The Mobility Project Exchange of data on student mobility

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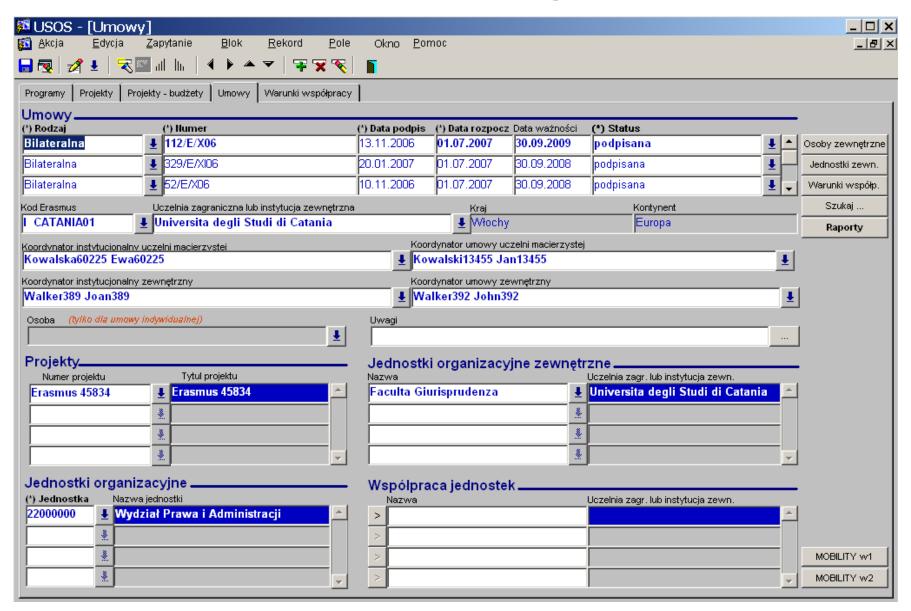
Agenda

- Real life scenarios (motivation)
- Wishful scenarios (goals)
- History of the project
- Plans and conclusions

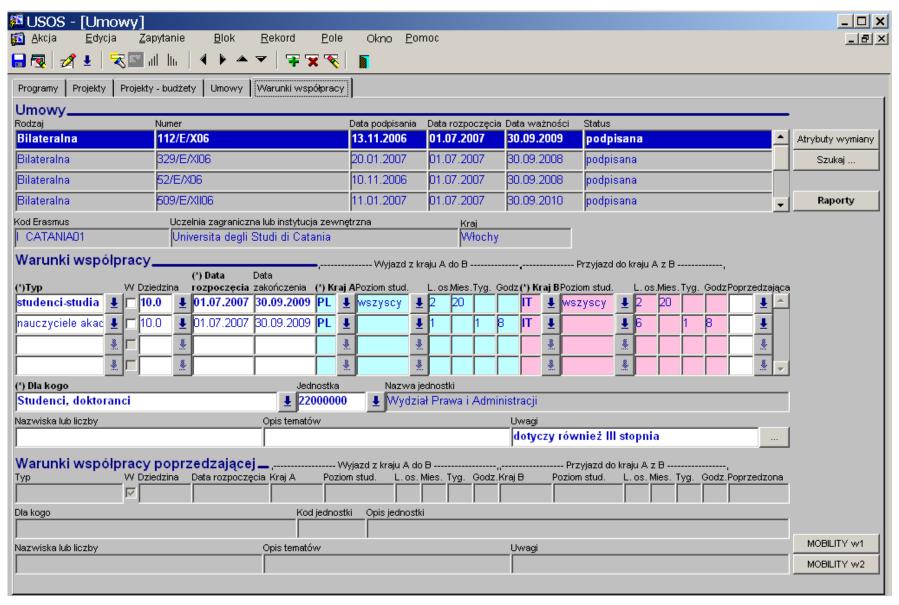
USOS – module for IRO

TASOVIETE	Biuro	W spółpracy z Z agranicą	USOS - BWZ
Studenc	i/uczelnie/inst.	USOS - BWZ, Milego dnia!	
Pı	Olowniki Umowy zyjazdy Vyjazdy Sakończ		
		Komunikaty	
		Użytkownik: Baza: test Wersja: 3.1	

