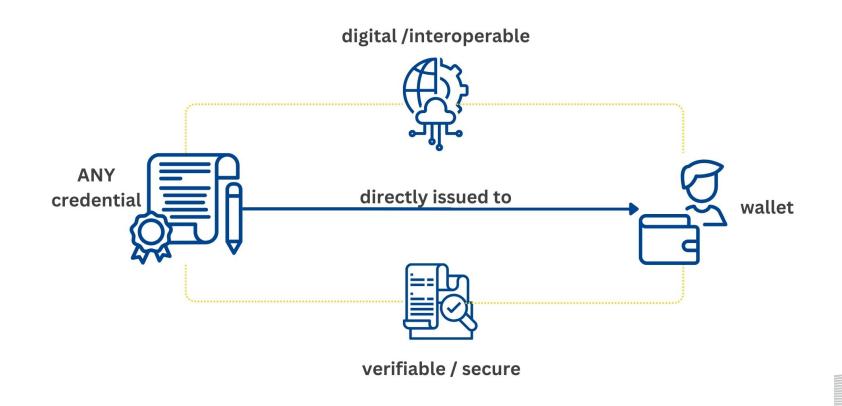


What is a Digital Credential?

What is it?

A digital presentation of our traditional learning credentials, securely received directly in one's digital wallet



Standards support interoperability



Why do we need a common European standard?

- Central to the EU's policy agenda
- Interoperablility with other EU & global standards
- Covers all E&T levels and the whole course lifecycle
- Multilingual European (not UK or USA based) solution
- Tested in real life use cases across the EU
- Long term validity and backwards compatibility
- Support free movement (transparency & portability)

- Serve education providers and employers
- Privacy by design (GDPR)
- Control by owners
- User-friendliness (easy to share, store, verify EDCs)
- EDCs embed and check against QA data/records
- Trustworthy & tamper evident credentials
- Rich of linked open data (QF, ESCO, ISCED-f +)
- Free and open source



Simplified diagramme of the ELM

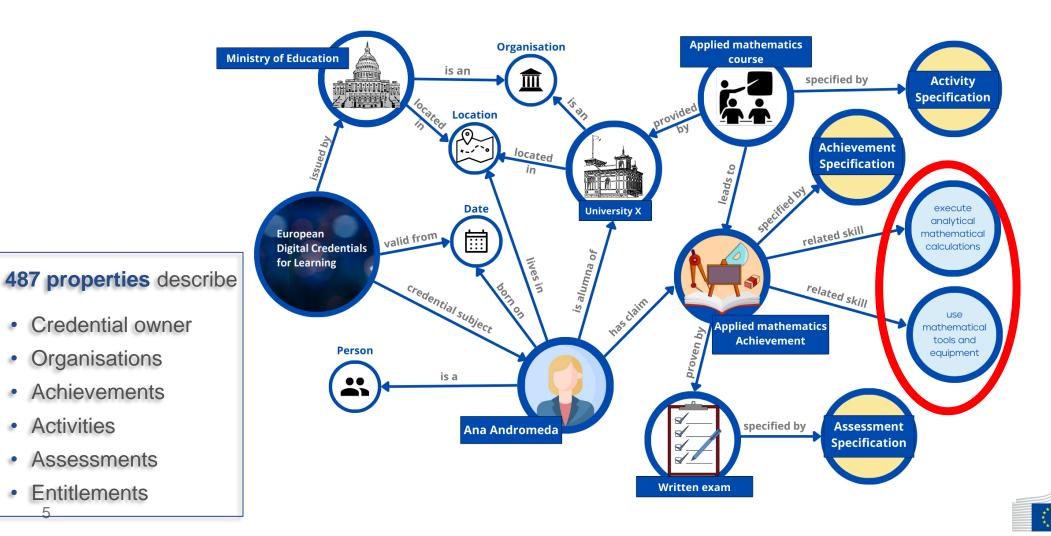
Organisations

Achievements

Assessments

Activities

Entitlements



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Core EDC design aspects and features











Digitalising world

Security & Trust

Recognition

Showcasing Knowledge & Skills

Ownership of data



Digital Transition for Credentials



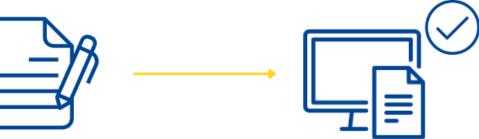


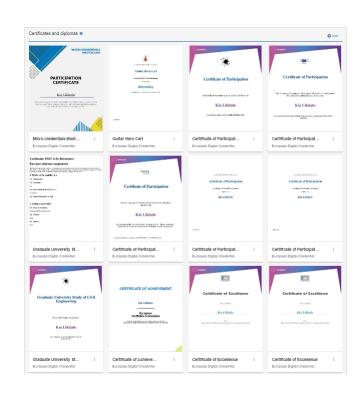






- Moving beyond paper
- Digital ecosystem for learning and credentials
- Enriching learning/credential data
- Human and machine readable
- Storing credentials in one place
- Portable credential data
- Sharing credentials online
- Cost & time efficiency







