



## **Studying abroad pilot – demonstration and lessons learnt**

Tomaž Klobučar, Jožef Stefan Institute  
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DE4A has received funding from the European Union's Horizon 2020 research and innovation programme under GA. No. 870635



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1. Use cases and services
2. Cross-border service demonstration
3. Benefits and lessons learnt



# Pilot Use Cases

- **Use case #1 – Application to Higher Education**
  - To enable an initial application for admission to higher education
- **Use case #2 – Applying for Study Grant**
  - To enable application for a study grant
  - Support of academic (e.g. diplomas) and non-academic (e.g. disability/large family situation) evidence
- **Use case #3 – Diploma/certs/studies/ professional recognition**
  - Recognition of higher education diplomas
  - Validation of verifiable credentials and digital wallet, integration with European Blockchain Service Infrastructure (EBSI)
- **Key elements**
  - Real students with eIDs, real data
  - Portugal, Slovenia, Spain

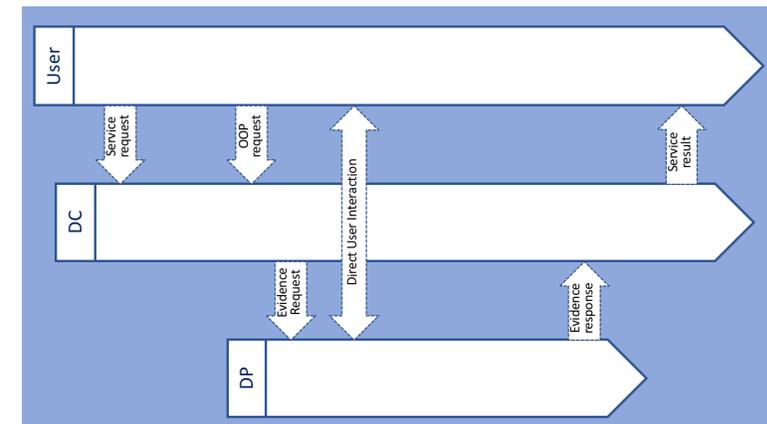
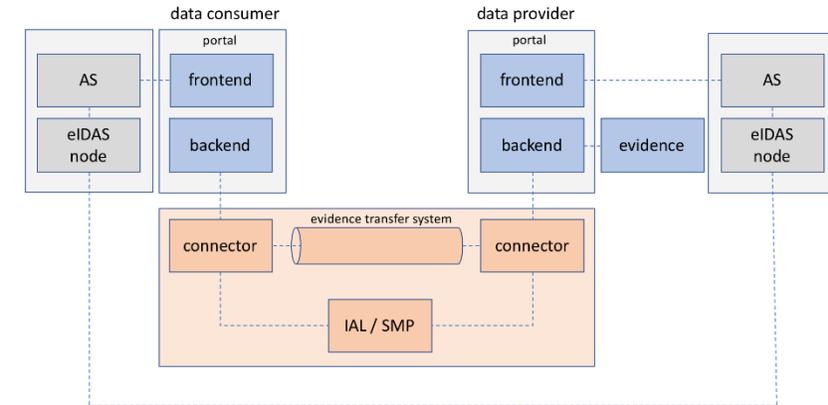


SDGR Procedure	DE4A Studying Abroad pilot use case
Applying for a tertiary education study financing, such as study grants and loans from a public body or institution	Use case 2: Applying for study grant
Submitting an initial application for admission to public tertiary education institution	Use case 1: Application to higher education
Requesting academic recognition of diplomas, certificates or other proof of studies or courses	Use case 3: Diploma recognition



# User-supported Evidence Exchange Between Authorities

- Evidence exchange between competent authorities
- Students must explicitly approve **service's** request for evidence
- Students must preview and approve transfer of evidence from an **authentic source** to the **service**



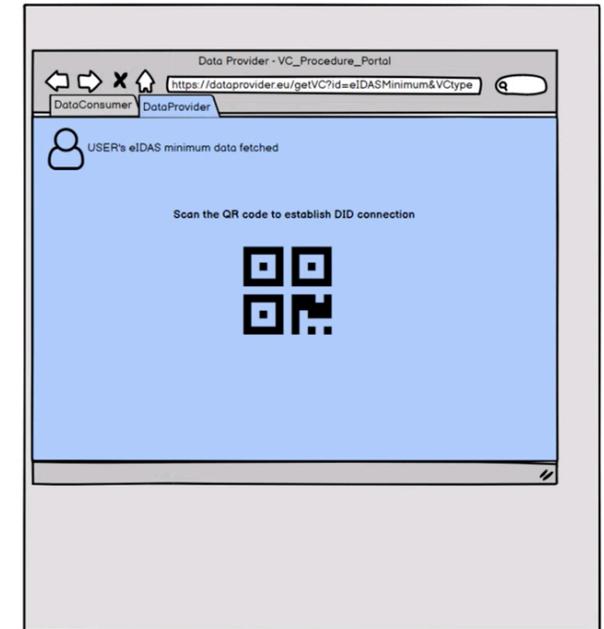
 <https://www.de4a.eu/studyingabroadpilot>