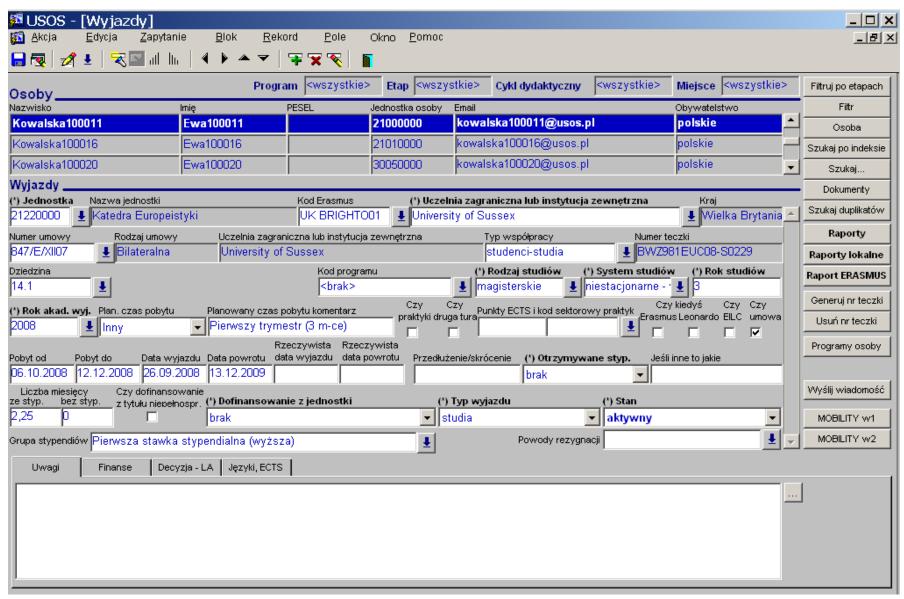
IRO – Bilateral agreements



IRO – Conditions of cooperation

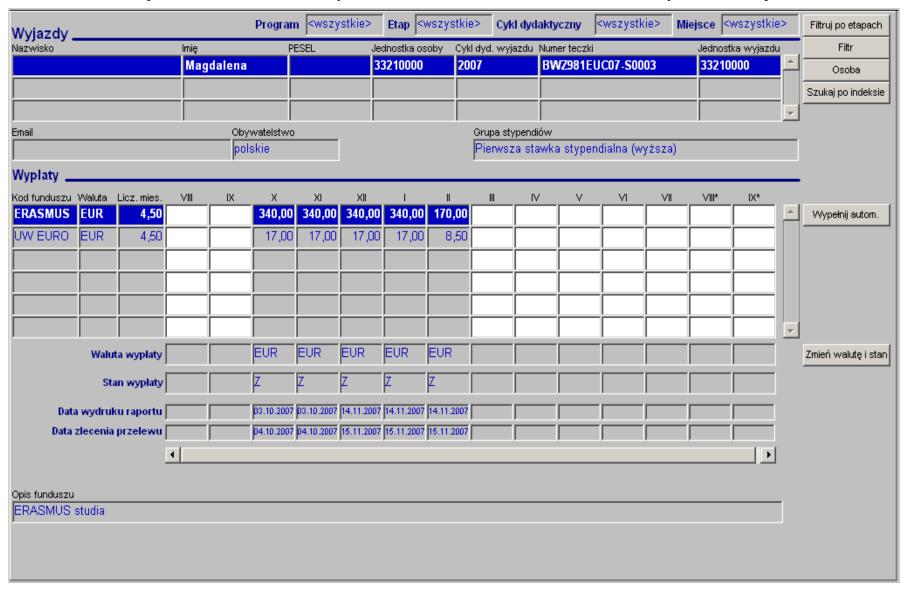


IRO – Incoming and outgoing mobility



IRO – Scholarships

(final amount depends on dates of arrival/departures)





Real life scenario - 1

University of Warsaw

- December-January:
 - Start of the recruitment for outgoing mobility
 - List of offers (resulting from international agreements) is available for students on the web

INTRODUCTION

TESTS

EXAM REPORTS

EDITING COURSES

EXAMS REGISTRATION

POSTULATES

GIVING OPINIONS

STUDENT MOBILITY > coordinated faculties

- ▶ Faculty of
- Mathematics. Informatics, and
- Mechanics ▶ signed
- agreements unsigned agreements
- assign outgoing mobility
- assigned
- outgoing mobilities
- ▶ study programmes
- ▶ mobility offers
- ▶ enrollments ▶ recommendation
- templates ▶ my commissions
- my opinions
- SURVEYS RESULTS

Coordination of Erasmus student mobility

at the faculty/unit: Faculty of Mathematics, Informatics, and Mechanics [select another]