Security & Trust: Beyond PDFs





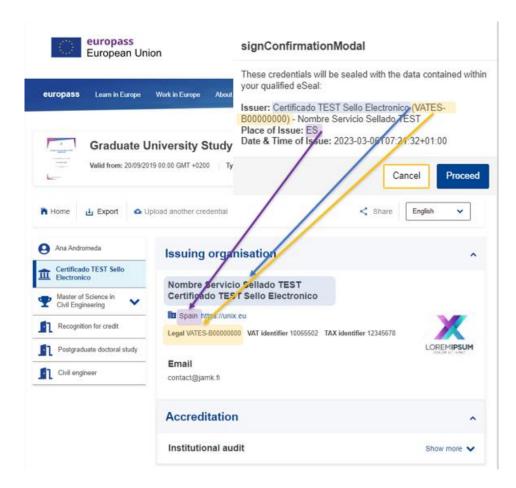






- The electronic Seal is the digital equivalent of an institution's rubber stamp
- Complying with elDAS makes credentials portable
- Instant, automatic authentication and verification checks certify the credential's authenticity and origin











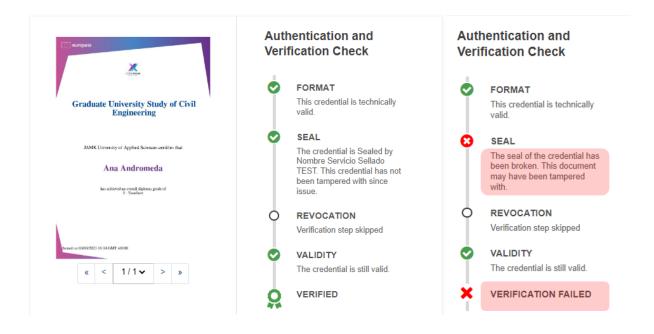






Instant, automatic authentication and verification

- Credentials are tamper-evident fraud is easy to detect
- All valid EDCs have the same standard format
- All EDCs are sealed by a qualified or advanced eSeal
- Verification of a credential's validity









Supporting Recognition

- Verify the issuer's identity: eSeals provide trust in credentials' origin
- Structured, standardised data: based on the European Learning Model (ELM)
- Multilingual by default: Content and navigation in 29 languages
- **Interoperability**: Aligned with existing frameworks and taxonomies (EQF/NQF, ISCED-F, ESCO, etc.)
- **Accreditation**: Instant verification of an institution's accreditation status

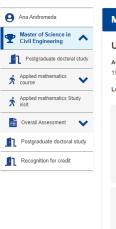


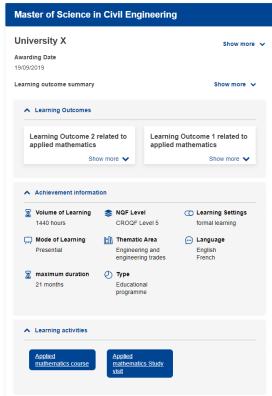






















Showcasing Knowledge & Skills





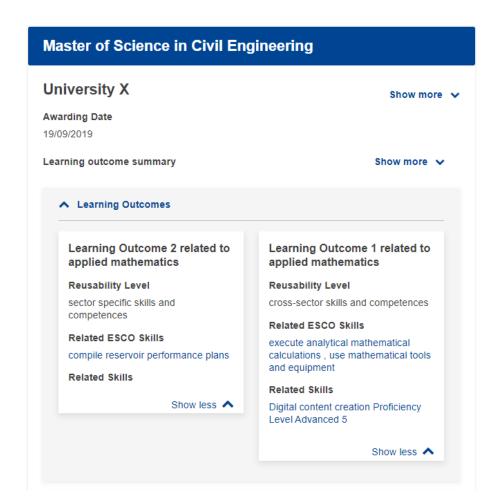








- Learning Achievements can be linked to multiple learning outcomes
- Learning Outcomes can be described in detail
- Standard knowledge and skill concepts from ESCO and/or other taxonomies can be linked to LOs
- Linking learning activities and assessments can show means and proofs of LO acquisition



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Showcase Knowledge & Skills



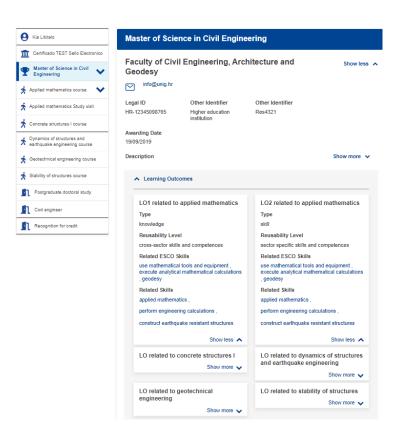








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Data rich credentials allow for advanced services

The Data Layer allows computers to understand the data enclosed within a credential



