



*Enabling global identity  
Protecting digital trust*



## Organizational Identity

*Securely identify and verify organizations, people and roles with the LEI and vLEI*

Presentation at Digital Reporting in Europe  
June 4, 2025

# Agenda

1. Overview of the Global LEI System
2. Enabling secure, verifiable Organizational Identity
3. Organizational Identity in examples

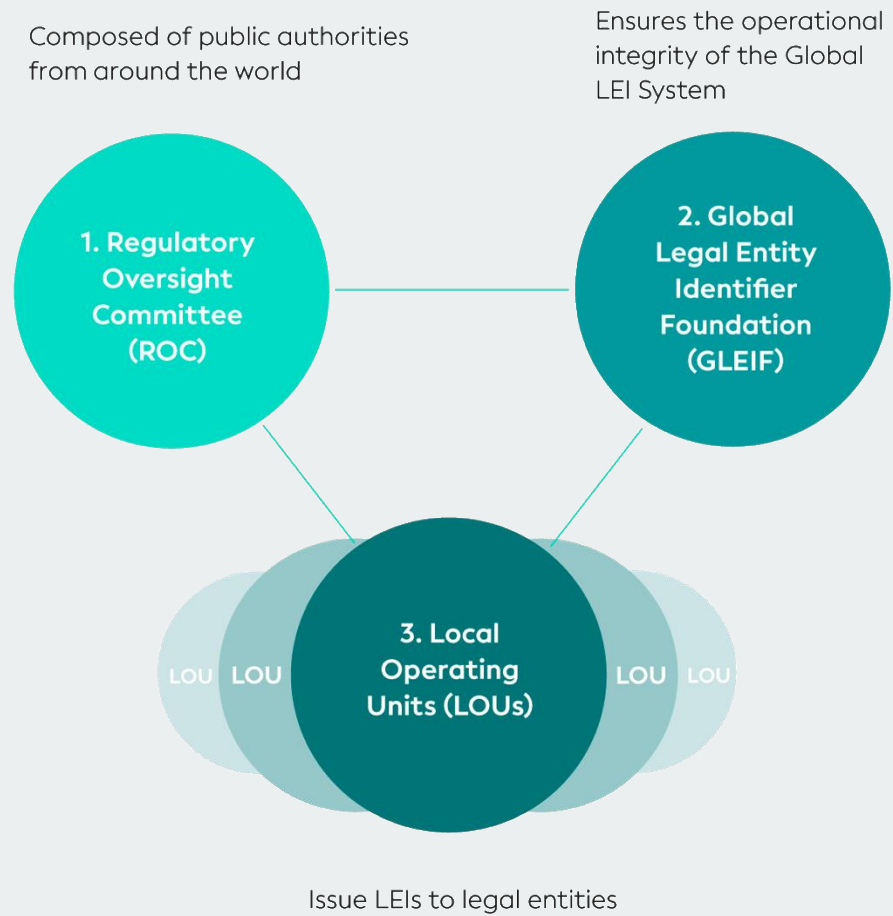




## Overview of the Global LEI System

# The Global LEI System

In 2011, the G-20 leaders supported **"the creation of a global legal entity identifier (LEI) which uniquely identifies parties to financial transactions."**

