

Skills 4 eosc

- Skills for the European
- Open Science
- Commons

European Digital Credentials for Learning (EDC) vs Open Badges

Benefits, limitations and our experience

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Supporting

eosc

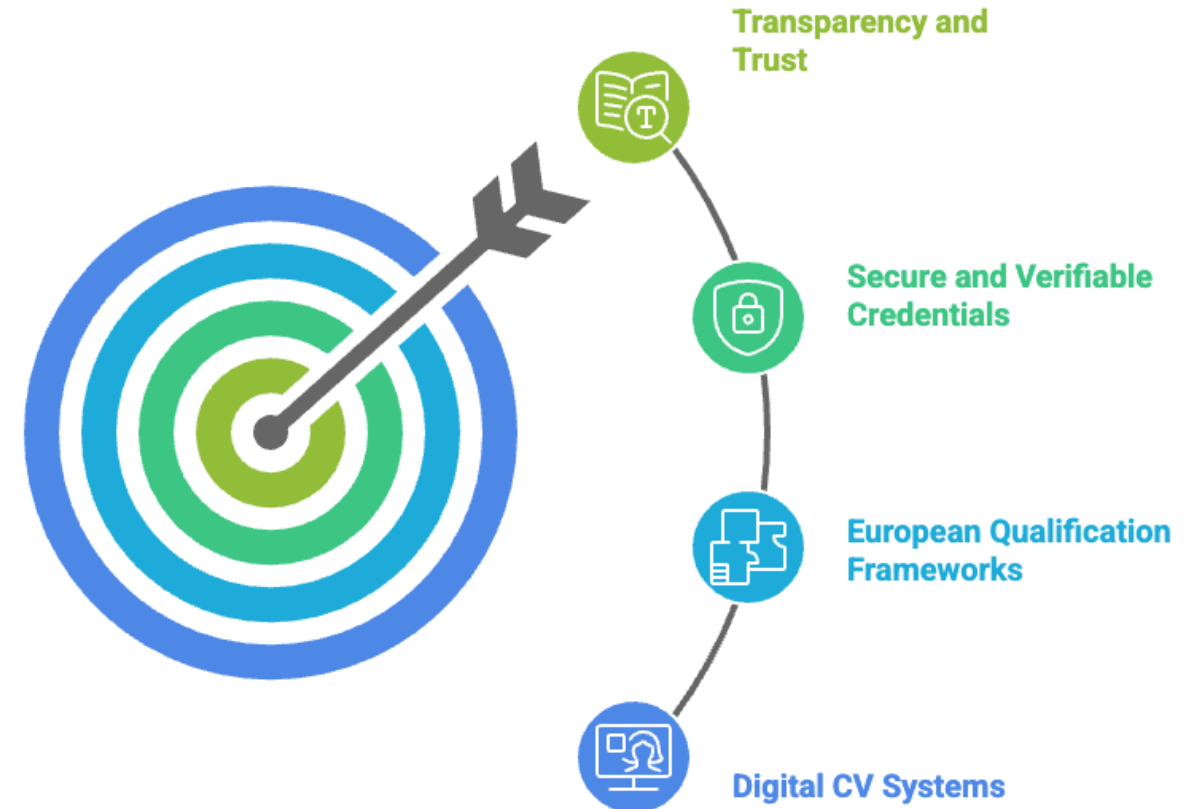


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the European Union



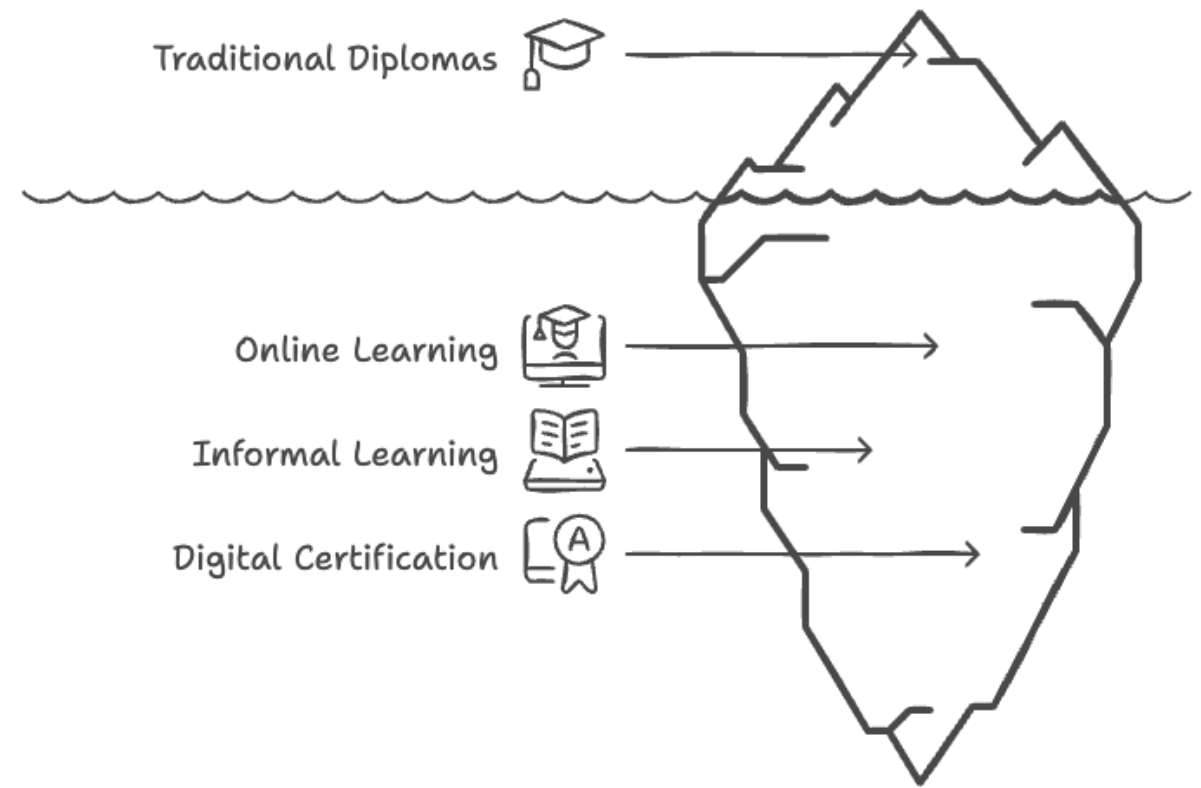
