

Erasmus going digital

2018 October 18

University of Barcelona



Political successes

A European Area of Education should include:

- [Making mobility a reality for all](#): by building on the positive experiences of the Erasmus+ programme and the European Solidarity Corps and expanding participation in them as well as by creating an **EU Student Card** to offer a new user-friendly way to store information on a person's academic records;

Ensure that all mobile students have an EU student eCard to facilitate their application to any school or university in the EU. Double the number of young people in the EU participating in Erasmus+ (from 3.7% to 7.5%), which will require a budget of EUR 29.4 billion for the period 2021-2027.

Strengthening European Identity through Education and Culture The Commission's Contribution to the **Leaders' Working Lunch Gothenburg, 17 November 2017**
#FutureOfEurope #EURoad2Sibiu

MAKING MOBILITY A REALITY FOR ALL

Political successes



EMPOWERING
EHEA Paris 2018
EUROPE'S YOUTH

Conférence ministérielle européenne
pour l'enseignement supérieur



EUROPEAN
Higher Education Area

Paris Communiqué:

We also note with interest the current “European student card”
EU pilot project,
which could potentially be broadened

to support and facilitate student mobility throughout the entire EHEA.



Political successes

European Commission:

Taking forward the European Student Card Initiative

- **March 14, 2018**
- **June 29, 2018**
- **October 10, 2018**

The European student card initiative =

The convergence between

- **3 Erasmus projects**
- **3 CEF projects**

Convergence, roadmap

Once only principle



**THE EUROPEAN
STUDENT CARD**

UNIVERSITÉ BOURGOGNE FRANCHE-COMTÉ

NOM

Prénom

Date de naissance

INE

N°étudiant



UNIVERSITÉ DE FRANCHE-COMTÉ

Cette carte est strictement personnelle et non cessible. Toute personne trouvant cette carte est priée de l'adresser sous pli non affranchi à l'expéditeur : Université de Franche-Comté, 1 rue Claude Goudineau, F-25000 Besançon Cedex.

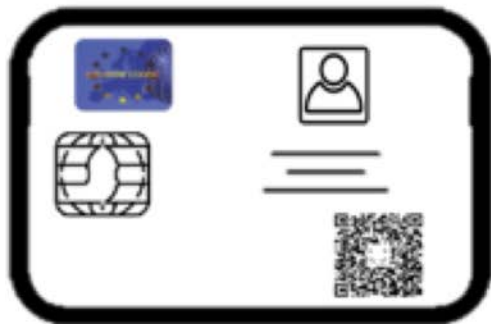
PASS'UBFC

MA CARTE MULTISERVICE
EN BOURGOGNE FRANCHE-COMTÉ



European student card fundamentals

- A graphic « European Student » identity: Logo/hologram

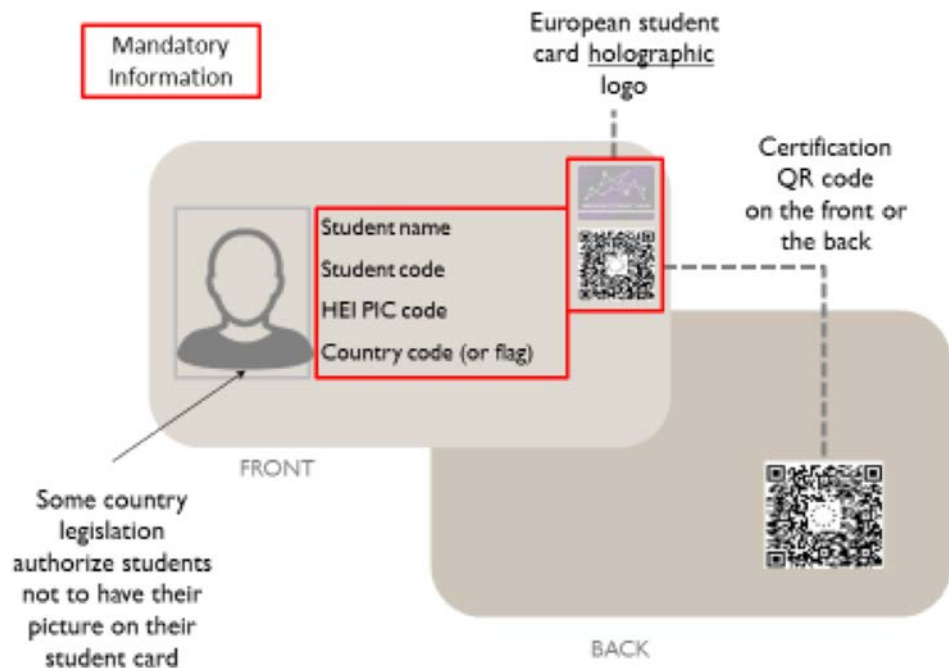


- **Interconnecting of European HEIs (data providers)**
 - For sharing the student status between HEIs: common e-ID
 - For exchanging data between HEIs in order to simplify procedures and ensure access to services provided by the HEIs





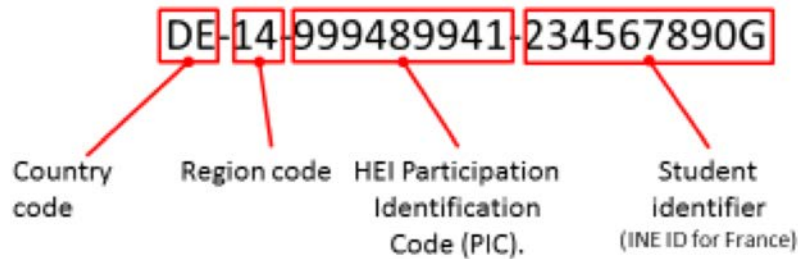
Description of the card : mandatory visual components



Uniqueness of student identification number

Although the ESC-R handles student cards rather than student, having a universal student identifier is a necessity for all service providers, who need to be able to link a card to a specific person in order to process it in their own information system.

