checkbox"/> Examination in English; level C1			
<input checked="" type="checkbox"/> History of Analytic Philosophy 3501-DO3HA	WYK: 4,5 CW: 3,5	60 hours WYK 60 hours CW	10
<input checked="" type="checkbox"/> Philosophical Texts Translating - French 3501-TF	TRAN: 3,5	60 hours TRAN	6
<input checked="" type="checkbox"/> Recent Polish Philosophy 3501-PBCV-FAK-RPPH	WYK: 3 CW: 4	60 hours WYK 60 hours CW	10
<input checked="" type="checkbox"/> The Aesthetics of Space in Painting and Architecture 3501-S-ESTPMA	SEM: 3,5	60 hours SEM	6

Winter semester 2015/16

Course	Grades	Hours of classes	ECTS credits
<input checked="" type="checkbox"/> Philosophy of Action 3501-PHACT-F	WYK: 5 CW: 5	30 hours WYK 30 hours CW	5

Academic year 2015/16

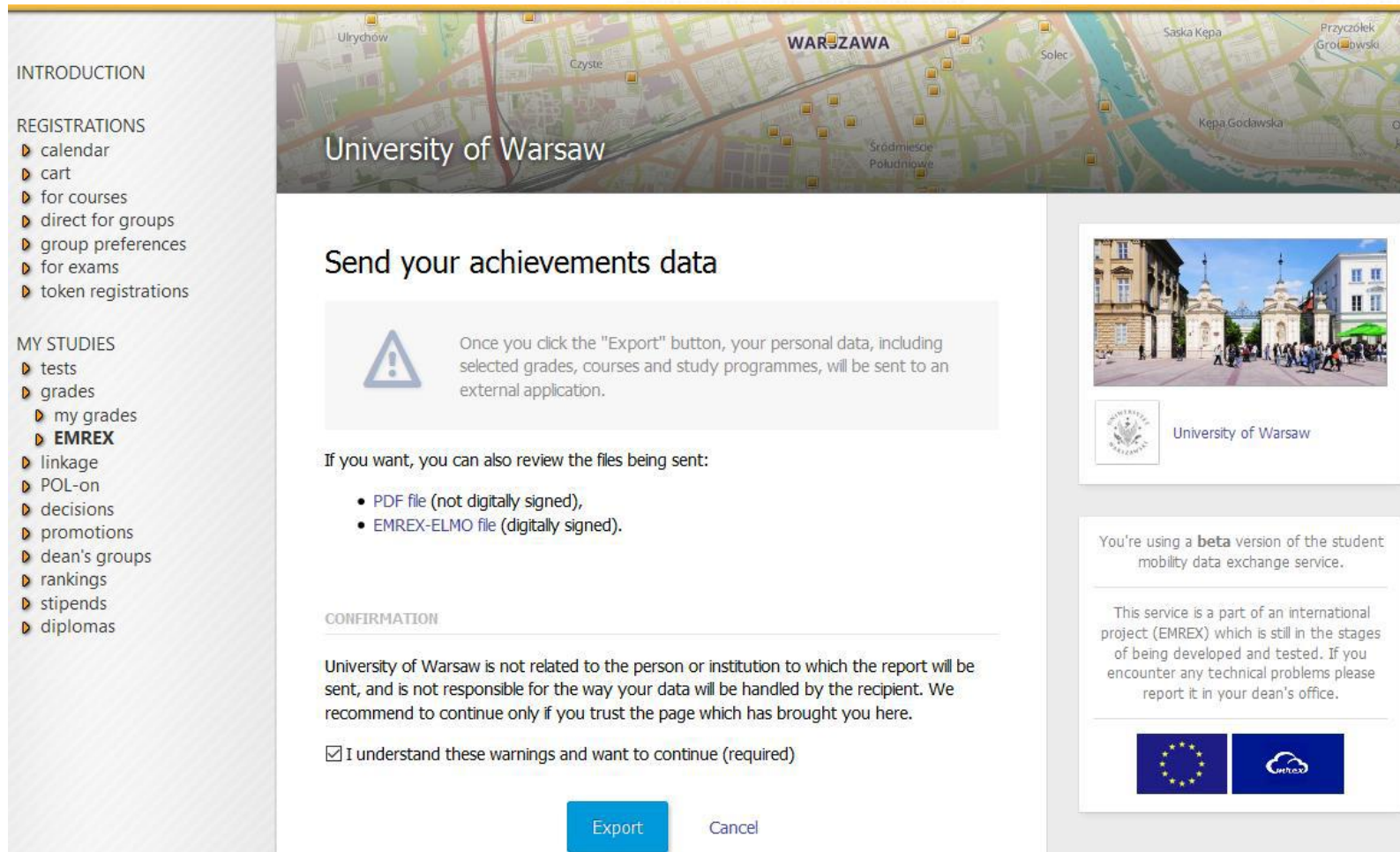
Course	Grades	Hours of classes	ECTS credits
<input checked="" type="checkbox"/> (in Polish) Ciała palimpsesty 4018-KON282-CLASS	KON: 5	60 hours KON	8
<input checked="" type="checkbox"/> French Phenomenology 2 - Orthodoxy and Revision 3501-FF-5	SEM: 4,5	60 hours SEM	6