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# Verifiable Credentials

- Evidence exchange between a student and a competent authority (service or authentic source)
- Students store their evidences in a digital wallet on a mobile phone
- EBSI ledgers are used to validate institutions that issued evidence and check validity of the evidence



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# Services in Portugal, Slovenia, and Spain

DE4A

## Call for Study Grants

Jozef Stefan Institute offers study grants for foreign STEM students who are studying or will study at one of the higher education institutions in Slovenia and conduct their research work at the Institute. Students should have already successfully completed their 1st Bologna degree studies in the respective fields.

The information that must be provided depends on the selected call for study grants (personal information, proof of diploma, non-academic evidence).

Enter the grant application procedure by clicking the "Login" button below, which will redirect you to the authentication service.

Login

The DE4A project (<https://www.de4a.eu/about-project>) pilots specific procedures of the Single Digital Gateway Regulation, which aims to facilitate cross border e-government services.

## About DE4A

Digital Europe for All (DE4A) is a Member State-driven large-scale pilot, aligned with strategic eGovernment Action Plan 2016-2020 and European Interoperability Framework Implementation Strategy and with full regulatory compliance, establishing a culture of co-creation, transparency, accountability and trustworthiness. Its goal is facilitating migration towards European Digital Public Services co-delivered across borders, across sectors and with different participants, reinforcing trust in public institution, and unleashing multiple measurable positive impacts on efficiency gains and reduction of administrative burden and costs.

More About DE4A

## About the Studying Abroad pilot

The »Studying Abroad« pilot of the DE4A project aims at demonstrating in practice the benefits of realizing across borders the principles of once only and digital-by-default for different stakeholders of the European Higher Education Area. Students can use their national eIDs to access foreign higher education services and have their evidence required by the service, such as their higher education diplomas, transferred electronically from a trusted source in their home country. Having this opportunity, the students will no longer need to look for the evidence and fill the required application forms by themselves.

Further Details



UNIVERSITAT JAUME I

Assistent de preinscripció 2023 / 2024

Castellano English

### Assistent de preinscripció

Miñangant aquest assistent pots inscriure't en els diferents cursos i activitats que ofereix la Universitat Jaume I, així com realitzar la preinscripció en aquells cursos o activitats que ho requereixquen.

Si ja tens un compte UJI, prem el botó de continuar per a iniciar la preinscripció.

Si ja has tingut qualsevol tipus de relació amb la Universitat Jaume I i no records l'usuari i la clau d'accés, pot recuperar-la des d'aquesta pantalla.

Si no has tingut encara cap tipus de relació amb la Universitat Jaume I, has de donar d'alta com a «Nou usuari o usuària», o amb autenticació europea si disposes d'un certificat digital vàlid.

 Nou usuari

 Autenticació europea

Continuar

Telèfon: +34 964 72 80 80 - Horari d'atenció: 9:00 a 20:00 hores

e-mail: [info@uji.es](mailto:info@uji.es)

## Prijava za vpis (testno okolje)

eVŠ

Visoko šolstvo v Sloveniji

RAZPISI ZA VPIS | NAVODILA ZA IZPOLNJEVANJE PRIJAVE | POGOSTA VPRAŠANJA

SLO | ENG

- Kako se prijavim? >
- Digitalna potrdila in elektronsko podpisovanje >
- Kaj se bo zgodilo z mojo prijavo? >

Nadaljuj k prijavi s SI-PASS

TA SPLETNA STRAN JE DEL TESTNEGA SISTEMA. NASLOV ZA PRIJAVITELJE JE PORTAL <https://evs.gov.si/prijava>

V prijavo za vpis vstopite s klikom na zgornji gumb "Nadaljuj k prijavi s SI-PASS", ki vas bo preusmeril na storitev za spletno prijavo in e-podpis državne uprave.