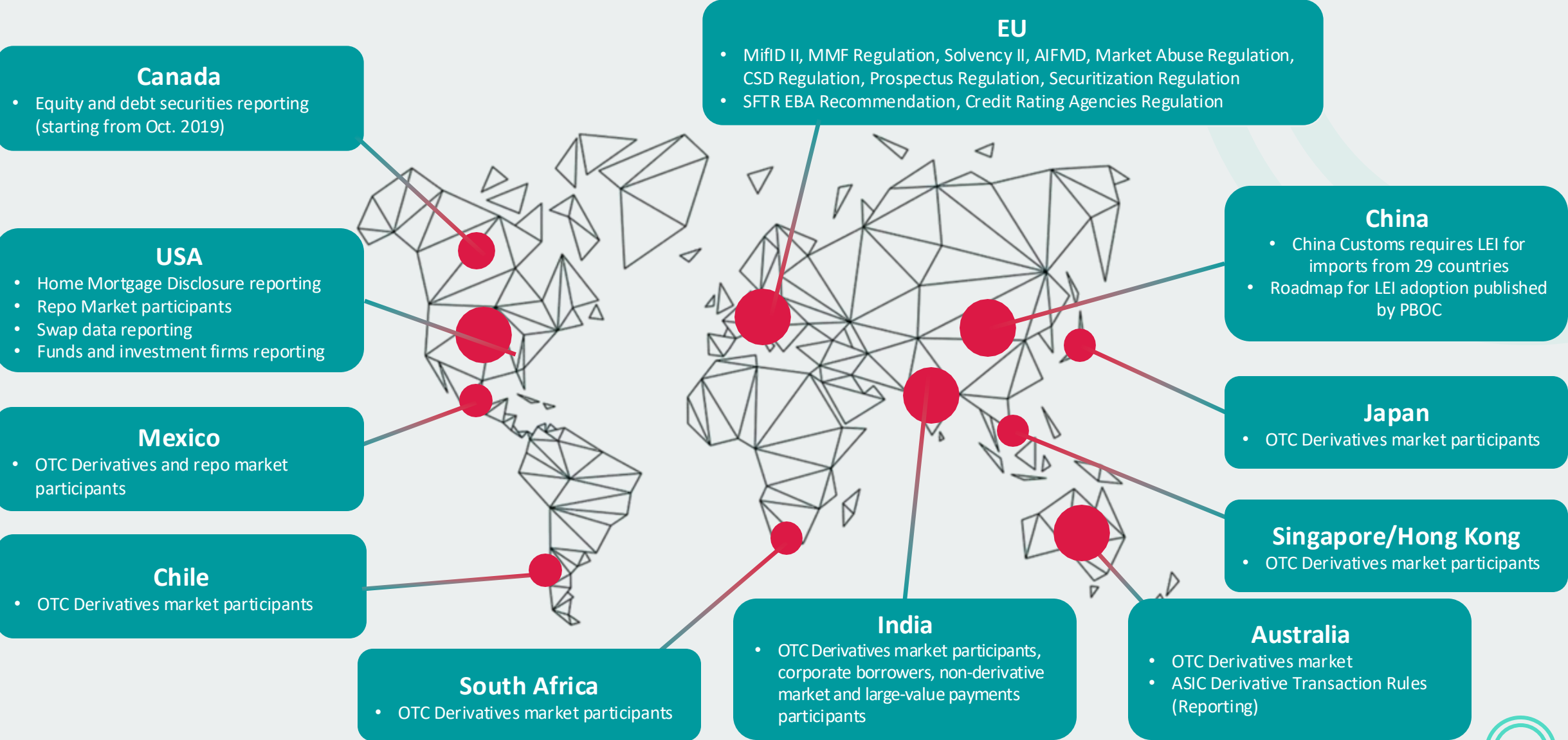


# Who is Global Legal Entity Identifier Foundation (GLEIF)

- GLEIF is a not-for-profit Swiss foundation, founded by the Financial Stability Board (FSB).
- GLEIF is overseen by the Regulatory Oversight Committee (ROC) with
  - **71 regulators** and
  - **19 observers**
  - from **50 countries**
- GLEIF Board has **15 independent directors**.
- **38 Partners** for LEI issuing (**LOUs**) and growing
- **> 2,900,000 issued LEIs** to date



# Global Regulatory Framework for the LEI







## Enabling secure, verifiable Organizational Identity

# Identifying organizations with the LEI

- The LEI is a life-long identifier **owned** by the respective legal entity.
- It points to the associated reference data.
- The LEI is an ISO standard ISO 17442 – Part 1.

Level 2 Data: Who Owns Whom

Parents

NATURAL\_PERSONS (Direct Parent Exce)

Direct children (69)

Nestlé S.A.

Maggi-Unternehmungen AG (Direct)

Nestle Marcas S.A.C (Direct)

네슬레코리아 유한책임회사 (Direct)

Nestle Waters Brasil - Bebidas E Alimentos Ltda. (Direct)

Nestle Brasil Ltda. (Direct)

Nestle de Colombia S.A. (Direct)

Nestle Türkiye Gıda Sanayi Anonim Şirketi (Direct)

Nestle Middle East FZE (Direct)

Nestle Dubai Manufacturing L.L.C. (Direct)

Nestle Middle East Manufacturing LLC (Direct)

Nestle Lanka PLC (Direct)

Nestlé S.A.

LEI Code KY37LUS27QX7BB93L28

Hide

(Primary) Legal Name	Nestlé S.A.
Transliterated Names	Nestle S.A.
Registered At	Commercial Register (Ministry of Justice) Handelsregister (Eidg. Amt für das Handels Switzerland, Switzerland RA000549
Registered As	CHE-105.909.036
Jurisdiction Of Formation	CH
Entity Legal Form	Aktiengesellschaft MVII
Entity Status	ACTIVE
BIC Code	NESNCH22XXX

Sections

Empty fields

Entity details

Addresses

LEI Registration details

LOU details

Level 2 Data: Who Owns Whom

Ultimate children (110)

Maggi-Unternehmungen AG (Ultimate)

Nestle Marcas S.A.C (Ultimate)

