



A hand holding a glowing blue sphere composed of hexagonal tiles, each containing a white icon representing various business and technology concepts like security, communication, and data. The icons include padlocks, Wi-Fi symbols, bar charts, gears, and people silhouettes. The overall theme is digital security and business operations.

A close-up photograph of a person's hands holding a glowing, hexagonal grid of icons. The grid is composed of numerous hexagons, each containing a different white icon on a blue background. The icons represent various digital concepts, including a magnifying glass, a padlock, a Wi-Fi signal, a gear, a person, a play button, a speech bubble, a bar chart, a leaf, a handshake, and a network of nodes. The hands are positioned as if they are presenting or supporting the grid. The overall lighting is blue, and the background is dark. The word "Mission" is partially visible on the left side of the image.



ission

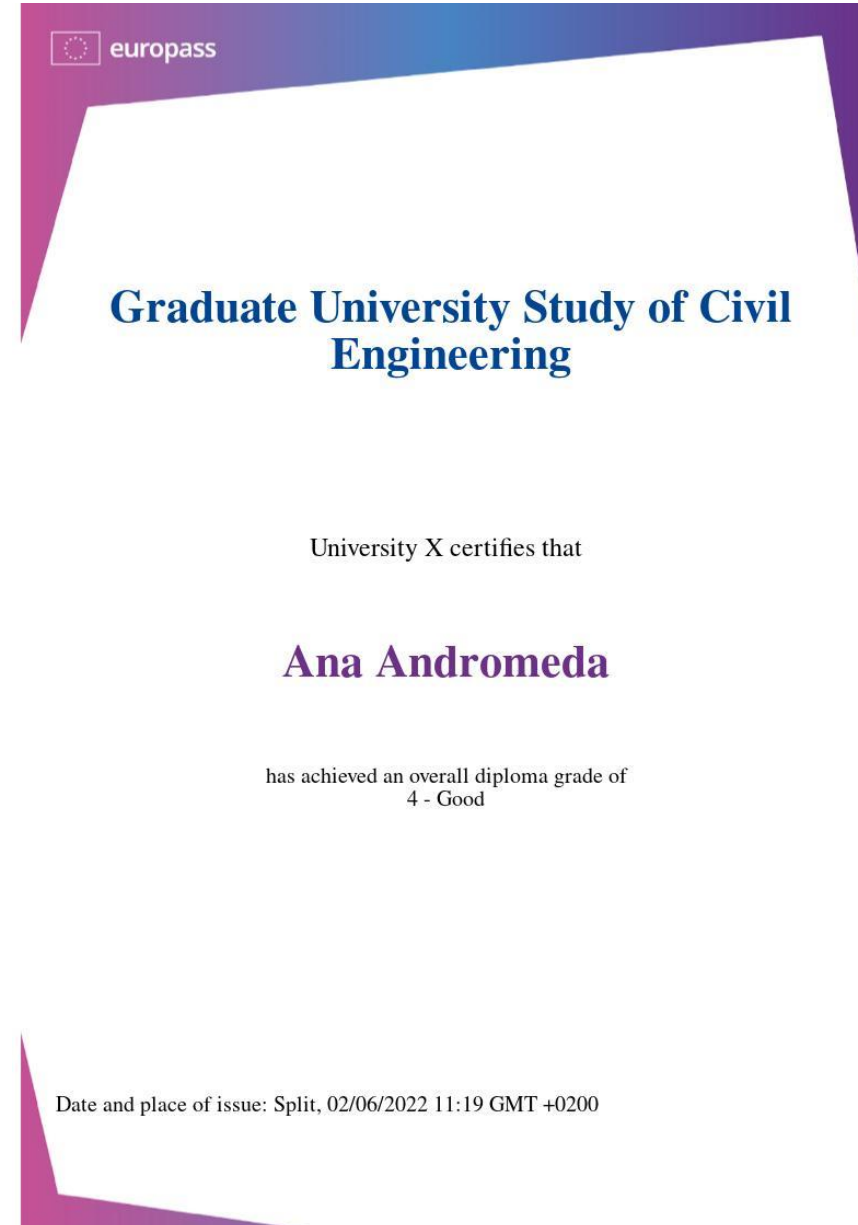
TALKING POINTS

- Introduction of Key Concepts
- Policy Background and Context
- Primary stakeholders and their benefits
- European Digital Credentials for Learning: infrastructure and functions
- Compulsory credential properties
- Authentication and verification checks
- Making credentials transparent and portable
- Recent and future developments



