



European
Commission



European Blockchain Service Infrastructure

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Service Operation Manager

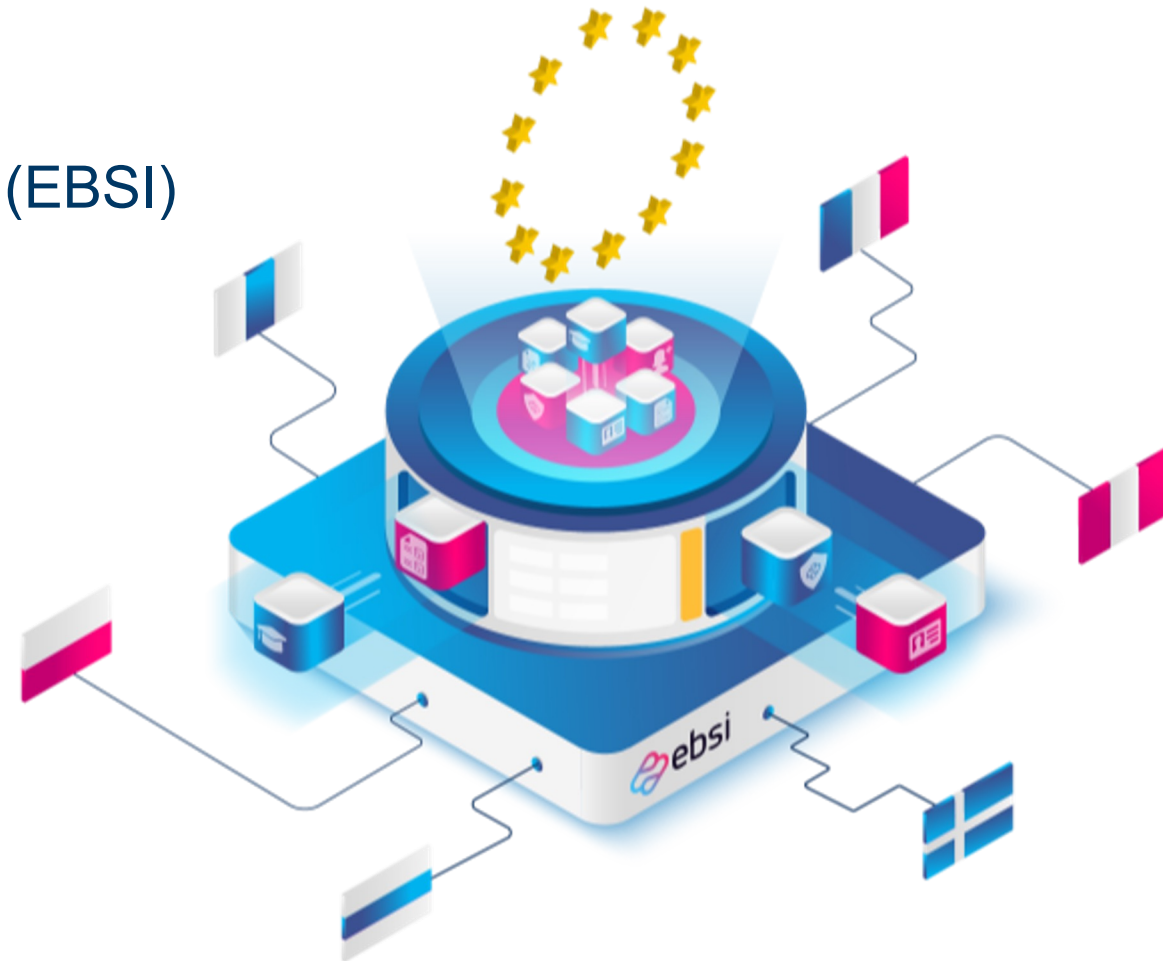
What is EBSI

European Blockchain Services Infrastructure (EBSI)

2018

29 countries (all EU members states,
Norway and Liechtenstein)
and the EU Commission

European Blockchain Partnership (EBP)



What is EBSI

EBP's vision is to leverage blockchain to create **cross-border services** for public administrations, businesses, citizens and their ecosystems to **verify information** and make **services trustworthy**.