Galderma Nordic AB (Ultimate)

네슬레코리아 유한책임회사 (Ultimate)

CPW Brasil Ltda. (Ultimate)

Chocolates Garoto SA (Ultimate)

Nestle Waters Brasil - Bebidas E Alimentos Ltda. (Ultimate)

Nestle Nordeste Alimentos E Bebidas Ltda. (Ultimate)

Nestle Brasil Ltda. (Ultimate)

Nestle de Colombia S.A. (Ultimate)

Nestle Middle East FZE (Ultimate)

Nestle Dubai Manufacturing L.L.C. (Ultimate)

Nestle Middle East Manufacturing LLC (Ultimate)

Nestle Lanka PLC (Ultimate)

Fondation Nestlé pour l'étude des problèmes de l'alimentation dans le monde (Ultimate)

Nestle (Thailand) Limited (Ultimate)

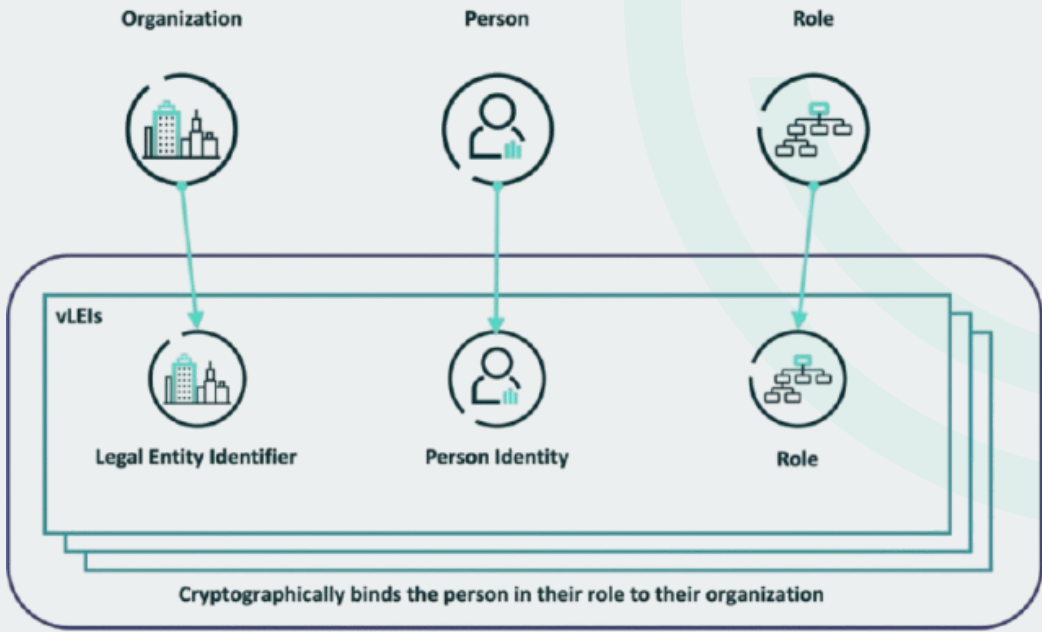




# A step further: the verifiable Legal Entity Identifier (vLEI)

With the LEI as a basis, GLEIF has developed Organizational Credentials, verifiable LEIs, or vLEIs, that are able to verify the identity of an organization as well as the people that represent the organization, both inside and outside the boundaries of that organization.

The vLEI is a digitally verifiable LEI that enables instant, secure, and automated identity verification for legal entities and their representatives.



## Digital signing

Digital sealing or signing (of documents, contracts, reports, invoices, data) by a legal entity or authorized representative



## Authentication

Verification of the cryptographic validity of the vLEI credential and signature



## Permissioning

Confirmation that a legal entity, or representative of this legal entity is authorized to access a system or to perform an action

# Coopetitive Analysis vLEI

Digital Tools Features Matrix: **Signing**



Features	vLEIs as Authentic Chained Data Containers	First generation Verifiable Credentials	eSeals	Digital Certificates
Digital Signatures	✓	✓	✓	✓
Persistent Digital Signatures	✓	✓ <small>only those VCs on a blockchain</small>	✗	✗
Single Level Issuance	✓	✓	✓	✓
Delegable Authority/Multi-level Issuance	✓	✗	✗	✗
Non-repudiability	✓	✓	✓	✗
Signing logging	✓	✗	✗	✗
Signing in Full and in Part	✓	✗	✗	✗
Horizontally-scalable Signing Infrastructure	✓	✗	✗	✗