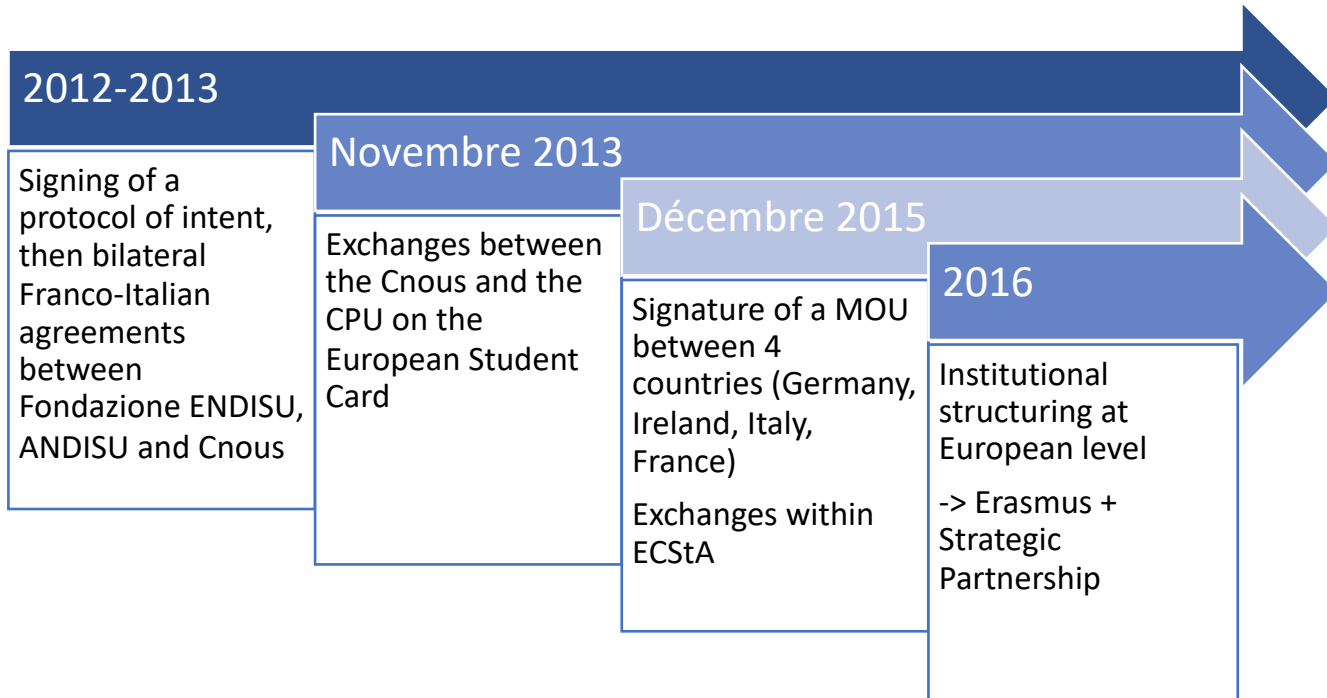
The ESC student ID is built as follows :



- By using this method, the uniqueness of this identifier is guaranteed. Two students will never have the same identifier.
- However, a student will have as many ESI that he is enrolled to different HEI. Thus, this identifier is not stable during his studies, even less his lifetime.
- Furthermore, a student may have two different ESI at the same time, and as many different student cards, when he has enrolled to a degree co-accredited by two institutions.



Historique



CHRONOGRAM



04.2013

Bilateral agreement between ANDISU, For dazione ENDISU and Cnous



Launch of F. Endisu's project by Stefania Giannini, Minister of Education, Universities and Research in the presence of Cnous

10.2014



Presentation of ESC project to European Commission

10.2015



Discussions Cnous – CPU



International conference on European values, vision and mission in Student Affairs



Presentation of the National plan for Student life, measure n°9 / 60th anniversary celebrations of Cnous

05.2016



Meeting of French and Italian Ministers for Education in Florence → Implementation of the experimentation of the ESC project

03+07.2016



Application for Erasmus+ funding, action key 2 Strategic partnership
Selection results – project approved / grant allocated

10+11+12.2015



Technical meetings
Signing of a Memorandum of understanding

10.2016



Creation of a national Steering committee involving all stakeholders of Higher Education in the ESC project

11.2016



ESC Kick-off meetings

06.2017




ESC Mid-conference in Germany

06.2018



Final conference → Proposal to generalize ESC to the 47 countries of the EHEA as one of the priorities to be adopted at the next Ministerial Conference "Bologna" in 2018

Validation du :

-  ités
- Plan de communication / dissémination plan
- Plan d'évaluation

Expected results: conceptual phase

Rapport technique de mi-parcours



Création du logo projet



Rapport d'évaluation de mi-parcours



Rapport de communication & dissémination de mi-parcours



Nov. 2016

Nov. 2016

Nov. 2016

Jan. 2016

Mars 2017

Avr. 2017

Mai 2017

Juin 2017

Rapport
Août 2017

Mise en place des groupes de travail sur les usages et les services + communication/