PAN EUROPEAN GOVERNMENTAL NETWORK

40 nodes in 23 Countries



Nodes per country:

 Austria (1)	 Lithuania (1)
 Belgium (2)	 Luxembourg (2)
 Bulgaria (2)	 Netherlands (4)
 Croatia (1)	 Norway (1)
 Cyprus (1)	 Poland (1)
 Czechia (2)	 Romania (3)
 Estonia (1)	 Slovakia (2)
 Finland (1)	 Slovenia (1)
 France (2)	 Spain (2)
 Germany (3)	 Sweden (1)
 Greece (2)	
 Hungary (3)	
 Italy (2)	

Three Dimensions



Business

Verifiable Credentials, Track and Trace, Trusted Data Exchange

Technology

Core Services: APIs, Smart Contracts, Ledger

Infrastructure

Pan-European Network of Nodes, Fully Decentralized

Infrastructure



EBSI Node Operators

EBP Endorsement

Technical Compliance

Security Certification

SLA

Legal Package

Monitoring and Alerting

Technology



EVM Ledger

Smart Contracts and APIs

Software Development

CI/CD, Releases

Trusted Registries

Security

Maintenance

Business



Actors: Trusted Accreditation Organisation, Trusted Issuer, Verifier, Holder

Applications: Wallets and Portals

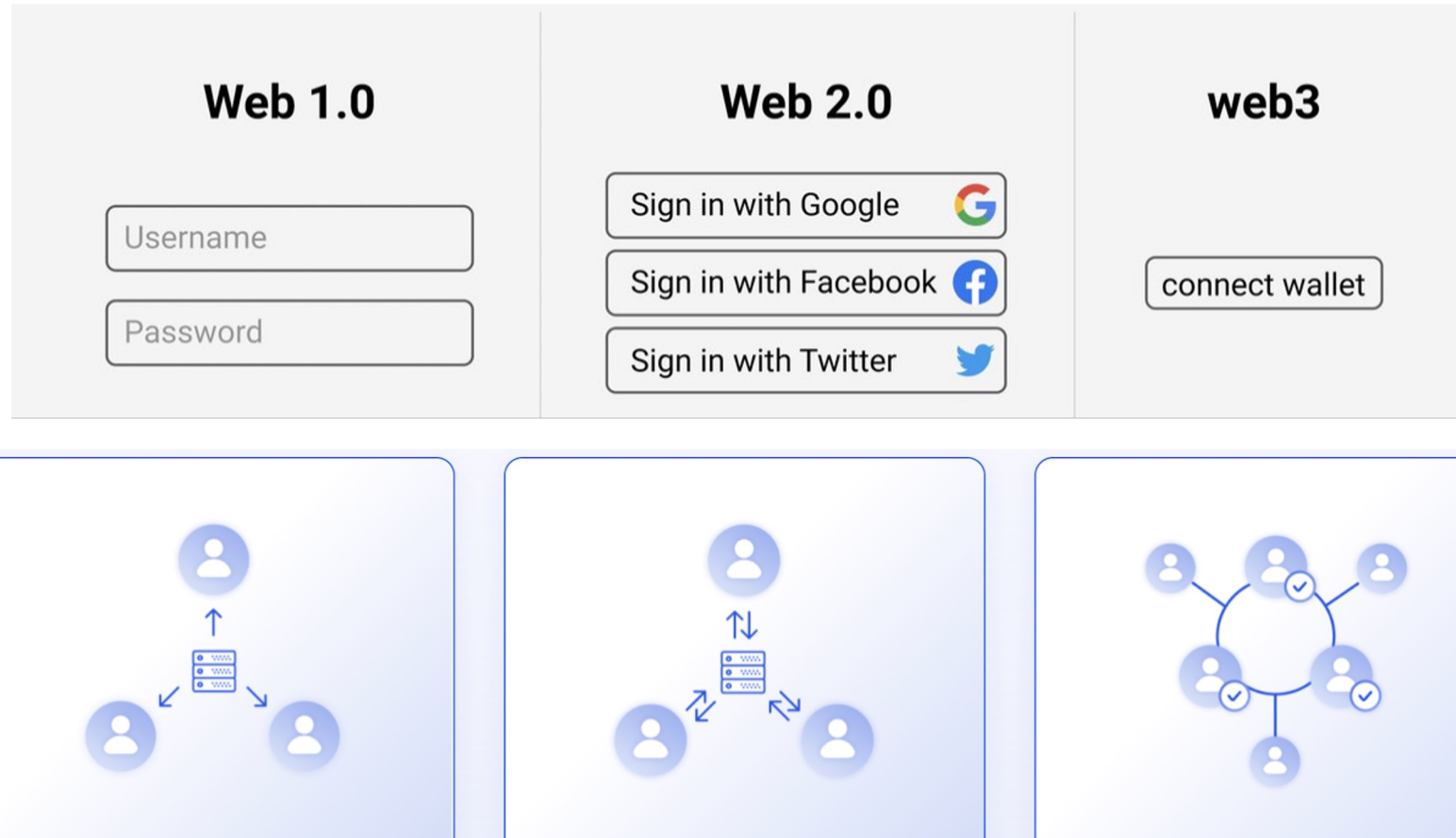
Standards and Specifications: EBSI VC Profile (W3C)

