



EU-JAPAN DIGITAL WEEK 2025



31 MARCH – 7 APRIL, 2025



TOKYO, JAPAN

THE EU-JAPAN DIGITAL WEEK IS ORGANISED AS PART OF THE EU-JAPAN DIGITAL PARTNERSHIP

Contribution of Verifiable Legal identifiers to trusted data exchanges

2 April 2025

Global Legal Entity Identifier Foundation
(GLEIF)
Managing Director

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Agenda

- 1. EU-Japan collaboration- International Mutual Recognition of Trust Service Infrastructure using eSeal**
- 2. LEI and vLEI for the trusted data exchange**



1. EU-Japan collaboration

– International Mutual Recognition of Trust Service Infrastructure using eSeal

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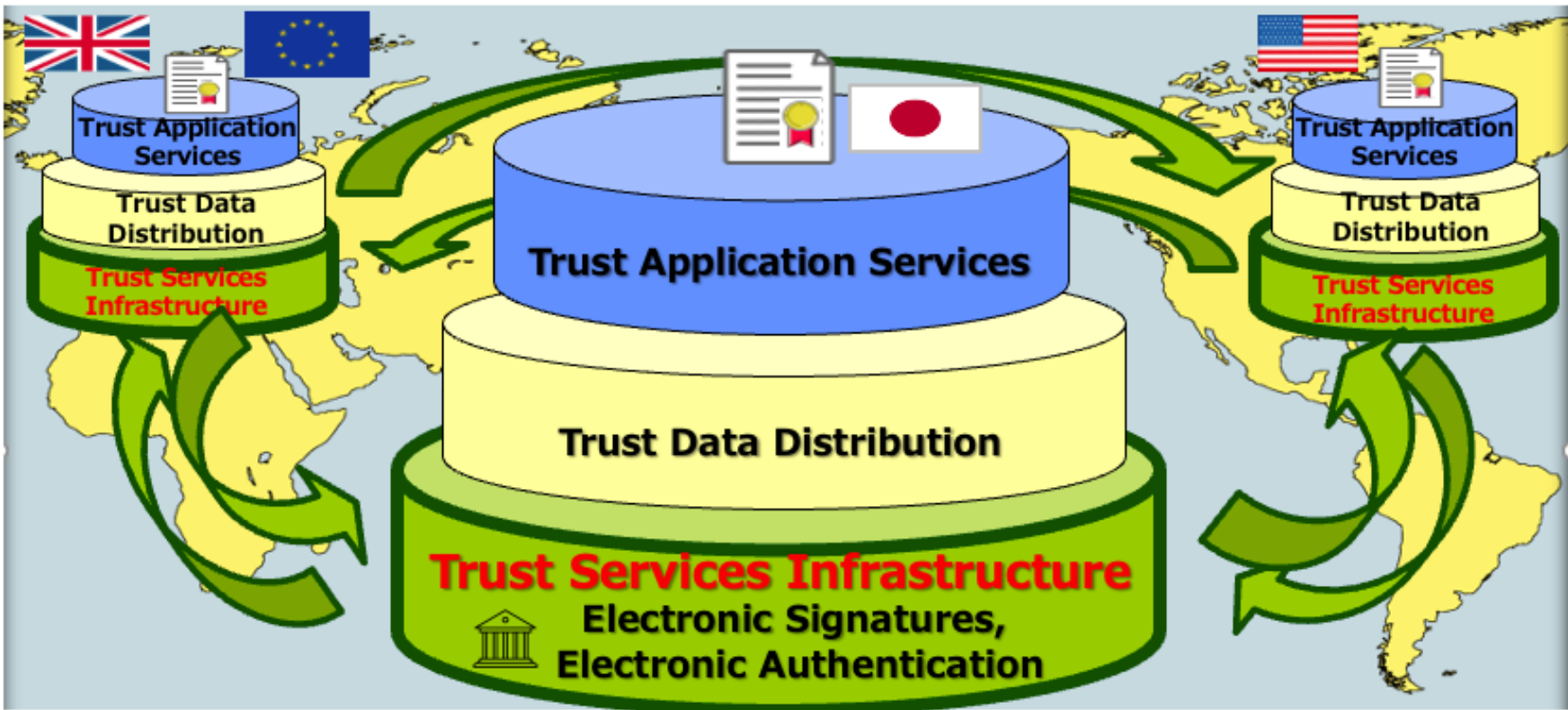
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EU-Japan collaboration

International Mutual Recognition of Trust Service Infrastructure -eSeal (digital seal)