V okviru SI-PASS lahko uporabite več načinov avtentikacije. K prijavi lahko nadaljujete z eno od elektronskih identitet (kvalificirano potrdilo izdano v Sloveniji, AAI račun ali enkratno geslo smsPASS) ali pa z uporabniškim imenom in geslom.

V času ukrepov, vezanih na obvladovanje širjenja nalezljive bolezni COVID-19 velja nekoliko spremenjen režim od običajnega.

- Pri oddaji prijave z uporabniškim imenom in geslom se natisnjena obrazca prijave ne pošlje v tiskani obliki po pošti. Zadoštuje izpolnjena in elektronsko poslana prijava v eVŠ. Identiteta prijavitelja se bo preverjala po EMŠO, za tuje državljanke pa na podlagi osebnega dokumenta.
- Priloge k prijavi, če jih razpis zahteva, se lahko pošlje samo elektronsko na tej spletni strani preko gumba "Nadaljuj k prijavi s SI-PASS".

Pred začetkom izpolnjevanja prijave v razpisu za vpis preverite ali izpolnjujete pogoje za vpis na želeni študijski program. Za pravilen začetek izpolnjevanja prijave morate vedeti ime razpisa za vpis, ki ga izberete na prvem koraku prijave, in na katero mesto oziroma katero vrsto prijave boste oddali (vpis v 1. letnik, vpis v višji letnik, vzporedni vpis, vpis za diplomante).

Razpisi za vpis in navodila za izpolnjevanje prijave so objavljeni na portalu eVŠ: <https://portal.evs.gov.si/>

## DE4A portal for Técnico Lisboa Welcome, pilot participants!

This website simulates academic processes within Técnico Lisboa.

The following processes are available:

- Apply to study at Técnico Lisboa
- Obtain a Verifiable Credential of your Técnico Lisboa diploma

This website is part of the Studying Abroad pilot, for the DE4A project.

Personal data will be used exclusively for the execution of the pilot.

Participation is voluntary.

About the DE4A project.  
About the Studying Abroad pilot.

This website has no administrative effects.  
Applications will not be received or processed by academic services.  
Click here for real applications to Técnico Lisboa.

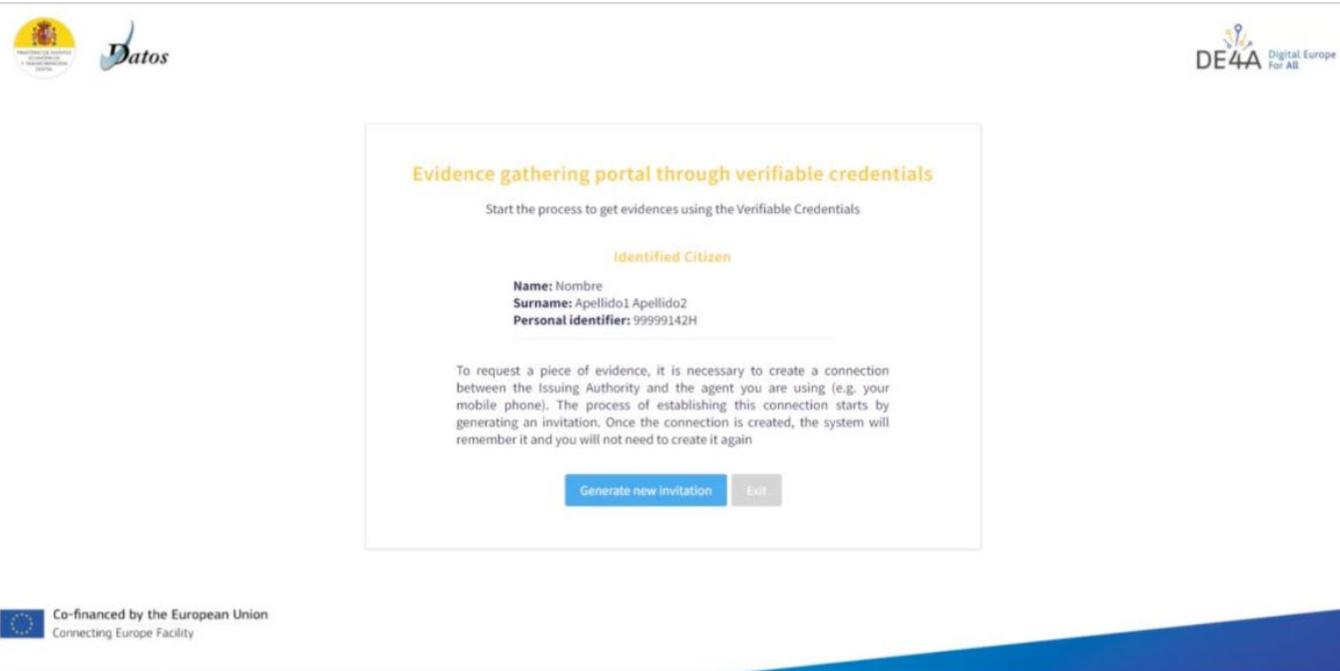
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# Verifiable Credentials - demonstration



