



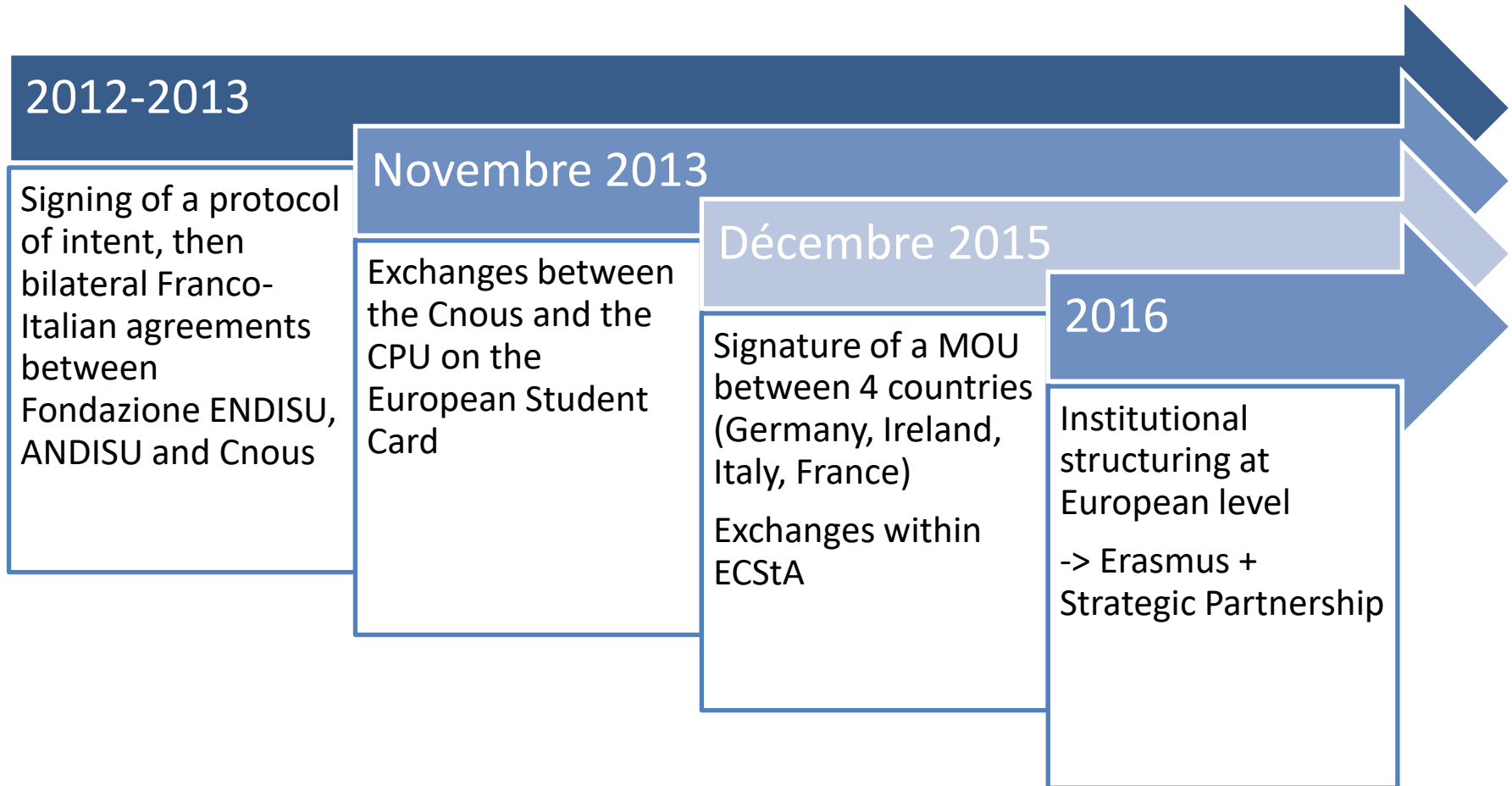
## ***The european student card***

***Trondheim, June 4, 2019, Eunis preconference***

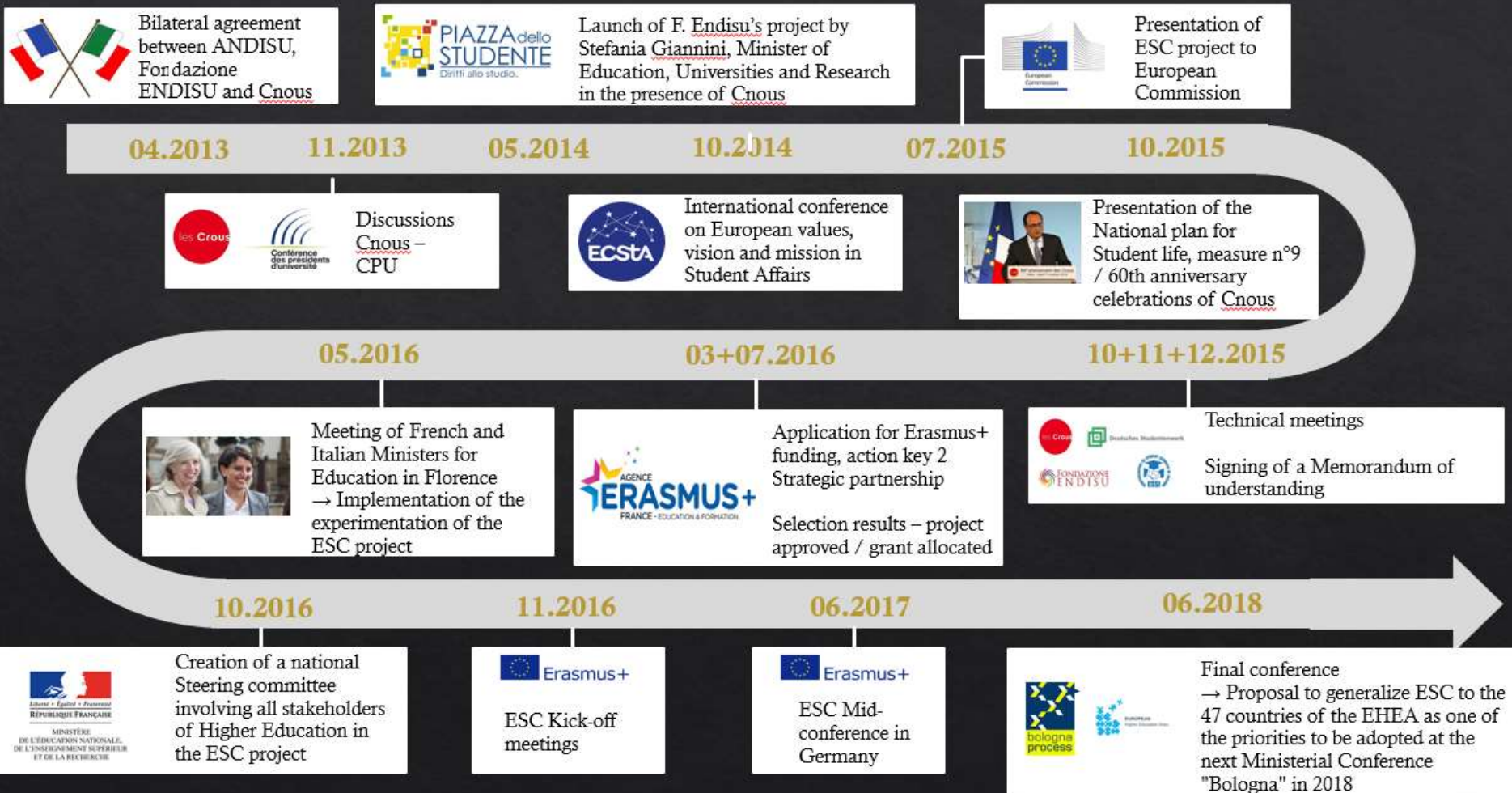
**Jean-Paul Roumegas**

**Cnous**

# Historique



# CHRONOGRAM



# 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

# Hologram



# 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

# A common Student e-ID on EU scale

**Principle:** relies on the identification specific to each country or institution

**Model = SEPA (single euro payment area) method: IBAN and BIC model**

- **Unique European student identification (ESI) may consist of 2 items:**
  - **Country code**
  - **HEI: PIC code (European Institution Code)**
  - **SI (Student identification): < student identification code given by home institution>**

**<Country code> <PIC> <student identification code>**

# European student card number (ESCN)

- A number ( $\neq$  card number given by the card provider and  $\neq$  from the student identifier)
  - Possible protection of the serial number accessible without authentication
  - Possibility to have different kind of technologies
- A number generated that is generated by a library (.jar or .dll) without using a online library
- ESCN generated by a using an algorithm (rfc-4122) according to variable elements:

HEI PIC, time and date on a millisecond time, number of the server

*ESCN is a unique 16 bytes identifier:*

*Example: 'a0e4cacc-c5a8-441f-af57-e7bd46d3b4ce'*



# QRCode



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

# ESCN stored on the card (QR code)

- Machine-reading of the ESCN
- <http://esc.gg/a0e4cacc-c5a8-441f-af57-e7bd46d3b4ce>
- Redundancy: 15%
- Recommended size: 15 /15 mm



# ESC- Router

# Why



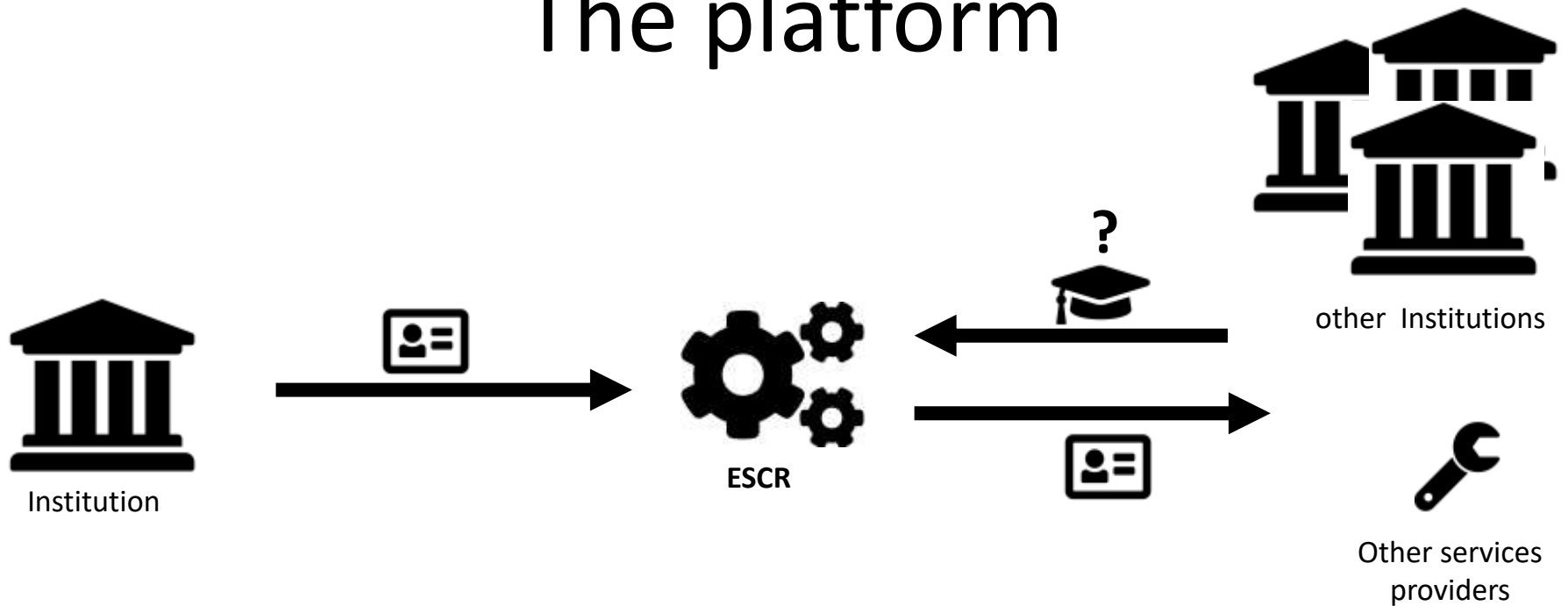
- Create a "trusted third party" that certifies the student status of the bearer of a card
- Facilitate access to services for mobile students
- Facilitate the exchange of information/Data between institutions

# How ?




Creating a platform: The « ESC – Router »