Digital Tools Features Matrix: **Verification**



Features	vLEIs as Authentic Chained Data Containers	First generation Verifiable Credentials	eSeals	Digital Certificates
Verifiable Provenance to a Global Root of Trust	✓	✗	✗	✗
Instant Revocation State Verification	✓	✓	✗	✗
Decentralized Revocation	✓	✓	✗	✗
Privacy-respecting Revocation	✓	✓	✗	✗
Revocation by Any Party within the Chain of Authority	✓	✗	✗	✗

Digital Tools Features Matrix: **Security**



Features	vLEIs as Authentic Chained Data Containers	First generation Verifiable Credentials	eSeals	Digital Certificates
Multi-signatures	✓	✗	✗	✗
Secure Custodial Key Management	✓	✗	✗	✗
Key Rotation	✓	✗	✗	✗
No Reliance on Web Security	✓	✗	✗	✗
Post-quantum proof	✓	✗	✗	✗
Zero Trust Architecture	✓	✗	✗	✗

Digital Tools Features Matrix: **Global Applicability**



Features	vLEIs as Authentic Chained Data Containers	First generation Verifiable Credentials	eSeals	Digital Certificates
Decentralized Authority	✓	✓	✗	✗
Globally Trusted Credentials	✓	✗	✗	✗
Global Root of Trust	✓	✗	✗	✗
Global Governance	✓	✗	✗	✗
International Standardization	✓	✓	✓	✓
Multiple Roots of Trust in a Single Ecosystem	✓	✗	✗	✗



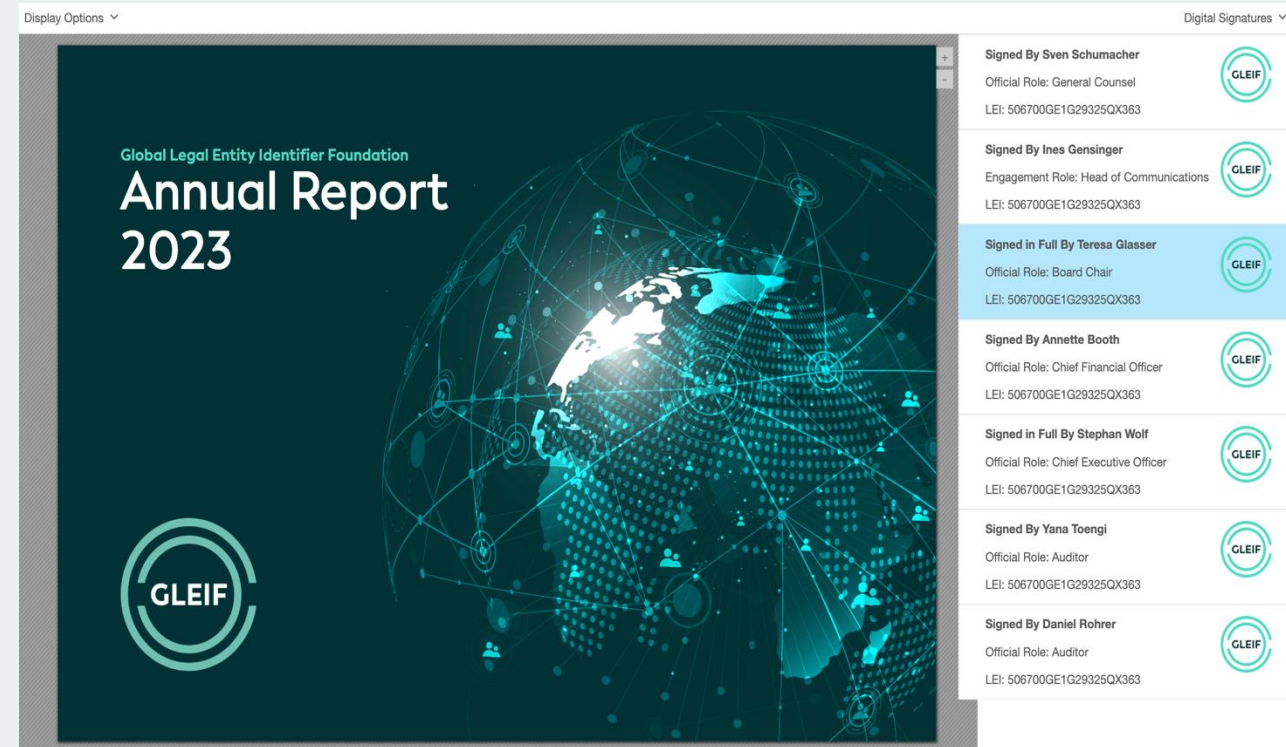


## Organizational Identity in examples

# Using vLEIs: signing content with vLEIs

## GLEIF Annual Report signed using vLEIs

- **vLEI Credentials issued**
  - vLEI Credentials are issued to certain officers and employees/managers of the organization.
- **Submission signed**
  - Specific sections/parts of a report, for example, can be signed by officers and employees/managers of the organization with their vLEIs.
  - The same report also can be signed in its entirety by officers and employees/managers of the organization with their vLEIs.
- **vLEI Credentials presented and signatures verified**
  - Status of the vLEI Credentials and the validity of the signatures on the submission are verified.