Mise en place de la plateforme collaborative

Mise en ligne du site internet du projet

2^{ème} réunions en présentiel Berlin

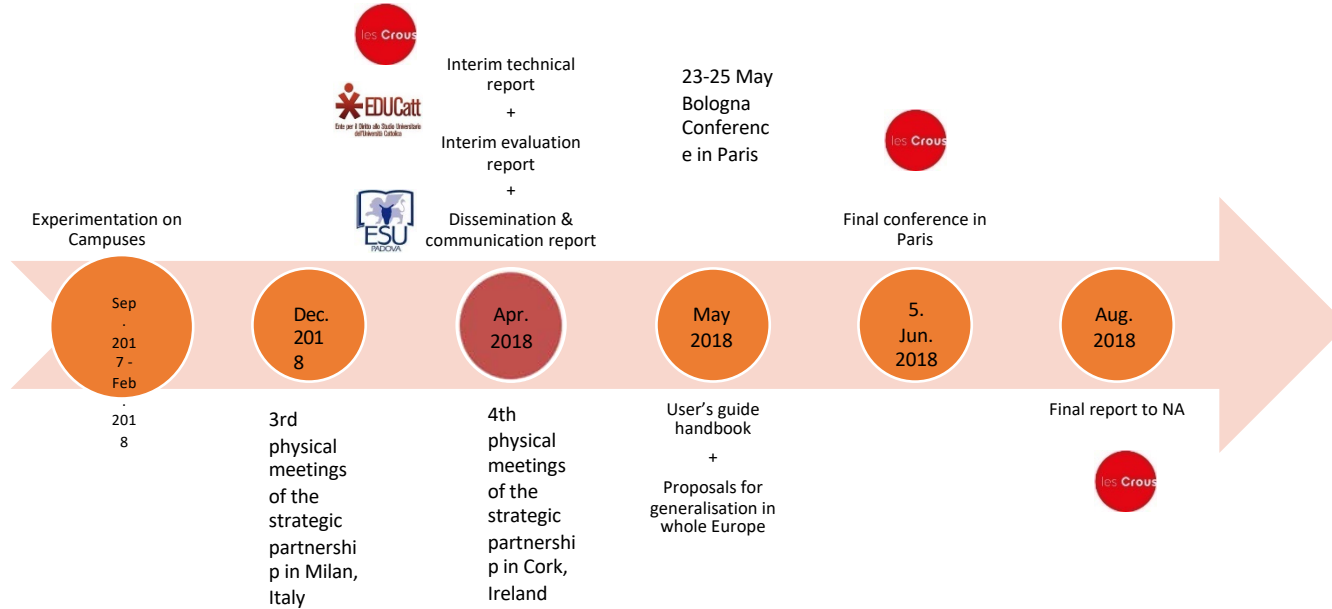
Prototypage de la plateforme d'échange + guide spécifique

Conférence de dissémination de mi-parcours
 Münster

parcours à envoyer à l'agence Erasmus+



Expected results Experimentation



the deliverables: ESC- Router



Why



- Create a "trusted third party" that certifies the student status of the bearer of a card
- Facilitate access to services for mobile students
- Facilitate the exchange of information/Data between institutions



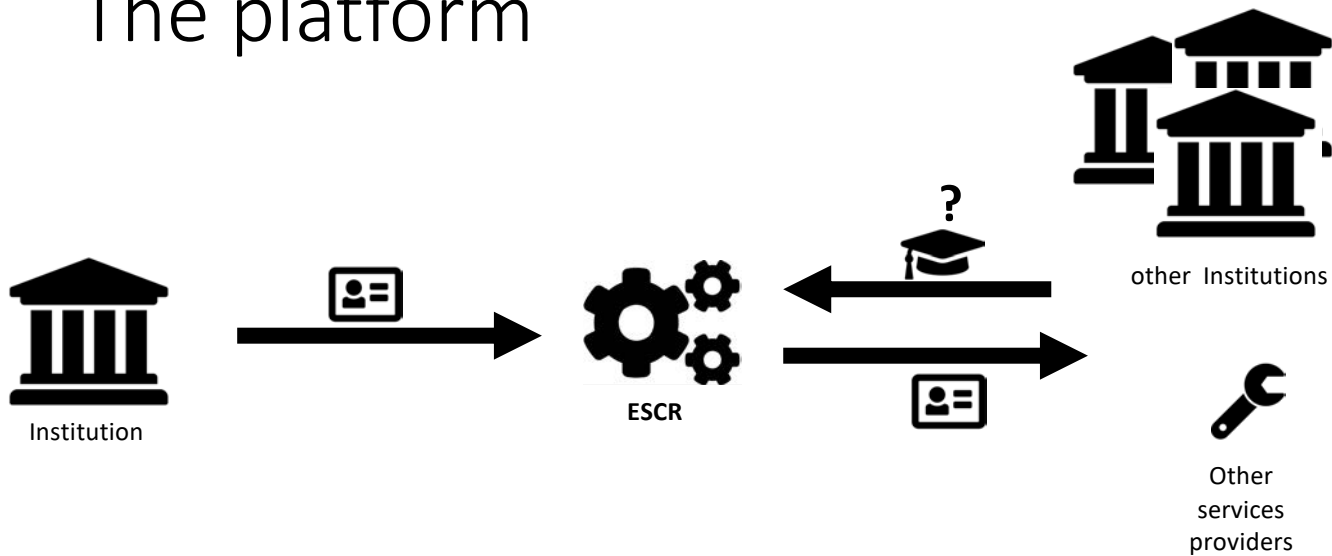
How ?