# The platform



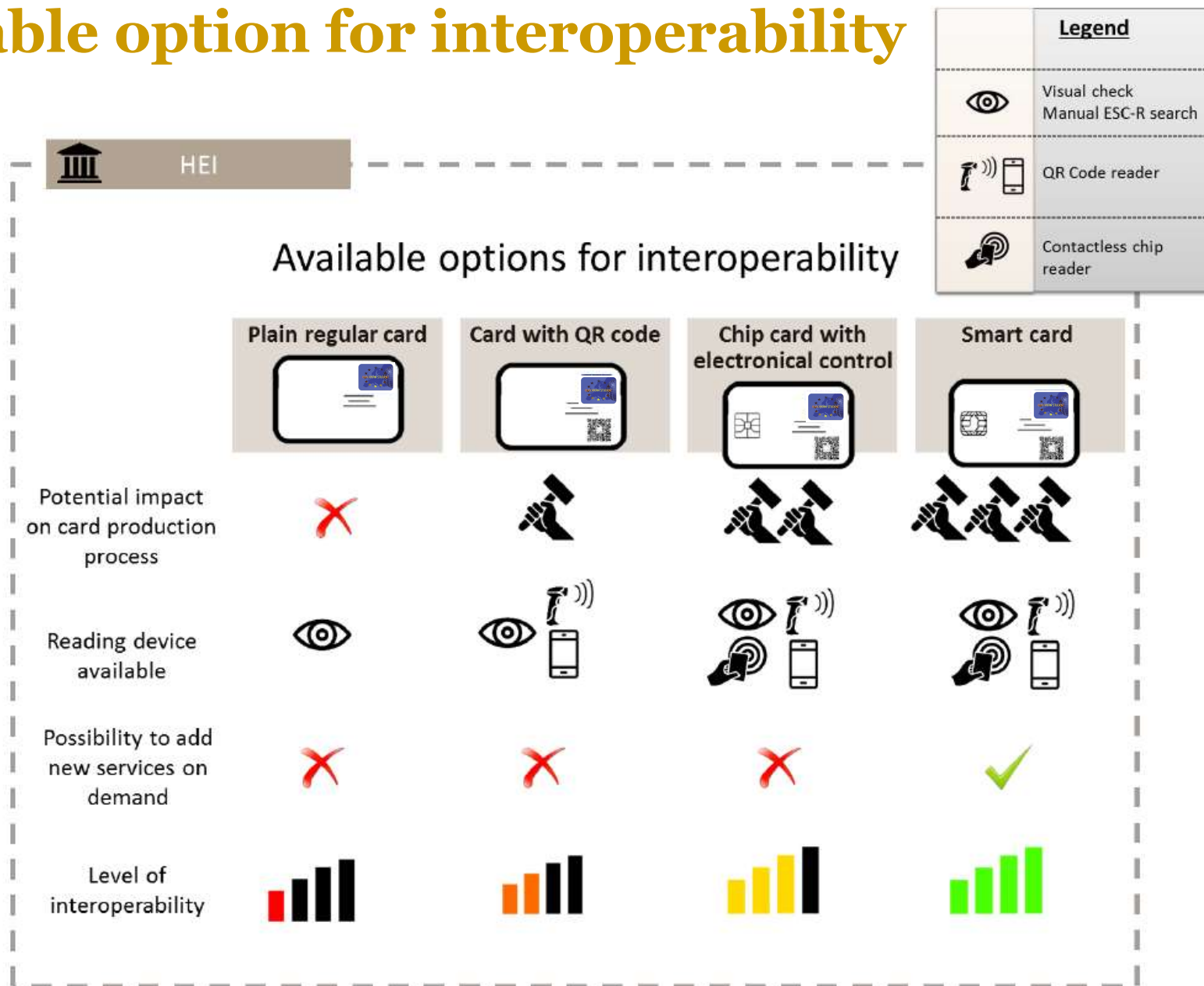
# To Do List

- 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 cards to ESCR via API

**Documents available on**

**<https://router.europeanstudentcard.eu>**

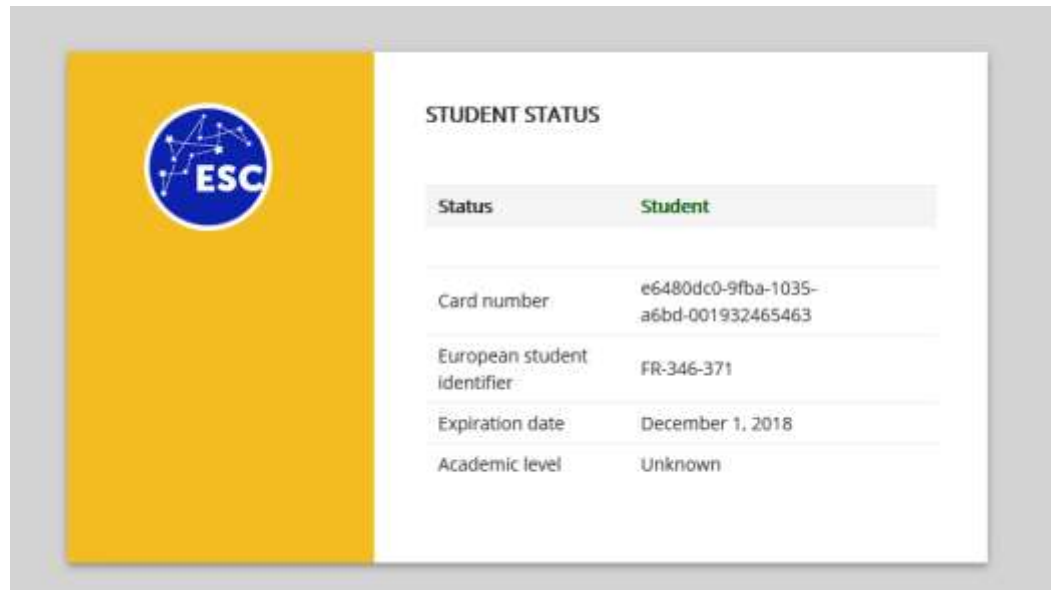
# Available option for interoperability





# Use case 1/2

## Testify of the status of the student



The screenshot displays a web interface for the European Student Card (ESC). On the left is a yellow vertical bar with the ESC logo. To the right, under the heading 'STUDENT STATUS', is a table showing 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



## European Student Card Student Portal

Username

Password

SUBMIT

New user ? [Sign up](#)

Password lost ? [Ask for a new password](#)



## Izly

Payement

Owner : CNOUS

Contact : [contact@izly.fr](mailto:contact@izly.fr)

Website : <https://help.izly.fr/en/>

Data Policy <https://help.izly.fr/en/>

DEACTIVATE

### Description

Izly is a service that enables you to instantly pay, receive and send money from your electronic money account using your Smartphone.

# WG uses and services

## 3 keys areas:

- **E-payment**

→ Eucor, the European Campus,, STW Freiburg (Dieter Ross) and STW Karlsruhe, Fondazione ENDISU, Educatt, Crous de Strasbourg, Cnous

- **Libraries**

→ ADBU, University College Cork,, Campus card Berlin, UBFC, EDUCatt  
...

# Use cases : Navigo

Actualités

Je choisis mon forfait

Je gère ma carte

J'organise mon déplacement

vianavigo.com

Tous mes déplacements en Île-de-France  
Carte Navigo, forfait, gestion