This page displays Signed bilateral agreements that fulfil following

- have status other than 'unsigned' or 'under negotiation'
- terms and conditions of the agreement are linked to following unit: Faculty of Mathematics, Informatics, and Mechanics
- terms, conditions and the agreement itself are still valid,
- terms, conditions and the agreement itself come into effect within a



Signed faculty/unit agreements

Showing first 30 table entries ... show more | show all

No.	Country	Erasmus code	Institution name	Oualifications stage	Id	From	To A	Options
1	(în Polish) Austria	A WIEN01	Universität Wien	podpisana	517/E/XII06	2007-07-01	2010-09-30	details 🕒
2	(in Polish) Dania	DK ODENSE01	Syddansk Universitet	podpisana	659/E/II07	2007-07-01	2010-09-30	details 🖸
3	(în Polish) Dania	DK KOBENHA01	Kobenhavns Universitet	podpisana	214/E/XI06	2007-07-01		details 🛭
4	(în Polish) Dania	DK ARHUS01	Aarhus Universitet	podpisana	193/E/XI06	2007-07-01	2010-09-30	details (
5	(in Polish) Francja	F PARISO13	Université Paris Nord (Paris XIII)	podpisana	282/E/XI06	2007-07-01	2010-09-30	details (
6	(in Polish) Francja	F PALAISE01	Ecole Polytechnique	podpisana	521/E/XII06	2007-07-01	2010-09-30	details l
7	(in Polish) Hiszpania	E VALENCI01	Universidad de Valencia	podpisana	462/E/XII06	2007-07-01	2010-09-30	details (
8	(in Polish) Hiszpania	E BARCELO02	Universitat Autónoma de Barcelona	podpisana	654/E/II07	2007-07-01	2010-09-30	details (
9	(in Polish) Niemcy	D SAARBRU01	Universität des Saarlandes	podpisana	283/E/XI06	2007-07-01	2010-09-30	details B
10	(in Polish) Niemcy	D MUNCHEN01	Ludwig-Maximilians-Universitat Munchen	podpisana	464/E/XII06	2007-07-01	2010-09-30	details B
11	(in Polish) Niemcy	D DARMSTA01	Technische Universität Darmstadt	podpisana	540/E/I07	2007-07-01	2010-09-30	details E
12	(in Polish) Szwecja	S UPPSALA01	Uppsala Universitet	podpisana	202/E/XI06	2007-07-01	2010-09-30	details E
13	(in Polish) Portugalia	P LISBOA02	Universidade de Lisboa	podpisana	995/E/II08	2008-07-01	2011-09-30	details [
14	(in Polish) Wielka Brytania	UK ABERDEE01	University of Aberdeen	podpisana	972/E/I08	2008-07-01	2011-09-30	details E
15	(in Polish) Wielka Brytania	UK EDINBUR01	The University of Edinburgh	przedłużona	1130/E/X08	2009-07-01	2011-09-30	details [



Faculty – Student's application

Motivation letter in a foreign language

Please consider my candidature to the deans founded scholarship.

Dear Sir or Madam.

I am writing to propose my candidature to the Socrates-Erasmus student exchange program in the academic year 2009/10. I'm a student of the fourth year of mathematics. I am studying mathematics as a primary specialization in a Individual Studies Program in conjunction with physics.

It is a great combination which makes studying more interesting and purposeful. I am a hard-working and solid person. A result of that is the fact that every semester I am exceeding the required ECTS numbers and every subject I take on is passed by me. Thanks to such approach I have passed more subjects that were necessary, and I have also passed numerous subjects on the faculty of Physics.

I believe that an international scholarship will be a great opportunity for me to widen my horizons (not only mathematical) and to get more knowledge in various fields. I am aware that it may be a difficult challenge, however I am sure I will be able to cope with it and it will be a great benefit to me as well.

As a person who is travelling a lot, and with good knowledge in foreign languages I hope I won't have any problems to acommodate myself in a new environment. After finishing my master degree I am planning to continue my studies to reach the PhD degree.