Playbooks and Guidelines

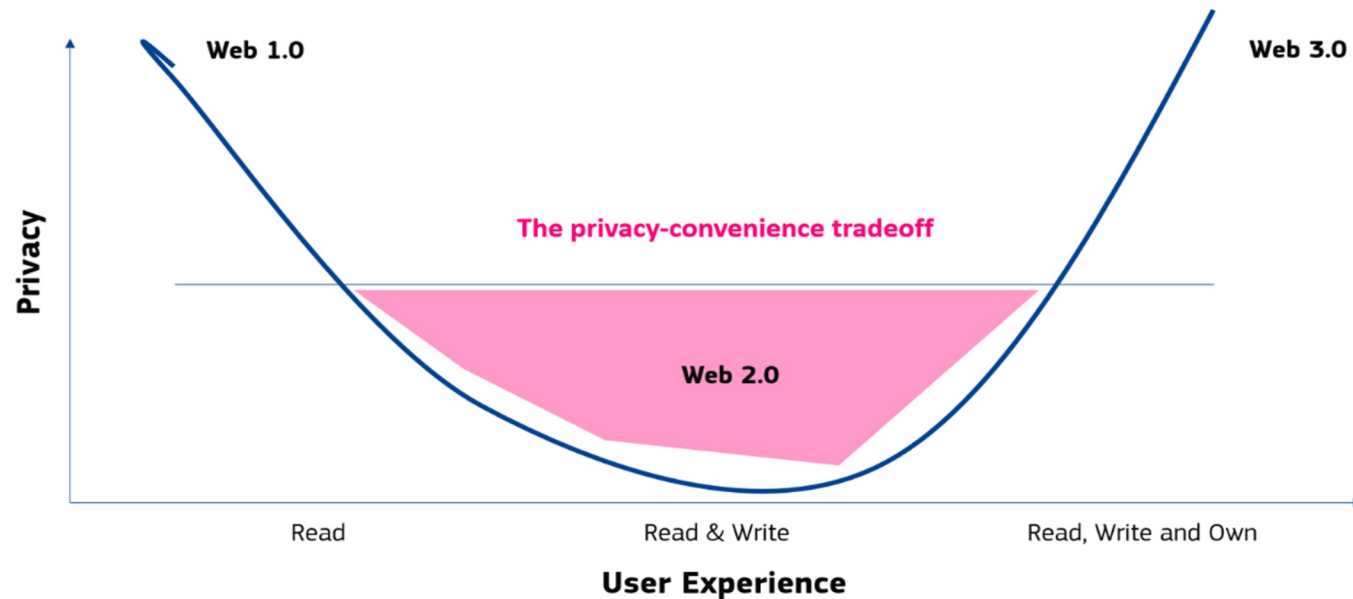
Conformance Testing

New use cases coming

Web1 vs Web2 vs Web3



Web1 vs Web2 vs Web3



Six Environments - Up and Running

DEV, TEST, CONF, PILOT, PREPROD, PROD



Node Operators in Pilot network



Ongoing

Acceptance of legal documents

Accepted

NOT accepted

ENDORSED

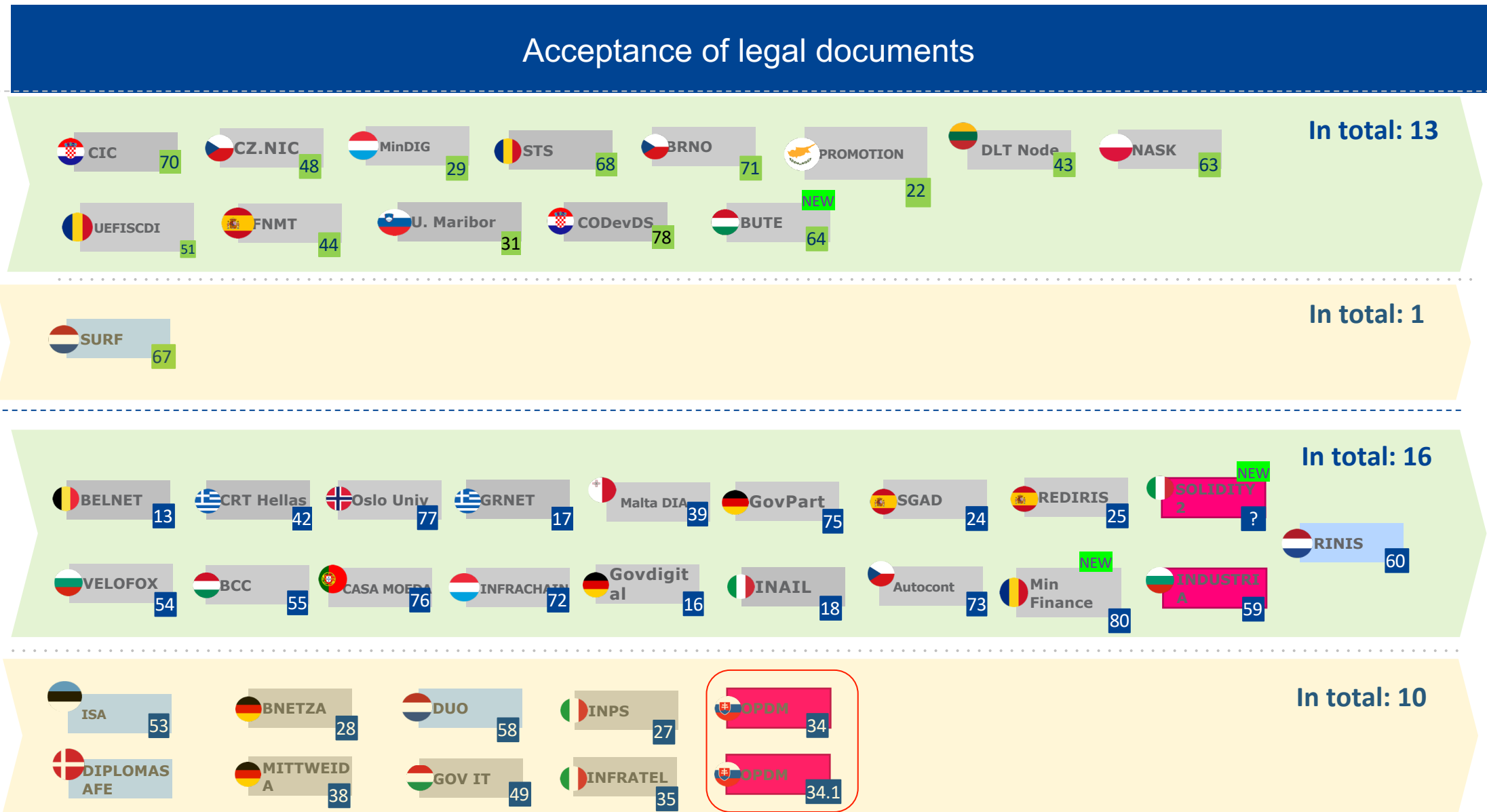
NOT ENDORSED

ON HOLD

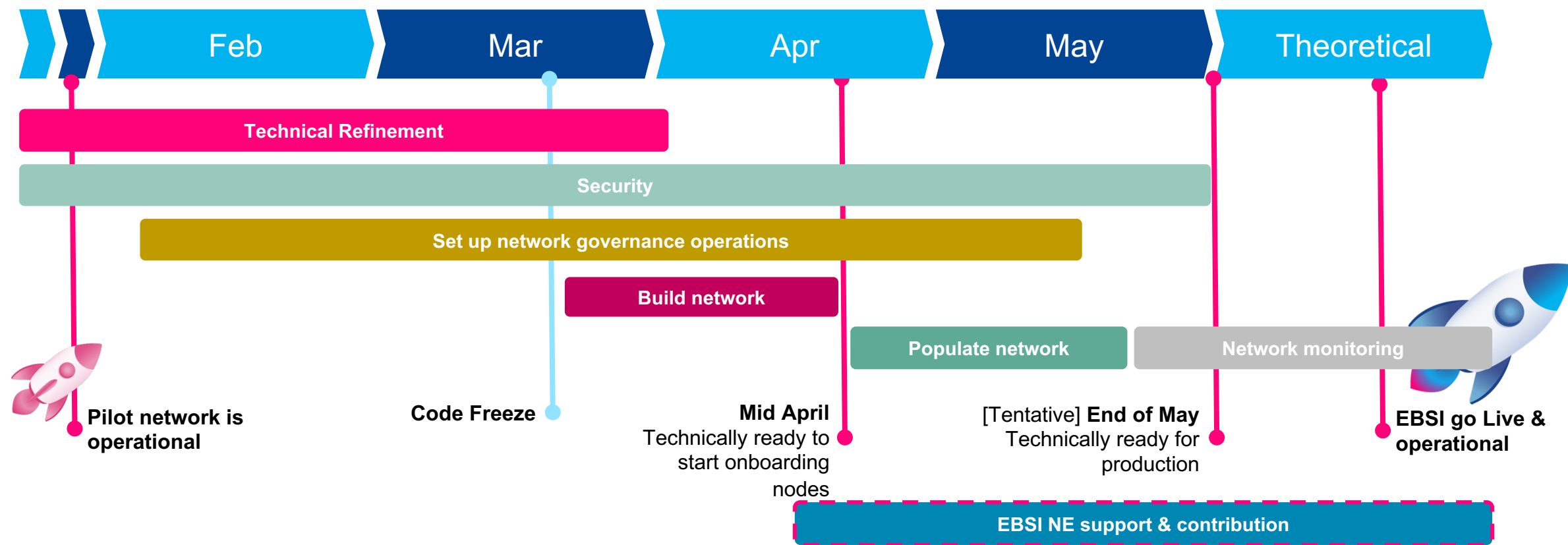