Creating a platform: The « ESC – Router »



The platform



Supervisors



- Supervises 1 ou several countries :
 - registers the institutions
 - Validates the connection requests

Administrators



- Administers his institution
 - Consult the documentation
 - Look at the cards created
 - Generate the API access key

The identifiers

- ESI - European Student Identifier
 - Country Code (ISO3166-1)
 - Region Code (NUTS level 1,2 or 3) - optional
 - PIC: Participant Identification Code (Horizon 2020)
 - Local student number at the institution
 - Separator: - (Standard hyphen: U + 002D)
 - Example: FR-999859608-1234567890GESCN

- European Student Card Number ESCN
 - Local generation without connection required
 - Uniqueness of algorithm guaranteed number (RFC-4122)
 - Library available for .NET and Java
 - Example: 6a01dfc0-cb98-1035-a19b-001999859608




QRCode



<http://esc.gg/00841d99-2c2b-48c9-bb3a-c6ab7e6335e4>



To Do List for the institutions

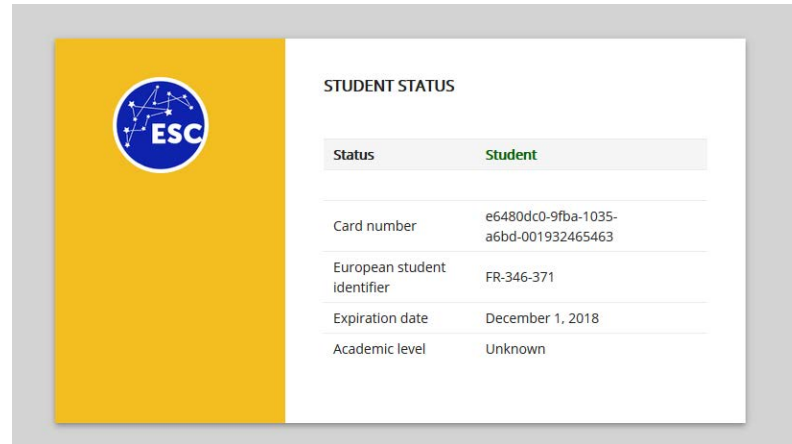
- Put a hologram on his cards 
- Request the creation of an account on the ESCR
<https://router.europeanstudentcard.eu/register>
- Integrate libraries for the generation of the ESCN
- Print the QRCode
- Send student data and maps to ESCR via API

Documents available on

<https://router.europeanstudentcard.eu>

Use case 1/2

Testify of the status of the student



The screenshot displays a user interface for a student's status. On the left is a yellow vertical bar with the ESC logo. The main content area is titled 'STUDENT STATUS' and contains a table of student information.

Status	Student
Card number	e6480dc0-9fba-1035-a6bd-001932465463
European student identifier	FR-346-371
Expiration date	December 1, 2018
Academic level	Unknown

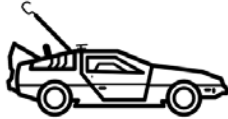
Use case 2/2

Student Portal

- Students can access a catalog of accessible services in partner institutions
- Some services can be activated from the portal



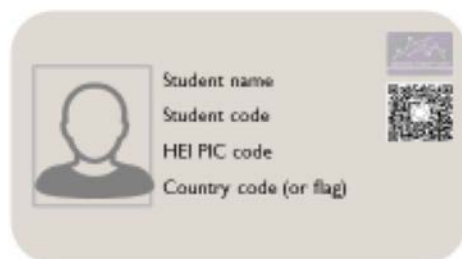
To be deployed



- Store the ESCN in the chip of the card
- Authentication by eduGain identity federation

Card physical medium : active or passive

Passive

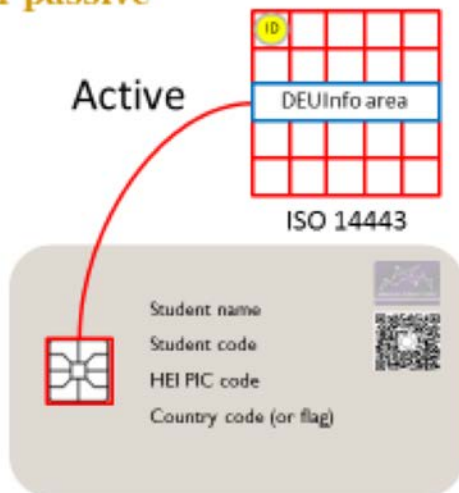


Card embedding no electronical device

All the information can be accessed from the card surface

The extent of functions associated to the card is restricted to visual check and QR code reading