Best regards



Priority	Institutions to which the student wants to go. 🚺 (max 3)
1	Université Paris Nord (Paris XIII) (Mathematics)
2	Vrije Universiteit Brussel (Mathematics)
3	Universitat Autónoma de Barcelona (Mathematics)

RLMTODO					
Language	Level				
English	znam język dostatecznie dobrze, by rozumieć wykłady				
French	znam język dostatecznie dobrze, by rozumieć wykłady				
German	znam język dostatecznie dobrze, by rozumieć wykłady				

Courses with marks (ma					
1000-135RC1a	Partial differential equations I	4,5			
1000-1L00RR	Differential equations in natural sciences	5			
1000-135ST1	Statistics I	4,5			

Opinion	(min 1)(max 1)		
RLMTODO	Status 🚺	Options 🚺	
Grzegorz Łukaszewicz	submitted	→ view	



Real life scenario - 2

- March: Lists of nominations are ready, approved by departmental Erasmus coordinators (University of Warsaw just finished recruiting outgoing students for 2011/2012 → 1232)
- May: Learning Agreement for each student is ready, approved by home and partner coordinators



POSTULATES

GIVING OPINIONS

STUDENT MOBILITY

- coordinated faculties Faculty of Mathematics,
 - Informatics, and Mechanics signed
 - agreements unsigned agreements
 - assign outgoing mobility
 - assigned outgoing mobilities
 - ▶ learning agreement decision
 - study programmes
 - mobility offers ▶ enrollments
 - recommendation templates
- ▶ my commissions my opinions

SURVEYS RESULTS



Learning Agreement has been approved. It should be printed and signed (correspondence will ensue). Subsequent edition of the agreement is possible until its expiration date in USOSweb.

In reference to

Student:	Michał Bendowski
Study program:	DZ-INF - Bachelor's degree, first cycle programme, Computer Science
Period of study:	I3 - Computer Science, 3rd grade
Term:	2009 - Academic year 2009/10

General information

	Decision number:	102582
	Decision date:	2010-03-23
i	Decision type:	REPLACEMENT
	Decision state:	W - to be completed modification deadline: 2011-03-15
i	Stage of creation:	Accepted
	Next period of study:	(no change)
	Comment:	Porozumienie w sprawie programu zajęć (LA)

External courses

No	Name	Term	Passed	ECTS	Language	i	Coordinator	Status	Options
Curre	Current approved course list								
1.	Logical Verification	2010L	NO	6.00	English	none / none	(unknown)	Z - approved	
	LAB WYK EGZ Educational institution: Y	Vrije Unive	rsiteit Amste	erdam					
2.	Network Programming	2010L	NO	9.00	English	none / none	(unknown)	Z - approved	
	WYK LAB EGZ Educational institution: Y	/rije Unive	rsiteit Amste	erdam					
3.	Operating Systems Practical	2010L	NO	9.00	English	none / none	(unknown)	Z - approved	
	LAB Educational institution: Vrije Univer	rsiteit Ams	terdam						
4.	Scientific Writing in English	2010L	NO	3.00	(unknown)	none / none	(unknown)	Z - approved	
	PRA-P WYK Educational institution: Vrij	ie Universi	teit Amsterd	am					
5.	Software Configuration Management	2010L	NO	6.00	English	none / none	(unknown)	Z - approved	
	CW PRA-P WYK Educational institution: Vrije Universiteit Amsterdam								
	Total number of ECTS credits attempted: 33,00 👖								



Real life scenario - 3

- International Relations Office is ready to deliver lists of nominated students to partner institutions
 - Personal data
 - Learning agreement
- When student returns (after a semester or a year) International Relations Office would like to get:
 - Trancript of records
 - Exact dates of arrival and departure (to calculate exact amount of scholarship)

Learning Agreement

LEARNING AGREEMENT Academic year: Winter semester 2009/2010 Field of study: Informatics, Computer Science (code 11.3)

Field of study: Informatics, Computer Science (code 11.3)					
Name of student:					
Aleksander G					
Condition in division		Country			
Sending institution:	*				
University of Warsaw		Poland	l		
DETAILS OF THE PROPOSED STUD	Y PROGRAM ABROAD/LEARNING AGREEMENT				
Receiving institution:		Country	<i>/</i> :		
Université Paris Nord (Paris	XIII)	France	•		
Current version					
Course unit code (if any)	Course unit title (as indicated in the information pa	ckage):	Number of ECTS		
			credits if applied		
	Algorytmique parallele et distribuee		4		
	Analyse de Fourrier et theorie du signal		4		
	Calcul haute performance	•	5		
	Modelisation mathematique pour le traitment d	es images	5		
	Programmation mathematique approfondie		5		
	Systemes distribues		4		
Date	Student's sign	ature:			
SENDING INSTITUTION					
We confirm that this property of program or suruy-re-	ing agreement is approved.				
The document has been automatically general		t has been automatically generated from the elect			
system USOS. The study program listed abou		The study program listed above has been appro	wed by		
Erasmus Departamental Coordinator.		tutional Coordinator.)		
Date: 2009-11-14	Date: 2009-11	1-14			
DEAGN/NIO NIOTITITION					
RECEIVING INSTITUTION					
We confirm that this proposed program of study/learning agreement is approved.					
Departmental coordinator's signature		Institutional coordinator's signature			
D-4					
Date:	Date:				