Sum of credits: 128.

Continue

Cancel

Student can preview XML and PDF, then clicks Export



The screenshot shows a web interface for the University of Warsaw. On the left is a navigation menu with sections: INTRODUCTION, REGISTRATIONS (calendar, cart, for courses, direct for groups, group preferences, for exams, token registrations), and MY STUDIES (tests, grades, my grades, **EMREX**, linkage, POL-on, decisions, promotions, dean's groups, rankings, stipends, diplomas). The main content area is titled 'Send your achievements data' and features a warning icon and text: 'Once you click the "Export" button, your personal data, including selected grades, courses and study programmes, will be sent to an external application.' Below this, it says 'If you want, you can also review the files being sent:' followed by a bulleted list: 'PDF file (not digitally signed),' and 'EMREX-ELMO file (digitally signed)'. A 'CONFIRMATION' section contains a disclaimer: 'University of Warsaw is not related to the person or institution to which the report will be sent, and is not responsible for the way your data will be handled by the recipient. We recommend to continue only if you trust the page which has brought you here.' At the bottom of this section is a checked checkbox: 'I understand these warnings and want to continue (required)'. At the very bottom are 'Export' and 'Cancel' buttons. On the right side of the interface, there is a banner for the University of Warsaw, a notice about using a beta version of the service, and a disclaimer about the international project (EMREX) being in development and tested, with a link to report technical problems to the dean's office. Logos for the European Union and EMREX are also visible at the bottom right.

INTRODUCTION


REGISTRATIONS

- ▶ calendar
- ▶ cart
- ▶ for courses
- ▶ direct for groups
- ▶ group preferences
- ▶ for exams
- ▶ token registrations

MY STUDIES

- ▶ tests
- ▶ grades
 - ▶ my grades
 - ▶ **EMREX**
- ▶ linkage
- ▶ POL-on
- ▶ decisions
- ▶ promotions
- ▶ dean's groups
- ▶ rankings
- ▶ stipends
- ▶ diplomas

Send your achievements data

 Once you click the "Export" button, your personal data, including selected grades, courses and study programmes, will be sent to an external application.

If you want, you can also review the files being sent:


- PDF file (not digitally signed),
- EMREX-ELMO file (digitally signed).

CONFIRMATION

University of Warsaw is not related to the person or institution to which the report will be sent, and is not responsible for the way your data will be handled by the recipient. We recommend to continue only if you trust the page which has brought you here.



I understand these warnings and want to continue (required)

[Export](#) [Cancel](#)


University of Warsaw

You're using a **beta** version of the student mobility data exchange service.

This service is a part of an international project (EMREX) which is still in the stages of being developed and tested. If you encounter any technical problems please report it in your dean's office.