Active



Card embedding micro-chip

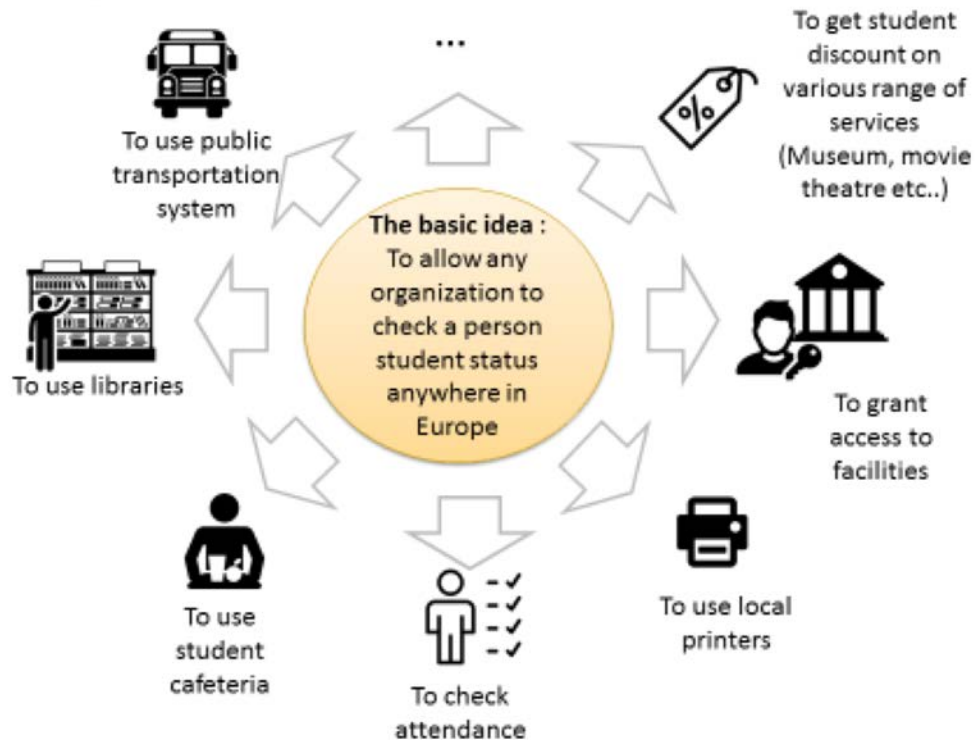
Some of the card information is stored on the chip itself.

This information can be used to grant services without connection to the ESC-R.

A specific data zone will be normalized to store the ESC data (DEUInfo)



The long-term objectives



Current focus

There are currently 3 axes on which the ESC must demonstrate its usefulness :

- ↪ Use of merchant services :
 - The idea is to allow service providers to check student status of a customer to make sure he or she is eligible to use the service
 - This can potentially be completed with the use of electronic wallets (like Izly in France)
- ↪ Use of service in university libraries, to make it possible for any student
 - To access libraries, with potential restriction based on their field and/or level of study
 - To potentially borrow books from the library using his card.
- ↪ Mobility of students from one institution to another within Erasmus;
 - To facilitate student enrolment
 - To facilitate access to local services and facilities



The deliverables

The territories of experimentation

- EUCOR – The European Campus
- University College Cork
- EDUCatt Università cattolica
- UBFC

Les territoires d'expérimentation :

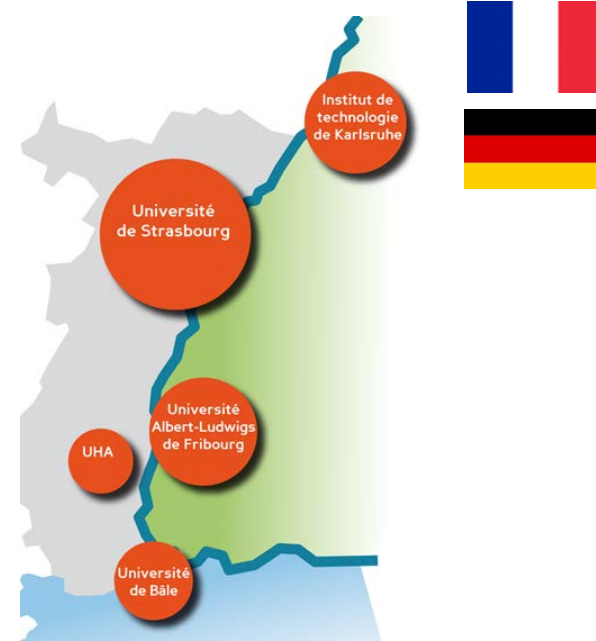


CSSI / University college
Cork



EDUCatt

La carte europ enne de l' tudiant



Eucor – le campus europ en

A venir: davantage de campus en France
→ signature de protocoles formels entre le COPIL
et les campus qui souhaitent participer  
l'exp rimentation (COPIL + CNCE)

Status report

Experimentation on real student mobilities

- **Definition of cohorts and diverse typology of mobilities**
- **Coordination within the HEI (CDO and other departments)**
- **Partnerships/matching of HEI exchanging students**
- **Surveys on students and HEIs involved in the experimentation**

Student cohorts: experimentation

- **University Bourgogne Franche-Comté: Erasmus mobilities**
- **Unistra: exchanges with Karlsruhe, Freiburg and Cork**
- **EDUCatt: Universitat Rovira i Virgili + other HEI**
- **University college Cork: exchanges with Unistra**

Presentation - Surveys on students and HEI's involved in the experimentation

2 sets of questions regarding:

- Experimentation on campus (implementation by HEIs)
- Student cohorts testing the solution

Student cohorts and services for the experimentation

Territories / campus	Types of mobility	Library	E-payment	Erasmus without paper tools	Other services (optional)
Eucor, the European campus University Strasbourg-KIT	PHD student Co-diplomas	Yes	Yes	No	?
UCC	Erasmus student using home HEI card (Casual mobility)	Yes	No	Yes	?
EDUCatt	Erasmus student using home HEI card (Casual mobility)	Yes	No	?	Health Access to University catering
University Bourgogne Franche- Comté	Erasmus mobility	Yes	Yes	Yes	?
Campus Card Berlin	Erasmus mobility	Yes	Yes	Yes	?