DEFINITION OF A DIGITALLY SIGNED CREDENTIAL

- A credential, in its most essential form, is a **documented statement** containing claims made about a person
- A **European Digital Credential for Learning** is a claim related to the learning achievement of a person
- A **digital signature (e-Seal)** guarantees the origin and integrity of the document

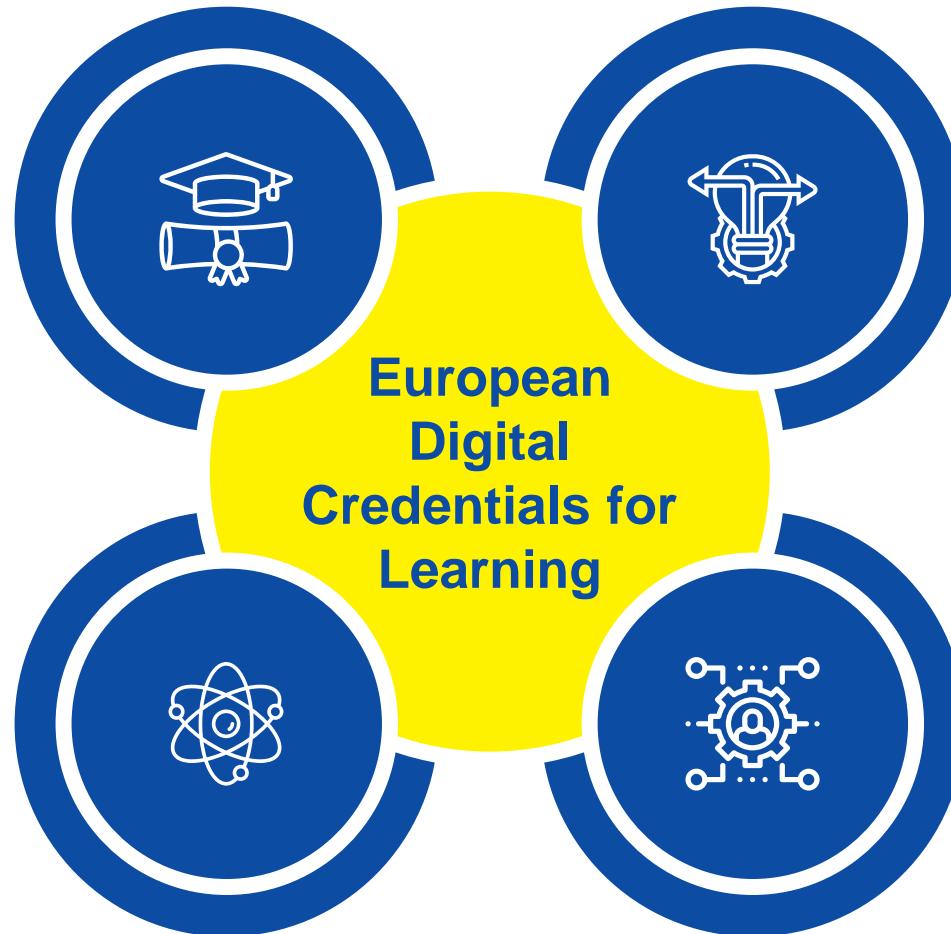


CENTRAL TO THE EU'S POLICY AGENDA

Digital Education Action Plan

Micro-Credentials
Recommendation

European Data Strategy



Europass Decision

Individual Learning
Account Recommendation

European Skills Agenda

Completing the European Education Area (2025)

WHY DOES THE EC NEED A DIGITAL CREDENTIAL INITIATIVE?