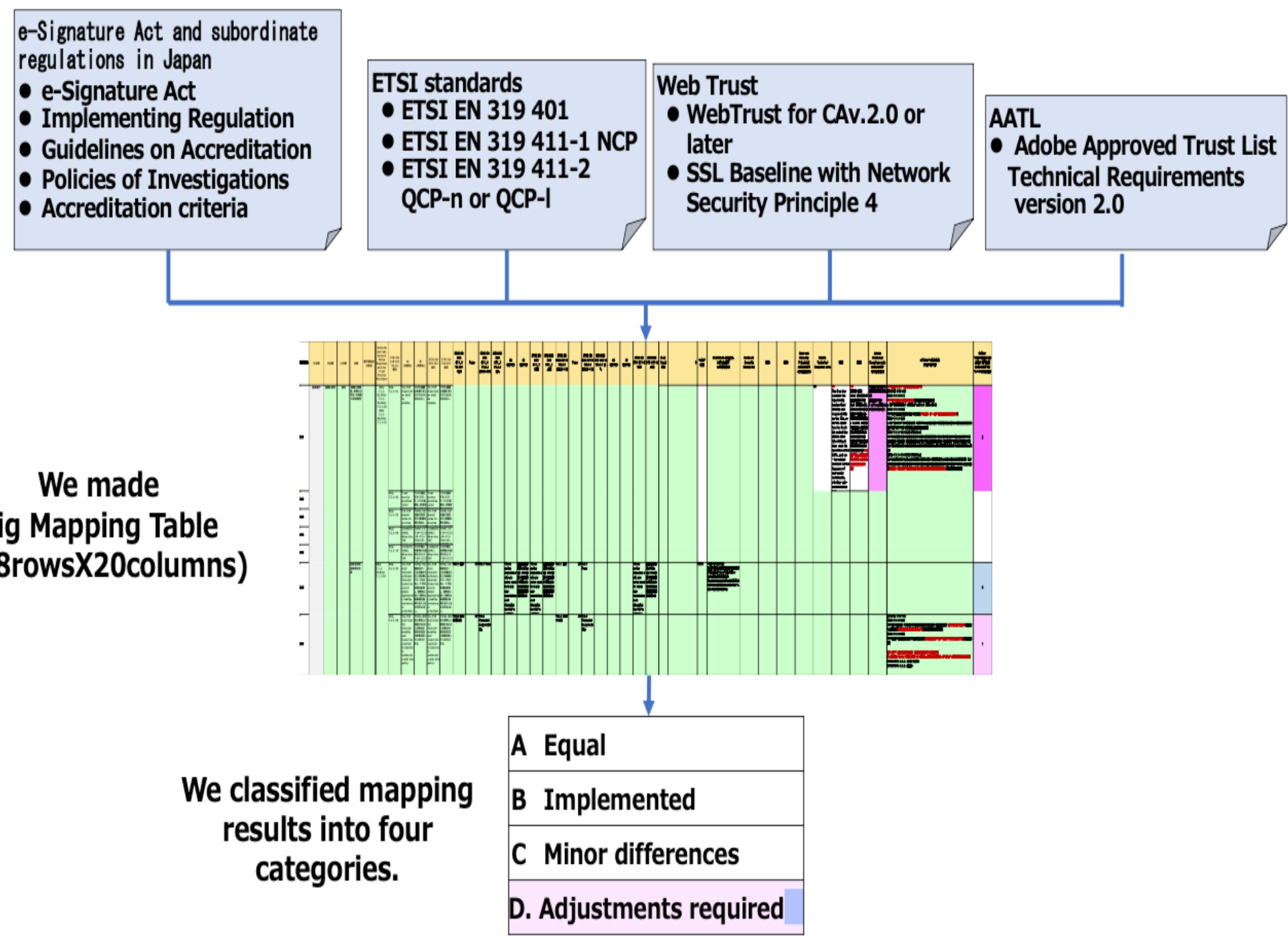
- EU and Japan have been working to establish the International Mutual Recognition of Trust Service Infrastructure using eSeal
- Following 4 pillar model to establish digital trust framework in the 3 layered digital trust architecture
- Conducted POC exchanging carbon neutral and CO2 offset management data



	Item	EU	UK	US	Japan	India
1	Legislation	eIDAS	UK-eIDAS	Executive Order 13526.	Public Certification Service for Individuals law Commercial Registration Law Electronic Signature Act	Information Technology Act
2	Accreditation	Two steps of EU Commission, Member States	National body	Federal government	National body	National Regulator - Controller of Certifying Authorities (CCA)
3	Technology Standard	ISO, ETSI	ISO	ISO, NIST	ISO, JIS	CCA / WebTrust
4	Trust Anchor Chain	LoTL, MS TL	UK TL	FBCA	Government BCA	Root Certificate Authority of India (RCAI)



Item comparison among standards – 40% equal



White Paper

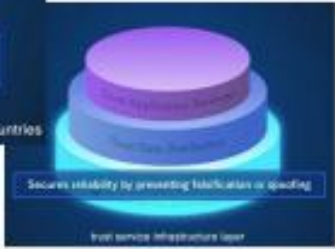
- Comparison report of international mutual recognition for trust services infrastructure

Comparison Report of
International Mutual Recognition for
Trust Services Infrastructure



Multilateral

It is necessary to put the technology/legal system of each country at equal footing which should ultimately be expanded to cooperation among many countries



Secure stability by preventing fabrication or spoofing

Trust service infrastructure layer



Click here for the comparison report
<https://d-trust.sfc.wide.ad.jp/>

Keio University
October 30, 2024

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1. Scope and Objectives

To achieve international safe and secure data distribution in cyberspace, International mutual authentication of trust services is necessary. Electronic authentication is designed to prevent spoofing of senders and receivers. Especially in digital trade, it is intended to prevent the spoofing of person, organization, thing, process and product. Electronic signature is used to prevent data tampering. The bilateral infrastructure with electronic authentication and electronic signature is called a Trust Service Infrastructure.

- Bilateral Electronic Authentication and Electronic Signature arrangements
- Cyberspace consists of Data, Person, Organization, Thing, Process and Product
 - Electronic Signatures prevent tampering of data
 - Electronic Authentication prevent spoofing of Person, Organization, Thing, Process and Product



Diagram 1-1: Bilateral Electronic Authentication and Electronic Signature

The DFFT realization is easier to understand if it is organized in three layers. The upper level is the Trust Application Service layer, which performs data input/output and data usage. The middle layer, the Data Distribution Layer, performs secure data exchange between entities. The lower Trust Service Infrastructure layer provides trust to prevent spoofing and tampering.

It can be regarded as the global interoperability of the Trust Service Infrastructure layer is essential to realize DFFT. Therefore, we should achieve international mutual recognition of Trust Service Infrastructure.

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https://d-trust.sfc.wide.ad.jp/assets/pdf/JP-EIndia_Comparison_Report_International_Mutual_Recognition_r9.pdf