Learning Agreement → Transcript of Records

In reference to

Student:	Piotr S		
Study program:	DM-JSIM - Double Degree Program in Computer Science and Mathematics		
Stage:	JSIM4I - Fourth year JSIM 3I+4M		
Term: 2007 - Academic year 2007/08			

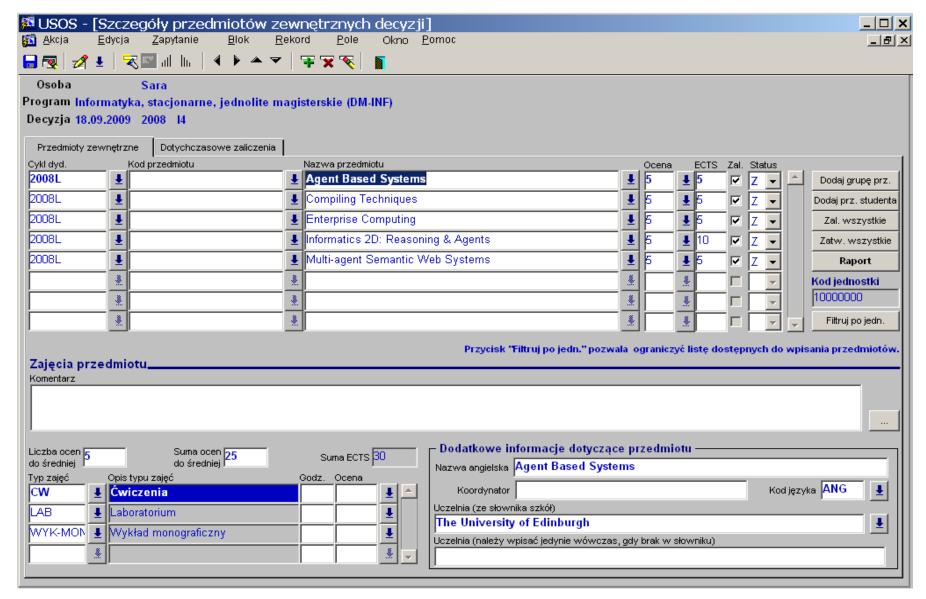
General information

	Decision number:	75064
	Decision date:	2008-08-17
i	Decision type:	MODIFICATION
	Decision state:	Z - approved
i	Stage of creation:	Filling in
	Next stage:	(no change)
	Comment:	Porozumienie w sprawie programu zajęć (LA)

External courses

#	Name	Term	Passed	ECTS	Language	i	Coordinator	Status
1.	Agent Based Systems U02497	2007	YES	5.00	English	none / none	Michael Rovatsos	Z - approved
	CW (8 hours), WYK (20 hours). Institution: (in Palish) The University of E Inburgh							
2.	Computer Communications and Networks U03858	2007	YES	5.00	English	none / none	Mahesh Marina	Z - approved
	WYK (20 hours). Institution: The University of Edinburgh							
3.	Computer Security U03025	2007	YES	5.00	English	none / none	David Aspinall	Z - approved
	WYK (20 hours). Institution: (in Palish) The University of Edinburgh							
4.	Enterprise Computing U01902	2007	YES	5.00	English	none / none	Stephen Gilmore	Z - approved
	CW (8 hours), WYK (20 hours). Institution: (in Polish) The University of E linburgh							
5.	Informatics 2D: Reasoning & Agents U02602	2007	YES	10.00	English	none / none	Jacques Fleuriot, Michael Rovatsos	Z - approved
	CW (10 hours), LAB (20 hours), WYK (30 hours). Institution:	(in Palish) T	e University o	of Edinburgh				
	max ECTS to achieve: 30.00							
	ach	30.00	i					

Grades from the University of Edinburgh



Diploma supplement

DIPLOMA SUPPLEMENT

Valid with the Diploma no 1000/46331/2009

I. INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION

- 1. Surname: S
- 2. First name(s): Piotr Krzysztof
- 3. Date of birth (day, month, year): 24.09.1985
- 4. Student identification number or code: 219737

II. INFORMATION IDENTIFYING THE QUALIFICATION

- 1. Diploma number: 1000/46331/2009
- 2. Name of qualification and the title conferred 1) magister
- 3. Main field of study and field of specialisation for the qualification: Computer Science
- 4. Name and status of awarding institution 1).