Associer mes données client à mon espace personnel.

Si vous avez déjà un forfait ou une carte Navigo ou que vous financez le forfait de quelqu'un d'autre, vous pouvez associer vos données clients à votre espace personnel.

[Associer mes données client](#)

Besoin d'un forfait ou d'une carte Navigo ?

- [Souscrire à Navigo Annuel](#)
- [Souscrire à imagine R Étudiant pour l'année 2017/2018](#)
- [Commander une carte Navigo](#)

Cette carte pourra être utilisée pour un forfait Mois ou Semaine ou pour changer de Soldante

*Demande de souscription à imagine R Etudiant*

Actualités

Je choisis mon forfait

Je gère ma carte

J'organise mon déplacement

Tous mes déplacements en Île-de-France  
Carte Navigo, forfait, gestion

Souscription imagine R : Souscription imagine R

Actualité > Je gère ma carte Navigo > Mon espace personnel > Souscription imagine R

Vos données de statut étudiant ont bien été récupérées :

STATUT ETUDIANT	OUI
ETABLISSEMENT	Université Paris 1
DATE DE FIN D'INSCRIPTION	30/06/2019
INE	18 00000001 AB

Vous remplissez donc bien les conditions pour bénéficier d'une carte Imagine R

Etape suivante

Actualités

Je choisis mon forfait

Je gère ma carte

J'organise mon déplacement

Tous mes déplacements en Île-de-France  
Carte Navigo, forfait, gestion

Souscription imagine R : Souscription imagine R

Actualité > Je gère ma carte Navigo > Mon espace personnel > Souscription imagine R

Afin de simplifier votre démarche, autorisez-vous NAVIGO à récupérer vos informations de statut d'étudiant sur la plateforme ESC-R ?