2. LEI and vLEI for the trusted data exchange

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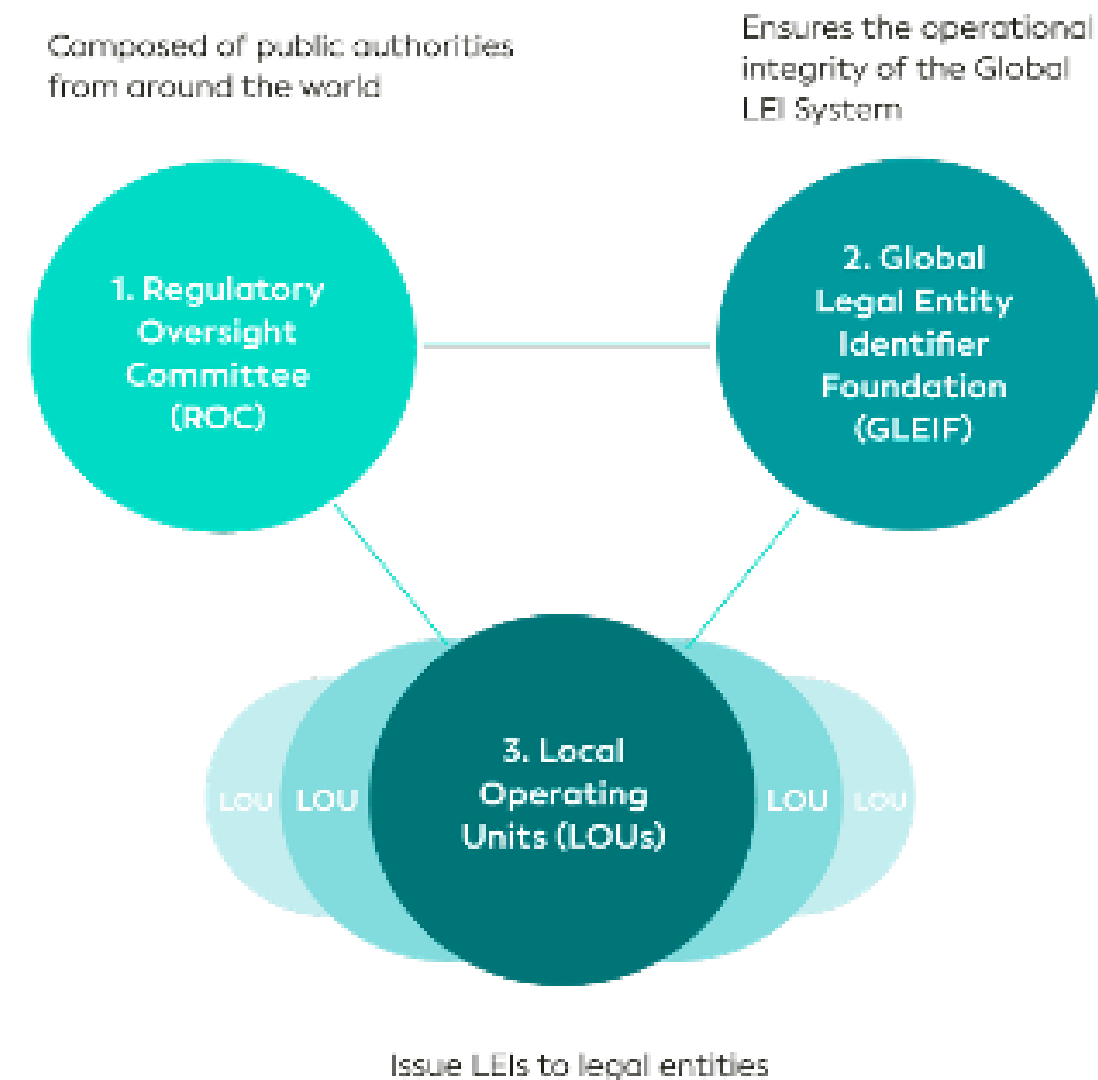
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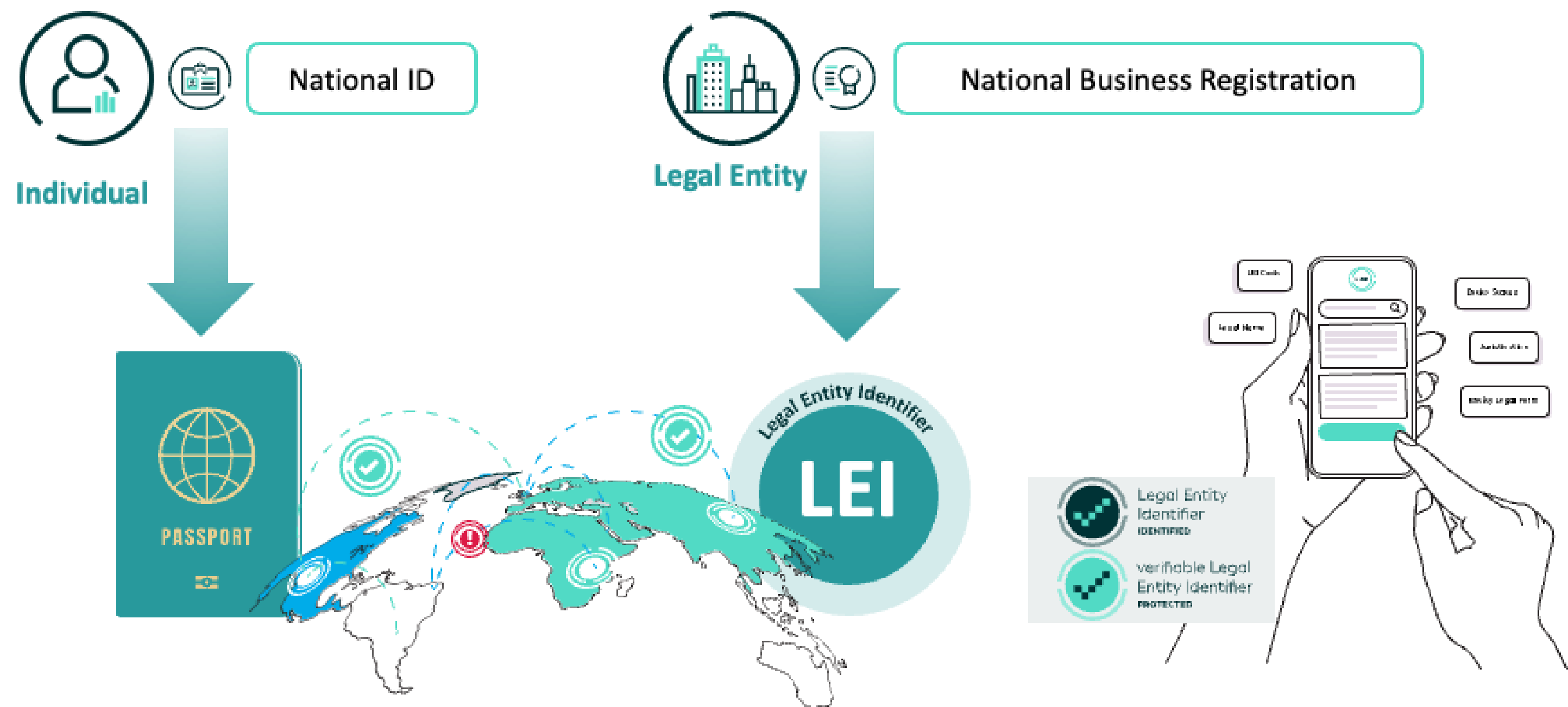
Who is Global Legal Entity Identifier Foundation (GLEIF)

- GLEIF is a not-for-profit Swiss foundation, founded by the Financial Stability Board (FSB).
- GLEIF is overseen by the Regulatory Oversight Committee (LEI ROC) with
 - **71 regulators** and
 - **19 observers**
 - from **50 countries**,
- GLEIF Board has **18 independent directors**
- **38 accredited Partners** for LEI issuing (LOUs) and growing
- **> 2,8 million issued LEIs** to date available as open data without IP or copyright protection.