<https://www.gleif.org/en/about/governance/annual-report> ([browser based](#), no plugin required)

# LEI and vLEI in KYC: Simplifying Onboarding

## KYC process

Customer provides LEI

Bank uses LEI to identify the organization with certainty and with access to validated reference data about the organization.

Customer obtains vLEI

The customer can use the vLEI to sign and submit documentation required by the bank during the initial KYC process.

Subsequent business and onboarding

The customer can reuse the vLEI to apply for additional bank services.

Permissioning

The vLEI can be used to permission access by the customer to banking services replacing traditional username and password and other forms of multifactor authentication.

## The vLEI also will:

Speed up transaction processes by eliminating the need to repeat KYC verification, allowing faster access to financial services.

Reduce information asymmetry, providing consistent and verified information across all transactions, which builds trust and accountability.

Lower operational costs by reducing the need for manual verification, saving on human resources and minimizing administrative work.



# Application of vLEIs – ESG

The platform gathers ESG data from various sources, including IoT and other digital inputs.

The platform analyzes the collected data to evaluate the SMEs' environmental, social, and governance (ESG) performance.

Based on the analysis, service partners produce comprehensive ESG reports for SMEs.

SMEs with strong ESG credentials can access green financing from banks, improving their financial opportunities.

SMEs may undergo an ESG audit conducted by a professional institution to validate their ESG performance.

The ESG reports are converted into verifiable credentials, backed by CAICT’s blockchain for authenticity and integrity.

## How vLEI Will Help:

Each SME is issued a vLEI, which they use as a secure login credential to access the ESG platform.

The vLEI extracts the SME's Legal Entity Identifier (LEI), identifying the SME and linking it to supply chain and ESG information.

All ESG data for the SME is tagged under their LEI, ensuring that the data is accurately linked to the specific SME.

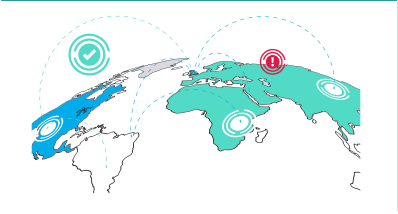
The platform successfully verifies and tags the ESG data using vLEI, ensuring its authenticity and traceability throughout the process.





# Why the LEI and vLEI in trade?

Secure and reliable legal entity identification helps:

	Cross-border payment	Fraud and risk mitigation	Financial inclusion	Supply chain Efficiency	ESG stewardship
Challenge	<ul style="list-style-type: none"><li>▪ AML Screening</li><li>▪ Realtime due diligence</li><li>▪ Cost</li></ul>	<ul style="list-style-type: none"><li>▪ Sanctions</li><li>▪ Information in silos</li><li>▪ Name matching ambiguity</li></ul>	<ul style="list-style-type: none"><li>▪ Access to trade and supply chain financing</li></ul>	<ul style="list-style-type: none"><li>▪ Lack of interoperability</li><li>▪ Fragmentation</li><li>▪ Manual work prone to error</li></ul>	<ul style="list-style-type: none"><li>▪ Regulation compliance</li><li>▪ Cost</li></ul>
How can the (v)LEI help?	<ul style="list-style-type: none"><li>▪ Minimize false positives</li></ul>	<ul style="list-style-type: none"><li>▪ <b>Cross-border Identification</b> of parties across the suply chain directly (e.g. buyer and seller) and indirectly (e.g. customs, insurance)</li></ul>	<ul style="list-style-type: none"><li>▪ Validated again local public registers</li></ul>	<ul style="list-style-type: none"><li>▪ Unambiguous identification</li><li>▪ Transparency and security</li><li>▪ Minimize fraud</li></ul>	<ul style="list-style-type: none"><li>▪ Machine readable, open data, and easily integrated</li><li>▪ API to LEI Repository</li></ul>
LEI	Unique, accurate (high data quality), scalable, consistent (parent relationship data), <b>users can challenge it.</b>				
vLEI	Digital and cryptographic advancement of the traditional Legal Entity Identifier (LEI). vLEI enables <b>decentralized and automated validation</b> of an organization's identity.				



# LEI in Supply Chains

## LEI in Trade and Trade Digitalization





LEIs will generate \$60 billion in efficiency savings by reducing information and transaction costs.