Uniwersytet Warszawski

Uniwersytet Warszawski, established in 1816 is a public higher education institution. The university is entitled to confer the degrees of 'doktor', 'doktor habilitowany' and apply for the title of 'profesor'. The university educates students in the spirit of Magna Charta Universitatum and is also a party to the Agreement of Polish Universities on the Quality of Education, as a result of which the University Accreditation Commission was established.

5. Name and status of institution administering studies 3.

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The University of Edinburgh - United Kingdom

-6. Dungaage(s) of instruction/examination. Politics, English

III. INFORMATION ON THE LEVEL OF QUALIFICATION

- 1. Level of qualification: second cycle programme
- 2. Official length of programme: 5-year studies (3+2)
- 3. Access requirements: maturity certificate or entrance examination

Computer Security	wyk 20	5	5
Computer Communications and Networks	wyk 20	5	5
Enterprise Computing	wyk 20/cw 8	4	5
Agent Based Systems	wyk 20/cw 8	4,5	5
Decision support systems	sem 60	4,5	12
Distributed Systems	sem-mgr 60	ZAL	6
Informatics 2D: Reasoning & Agents	wyk 30/cw 10/lab 20	4,5	10



Real life scenario - 4

Similarly for incoming students ...

Admission of incoming students



mobility.uw.edu.pl > Home

Welcome to the online application for short-term studies

In order to apply for short-term studies at the University of Warsaw please <u>create a</u> new account and then follow the instructions.

E-mail:							
Password:							
	Log in						
Create a new account Recover forgotten password							

Application Deadlines 2011/2012:

Full academic year or first semester (starting October 1st, 2011): May 15^{th} , 2011

Second semester (starting February 13th, 2012): November 15th, 2011

Admission of incoming students



Application

Step by step

- All personal data completed. Review and modify.
- 2. Accommodation decision made. Review.
- 3. Status filled in. Review and modify.
- Studying details completed. Review and modify.
- 5. 🔞 <u>Upload your documents.</u>
- 6. 🔞 The confirmation of acceptance.
- 7. 🔞 Send the application form by post.

Message inbox

No new messages.

Real life scenario – 5 Sending data from home to partner institution



(all pictures are obtained from the Internet)

Real life scenario – 6

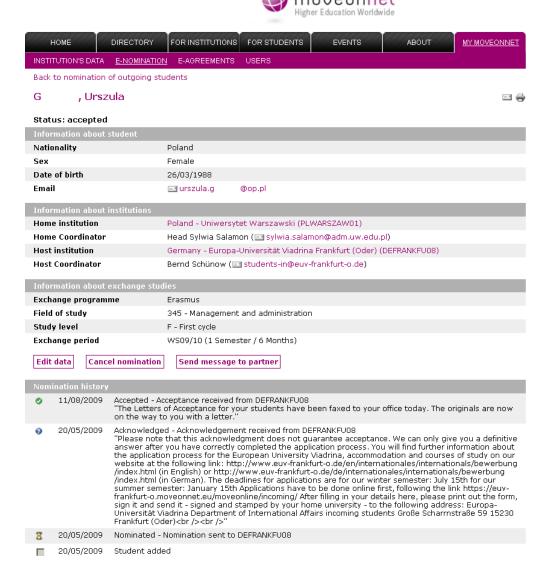
Nominations are:

- typed manually into partner's system (many different systems, many different styles and requirements)
- scanned,
- faxed,
- delivered by phone call