Checking eligibility for Jobs / Courses



Recommending courses / skills



Comparing performance



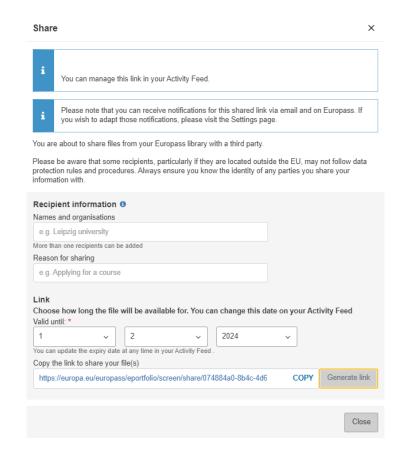
Skills Intelligence

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"contactPoint":{ + },
"dateOfBirth": "1999-10-01T22:00:00Z".
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   "type": "LearningAchievement",
   "awardedBy":{ ∰ }.
   "influencedBy":{ 🛨 },
    "provenBy": { ! },
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      "learningSetting":{ 🛨 }.
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      "title":{ 🛨 },
      "dcType": { [+] }
   "title":{ 🖃
       "en": "Digital micro-credential creation"
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Empowerment Through Data Ownership

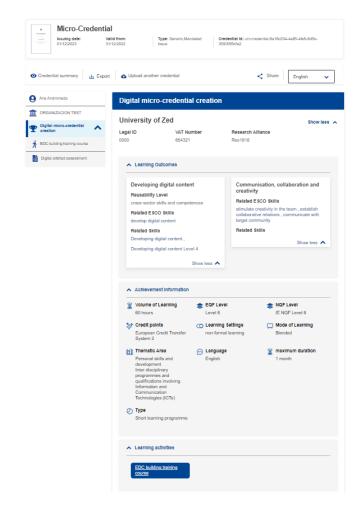
- Learner-Centric Approach grants the credential ownership to the individual
- Instant Access to a person's credentials, irrespective of source, size or formality
- Bypass Bureaucracy no need to request certified copies from issuer
- Controlled Sharing with designated third parties for customised periods





Expressing Annex I Content with EDC

Mandatory elements:	Identification of the learner
	Title of the micro-credential
	Country/Region of the issuer
	Awarding body
	Date of issuing
	Learning outcomes
	Notional workload needed to achieve the learning outcomes (in
	ECTS credits, wherever possible)
	Level (and cycle, if applicable) of the learning experience leading to
	the micro-credential (EQF, QF-EHEA), if applicable
	Type of assessment
	Form of participation in the learning activity
	Type of quality assurance used to underpin the micro-credential
Optional elements,	Prerequisites needed to enrol in the learning activity
where relevant (non-	Supervision and identity verification during assessment
exhaustive list)	(unsupervised with no identity verification, supervised with no
	identity verification, supervised online, or onsite with identity
	verification)
	Grade achieved
	Integration/stackability options (standalone, independent micro-
	credential/integrated, stackable towards another credential)
	Further information

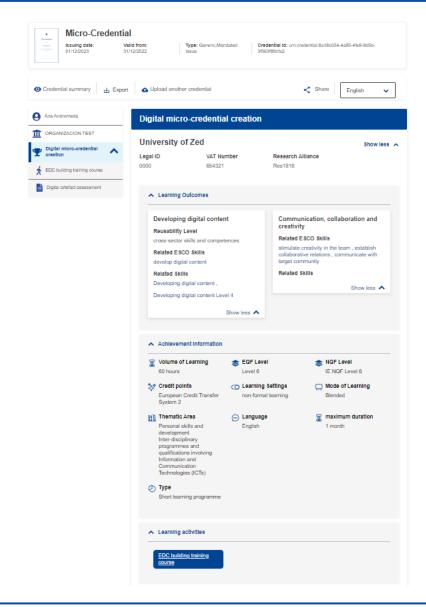




Expressing Annex 1 content with EDC



Mandatory elements:	Identification of the learner
	Title of the micro-credential
	Country/Region of the issuer
	Awarding body
	Date of issuing
	Learning outcomes
	Notional workload needed to achieve the learning outcomes (in
	ECTS credits, wherever possible)
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What is offered by the EDC infrastructure?



Start with web-based free tools



VERIFY → **ISSUE** BUILD STORE SHARE

credential templates in the Online Builder

Seal and award credentials to owners

credentials securely in one wallet

credential's authenticity and validity

credential information with one click

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What is offered by the infrastructure?

Start with web-based free tools



BUILD

credential templates in the Online Builder

ISSUE

Seal and award credentials to owners

STORE

credentials securely in one wallet

VERIFY

credential's authenticity and validity

SHARE

credential information with one click



DEMO



How to get started

1

Start Your Exploration

Venture into our Playground and build your first credential without any prerequisites

2

Anchor with Trust

Get your eSeal via a Trust Service Provider

3

Customise your credential

What would you like YOUR credential to look like?

4

Embark on Issuing

Got your eSeal? Start issuing!



Go one step further...

Ease your processes by integrating the EDC framework into your existing IT structure





Q&A



Still have more questions?

Get in touch at:

EMPL-ELM-SUPPORT@ec.europa.eu