The student is back in Norway on the page with the list of courses. Can view PDF file, can confirm the import by clicking **Import the results**

English Regina Aba

SW Studentweb
University of Oslo-utv

Bytt bruker

1 Choose country 2 Get results 3 **Import results** 4 Confirmation

DEMO University

Results

3300-ANGOB2	English - upper intermediate	Winter semester	2 ECTS	55
3501-FF-S	French Phenomenology 2 - Orthodoxy and Revision	Academic year 2015/16	6 ECTS	4,5
283486-1	Seminar		ECTS	4,5

Attachment: [Transcript of records](#)

Import the results [Start the process again](#)



On the next page student finds the link to the EMREX survey
(available only during the EMREX project)

The screenshot shows the Studentweb interface for the University of Oslo-utv. At the top, there is a dark navigation bar with a menu icon on the left, 'English' with a dropdown arrow, and a user profile 'Regina Aba' with a dropdown arrow. Below this is the 'Studentweb' logo and 'University of Oslo-utv' text. To the right is a 'Bytt bruker' button with a dropdown arrow. A progress bar with four steps is shown: 1. Choose country, 2. Get results, 3. Import results, and 4. Confirmation (highlighted in bold). To the right of the progress bar is the EMREX logo. Below the progress bar, a message reads: 'Thank you, the results have now been delivered to University of Oslo-utv.' This is followed by a paragraph: 'This process is part of EMREX, an international project for electronic transfer of student records between higher education institutions. The project is now in an early phase, and we would appreciate if you could spend a few minutes to fill inn the following questionnaire about your experience with it. The answers will be anonymized.' Below this is a green button labeled 'Take me to the questionnaire'. At the bottom, there is a blue link: 'Start the process again'.



EMREX - user experience evaluation

[English] [Norsk] [Svenska] [Suomi] [Dansk] [Polski]

Student fills in the survey

✓ Now we would like to ask your opinion about EMREX. Please fill in the questionnaire below. This should take no more than 3 minutes of your time. Your responses are very important and will help us improve our software. Your answers will be completely anonymous.

✓ Please rate how much you agree or disagree with the following statements:

	1 - Strongly disagree	2 - Disagree	3 - Neutral	4 - Agree	5 - Strongly agree	No opinion
EMREX is easy to use.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The instructions are clear and understandable.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
EMREX works fast.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I was able to import all relevant data (courses, grades) using EMREX.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The EMREX interface is visually appealing.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am satisfied with how EMREX works.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I would recommend EMREX to other mobile students.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

✓ Do you have any other comments about EMREX?

Next



Field trial results until february 2017

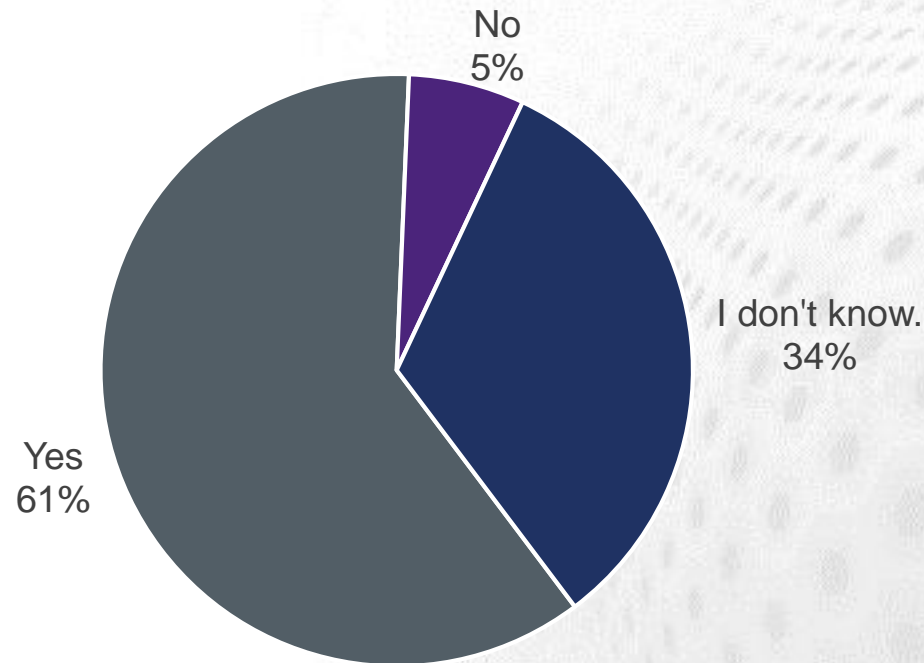
- Finland, Italy, Norway, Sweden in production
- Italian SMP ready for the HEIs
- Danish NCP in production in February
- Not that much exchange between Nordic countries
- Usage so far:

Country	HEIs (NCP or SMP)	Students using SMP	Short surveys
Denmark	0	0	0
Finland	9	22	21
Italy	1	2	1
Norway	4	49	24
Sweden	14	42	9



Willingness to use EMREX

EMREX is the solution for electronic transfer of student records between higher education institutions in Europe. Students can use online tool to transfer their records from their host institution to their home institution. If EMREX was available for you, would you be willing to use it?





Where are we now?

- Production readiness:
 - Norway, Finland and Sweden in production, Italian NCP in approval
 - Denmark in production very soon
 - Poland developing own NCP/SMP for internal national mobility
- Field trial
 - All HEIs from Norway and Sweden
 - All HEIs from Finland for incoming, 4 HEIs for outgoing students
 - Four universities from Denmark for incoming (only NCP)
 - Two HEIs from Italy, Verona and Siena
 - (Polish internal mobility as backup)
 - **Field trial is now and extended until summer 2017**
- Evaluation
 - F2F interviews with administrators are ongoing
 - Short survey on EMREX system (part of SMP)
 - Statistics collected on usage of system
 - Long survey on recognition process (Approx. 1000 respondents so far)

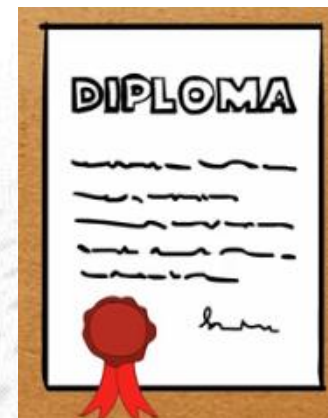


EMREX so far

- Field trial continues until summer 2017
- Focus on dissemination and scaling-up
- New partners already joining the network
 - Duo (Netherlands)
 - VTAC (Australia)
 - Spain (SIGMA)
 - China, USA....
 - EWP, ESC, DS, eIDAS (EU projects)
- EMREX 2.0 project application
- Admission system in Norway, Sweden to come
- Internal mobility in Poland and Finland

New areas for EMREX and ELMO

- Global reach of EMREX
 - VTAC- Australia and others in Asia
 - Converter with PESC (USA)
- Supporting new processes
 - Admission process
 - Credential evaluation
 - Verification of student status for student loans
 - Degree certification for employers
- EMREX used for internal mobility, case Poland and Finland