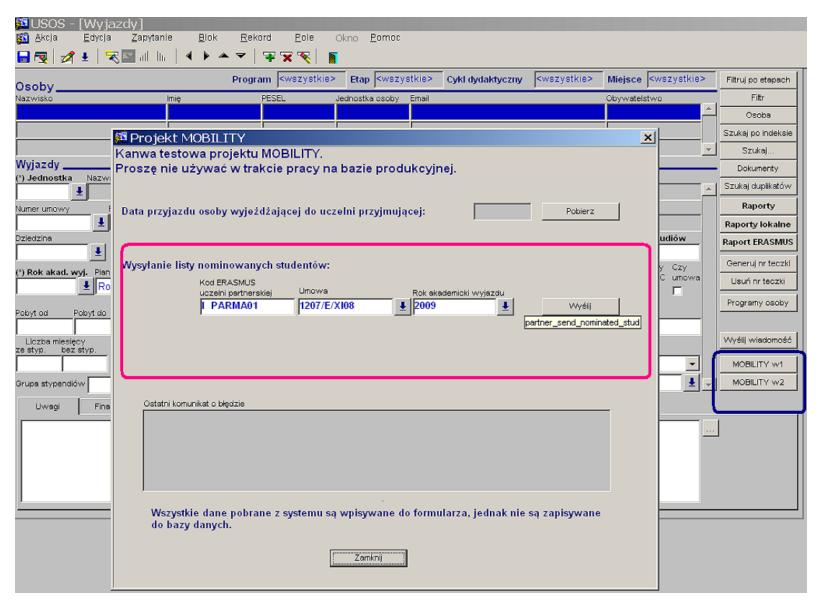
• ...

Usually many times (updates are common)

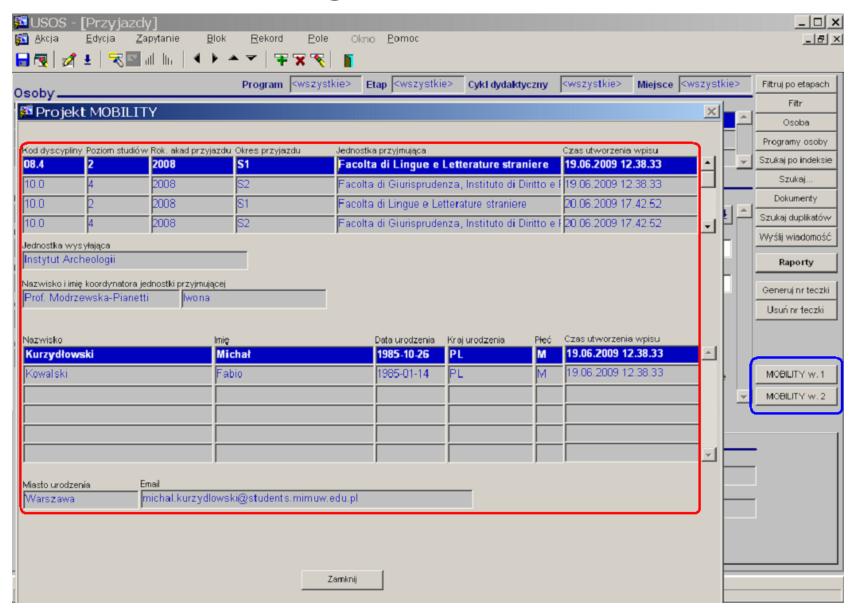
Problems with national alphabets (data coding):
a, e, ł, ń, ó, ś, ź, ż



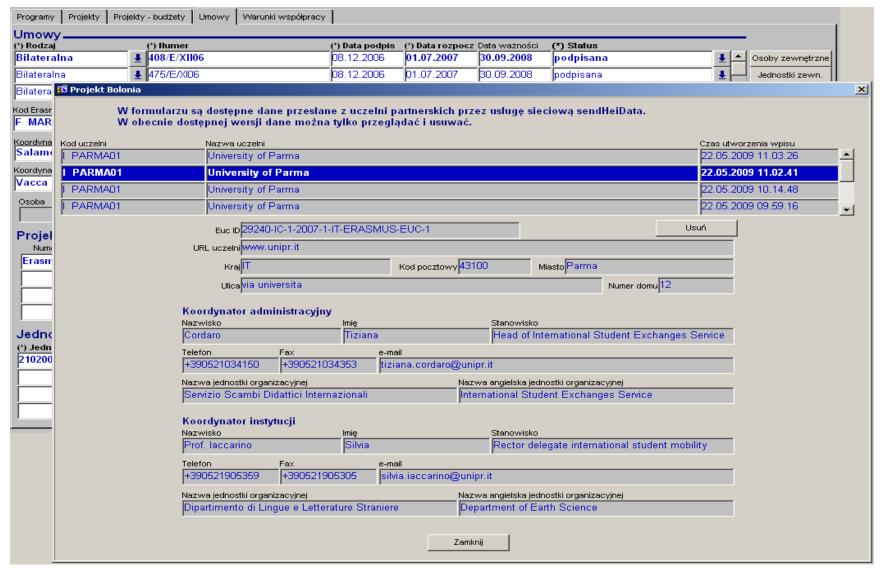
Real life Wishful scenario List of nominated students → SEND button



List of incoming students → GET button



Organization data of the partner institution → GET button





Exchanged data ...