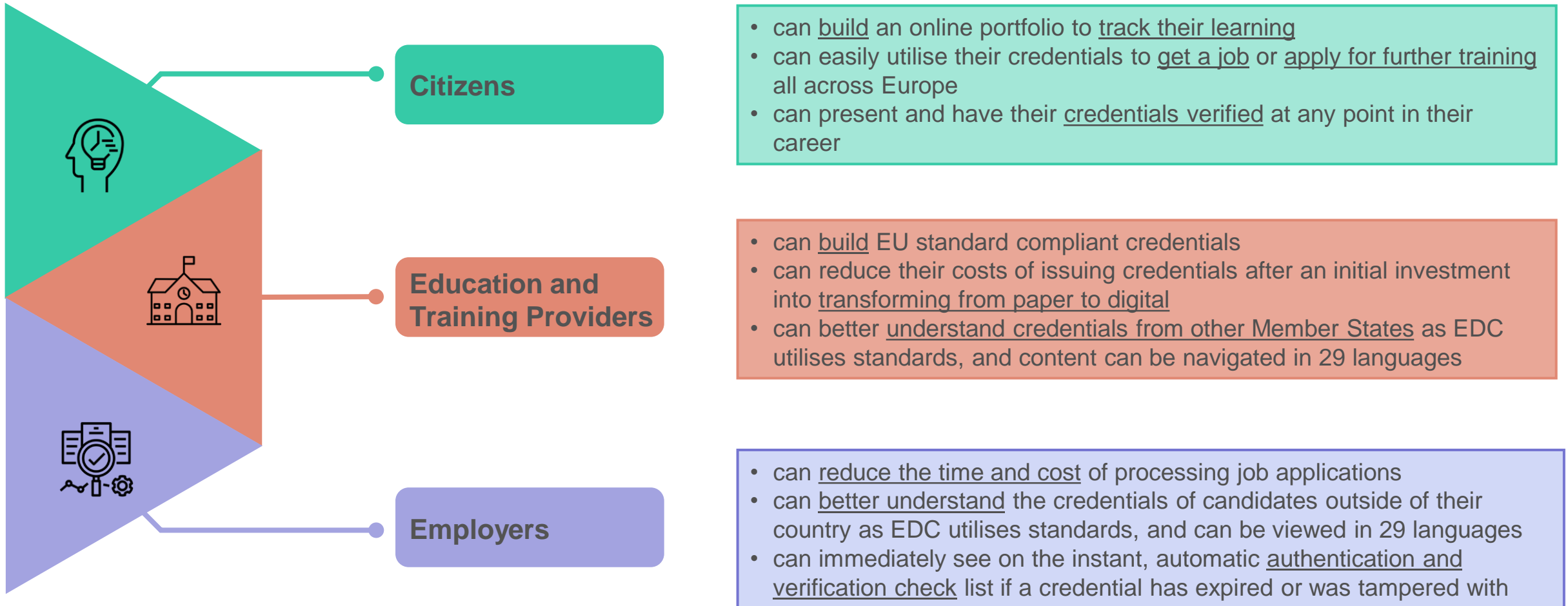
OBJECTIVES

- Empower citizens to own their credentials
- Reduce market fragmentation
- Create an EU Skills Data Space
- Make digital credentials multilingual by default
- Remove barriers to recognition
- Provide accreditation & transparency tools

BENEFITS

- Captures formal, non-formal & informal learning
- Addresses all levels of education
- Applicable to the whole course lifecycle
- Interoperable
- Aligned with European recognition instruments
- Free & open source

WHY USE EUROPEAN DIGITAL CREDENTIALS FOR LEARNING?



