

Decentralisation and VCs are the next digital evolution

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Decentralisation and the portable digital credentials, a new paradigm shift

Decentralisation is the next evolution of the world wide web – and with it, decentralisation of trust, and the **emergence of portable digital credentials.** Both public and private initiatives at EU and international levels are emerging to leverage on the opportunities given by this new paradigm.

Europe's Digital Decade, multi-country projects and EBSI

The EU will pursue a human-centric, sustainable vision for digital society throughout the digital decade. Multi-country projects are large-scale projects that can contribute to achieving the digital decade targets. The Commission has identified an initial list of 10 areas of investment for multi-country projects. EBSI is one of them.

The EBP and the EU as a key actor to accelerate its adoption

The European Blockchain Partnership and the European Union is well positioned to play a major role in federating and accelerating the adoption of decentralization and VCs across Europe



EBSI is gaining

omentum

We can leverage on combination of bottom-up and top-down initiatives to gain momentum



Piloting within the Early Adopters Programme

We have launched an Early Adopter Programme and the MU pilot: **22 projects** (2 European universities alliances, **+18 universities** from **+15 countries**) are working on first Implementation of EBSI in preproduction



Working together with other EU Initiatives

We are working together with **DG EMPL**, **DG EAC** and other **Institutions** e.g. Reusing the **Europass data format** for
educational credentials, social
security credentials, etc.



Driven by major shifts in the identity policy space

We are starting to put in place the piloting of EBSI in the context of the EU-eID wallet and the EU Digital Identity Framework.



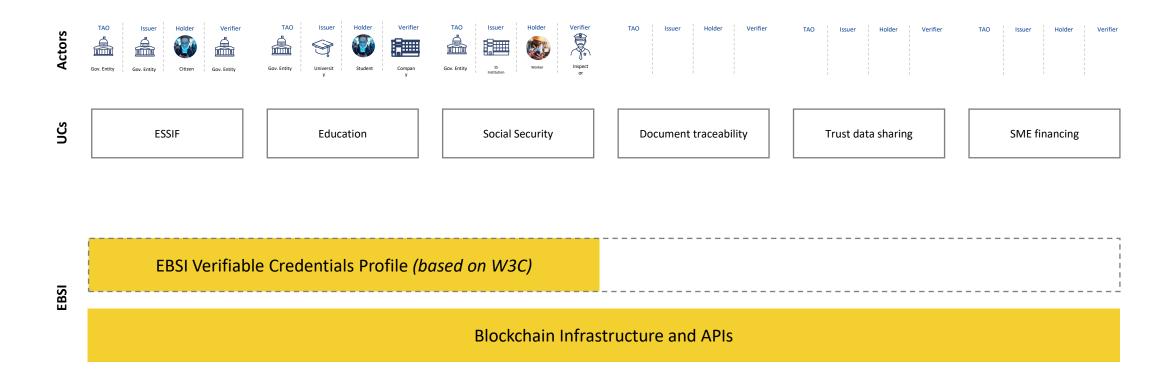
Riding on the momentum of national initiatives

Some important MSs initiative like the Joint Declaration* with Spain, Germany, Finland and the Netherlands are proof there is an appetite to tackle these issues collaboratively.



What is **EBSI** today?

EBSI is user centric, decentralized and reusable in multiple contexts and use cases. It is based on open standards to stimulate interoperability and the creation of cross-border public services



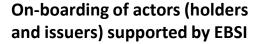


The Verifiable Credentials Lifecycle, the summary

One common Verifiable Credentials Lifecycle based on W3C specifications



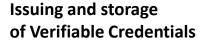
On-boarding



- Set up wallets and create DIDs
- Registration of DIDs on EBSI
- Accreditation of issuers of VCs



Issuing & storage



- Request issuance of VC
- Issuance of VC
- Storage of VCs



Presentation & verification

Presentation and Verification of Verifiable Credentials

- Request Verifiable Presentation
- Share Presentation
- Verify Claims

W3C Specifications

Not specified by W3C's spec

- Issuance of one or more VCs.
- Storage of VCs in a credential repository (such as a digital wallet).

