European projects, what’s going on

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PESC 2019 Spring Data Summit
Washington D.C.
May 8 2019
“All your documents are born digital”

Thomas C. Black, @stanford.edu
“All your documents are born digital”

Thomas C. Black, @jhu.edu
“We all have to live in a digital world”

“We all have to be identified in such world”

Yours truly, @uma.es
eIDAS
eIDAS

- European regulation on eID and Signature
- Based on cooperation and reciprocity between states
- Establishes mutual recognition of eID schemes
- Member states have sovereignty over:
  - Which schemes are notified
  - Organisation of the federation at national level.
- Mandatory for public services
• Countries setting-up an eIDAS compliant Node:
  AT*, BE*, CZ*, DE, DK*, EE*, EL*, ES*, FR, HR*,
  HU, IR, IS, IT*, LT, LU*, LV*, MT*, NL*, NO*, PL*,
  PT, SI, SK, SE, UK*

• Countries planning national eIDAS Node implementation:
  BG, CY, FI, RO, TR

* countries that expressed intent to use CEF eID sample implementation
CEF
CEF
Connecting Europe Facility
CEF

EU funding programme (2014-2020) to support the deployment of pan-European communication networks.

- Digital Single Market strategy
- Node deployment funding
- Service integration funding
- Interest on student mobility services

Co-financed by the European Union
Connecting Europe Facility
TOOP
The Once Only Principle
TOOP

- Launched in January 2017
- 51 Organisations from 21 EU member and associated states
- Federated pan-European IT infrastructure
- Reduce administrative burden
- Inherits SCOOP4C project
e-Services for business mobility
Updating connected company data
Online ship and crew certificates
Educational use cases from SCOOP4C
- Estonian Education Information System (EHIS)
- Estonian Online Application Portal (SAIS)
- Irish Central Application Office
- Netherland’s Studielink project
- Portuguese Levantamento Geral de Dados da FMUP (LGDF)
- Interoperability Node of the Spanish University System (NISUE)
- UK Universities and Colleges Admissions System (UCAS)
- European Student Card (ESC)
Why academic mobility?
Current Erasmus+ figures

- Over 4 million mobility beneficiaries
- €14.7 billion from 2014 to 2020
- Student, staff and youth mobility
- Volunteering
- Support for projects
Future Erasmus program figures

- 2021-2027
- Budget doubles to €30 billion
- Number of participants triples to 12 million
eduGAIN
• Countries setting-up an eIDAS compliant Node:

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eduGAIN WORLDWIDE

eduGAIN is part of the GÉANT Project (GN4-2), which is funded by the European Union’s Horizon 2020 research & innovation programme under grant agreement 731122 as part of the GEANT 2020 Framework Partnership Agreement no. 653998.

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edugain.org

FEDERATIONS

IDENTITY PROVIDERS

SERVICE PROVIDERS

AUTHENTICATIONS PER WEEK (est)

USERS (est)

55+

>2,600

>1,900

33M

27M
EMREX
EMREX

- Electronic data exchange solution
- Empowers individuals to control their student data
- EMREX User Group = Independent international network
- user initiated (= less GDPR)
- *ELMO inside*
EMREX
EMREX

EMREX client web application connected to SIS
NCP National Contact Point (fetches results)
SMP Student Mobility Plugin
EMREG EMREX Registry
EMREX

1. Authenticate student
2. Fetch results for student
3. Store results for student
EMREX

- 7 countries
- 17 members
- 1500 students served
EMREX

- recognition of external studies
- internal mobility within a country
- verifying prior learning
- verification of credentials
- ...
ESMO
ESMO
eIDAS-enabled Student Mobility
ESMO

- Promote eIDAS adoption through the CEF eID
- Facilitate learning mobility
- Ease management of trust and data requirements
- Promote convergence with EduGAIN
- Cooperate with other CEF and Erasmus+ projects
- Promote collaboration with key HighEd stakeholders
ESC
ESC
European Student Card
ESC

- Aimed at EHEA and beyond
- Not only for physical cards
- Ease verification of studentness
- Create the European Student Identifier (ESI)
- Institution Identifier ????
ESC

European Student Card

Personal Administración y Servicios
ESC

- RFC-4122 UUID
- Seeded with Institution EU PIC code
- Prefix for the computer generating the number
- .Net and Java libraries available (Python from UMA)
ESC

- Aimed at EHEA and beyond
- Not only for physical cards
- Ease verification of studentness
- Create the *Global* Student Identifier?
- Institution Identifier ????
ESC

- Aimed at EHEA and beyond
- Not only for physical cards
- Ease verification of studentness
- Create the *Global Academic* Identifier?
- Institution Identifier ????
SEAL
Student and Citizen Identities Linked
SEAL

Create a framework for effective and standardised management of identities and relationships among them.

Building on ESMO results

- Facilitate linking a citizen’s electronic identities
- User centred procedure design
- Full control of the data lifecycle: what is released and when
- Standardize interfaces for identity access and link assurance
- Decentralised and scalable infrastructure and storage
MyAcademicId
MyAcademicId

- Secure and seamless electronic interactions between HEIs
- Reinforcing the European student status
- Enabling seamless mobility of students across borders
- Allowing students to authenticate and transfer relevant data using their student credentials
EWP
Erasmus Without Paper 2.0
EWP

Main aim

Enable inter-operability and electronic exchange of student data among universities as part of Erasmus+ and beyond
EWP

➤ An electronic network
➤ Registry
➤ APIs
➤ Manifest files
EWP

EWP 2.0 Standards mandatory from 2021 on

2021 Inter-institutional agreements
2021 Online learning agreements
2022 Nominations
2023 Transcript of records
EWP

- Live since December 2018
- ~1000 universities connected
- Up to 5000 expected by 2021
- Single point of entry into the EU
- Happy to connect with regional or national nodes
Are we ready to collaborate?
Yes!
on a global scale
on a global scale

How about a *Standards Awareness* Task Force?
Thank you
Thank you

Questions?
answers not assured
(choose your meaning)
Web sites for the projects

- eIDAS https://www.eid.as/
- TOOP https://www.toop.eu/
- SCOOP4C https://scoop4c.eu/
- eduGAIN https://edugain.org/
- EMREX https://www.emrex.eu/
- ESMO https://www.esmo-project.eu/
- ESC https://europeanstudentcard.eu/
- EWP https://www.erasmuswithoutpaper.eu/
- GDN https://www.groningendeclaration.org/