Digital Standards Initiative



WORLD TRADE BOARD  
Connecting Markets and People







Digital Standards Initiative

Key Trade Documents and Data Elements

Digital standards analysis and recommendations—  
An integrated framework for digitalising the entire supply chain



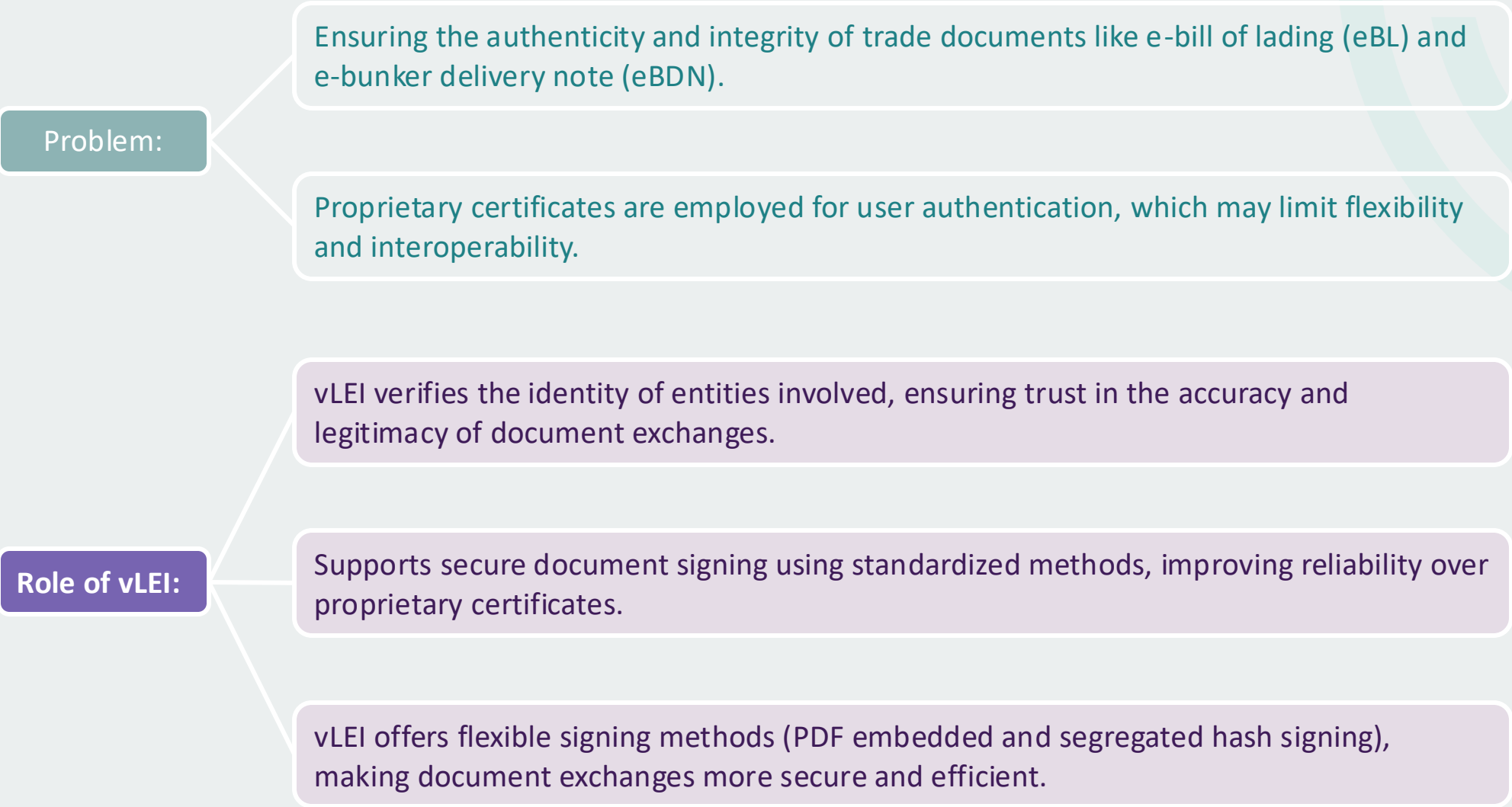
Digital Standards Initiative

Trust in Trade

Verifiable Trust: A foundational digital layer underpinning the physical, financial, and information supply chain