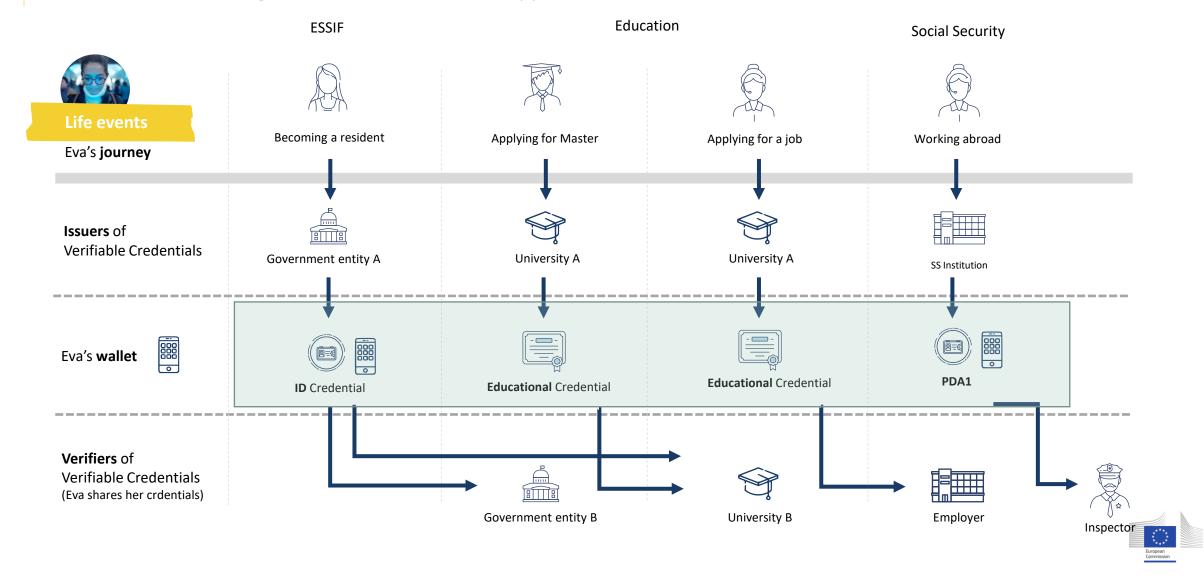
- Composition of VPs.
- Verification of the VPs