Oui, j'autorise

Non, je préfère présenter ma carte à un guichet

*Echange avec SupData*



# Use cases : mes services étudiant

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[Inscription](#)

[Connexion](#)



**MesServices**.etudiant.gouv.fr

## S'INSCRIRE DANS L'ENSEIGNEMENT SUPÉRIEUR

**CVEC** 

Contribution  
vie étudiante  
et de campus

## DEMANDER UNE BOURSE OU UNE AIDE



**DEMANDES DE DSE 2019-2020**

La demande de DSE est ouverte.  
Vous pouvez déposer votre dossier  
jusqu'au 15 mai.



**DEMANDES DE LOGEMENT 2019-2020**

Votre demande de logement pour l'année



# Use cases : **AquiMob**

## **AquiMob**

17 HEI

One single application procedure for mobility grants

Shared between HEI and funding bodies



# To be deployed



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

# ESCN stored on the electronical chip of the card

- **An automatic contactless electronic recognition** by a card reader

More secure procedure + requirements needed for adding new services on the student cards

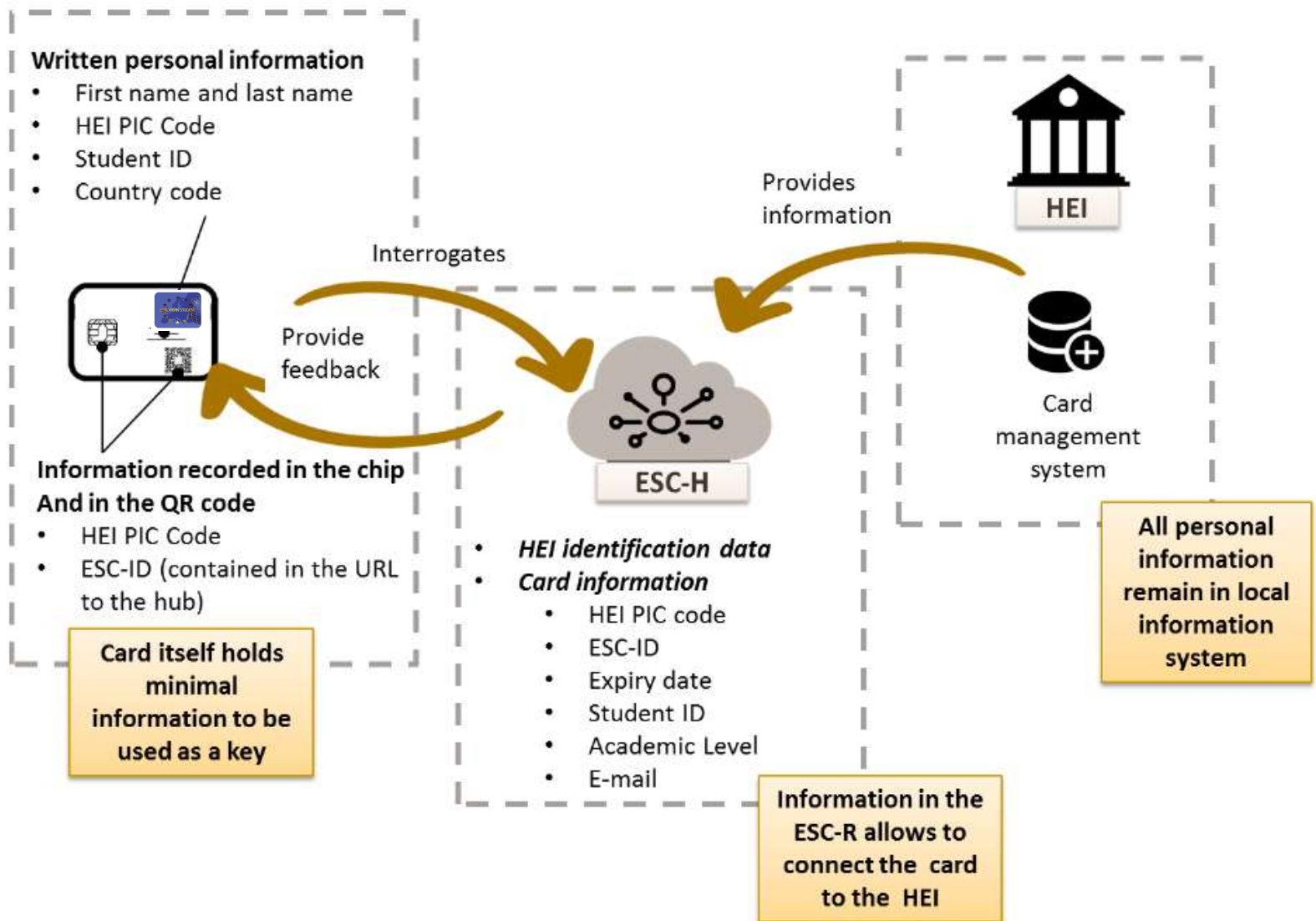
- **A standardized data format**

In free reading mode without using a SAM (Secure Access Module)

which holds the HEI PIC and the ESCN of the card

*The Data European University Info (DEUInfo) is the name of the area on the memory where ESCN is stored*

# What information is stored and where ?



## GDPR principles

- Student Consent when issuing cards by his home HEI
- Information stored on the ESC-R : ESCN, ESI, level of studies, expiry date, email optional
- Student interface where the student can see, check, erase or complete data, or cancel his account
- Data erased a while after the expiry date of student card
- Audit and legal notice



## THE PROJECT

The European Student Card will simplify the mobility thanks to the recognition of the student status. → See underneath status report and pilot plan of action.

[READ MORE →](#)

## COUNTRIES



## STUDENT



## INSTITUTIONS



## SERVICES



## HOW IT WORKS



## FAQ



## MEDIA GALLERY



## CALENDAR



## Cooperation EWP - ESC

- API EWP : HEI connect CMS to generate/manage student cards
- API EWP : check student status
- Competence center : technical docs on ESC and ESUP SGC (CMS opensource)

# 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



**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.**







# European commission European Student Card Initiative

## European Student Card initiative

- **make mobility “a reality for all”**
- **foster a sense of European identity amongst students.**
- **enhancing the quality of the mobility experience**
- **establishing a strong visual European student identity.**