What are European Digital Credentials for Learning?

- A standard developed by the European Commission.
- Enables issuing digital credentials that are **verifiable**, **secure**, and **interoperable** across Europe.
- Aligned with **Europass** and the **European Qualifications Framework (EQF)**.



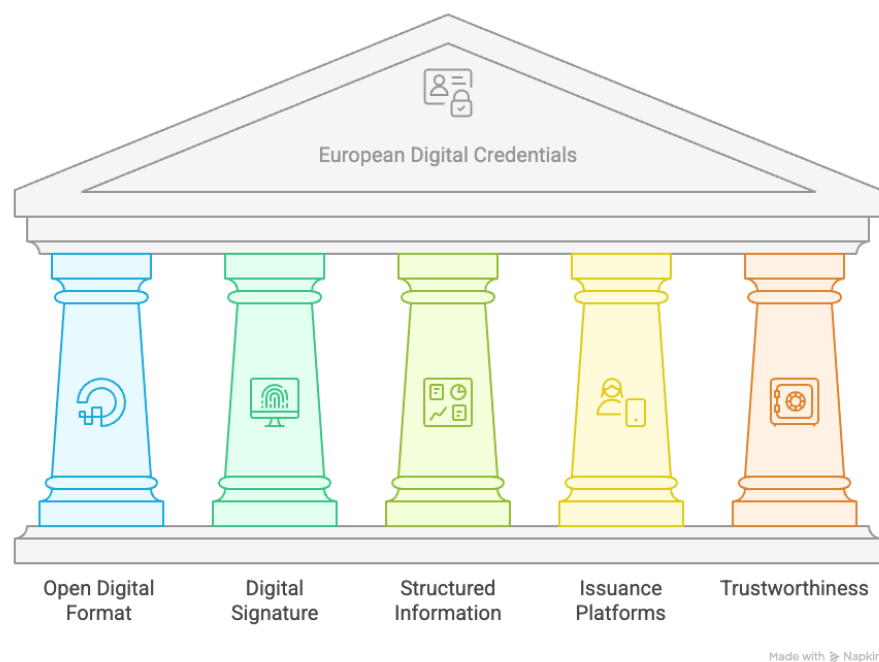
Why do we need digital credentials?