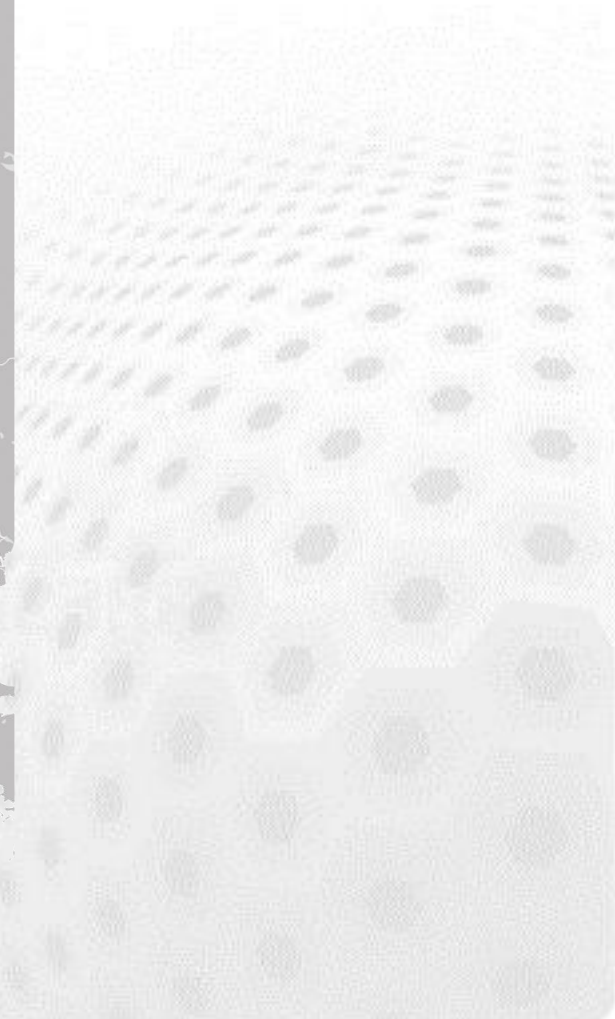
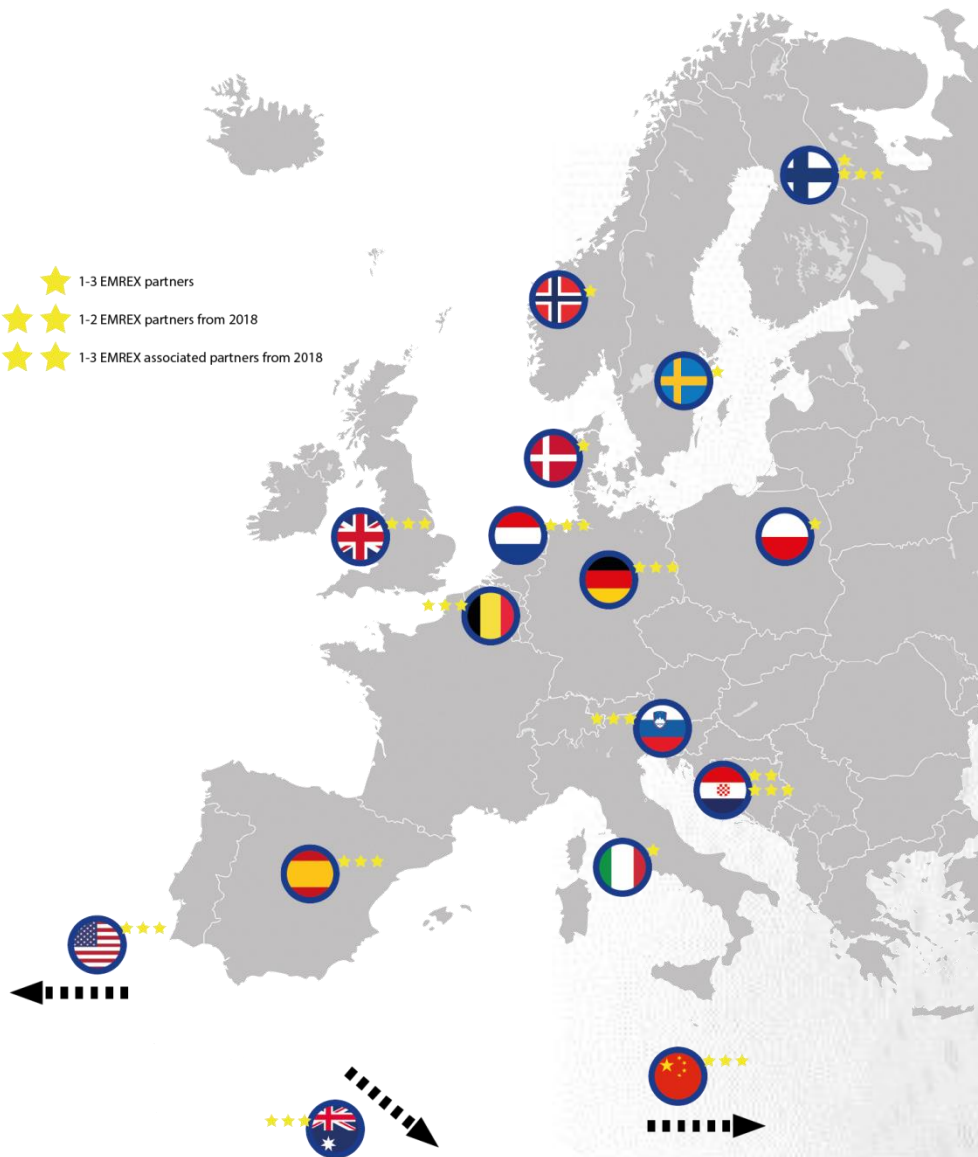