## European commission European Student Card Initiative

### **benefits for Higher Education Institutions?**

- simplifying student mobility management by digitising and streamlining administrative

### **benefits for students?**

- enable students to manage all the steps of their mobility before, during and after from a single online “one-stop-shop” for students.
- enable students to have their student status easily recognised across Europe by having a visible symbol of the “European Student identity” added onto their national student card.



## European commission European Student Card Initiative

**Workshops « taking forward the european student card**

[Erasmus Without Paper](#)

[EMREX](#)

[European Student Card](#)

**And CEF funded projects based on eIDAS electronic citizenship  
and dev of digital infrastructure**

**Call for projects 2018 : My academic ID and SEAL**

# MyAcademicID outcomes

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



# My Academic ID

1. European University Foundation-Campus Europae (EUF)
2. **Centre national des œuvres universitaires et scolaires (CNOUS)** –
3. Géant Association (GEANT) - established in Netherlands
4. Vetenskapsrådet - Swedish Research Council (SRC) - established in Sweden
5. **Humboldt-Universität zu Berlin (UBER)** - established in Germany
6. University of Malaga (UMA) - established in Spain
7. **Réseau national de communications électroniques pour la technologie, l'enseignement et la recherche (RENATER)** - established in France
8. Direção-Geral do Ensino Superior (DGES) - established in Portugal
9. **Fondazione ENDISU - Ente Nazionale per il Diritto allo Studio e per I Servizi agli Studenti (ENDISU)** - established in Italy
10. ARISTOTELIO PANEPISTIMIO THESSALONIKIS (AUTH) - established in Greece
11. **Deutsches Studentenwerk (DSW)** - established in Germany
12. **Educatt - Ente per il Diritto allo studio Universitario dell'Università Cattolica (EDUCATT)** - established in Italy
13. Direction Interministérielle du Numérique et des Systèmes d'Information et de Communication de l'état (DINSIC) -



# principles for converging work

## attributes

### **Edugain**

*First name*

*Name*

*Affiliation*

*Student ID*

*E mail*

### **ESC**

*Level of studies*

*Expiry date*

*ESCN*

*ESI*

*E mail*



## principles for converging work

- Single/Common authentication system
- Single Student ID
- One principle : unique student e-ID as a basis of data exchange
- Common portal of tools for mobility for HEI use
- Common student portal : a single desk where they may find all services
- On line services
- Local services : access with card














# Digital services

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 **MesServices**.etudiant.gouv.fr

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