UNRESPONSIVE

Validator nodes

Peer nodes



A network that will be production ready

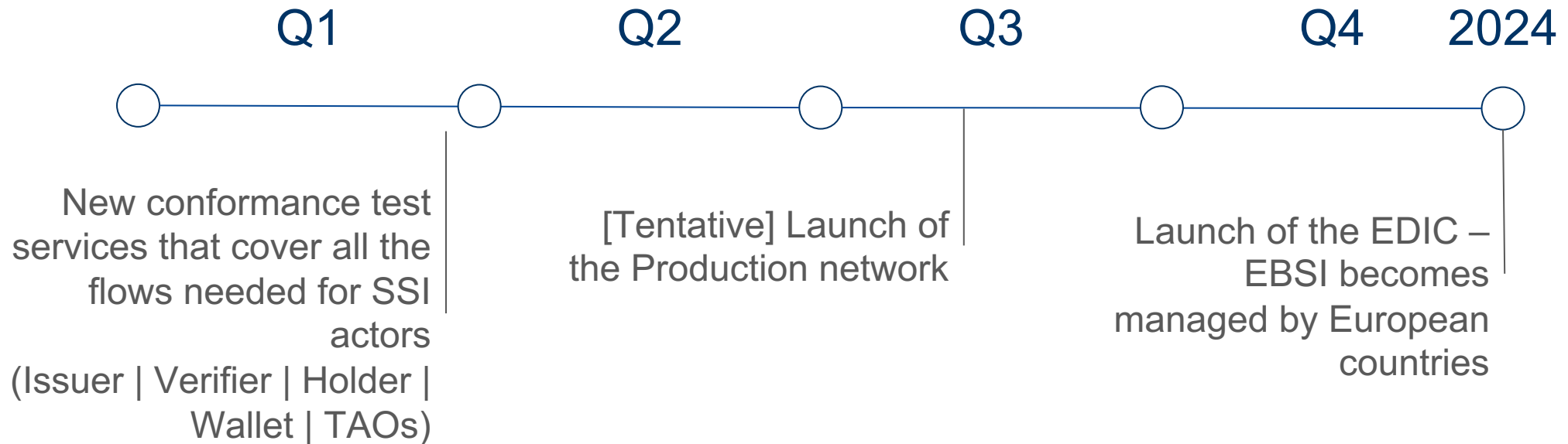


*The related documentation actions are covered in parallel with the tracks



What to expect from EBSI in 2023

This year highlights

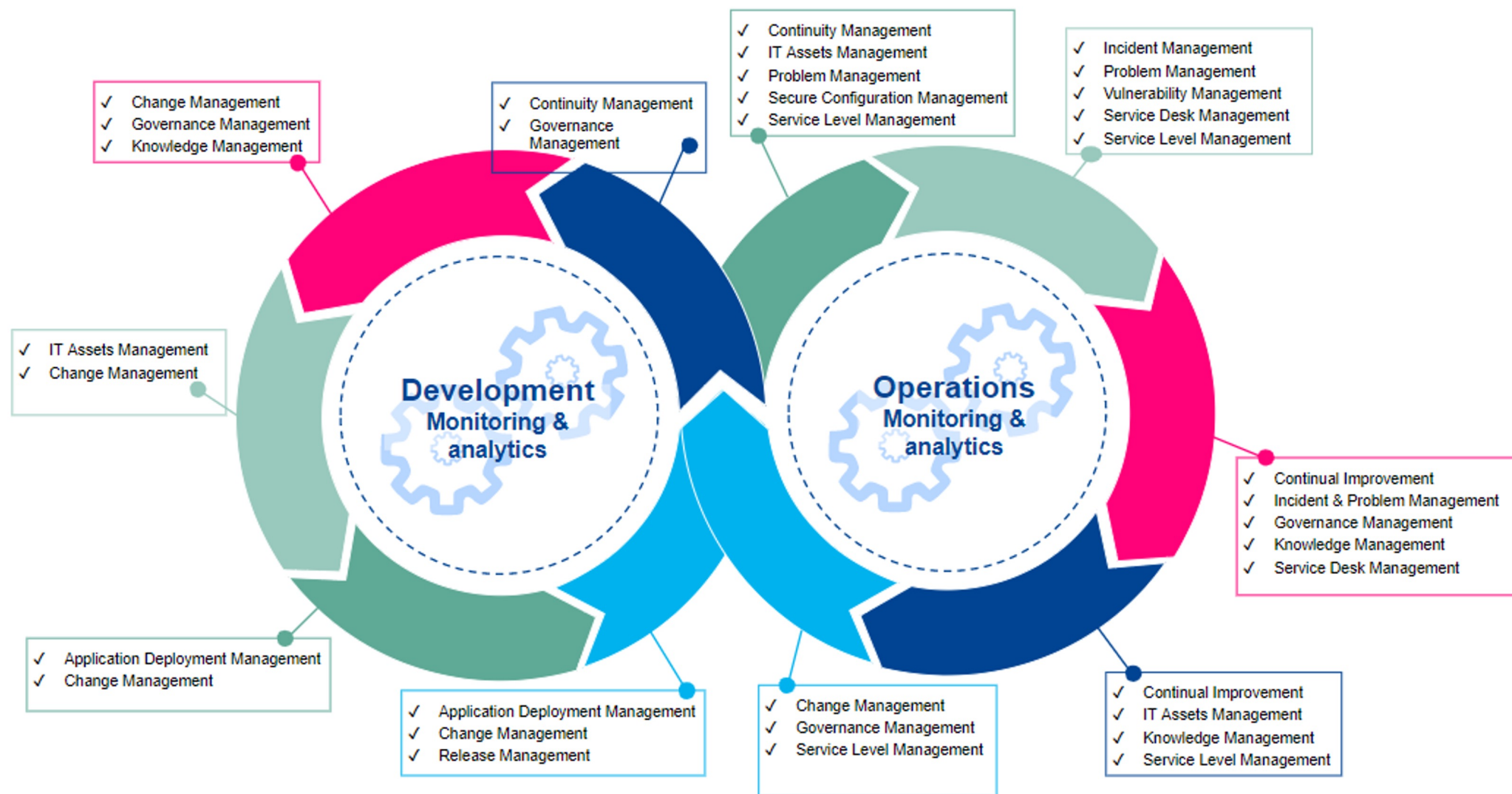


Early Adopters Wave 3: Growing adoption of VCs in the European education sector



Governance plan

ITIL processes toolchain



EBSI Experience Centre

A concept store that demonstrates EBSI capabilities



We've created a video and game experience to showcase cross-border verification challenges

The introduction to the game will be a video shown in a **movie theatre-like room**, featuring a futuristic sphere that showcases difficulties in verifying document authenticity, setting the stage for the experience where visitors will assume the role of a citizen.

The **EBSI branded room** will feature a game inspired by "The Game of Life" and the success stories of the Diploma Use Case, where players follow the path of a European student, employee, or citizen using EBSI, demonstrating how it can save months of administrative burden.



The experience will be open for registration to EUIBA officials, member state representatives, and experts



From March until October 2023, with the inauguration of the spaces on the **16th of March 2023**.