The screenshot shows a web interface for gathering evidence. At the top left are the logos for the Portuguese government and 'Dados'. At the top right is the DE4A logo. The main content area has a title 'Evidence gathering portal through verifiable credentials' and a subtitle 'Start the process to get evidences using the Verifiable Credentials'. Below this, it identifies a citizen with the following details: Name: Nombre, Surname: Apellido1 Apellido2, and Personal identifier: 99999142H. A paragraph explains that to request evidence, a connection must be created between the Issuing Authority and the agent (e.g., mobile phone), starting with an invitation. A 'Generate new invitation' button and an 'Exit' button are at the bottom. At the bottom left, it states 'Co-financed by the European Union Connecting Europe Facility'.

## INESC-ID DE4A Portal



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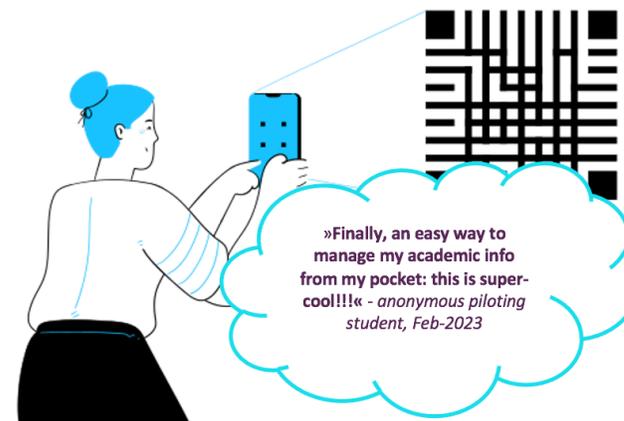
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# Key Benefits for Students

- Simplified cross-border user interaction with the educational procedures, systems and platforms
  - Fewer application forms
  - Shorter procedures
- User-supported interaction pattern
  - No need to look for evidence
- Verifiable credentials
  - Control over the management of evidence



# Key Benefits for Competent Authorities

- Reduced administrative burdens by re-using evidence from trustworthy sources
  - Improvement of the quality of student data and data processing effort
  - No need for manual evidence validation
- Effort
  - Slovenia: 30 minutes per foreign student for diploma validation, 15 minutes for responding to diploma validation requests from foreign universities for Slovenian students
  - Spain, Slovenia: days for diploma validation of certain students
- Data quality
  - Availability in electronic format
  - Availability in structured format
  - Completeness, correctness and availability of data
  - Fewer errors



# Lessons Learnt

- eIDAS authentication
  - Students typically do not have their eIDAS-based authentication means activated
  - Non-notified eIDAS authentication scheme
- Integration of procedures
  - The concept of a connector with an integrated AS4 gateway allowed for easier integration
  - Canonical evidence data (SDG WG, Europass)
- Member states
  - Regional jurisdiction over enrolment to the 1<sup>st</sup> Bologna degree



# Thank you for your attention

## Any questions?

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klobucar@e5.ijs.si



# Partners



Atos

ama ADMINISTRATIVE MODERNIZATION AGENCY

DIIG MYNDIGHETEN FÖR DIGITAL FÖRVALTNING Agency for Digital Government

Federal Ministry Republic of Austria Labour and Economy

BRZ



ICTU

inesc id lisboa

INTERNATIONAL HELLENIC UNIVERSITY

Jožef Stefan Institute Ljubljana, Slovenia



LE GOUVERNEMENT DU GRAND-DUCHÉ DE LUXEMBOURG Centre des technologies de l'information de l'État



LE GOUVERNEMENT DU GRAND-DUCHÉ DE LUXEMBOURG Ministère de la Digitalisation



Government of the Netherlands Ministry of the Interior and Kingdom Relations



Government of the Netherlands Netherlands enterprise agency



REPUBLIC OF SLOVENIA MINISTRY OF PUBLIC ADMINISTRATION



REPUBLIC OF SLOVENIA MINISTRY OF EDUCATION, SCIENCE AND SPORT

Skatteverket

egovlab

TIMELEX

Bolagsverket

UJI UNIVERSITAT JAUME I

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