Working group on uses & services

WG MEMBERS

3 key services:

- **E-payment**

→ Eucor, the European campus, DSW, Instituto Politecnico do Porto, STW Freiburg and STW Karlsruhe, Fondazione ENDISU, Crous de Strasbourg, Cnous, HRK, EDUCatt, UNISTRA

- **Libraries**

→ Universität Jena, Université de Tours, ADBU, University College Cork, Università Tor Vergata, Campus card Berlin, UBFC, EDUCatt, Crous BFC, EDUCatt, UNISTRA, HTW Dresden, HRK

- **Erasmus mobilities**

→ EWP, UBFC, Crous BFC, ESN, ESU, EDUCatt, University College Cork, HRK, DSW

WG – E-payment

- **In France : offer access Izly services to any student holder of an ESC**
 - Student interface has been developed / linked with Izly platform
 - Accessible to any international student with ESC (from ESC Student interface or at restaurant cashier) (even free movers)
- **In Germany: integration of Izly system in Karlsruhe in progress** (KIT and StW Karlsruhe)
 - Izly as second e payment system on Karlsruhe Student cards ? Or selling point linked to Strasbourg center ? or issue local card after checking student status with ESC ?
 - Aim to a national e payment system for Germany (one cashier solution provider for 52 StW)
- **In Italy: access to university restaurants granted by reading the QR Code on the Esc allowing the recognition of student status and identity** (issuing at front desk a local card to pay the meal at restaurants and web access to set up e payment system)

Recommandations/upcoming:

- Reflect on how to ease access to services through the ESC-R thanks to the reading of the QR code (i.e. library, Karlsruhe wallet...)
- Gather documentation of each experimentation territory of what kind of software and hardware is used and what is the technical issues to integrate Izly

WG – E-payment

Recommandations/upcoming:

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- Link the web accessible application to the ESC-R to allow students to activate their service on their interface

WG - Libraries

- **In France: free access to libraries**
 - Reflections in progress to clarify the process for borrowing books
 - ADBU : reflection at national level (LIBER : European level ?)
 - UBFC makes available a QR Code reader tool
 - UNISTRA : pass campus
- **In Germany: interconnection of library information systems belonging to Campus Card Berlin network**
 - Access + borrowing book (terminal), by registering at front desk
 - self service borrowing of books (RFID on books)
 - Home Univ. library ID accepted, current barcode
 - Use of an RFID reader (100 €)
 - User ID hold on the chip of the student card : if ESC technologogu allows it : library ID written on chip
- **In Italy: access to library + digital resources** (only by WIFI on campus) by presenting the QR Code enabling the recognition of the student status, and ESC with hologram
borrowing possible if student stay long enough
- **In Ireland: access to libraries** by presenting the QR Code enabling the recognition of the student status (restricted access)

WG - Libraries

Upcoming

→ two ways for activating rights :

- at front desk with ESC
- from the student interface on ESC-R

→ distance access to digital services and distance borrowing not a matter for ESC

→ student interface

- technical sheet for services providers
- informations (attributes) : name/first

name/civility/birth/address/e

mail/phone

→ Set up an agreement between the HEI involved in the experimentation
home institution commitment with the host institution

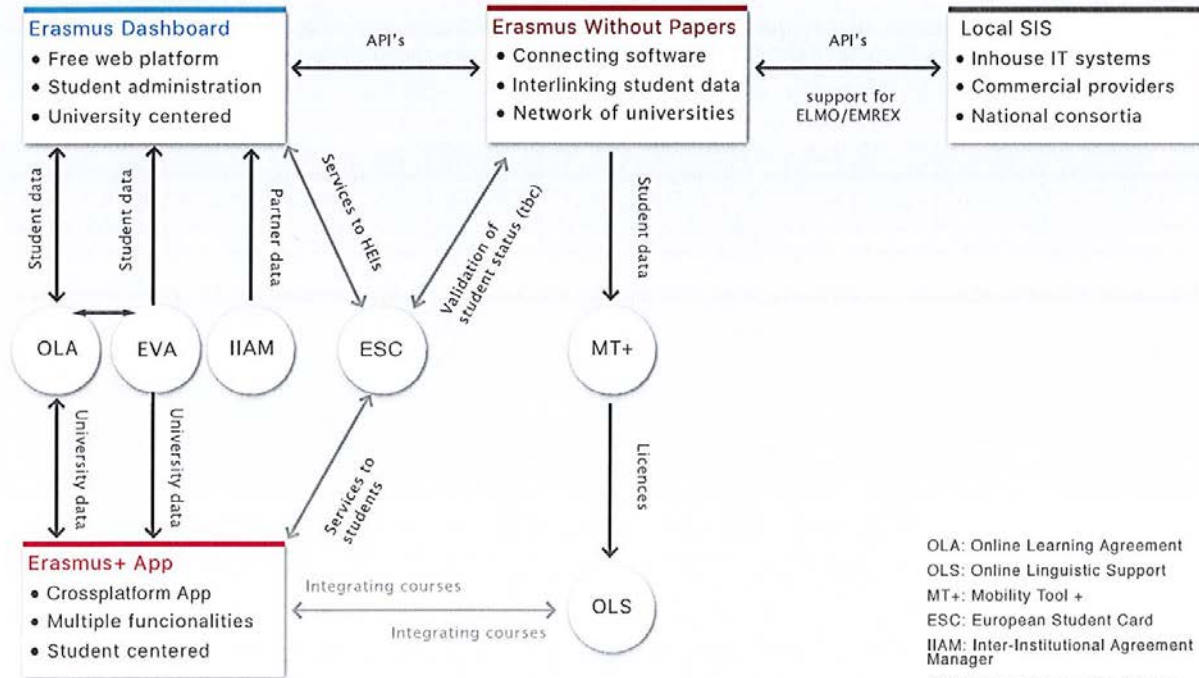
Fines : but avoid the use of financial penalties to avoid to manage money /
complicated in some countries and complicate on international level

Cutting rights

→ Support service helpdesk ? Where ?