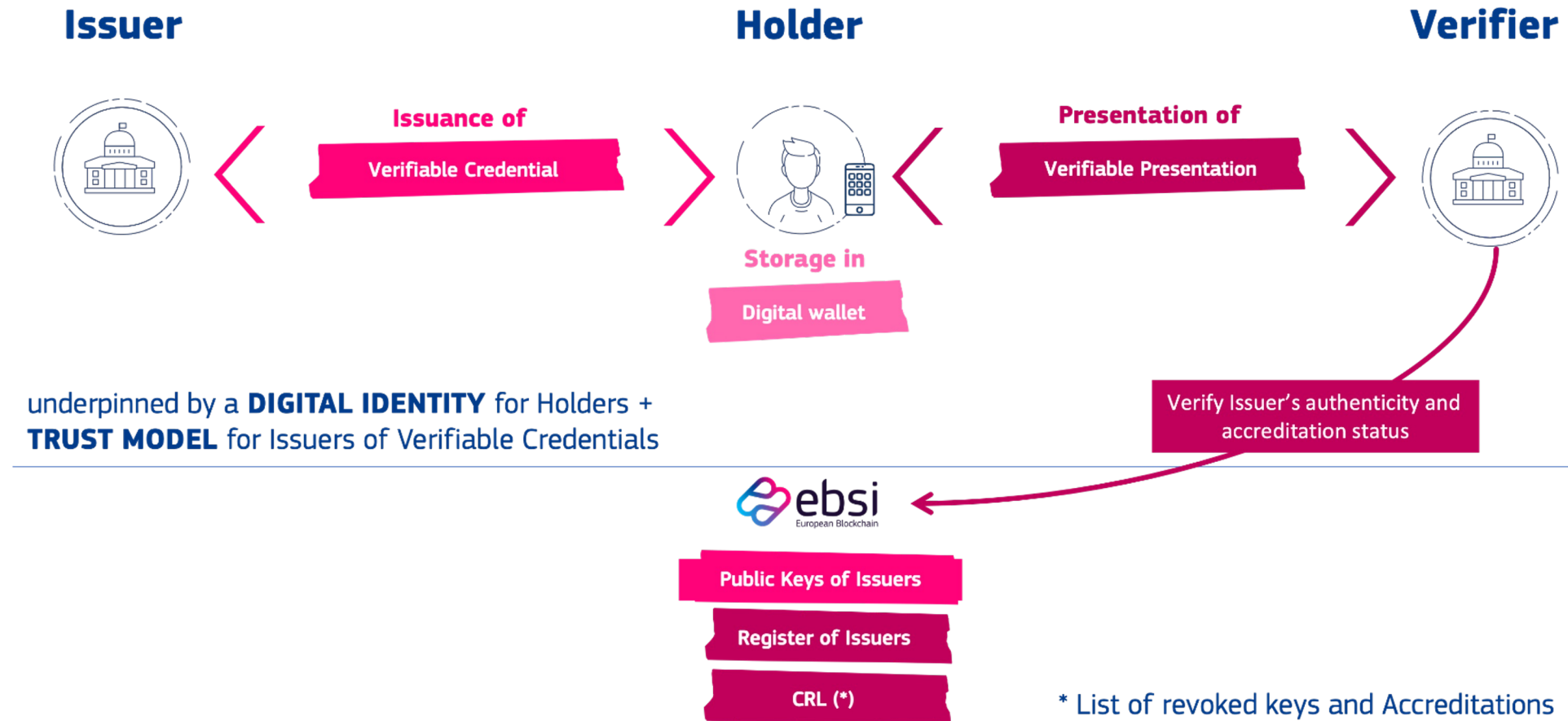


Digit building situated at Belliardstraat 28 / Rue Belliard, 28, 1000 Brussels, in the rooms 01/044 and 01/045

EBSI Verifiable Credentials, the basic information sharing scenario

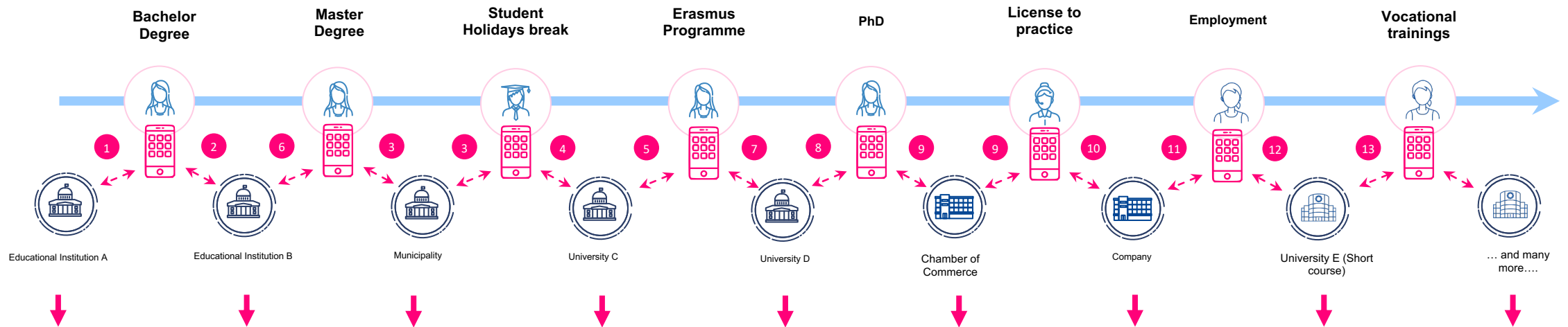
A new pattern for C2B and C2G information exchange

Verifiable Credentials enable a **C2G and C2B Information sharing model**



Imagine now, tomorrow.