IMPLEMENTATION OPPORTUNITIES AND ADVANTAGES



Interoperability



Use **Data Model**



Use **Service**
to issue Credentials



Use **Code**
to develop own applications



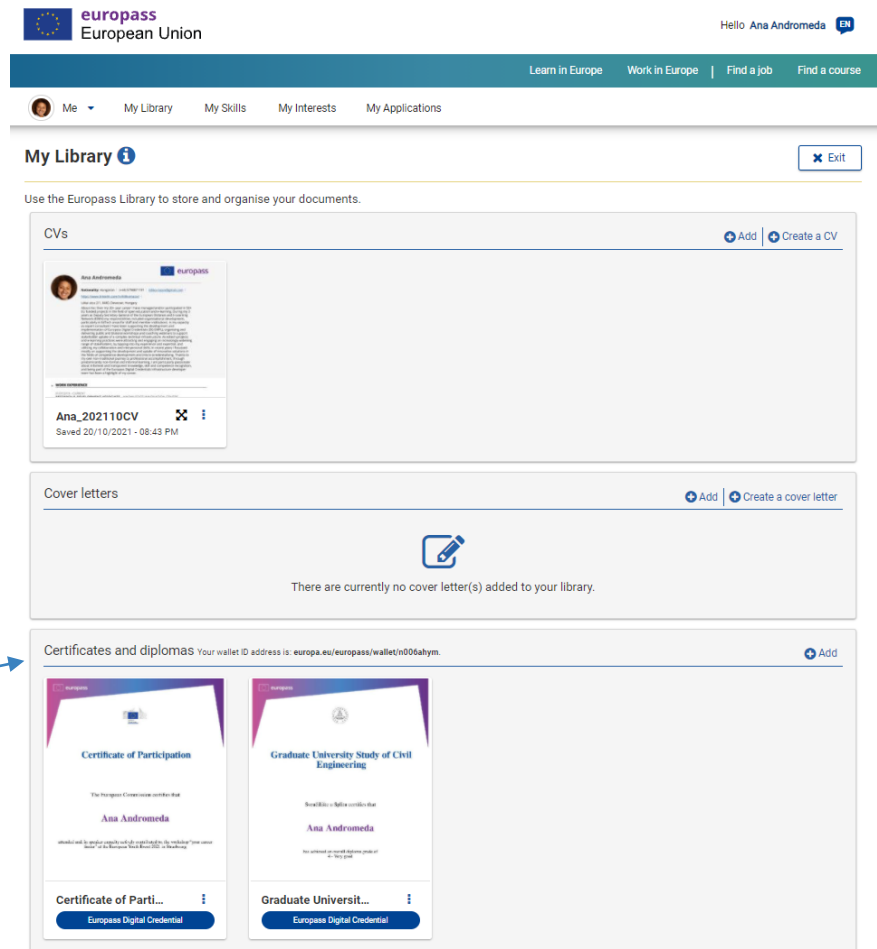
Europass (available in 29 languages)



Access to 4 million wallets



Access to Qualification and
Awarding bodies' data



EUROPEAN DIGITAL CREDENTIALS FOR LEARNING

COMPONENTS OF THE INFRASTRUCTURE

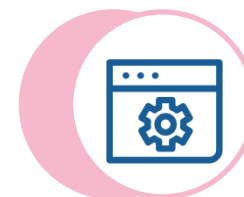
The EDC infrastructure encompasses the technical specifications to implement the framework. It comprises the following core building blocks to help operationalise the framework



Standards



Services



Software

ELEMENTS OF THE INFRASTRUCTURE

Open Infrastructure for Learner Data

Standards

1. European Learning Model
2. Interoperability standards

Services

1. EDC Issuer
2. EDC Wallet
3. EDC Viewer
4. Accreditation database
5. Course & Qualification
Search
6. Open Data Services

Software & support

1. eIDAS & EDC code libraries
2. Docker images
3. Qualifications Dataset
Register
4. Playground
5. API libraries
6. Helpdesk

SYSTEM FUNCTIONS



Issue

credentials and
send them to their
owners

Any standard
compliant issuer can
award info-rich,
tamper-evident
digitally signed
credentials (fast, free
and paperless)



Store

credentials securely
in a single online or
offline wallet

EDCs can be directly
deposited into any
standard compliant
credential wallet



Verify

if the credential is
authentic, valid and
issued by an
accredited
organisation

Instant, automatic
authentication and
verification checks
verify credential's
authenticity, validity,
integrity and issuer's
accreditation status
(if applicable)