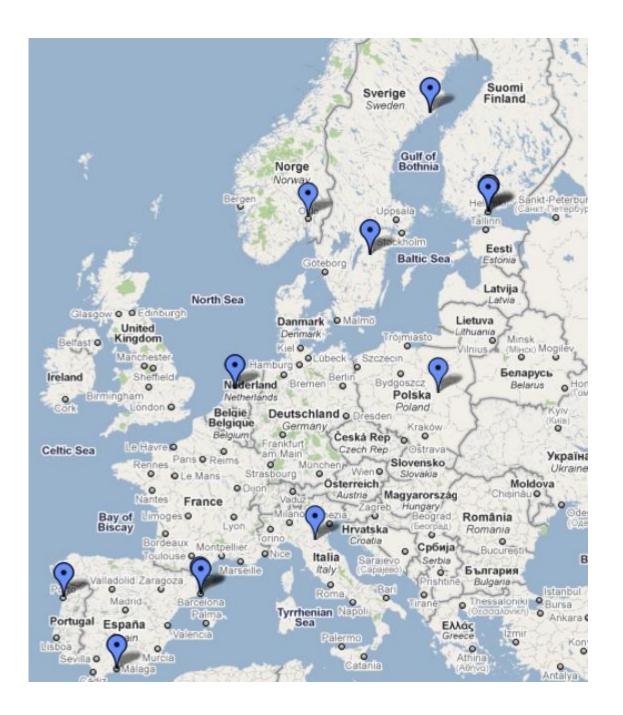
- International cooperation
 - HEI information record
 - Bilateral agreement between two HEIs
- Mobility (incoming and outgoing)
 - Students nominated for mobility
 - Course catalog
 - Learning agreement
 - Transcript of records

GOAL → STOP SENDING PAPER,

EXCHANGE DATA ELECTRONICALLY

BY PUSHING BUTTONS

Mobility nodes?





SEND and GET buttons (web services)

```
sendOrganizationData()
getOrganizationData()
sendAgreementData(), getAgreementData()
sendNominatedStudents()
getNominatedStudents()
sendArrivalDate(), getArrivalDate()
sendDepartureDate(), getDepartureDate()
sendLearningAgreement()
getLearningAgreement()
sendTranscriptOfRecords()
getTranscriptOfRecords()
getCourseData()
validateNationalPersonalID()
```



The Mobility Project – History 1

- June 2008, EUNIS 2008 (Aarchus)
 - Presentation of the USOS Mobility module for IRO
 - MUCI (Polish consortium) and CINECA (Italian consortium) decide to start the project
- June 2009, EUNIS 2009 (Santiago de Compostela)
 - First version of the mobility network (with two nodes) is presented
 - First workhop of **RS3G** standardization body gathers other interested groups



The Mobility Project – History 2

- November 2009, RS3G Workshop (Uppsala)
 - Brings together consortia and companies willing to take an active part in the project
 - Main problem domains identified
- March 2010, RS3G Workshop (Bologna)
 - Brings together the Mobility Group and TERENA
 TF-EMC2 to discuss the aspects of security and of identity and access management
 - Possible solutions outlined



The Mobility Project – History 3

- June 2010, EUNIS 2010 (Warsaw)
 - RS3G workhop some important plans made on how to speed up the project
- December 2010, RS3G workhop (Malaga)
 - Join meeting with TERENA TF-EMC2, technical security details discussed and approved
- March 2011, RS3G Coding Camp (Barcelona)
 - Meeting IRO people, discussing technical issues, extending network of mobility nodes
- May 2011, TNC'2011 (Prague)
 - Presentation of the Mobility Project to at the annual TERENA conference



Problems to solve, steps to make

- Recognize real life scenarios of various universities, describe business cases, test business model - processes are similar but local requirements and procedures need not (IRO staff)
- Agree on the amount and format of exchanged data (IRO staff)
- Develop software involve software vendors from various European countries (IT people)
- Deploy software in cooperation with partner institutions (IRO staff and IT people)
- Enjoy mobility without paper (is it possible)?