The exchange of VCs applied to our

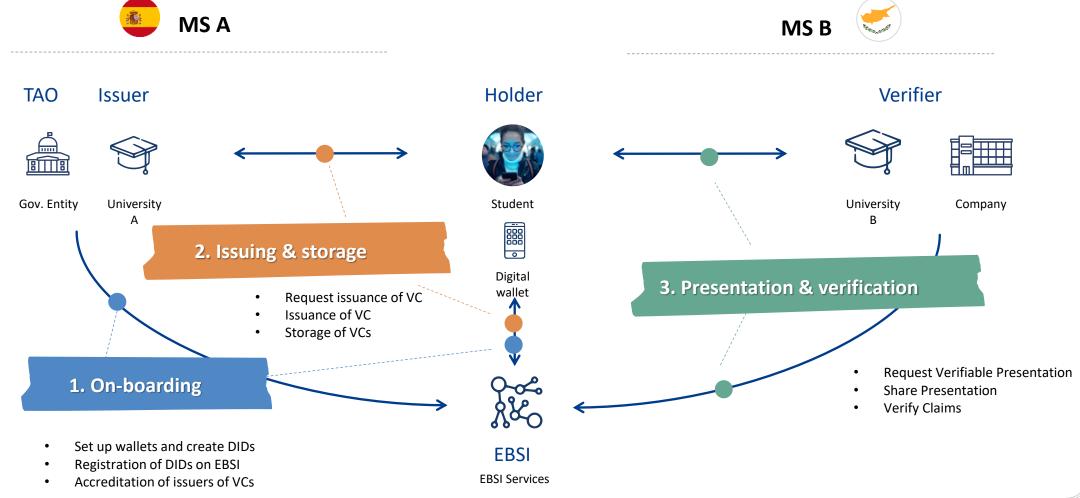
cases

Let's look at the exchange of Verifiable Credentials applied to our use cases



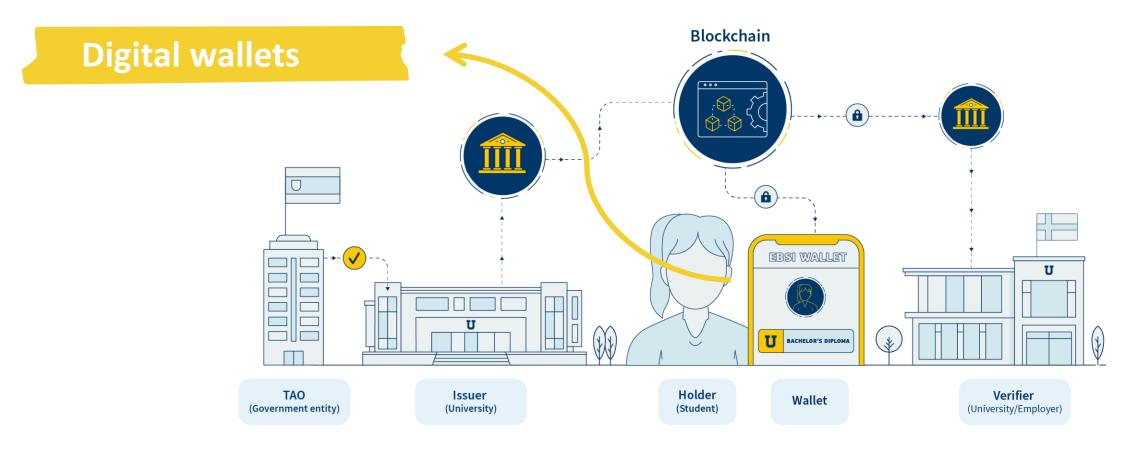
Applying the VC lifecyle in cross border context

Applying the VC lifecycle in a cross border context



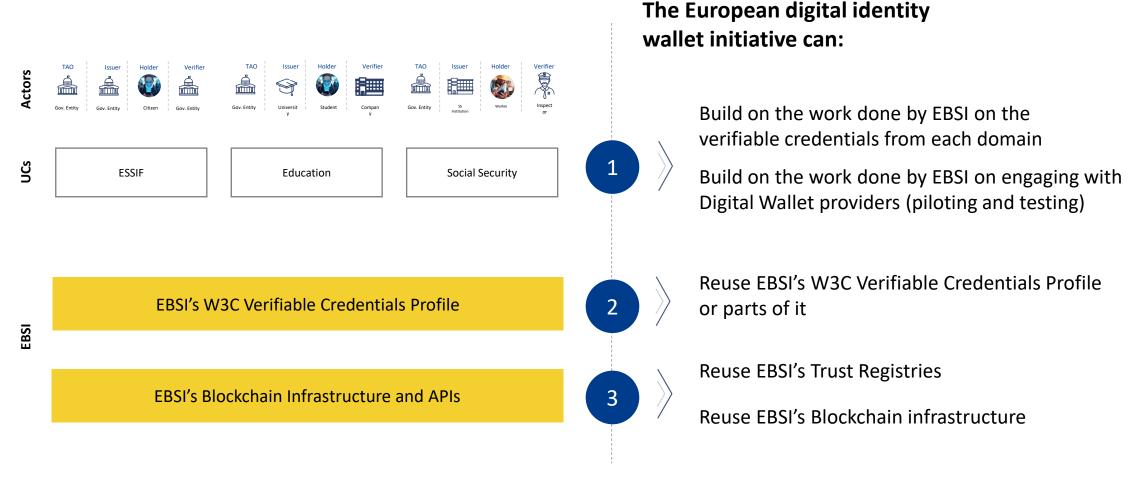
Wallets mediate almost all user interactions.

The vast majority of interactions to exchange VCs depend on the wallet



Possible synergies with the European digital identity wallet

There are many possibilities of collaboration between the two initiatives





Services to support the Early Adopters

What are the services we provide to the Early Adopters?

Current focus on digital credential



EBSI's Verifiable
Credentials lifecycle for
Early Adopters

Navigating EBSI's Verifiable Credentials Profile

<u>Verifiable Credentials Lifecycle - Blockchain Internal - CEF</u> Digital (europa.eu)



Credentials Playbook for Early Adopters

Creating EBSI's Verifiable Credentials Profile

RFC - EBSI Verifiable Credentials Playbook for Early Adopters - Blockchain Internal - CEF Digital (europa.eu)



Testing for Early Adopters

Checking the conformance of your wallet to EBSI

Coming soon



Towards a hared engagement / adoption strategy

Three steps to ensure coherence at European and national levels.

PARTNERS (INSTITUTIONS)



SERVICE PROVIDERS



Service providers Application for verifiers

ISSUER















HOLDERS

- Define the gaps to realise the cross-border scenario. Identify and map stakeholders based on the gaps.
- **Define common priority target** audience (see illustration).
- **Engage with the priority target** audience with a common approach. Define the needs, message and channels to engage with the target audience.

Create communication materials and plans for each segment. Activate the right networks.

CORE STAKEHOLDERS

TAO

ISSUERS

HOLDERS

VERIFIERS





Service providers Digital wallet



providers

Application for

issuers





Connect. Make. Grow.

Join the ESSIF ecosystem and create value by connecting million of Europeans https://ec.europa.eu/cefdigital/wiki/display/CEFDIGITAL/ebsi