- Learning is increasingly **non-formal** and **online**.
- Need for **trustworthy recognition** beyond traditional diplomas.
- Supports **mobility**, **employability**, and **lifelong learning**.



Made with  Napkin

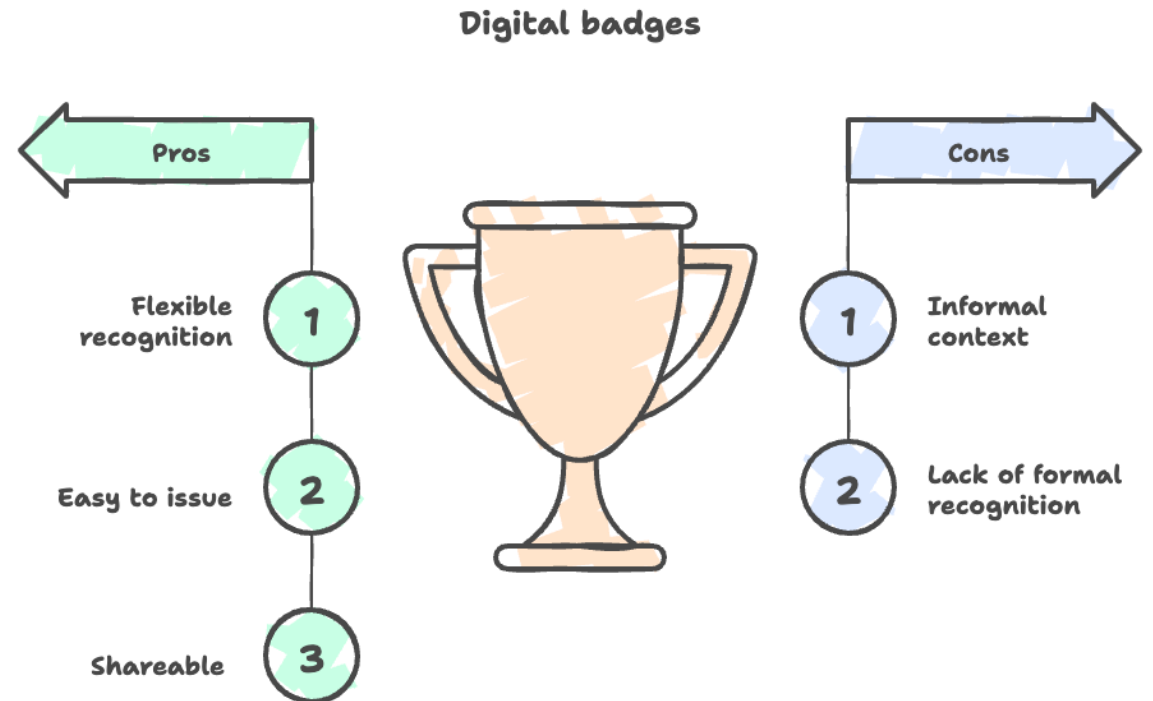
How EDC works



- Based on **Verifiable Open Credentials (VOC)**.
- Uses **JSON-LD** format and is **digitally signed**.
- Issued via **Europass infrastructure** or national platforms.
- Includes metadata: issuer, learning outcomes, EQF level, workload, etc.

What about Digital Badges?

- Based on **Open Badges standard (OBv2)**.
- Widely used for **micro-credentials, skills recognition, and informal learning**.
- Typically issued by **MOOCs, training platforms, or professional communities**.