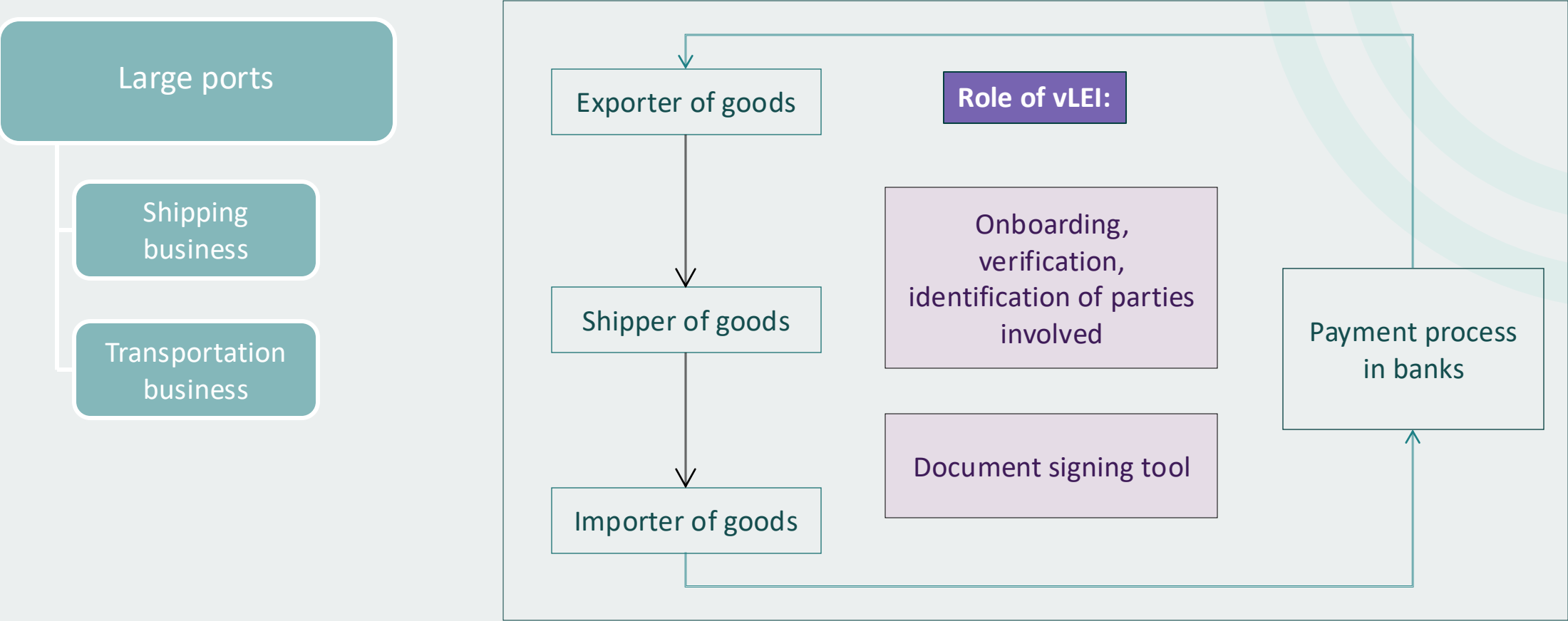


# Application of vLEIs - Digital Trade Documents Exchange Platforms



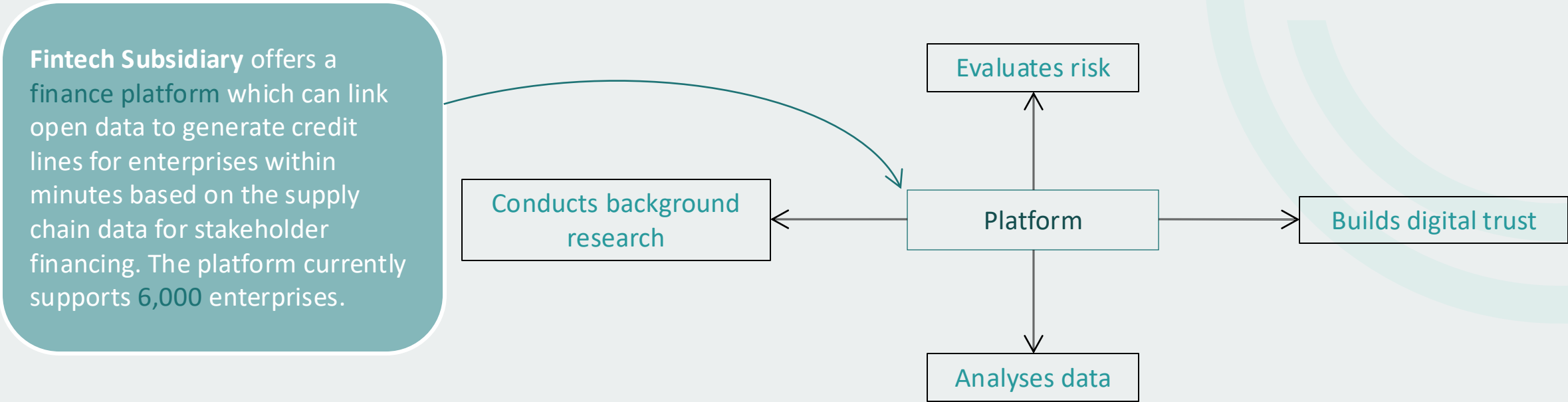
# Application of vLEIs - E-bills of Lading