WG – Erasmus mobilities

Erasmus++ Digital Ecosystem



OLA: Online Learning Agreement

OLS: Online Linguistic Support

MT+: Mobility Tool +

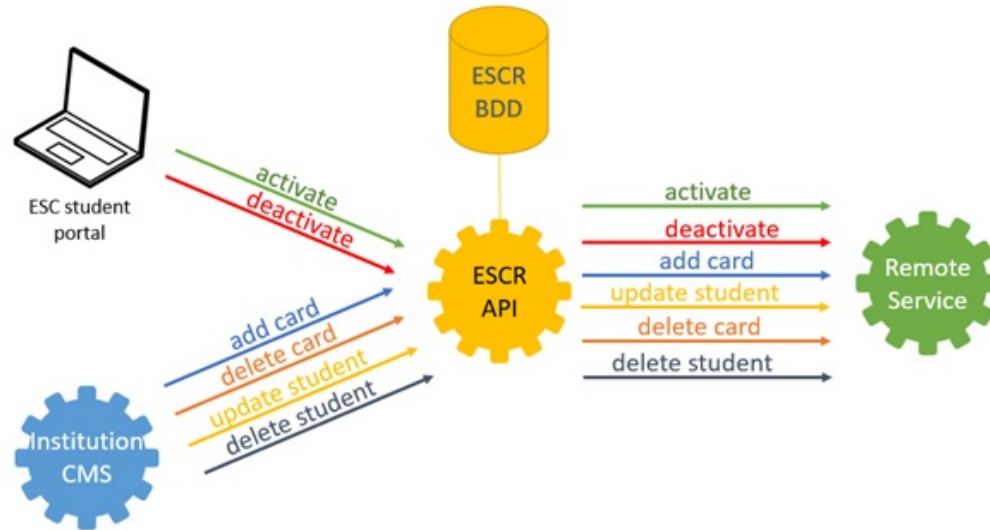
ESC: European Student Card

IIAM: Inter-Institutional Agreement Manager

SIS: Student Information System

EVA: Erasmus Virtual Assistant

Activate remote services



Connected universities : Germany

- Beuth Hochschule für Technik Berlin, 968706312, Germany
- Charité – Universitätsmedizin Berlin, 999992692, Germany
- Deutsches Studentenwerk, 939061657, Germany
- Freie Universität Berlin, 999994826, Germany
- Hochschule fuer Technik und Wirtschaft Dresden, 999651543, Germany
- Hochschule für Gestaltung Offenbach, 946324629, Germany
- Hochschule für Technik und Wirtschaft Berlin, 997713289, Germany
- Humboldt-Universität zu Berlin 999850781, Germany
- Universität Heidelberg, 999987648, Germany
- Karlsruher Institut für Technologie, KIT, 990797674, Germany



Connected universities : Italy

- Conservatorio Statale di Musica 'E. F. dall'Abaco' di Verona, 949040435 ,Italy
- EDUCatt, 942199122, Italy
- Fondazione ENDISU, 941044434, Italy
- Universita degli studi di Parma, 999846028, Italy
- Università degli Studi di Roma "Tor Vergata", 999844864, Italy



Connected universities : Ireland

- University College Cork, 999975717,Ireland
- Limerick Institute of Technology, 990287939, Ireland



Connected universities : Portugal

- Universidade de Evora, 998269196, Portugal
- Instituto Politecnico de Viana de Castelo, 998454563, Portugal
- Instituto Politecnico do Porto, 991473861, Portugal



Connected universities : Catalonia Spain

Universitat Rovira i Virgili, 999880560,



- **Connected universities :**

- Aristotle university of Thessaloniki, 999895692, Greece
- European University Foundation, 948229418, Luxembourg



Connected universities : Finland

- CSC-TIETEEN TIETOTEKNIKAN KESKUS OY, 999645820,
- Aalto University, 939575951,



Connected universities : Catalonia Spain

Universitat Rovira i Virgili, 999880560,



Connected universities : France

- Université de Caen Normandie, 998737124, France
- Université de Franche-Comté, 999863100, France
- Université de Pau et des Pays de l'Adour, 999849811, France
- Université de Rouen Normandie, 999465982, France
- Université de Strasbourg, 996569950, France
- Université de Toulon, 996758324, France
- Université Grenobles Alpes, 924833212, France
- Université Le Havre Normandie, 989746000, France
- Université Paris Sud, 999907235, France
- Comue Lille Nord de France, 929324506, France
- COMUE Université de Lyon, 998097312, France
- Ecole centrale de Marseille, 996648132, France
- Esigelec, 949054306, France
- Comue Université Loire Bretagne, 919419545, France
- Crous de Strasbourg, 920057611, France
- INP Grenoble, 999875225, France
- INSA Rouen, 999465788, France



The European student card strategic partnership project website



www.europeanstudentcard.eu



The European student card current website



www.europeanstudentcard.eu



Key Features of The European Student Card (ESC)

An innovative framework of trust for student identification in Europe

- Long term objectives & current focus
- Actors involved
- Process overview
- Description of the card
- Card's benefits

A flexible solution able to adapt local needs and specificities

- Range of technologies for card physical medium
- Use case illustration
- Implementation steps
- Card manufacturing process
- Opt in /Opt out for HEI
- Mandatory and non mandatory personal data

An application architecture designed to enforce trust and protect personal data

- Student identifier uniqueness
- Student card uniqueness
- ESC lifecycle
- Security principles enforced



Convergence with Other services – student portal

Eunis Student card and student mobility task force

ERASMUS WITHOUT PAPER (EWP) - aims to create an electronic and digital support network of exchangeable data and academic information from all students that take part in exchange programs.