Made with Napkin

EDC vs. Digital Badges – Comparison

Feature	EDC	Digital Badges
Standards compliance	Europass, EQF	OBv2
Trust and verification	High (signed with E-Seal & hosted by EC)	Varies (issuer-dependent)
Metadata richness	Very detailed	Less detailed
Recognition	Formal education, institutions	Informal/non-formal learning
Interoperability	EU-wide	Global (but inconsistent)
Usability	Requires structured data input (E-seal)	Easier and quicker to issue

Benefits of EDC

- ✓ Trusted and recognized across Europe
- ✓ Supports integration into **official qualification systems**
- ✓ Enables **automatic verification**
- ✓ Promotes **transparency of learning outcomes**
- ✓ Enhances **mobility and employability**



**Official
Recognition**



**System
Integration**



**Verification
Ease**



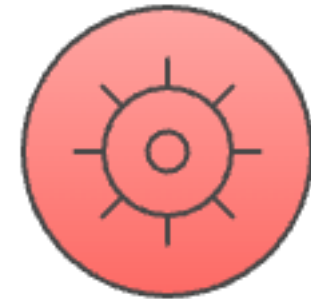
Transparency



Trust Building

Limitations of EDC

- ⚠ Higher entry barrier for issuers (technical, administrative and semantic)
- ⚠ Less flexible for informal learning contexts
- ⚠ Still under adoption in many countries
- ⚠ Not automatically issued



Challenges

Requires technical and administrative preparation

When to use what?

Use **EDC** when:

- The credential is **formal, accredited, or linked to qualifications**
- You want **long-term verification** and **institutional trust**

Use **Digital Badges** when:

- The learning is **short, informal, or experimental**
- You want **fast issuance** and **wide sharing on social platforms**

Our EDC experience




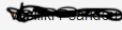










[European Digital Credentials for Learning](#) > Review



Send

[Issue more Credentials](#)

Send credentials to the recipients' mailboxes or credential wallets.

<input checked="" type="checkbox"/>	RECIPIENT	CREDENTIAL TITLE	VALID	SEALED	SENT	ACTIONS
<input checked="" type="checkbox"/>		FAIR-by-Design Instructor	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	 
<input checked="" type="checkbox"/>		FAIR-by-Design Instructor	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	 
<input checked="" type="checkbox"/>	Andrea Corleto	FAIR-by-Design Instructor	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	 
<input checked="" type="checkbox"/>		FAIR-by-Design Instructor	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	 
<input checked="" type="checkbox"/>		FAIR-by-Design Instructor	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	 

Credential summary


Credential summary Export Upload another credential Share English

Andrea Corleto

Issuer

FAIR-by-Design Instructor


FAIR-by-Design assessment



The certificate features the Skills 4 eosc logo at the top left, with a green and black geometric design. It includes logos for Skills 4 eosc, the European Union, and the FAIR project. The text on the certificate reads: "FAIR-by-Design Instructor", "Skills 4 eosc certifies that", "Andrea Corleto", and "has successfully passed the FAIR by Design Training of Trainers and is able to practically implement the FAIR-by-Design Methodology for the development of learning materials." At the bottom, there are navigation arrows and a page indicator "1 / 1".



EDC metadata



FAIR-by-Design Instructor

Issuing date: 05/06/2025 | Valid from: 22/10/2023 | Type: Generic | Credential id: urn:credential:0a8c15ca-94e5-4831-8bc5-d20c2d033cd4

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

Andrea Corieto

Issuer

- FAIR-by-Design Instructor**
- FAIR-by-Design assessment
- FAIR-by-Design assessment

FAIR-by-Design Instructor

Awarded By
Consortium GARR


Awarding Date
22/10/2023

Learning outcome summary [Show less](#)

- Define FAIR learning objects;
- Adapt and mix FAIR learning objects;
- Identify licenses and attribute correspondingly;
- Structure comprehensive learning materials;
- Manage file formats and tools;
- Define metadata using a schema;
- Create and publish FAIR-by-Design learning materials;
- Collaborate with other instructors;
- Assess FAIRness of existing learning objects.

Achievement information

Volume of Learning 18 hours	Learning Settings non-formal learning	Mode of Learning Online
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Andrea Corieto

Issuer

- FAIR-by-Design Instructor
- FAIR-by-Design assessment**
- FAIR-by-Design assessment

FAIR-by-Design assessment

Awarded By
Consortium GARR

Date issued
22/10/2023

Grade
380

Description [Show less](#)

Pass all per-stage quizzes based on multiple-choice questions with a minimum grade of 376, while the maximum grade is 470.