The citizen can control her own *life learning* journey with simpler and instantaneous interactions using her wallet. Information becomes easy to verify and almost impossible to fake across the entire “education” ecosystem in Europe



Unique source of trust (over a decentralised platform), common data formats, common protocols, unique user experiences across different domains



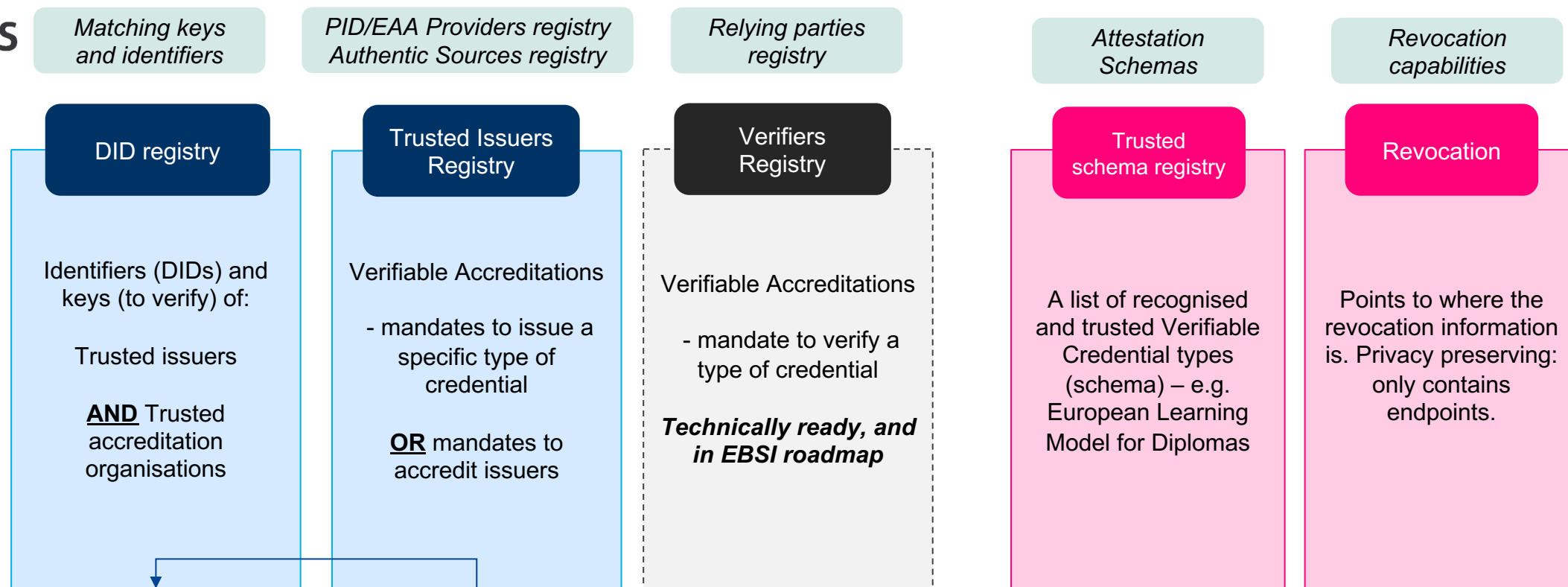
What information do we store on the EBSI ledger?



eIDAS

Information about entities

Information about credentials



We never store personal data or any information about **persons** on the blockchain



DEP Calls

Large Scale Pilots granted

EBSI-NE

Enhance EBSI nodes requirements

EBSI to become a Trust Anchor
(ISO27001, etc.)

TRACE4EU

DEP funded project on umbrella
traceability of data, documents, products
and materials

DC4EU

Educational credentials, professional
qualifications and Social Security

Combining the best of identity and signature
provided by the eID, with the potential and
flexibility of verifiable credentials and the
increased privacy provided by the EBSI ledger

EBSI -VECTOR

Increase/enhance existing EBSI
capabilities

Revocation, Suspension, Mandates,
Consent, ZKP

ONEPASS

Facilitate SME financing

EWC

European Wallets Consortium



The ecosystem support team

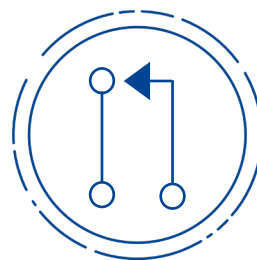
EBSI Improvement Proposal (EBIP) onboarding framework



EBIP template



Draft proposal



Pull request



Adoption



Live collaboration



Issues





Questions?