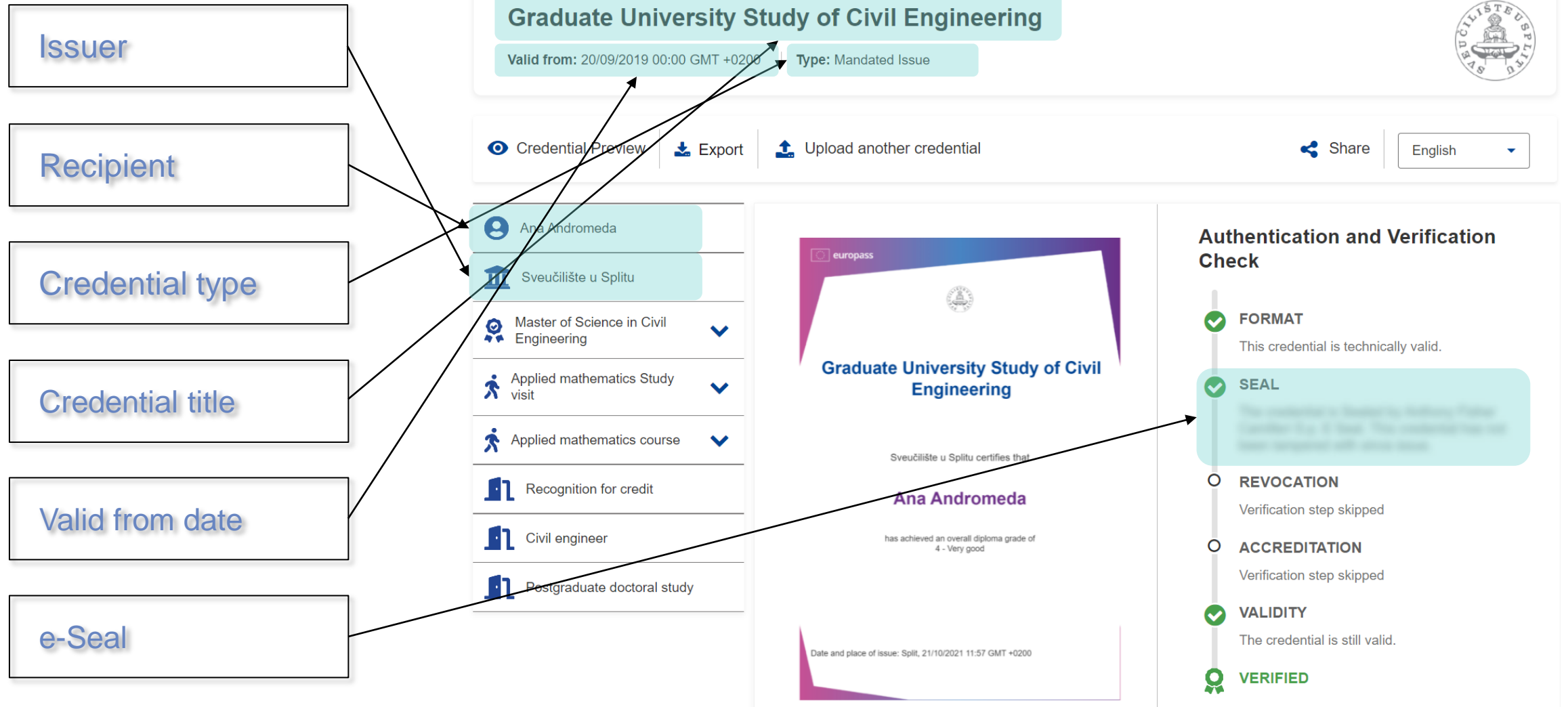


Share

the information in
the credential with
any other person or
organisation with
just a click

Owners can share
their EDC(s) from any
standard compliant
wallet securely by
custom links for fixed
time periods


EDC COMPULSORY PROPERTIES




INSTANT AND AUTOMATIC CHECKS, INCLUDING ACCREDITATION


Graduate University Study of Civil Engineering


Valid from: 20/09/2019 00:00 GMT +0200 | Type: Diploma Supplement (Mandated Issue)