The Financial Stability Board (FSB) and the Group of Twenty (G20) have endorsed the LEI, Global LEI System and GLEIF.



LEI as the 'Passport Number' for Legal Entities Globally



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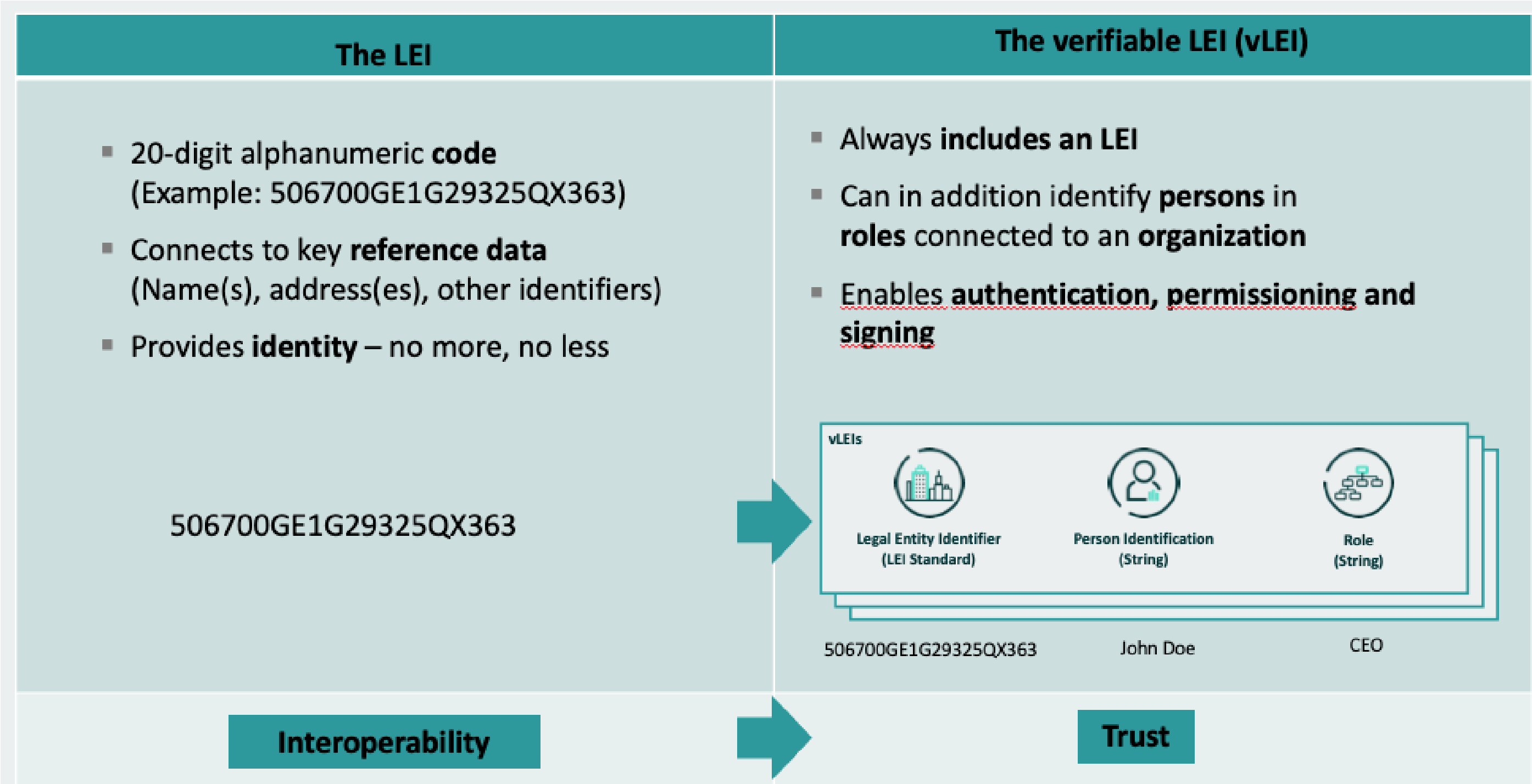
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LEI and vLEI – Globally standardized Legal Entity ID and Verifiable Credentials