Assessment Information

Assessment Type
quiz

EDC in EUROPASS library

europa.eu/europass/eportfolio/screen/my-library?lang=en

Certificates and diplomas 1

[+ Upload](#)



Livello Berlitz B

La dott.ssa Gabriella PAOLINI ha partecipato ad un corso di lingua INGLESE, dal 2 maggio 2022 al 14 gennaio 2023 per un totale di 30 ore di lezioni individuali, con una frequenza del 100%.

Il file entra in corrispondenza con Skill C01

Berlitz Certificate - CEF B 2.1

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ATTESTATO DI FREQUENZA

SI ATTESTA CHE

PAOLINI GABRIELLA

ha frequentato l'evento dal titolo

MOJO: I SOCIAL E I VIDEO

che si è svolto il 22 ottobre 2022

acquisendo 3 crediti per la formazione professionale continua

att_61bde3b1371546378e53...

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Skills
4 eosc

FAIR-by-Design Instructor

certifies that:

Gabriella Paolini

has successfully passed the FAIR-by-Design training of Trainers and is able to practically implement the FAIR-by-Design Methodology for the development of learning materials.


FAIR-by-Design Instructor

European Digital Credentials for Learning



The EDC is verified!

ial Share English



Design Instructor

certifies that

Gabriella Paolini

IR-by-Design Training of Trainers and is able to
-by-Design Methodology for the development
earning materials.

Authentication and Verification Checks

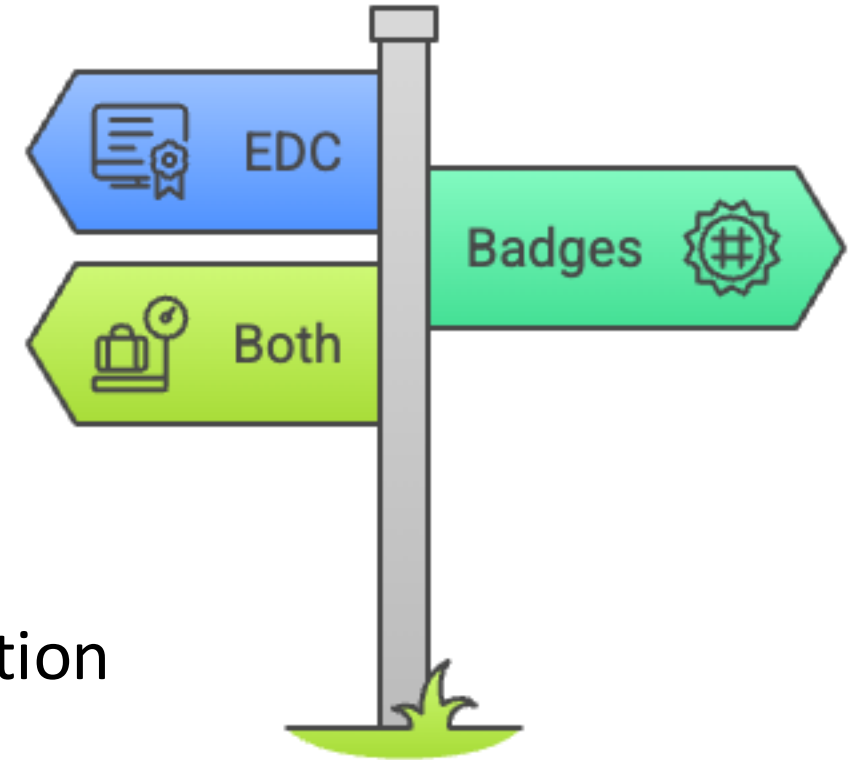
- ✓ **FORMAT**
This credential is technically valid.
- ✓ **SEAL**
The credential is Sealed by Consortium GARR. This credential has not been tampered with since issue.
- **REVOCATION**
Function under development. Contact the awarding body for information about this credential's revocation status.
- **ACCREDITATION**
Accreditation does not apply to this Credential
- ✓ **VALIDITY**
The credential is still valid.
- ✓ **VERIFIED**



Conclusion and Q&A

Key takeaways:

- EDC = formal, robust, European-wide recognition
- Badges = flexible, fast, informal skills sharing
- Both can **coexist** in a learner-centered ecosystem



Skills 4 eosc

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- Open Science
- Commons



Supporting

eosc



Funded by
the European Union

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funding from the
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Europe research and
innovation Programme
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Thank you! Questions?