[Home](#) | [Export](#) | [Upload another credential](#) | [Share](#) | [English](#)


 Ana Andromeda


 Sveučilište u Splitu


 Master of Science in Civil Engineering

 Applied mathematics course

 Applied mathematics Study visit

 Postgraduate doctoral study

 Surveyors Board Member

 Civil engineer

Sveučilište u Splitu

EUROPASS DIPLOMA SUPPLEMENT

This Diploma Supplement model was developed by the European Commission, Council of Europe and UNESCO (CEPES). The purpose of the supplement is to provide sufficient independent data to organise the institutional 'transparency' and fair academic and professional recognition of qualifications (diplomas, degrees, certificates, etc.).

1. HOLDER OF THE QUALIFICATION

1.1 Family name	1.2 First name
<input type="text"/>	<input type="text"/>
1.3 Date of birth (DD/MM/YYYY)	1.4 Member ID number or code
<input type="text"/>	<input type="text"/>

2. ISSUING ORGANISATION

2.1 Name of institution	2.2 Country
<input type="text"/>	<input type="text"/>
2.3 Address	
<input type="text"/>	

« < 1 / 3 > »

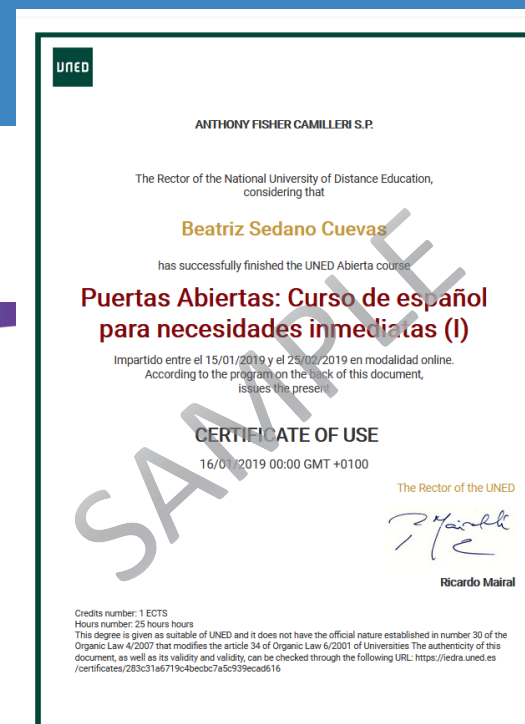
Authentication and Verification Check

- ☒ **FORMAT**
This credential is technically valid.
- ☒ **SEAL**
The credential is Sealed by Nombre Servicio Sellado TEST. This credential has not been tampered with since issue.
- ☐ **REVOCATION**
Verification step skipped
- ☒ **ACCREDITATION**
University of Split is Accredited by the Croatian Agency for Quality Assurance
- ☒ **VALIDITY**
The credential is still valid.
- ☒ **VERIFIED**



TYPES OF DIGITAL CREDENTIALS

- **Qualifications** (e.g., professional certificates, university diplomas and diploma supplements),
- **Activities** (e.g., participation in classes, non-formal learning events, work experience),
- **Assessments** (e.g., transcripts of records), and
- **Entitlements** (e.g., right to enrol in learning opportunities, or to undertake an occupation)




JAMK University of Applied Sciences
Europass diploma supplement


This Diploma Supplement model was developed by the European Commission, Council of Europe and Unesco/CEPES. The purpose of the supplement is to provide sufficient independent data to improve the international transparency and fair academic and professional recognition of qualifications (diplomas, degrees, certificates etc.).


1. Holder of the qualification	
1.1 Family name Matar	1.2 First name Idiko
1.3 Date of birth (DD/MM/YYYY) 27/10/1976	1.4 Student ID number or code 123456789


2. Issuing organisation	
2.1 Name of institution JAMK University of Applied Sciences	2.2 Country Finland
2.3 Address JAMK University of Applied Sciences P.O. Box 35 00030 JAMK Finland	





 Ana Andromeda


 Sveučilište u Splitu


 Master of Science in Civil Engineering


 Applied mathematics course


 Applied mathematics Study visit


 Concrete structures I course


 Dynamics of structures and earthquake engineering course

 Geotechnical engineering course

 Stability of structures course

 Postgraduate doctoral study

 Civil engineer

 Recognition for credit

Master of Science in Civil Engineering

Awarding Date: 20/09/2019 00:00 GMT +0200

Awarding Body: Fakultet Građevinarstva, Arhitekture i Geodezije

This is the overall description of the achievement of the Master of Science in Civil Engineering, that is linked to the overall credential, together with its sub-achievements.