Benefit of vLEI – Verifiable Credentials with Trust of GLEIF

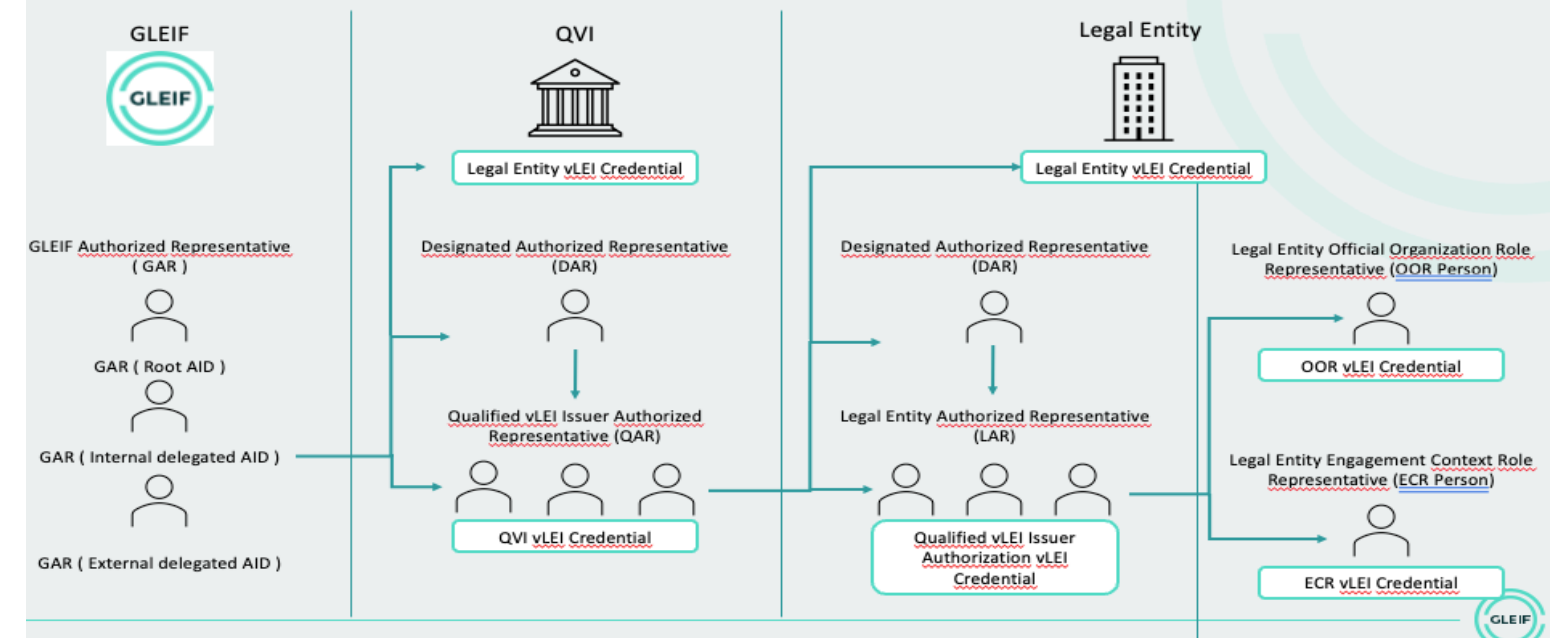
To summarize the capabilities of the vLEI:

1. Solutions for "Authenticating" the Identities of Organizations and People Globally
 - Measures against spam, fraudulent calls, and robocalls in the telecom industry
2. A global solution for organizations and people to digitally "sign" reports, submitted data, and content (in whole and in part)
 - Proof of reporting to the European Banking Authority
3. Solutions for granting "authority" to organizations and people globally
 - Authorization to report to authorities as an organization

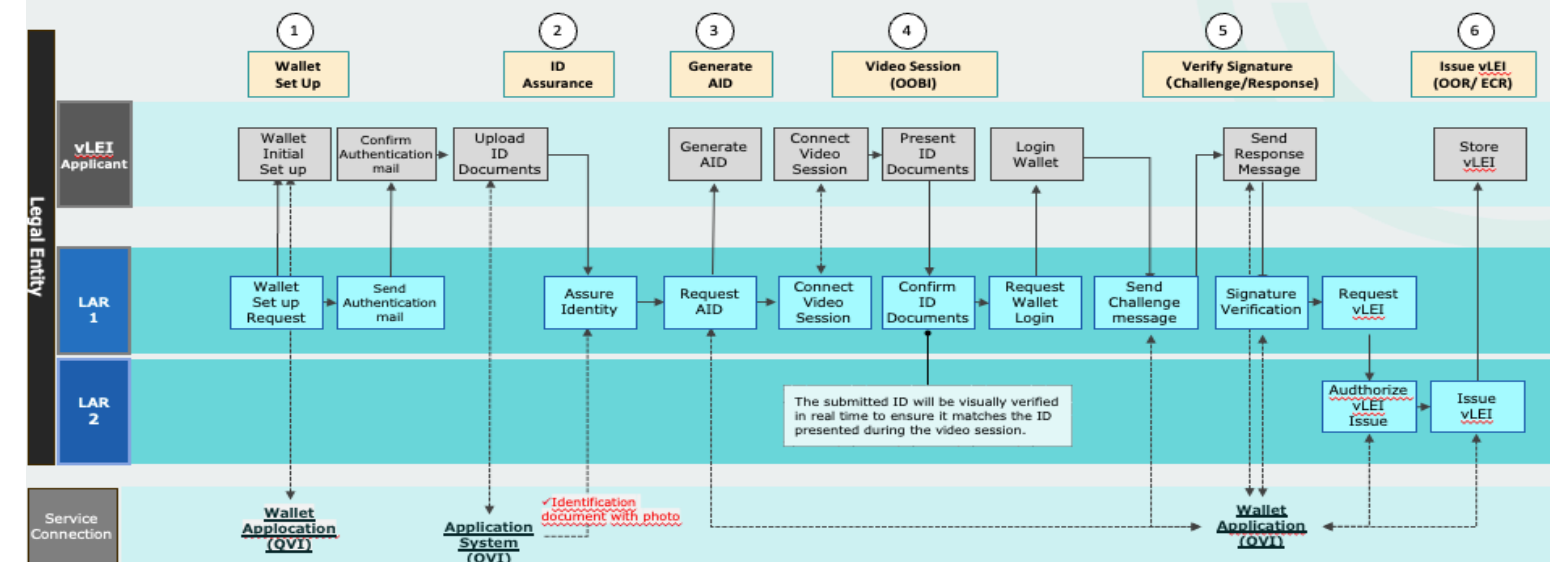
VC that is issued in a globally standardized procedure in a machine-readable form

→ Prevent and automate the risks of identity theft and counterfeiting that come with digitalization