The EMREX network

Co-funded by the
Erasmus+ Programme
of the European Union



- ★ 1-3 EMREX partners
- ★★ 1-2 EMREX partners from 2018
- ★★★ 1-3 EMREX associated partners from 2018





EMREX+ - Main objectives

- Expand the EMREX network to new EU countries and more HEIs in existing partner countries
- Deepen the integration of EMREX into the recognition process
- Define and prototype innovative ways of using EMREX
- Find synergies and cooperation activities with other existing activities
- Develop the ELMO standard
- Open to cooperation with non-EU countries



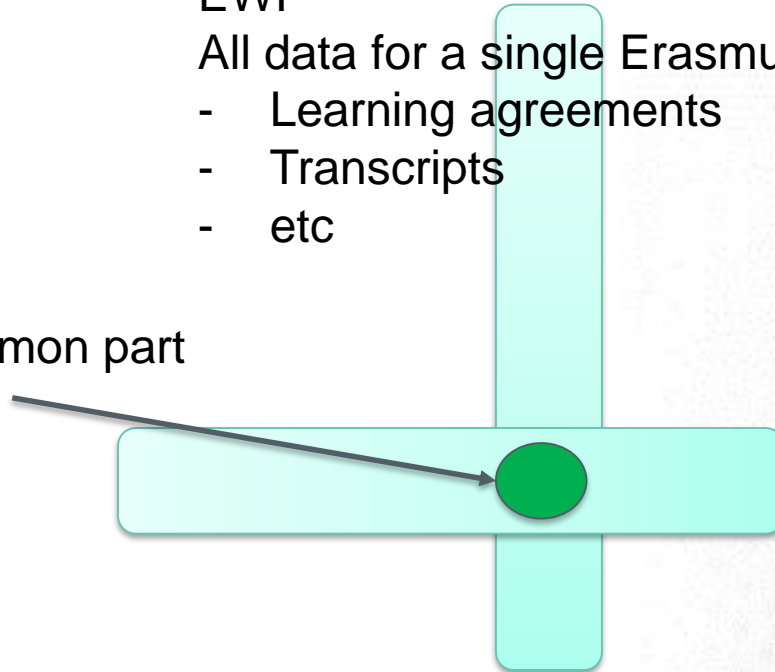
EMREX and EWP

EWP

All data for a single Erasmus exchange

- Learning agreements
- Transcripts
- etc

Common part



EMREX

Electronic transfer of any achievement data for any purpose

- Credit or degree mobility
- Nordplus, Erasmus, free movers etc
- Joint degrees, cross-studies
- Admission, employment

Key differences:

EMREX:

- Student owns the data (MyData)
- Standard data format, no more
- Open platform

EWP:

- HEIs exchange data
- Common API framework
- Closed network



How to join?

- EMREX is open to all, no licence costs
- Testing network available
- Possible to join field trial also as only receiving end
- <http://emrex.eu/#joinus>



Co-funded by the
Erasmus+ Programme
of the European Union



Would you like to know more? EMREX webpage at www.emrex.eu



[News](#) [How to Join](#) [Field Trial](#) [Events](#) [About](#) [Contact](#)

SUPPORTING STUDENT MOBILITY

EMREX IS THE SOLUTION FOR ELECTRONIC TRANSFER OF STUDENT RECORDS BETWEEN HIGHER EDUCATION INSTITUTIONS IN EU

[EMREX VIDEO](#)

[STUDENTS REACT TO EMREX](#)

[STUDENTS REACT TO EMREX-EXTENDED](#)



Co-funded by the
Erasmus+ Programme
of the European Union



Questions?