Proven by

Title	Grade
Overall Assessment	excellent (5)

Influenced by: Applied mathematics course, Applied mathematics Study visit, Concrete structures I course, Dynamics of structures and earthquake engineering course, Geotechnical engineering course, Stability of structures course

Entitles Owner to: Postgraduate doctoral study , Civil engineer , Recognition for credit

Sub-Achievements

Applied mathematics, Concrete structures I, Dynamics of structures and earthquake engineering, Geotechnical engineering, Stability of structures

Specification

Ach-Spec-ID-Scheme identifier: AchSpecID-72

Learning Outcomes:

LO1 related to applied mathematics 

LOID-Scheme identifier: LOID-73a

To formulate equations of mathematical physics for engineering problems, and to solve them analytically or with numerical methods.

Type: knowledge

Reusability Level: cross-sector skills and competences

Related ESCO Skills: use mathematical tools and equipment, execute analytical mathematical calculations, geodesy

Related Skills: applied mathematics, perform engineering calculations, construct earthquake resistant structures

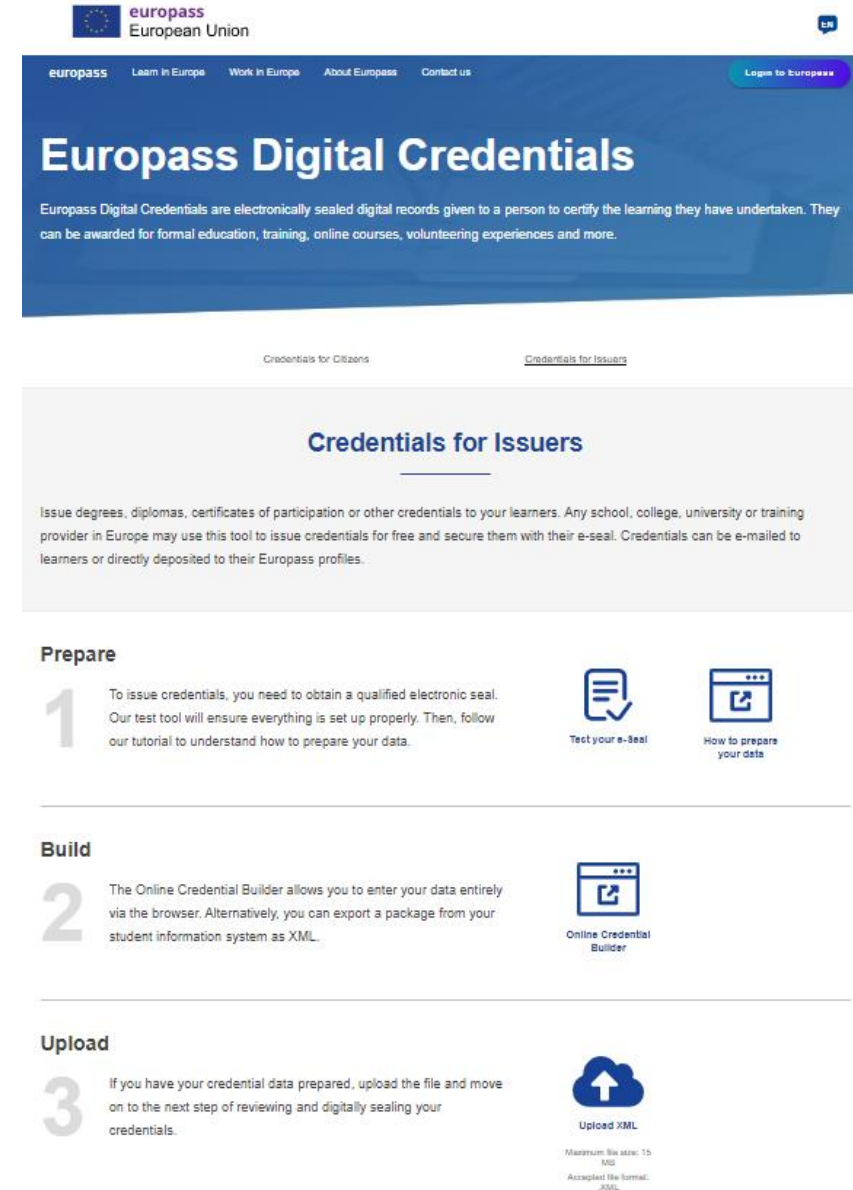
TRANSPARENCY & PORTABILITY

443 ELM properties to describe

- Details of the **credential owner**
- **Organisations**
- **Achievements** (including grades and references to learning outcomes, EQF/NQF levels, ISCED-f codes, ESCO skills activities and entitlements)
- **Activities** (by start and end dates; format, mode and volume of learning)
- **Entitlements** (Entitlement to work as an attorney or enroll in further education)

RECENT DEVELOPMENTS

- Multilingual credentials
- Download unsigned XML
- New templating engine
- Qualification Award and Diploma Supplement
- Accreditation Database
- Upgraded OCB



The screenshot shows the Europass Digital Credentials website. At the top, there is a navigation bar with the Europass logo, links for 'Learn in Europe', 'Work in Europe', 'About Europass', and 'Contact us', and a 'Login to Europass' button. The main heading is 'Europass Digital Credentials'. Below this, a paragraph explains that these are electronically sealed digital records for certifying learning. The page is divided into two main sections: 'Credentials for Citizens' and 'Credentials for Issuers'. The 'Credentials for Issuers' section is highlighted and contains a sub-heading 'Credentials for Issuers' followed by a paragraph explaining that it allows schools, colleges, universities, or training providers to issue credentials for free and secure them with their e-seal. Below this, there are three numbered steps: 1. 