Roll relationship diagram – GAR, DAR, QAR, LAR



OOR/ECR vLEI Issuing flow



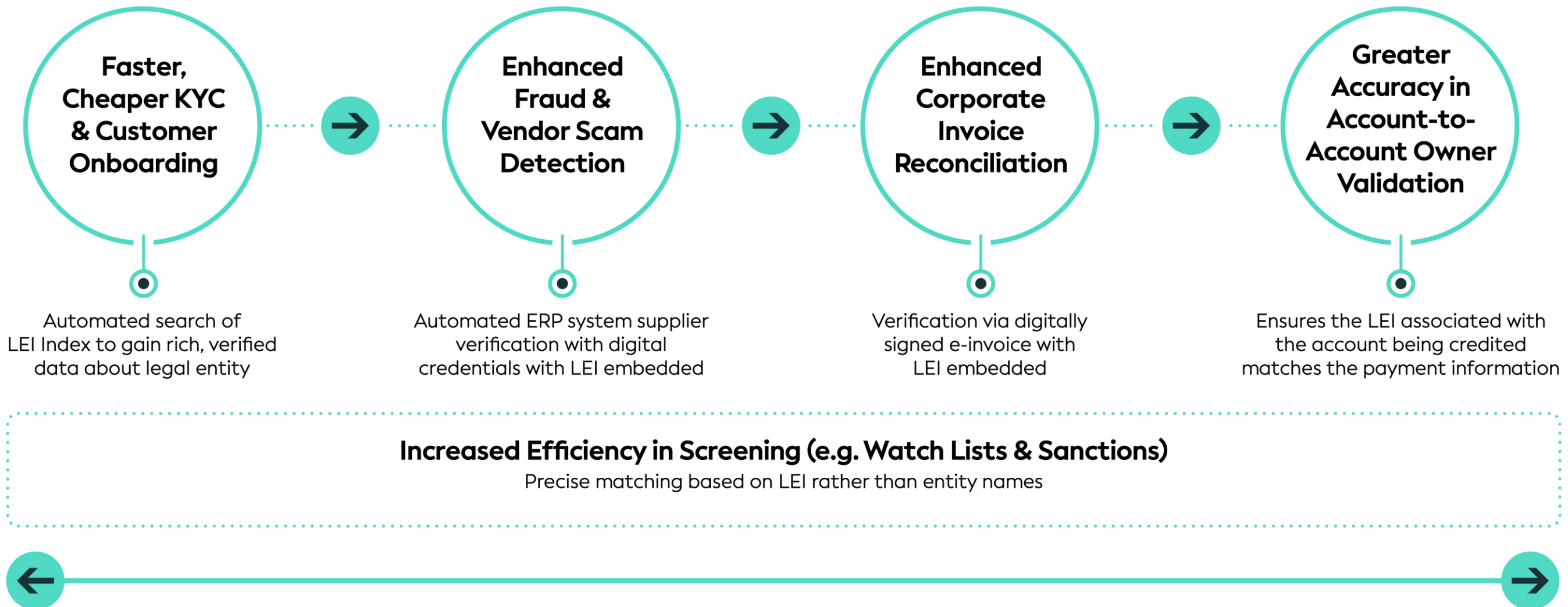
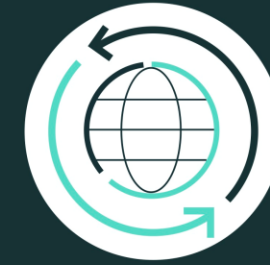
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The Value of the LEI in Cross-Border Payment Flows

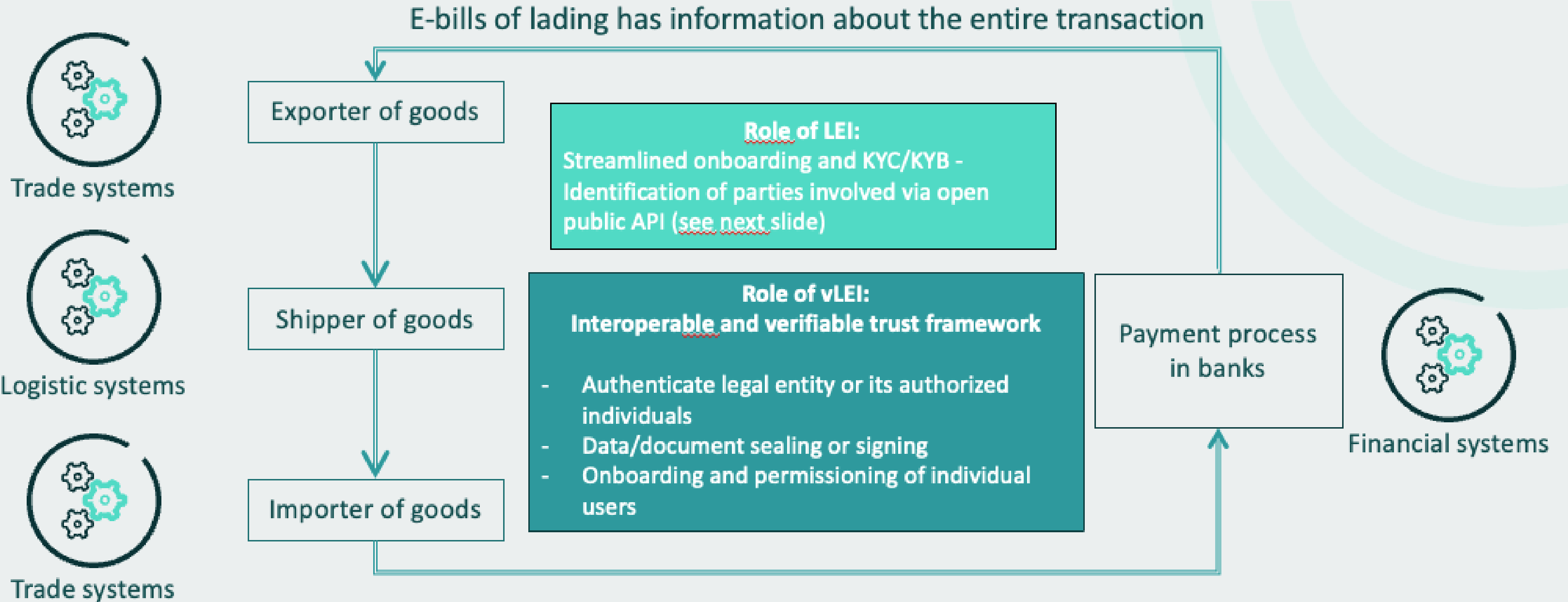


vLEI in Trade

	Cross-border payment	Fraud and risk mitigation	Financial inclusion	Supply chain Efficiency	ESG stewardship
Challenge	- AML Screening - Realtime due diligence - Cost	- Sanctions - Information in silos - Name matching ambiguity	Access to trade and supply chain financing	- Lack of interoperability - Fragmentation - Manual work prone to error	- Regulation compliance - Cost
How can the (v)LEI help?	Minimize false positives	Cross-border Identification of parties across the suply chain directly (e.g. buyer and seller) and indirectly (e.g. customs, insurance)	Validated again local public registers	- Unambiguous identification - Transparency and security - Minimize fraud	- Machine readable, open data, and easily integrated - API to LEI Repository
LEI	Unique, accurate (high data quality), scalable, consistent (parent relationship data), users can challenge it.				
vLEI	Digital and cryptographic advancement of the traditional Legal Entity Identifier (LEI). vLEI enables decentralized and automated validation of an organization's identity.				