EMREX is a proven method for electronic transfer of achievement records between higher education institutions in Europe and beyond.

EUROPEAN STUDENT CARD (ESC) - is a management of a unique european Student e-ID and status recognition system which aims a thinning of administrative procedures and the easy access to services for Students and staff on mobility.

OLA (On-line Learning Agreement) is an on-line platform to digitalize the Learning Agreement

EGRACONS (European Grade Conversion System) is a grade conversion tool to convert the academic results when these are transferred.

And

e-IDAS projects of services for students

ESMO / eID4U / Studies+

And others

European Student Card Initiative



The European Student Card Initiative will enable every student to easily and safely identify and register themselves electronically at higher education institutions within the EU when moving abroad for studies, eliminating the need to complete on-site registration procedures and paper work. This is an essential step in boosting mobility and exchanges in Europe and promoting student participation in educational and cultural activities, in line with the vision of a true [European Education Area](#).

The goal is to have, a full roll-out of this initiative in place by 2021 for all higher education institutions participating in the future Erasmus+ Programme (which will start in 2021), and make the card available to all students in Europe by 2025.

Fully compliant with personal data protection laws, the card will guarantee a secure exchange of student information and allow for a seamless transition from one higher education institution to another. The card will also give students the chance to access online courses and services provided at other higher education institutions. This will not only facilitate virtual mobility and blended learning, but also give students a greater choice in the programmes they can follow. Over time, the European Student Card will also allow students to enjoy cultural activities throughout Europe at discounted rates.

The benefits of the European Student Card Initiative go beyond student mobility, as it will simplify administrative procedures and reduce the administrative burden on higher education institutions, boosting mobility for all.

Context

EU Student Card is high on the EU Agenda involving key digitization initiatives



'Once only principle'

- For students
- For universities and their staff
- For public institutions



Les services numériques

Suivez-nous etudiant.gouv.fr Inscription Connexion

MesServices.etudiant.gouv.fr

DEMANDE DSE BOURSE / LOGEMENT	SUIVI DSE BOURSE / LOGEMENT	SIMULATEUR CALCULEZ VOTRE BOURSE	JOB AVIZ LA CENTRALE DU JOB ÉTUDIANT	CROUS FAVORI(S)	RENDEZ-VOUS SERVICES ÉTUDIANTS
LOKAVIZ LA CENTRALE DU LOGEMENT ÉTUDIANT	CLÉ LA CAUTION LOCATIVE ÉTUDIANTE	CITÉ'U GÉREZ VOTRE LOGEMENT	RETROUVEZ VOTRE CROUS SUR MOBILE	MONÉTIQUE	CARTE RESTO'U ET RÉSIDENCES
BED & CROUS	BONS PLANS	ARPE AIDE À LA RECHERCHE DU PREMIER EMPLOI			

Next steps

- Single authentication
- eIDAS enabled eID
- Alignment of key digitisation initiatives

>> Connecting Europe Facility



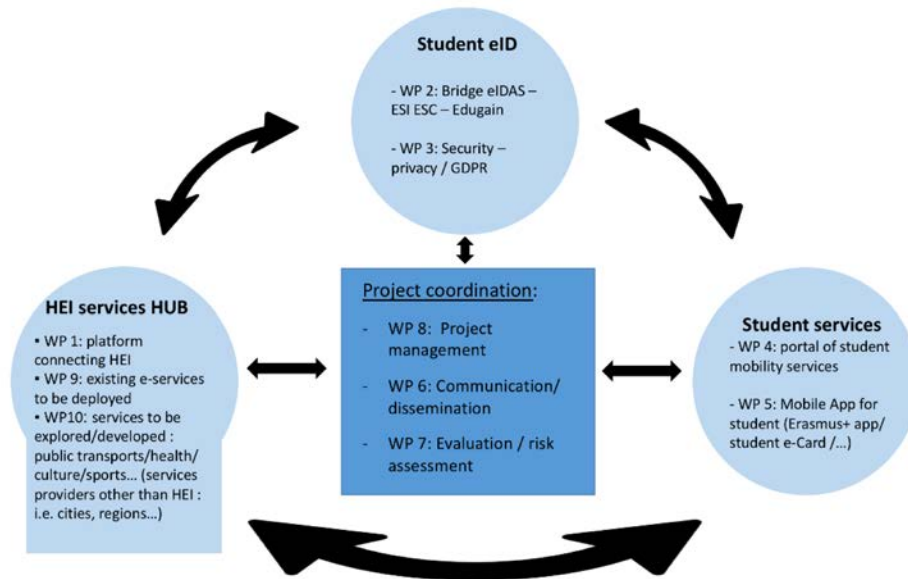
MyAcademicID outcomes

- Connecting eduGAIN and eIDAS
- Connecting ESC and eduGAIN
- Connecting national eID and eduGAIN
- Connecting e-services with eduGAIN
- Sustainability and upscaling planning





The big project



Jean-Paul Roumegas (ESC)

Counsellor for international relations and partnerships

Centre national des oeuvres universitaires et scolaires

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