'Prepare' - To issue credentials, you need a qualified electronic seal. 2. 'Build' - The Online Credential Builder allows you to enter data via the browser or export as XML. 3. 'Upload' - Upload the prepared file and move to the next step of reviewing and sealing. Each step includes an icon and a brief description.

europass European Union

europass Learn in Europe Work in Europe About Europass Contact us Login to Europass

Europass Digital Credentials

Europass Digital Credentials are electronically sealed digital records given to a person to certify the learning they have undertaken. They can be awarded for formal education, training, online courses, volunteering experiences and more.

[Credentials for Citizens](#) [Credentials for Issuers](#)

Credentials for Issuers

Issue degrees, diplomas, certificates of participation or other credentials to your learners. Any school, college, university or training provider in Europe may use this tool to issue credentials for free and secure them with their e-seal. Credentials can be e-mailed to learners or directly deposited to their Europass profiles.

Prepare

1 To issue credentials, you need to obtain a qualified electronic seal. Our test tool will ensure everything is set up properly. Then, follow our tutorial to understand how to prepare your data.

[Test your e-seal](#) [How to prepare your data](#)

Build

2 The Online Credential Builder allows you to enter your data entirely via the browser. Alternatively, you can export a package from your student information system as XML.

[Online Credential Builder](#)

Upload

3 If you have your credential data prepared, upload the file and move on to the next step of reviewing and digitally sealing your credentials.

[Upload XML](#)

Maximum file size: 15 MB
Accepted file format: XML

Q1 2023 developments

- Native Verifiable Credentials
- JSON-LD
- Upgrade of Mandated Issue

Foreseen developments

- Attestations
- Credential resigning
- Qualification Templates
- Certificate Supplements
- Support for Self-Sovereign Identity

Q2-4 2023 developments

- Archive Wallet
- Revocation list
- Data model browser
- Re-signing service
- Europass Mobility supplement



Thank you!

Contact us at
EMPL-ELM-Support@ec.europa.eu