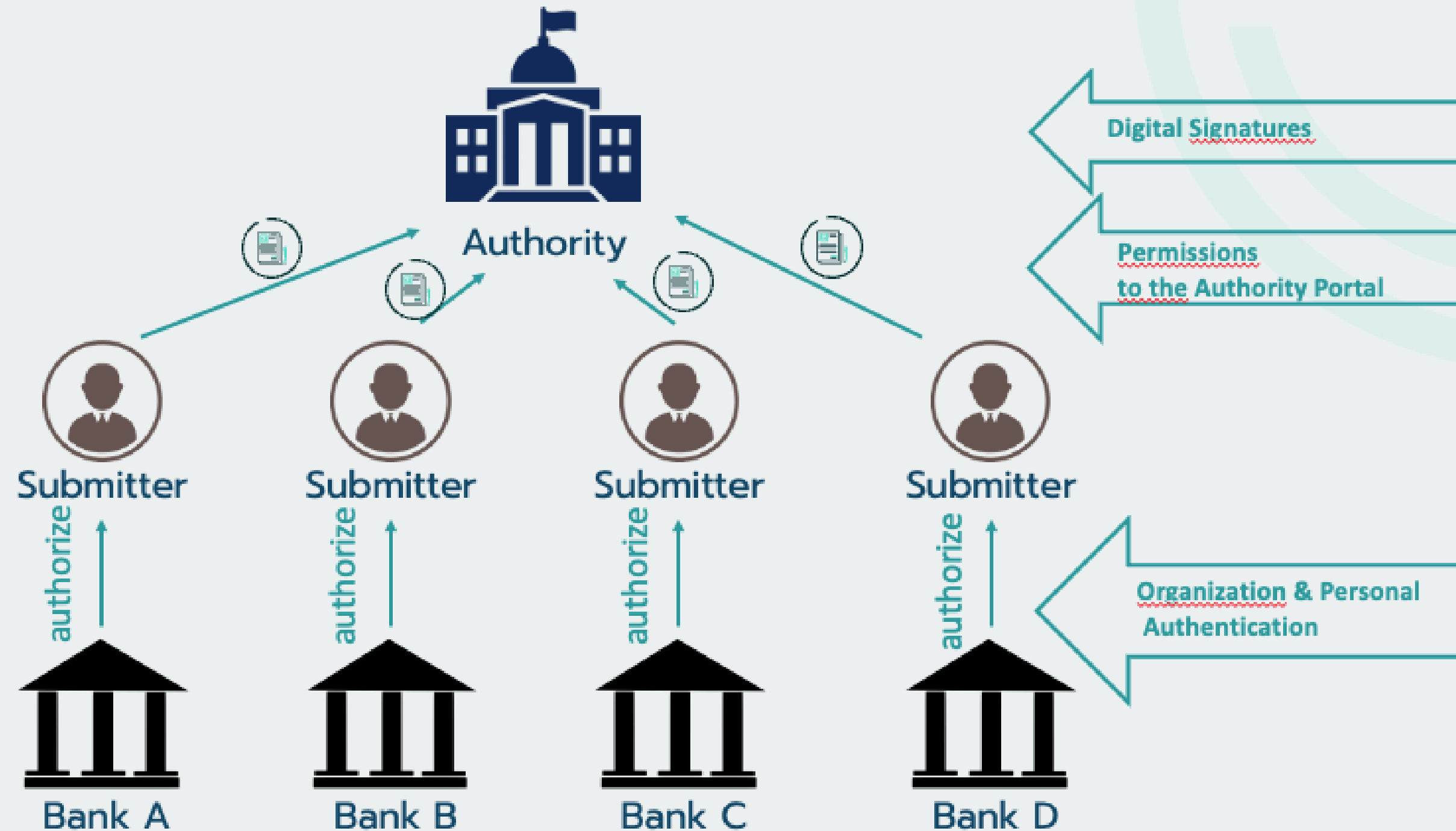


Example: E-bills of Lading



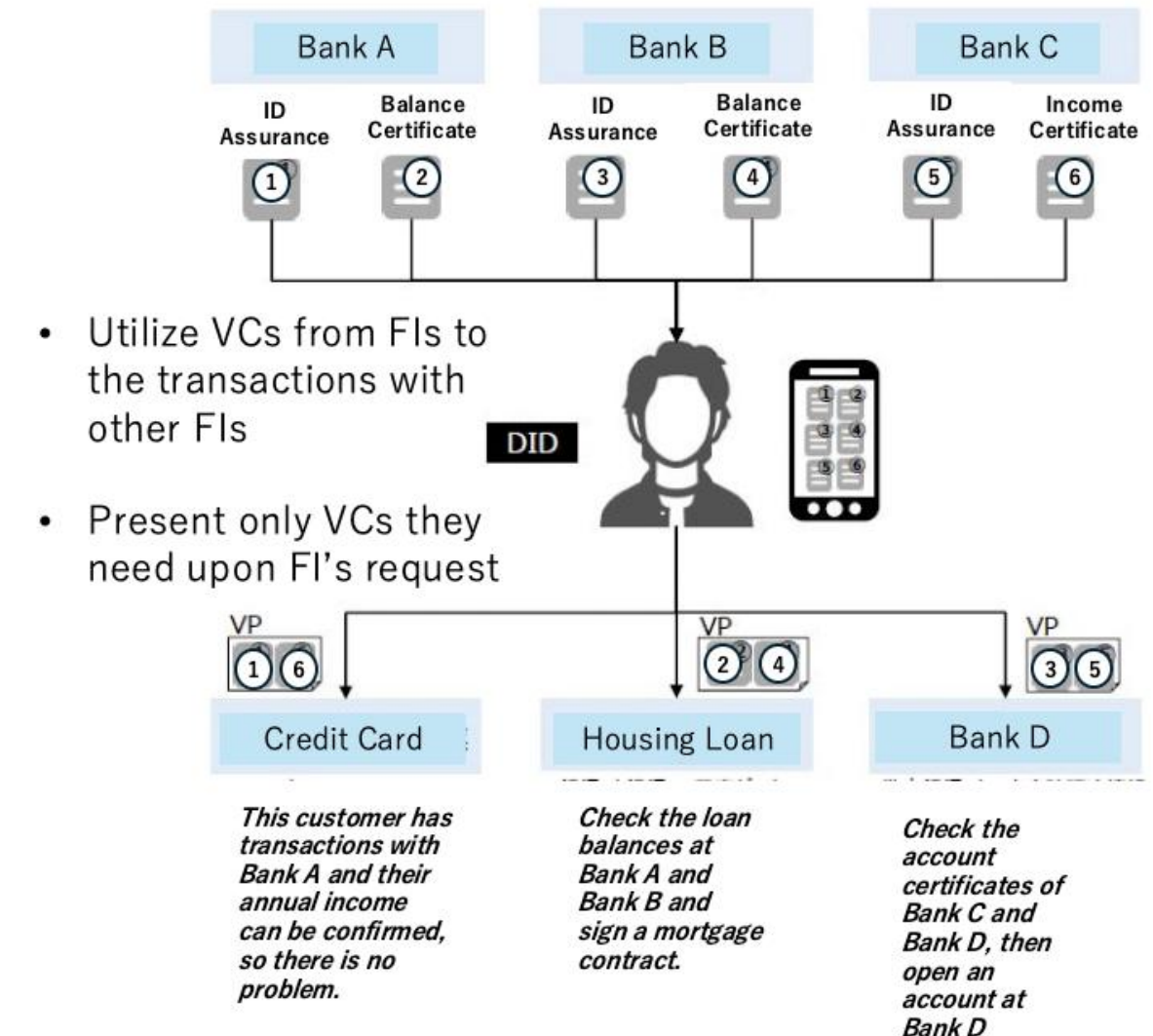
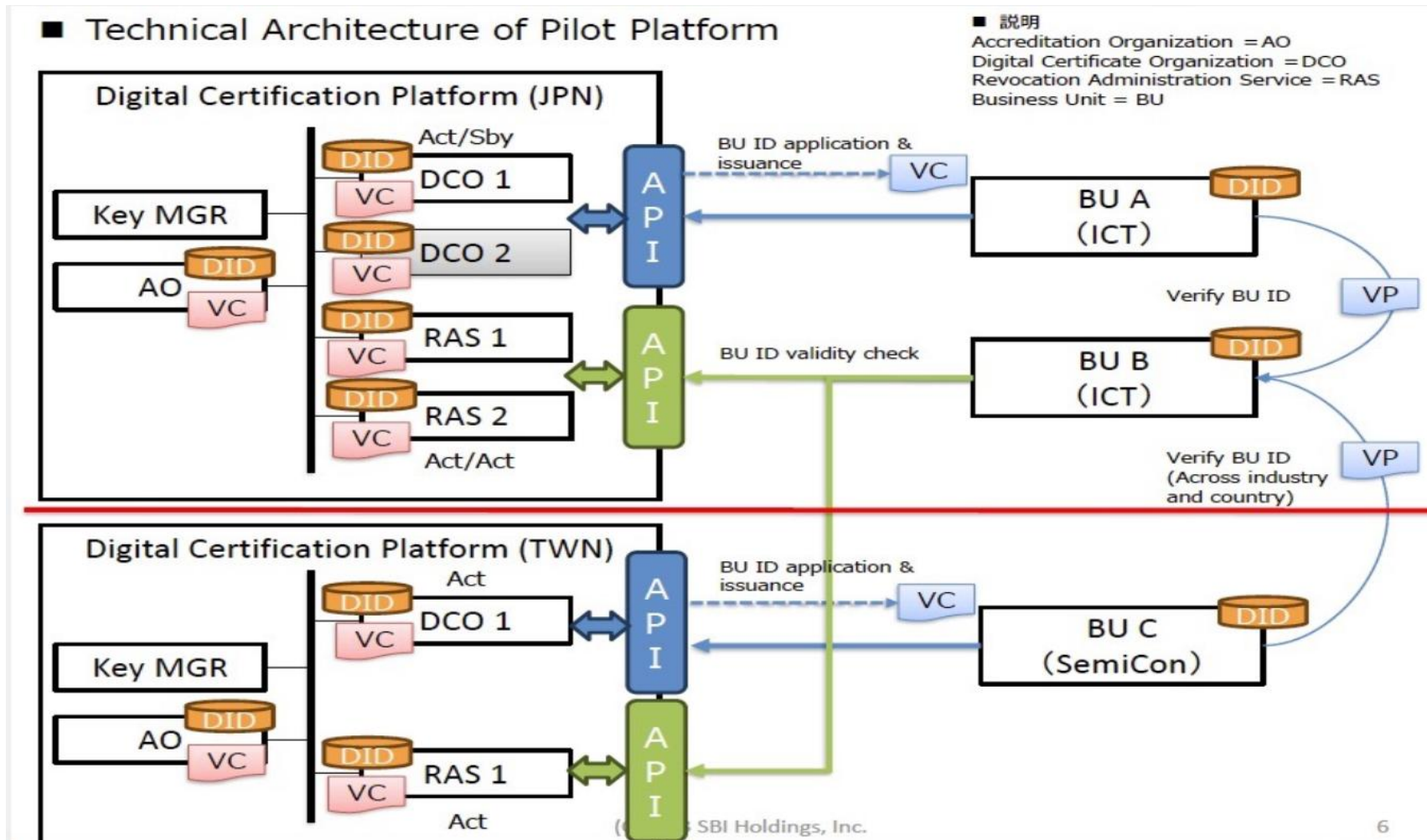
Example of the European Banking Authority POC

User Authentication, Access Grants, and Digital Signatures



vLEI business use case in the Japanese Market

- Supply chain management, KYC in the Financial transactions



THANK YOU FOR YOUR ATTENTION!



The EU-Japan Digital Week is an initiative under the EU-Japan Digital Partnership and is supported by the following projects and organisations