E-bills of lading has information about the entire transaction

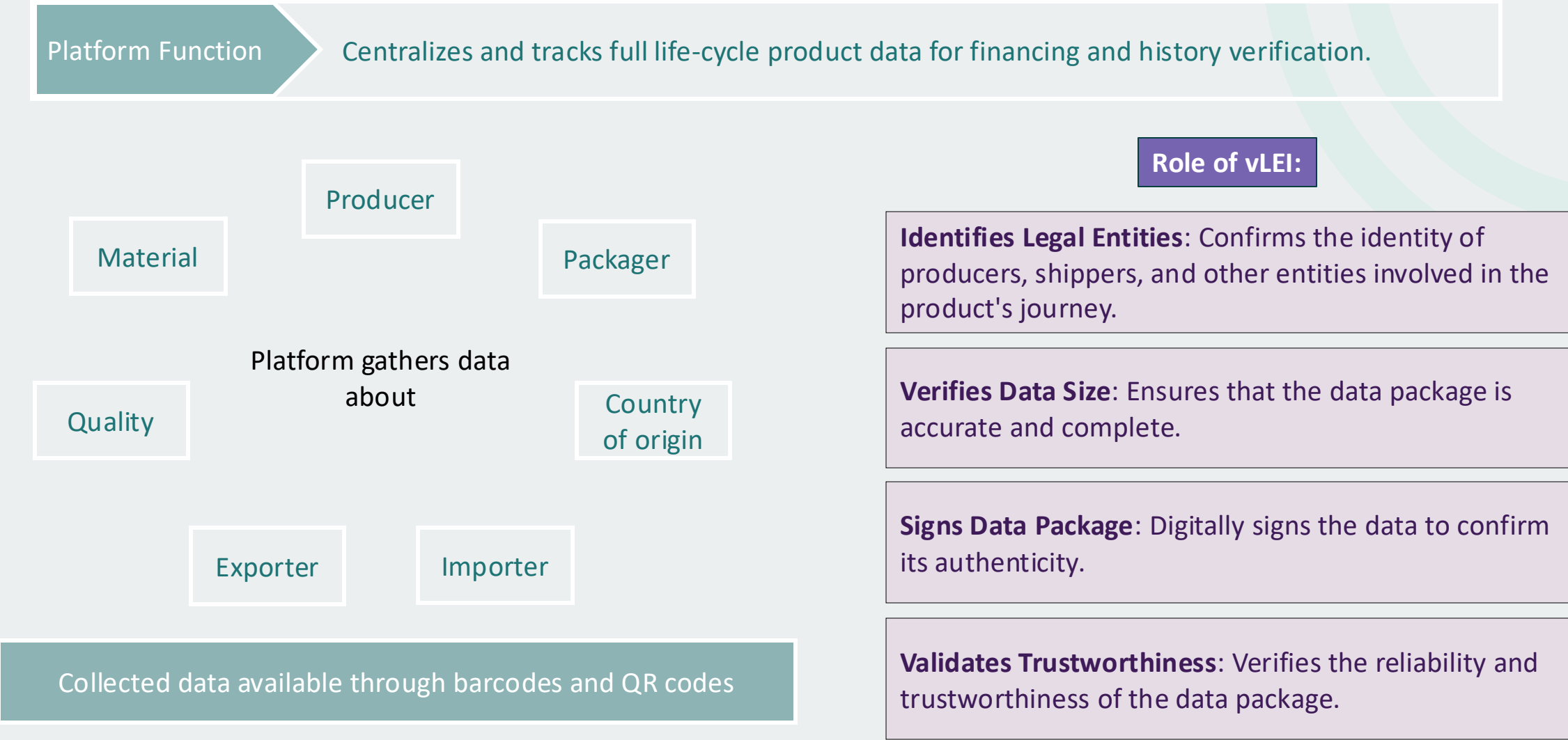


**E-bill of Lading:** Utilizes vLEI to identify enterprises and their employees on a digital trade platform, serving as both a unique identification and an online authentication and document signing tool.

# Application of vLEIs - Supply Chain Finance Platforms



# Application of vLEIs - Product Traceability





# Application of vLEIs - Pharma Industry

## Problem:

Uncertainty over the authenticity of prescriptions, hospitals, doctors, and patients involved.

Varying costs of medical procedures and consultations make it hard to verify which prescriptions are genuine.

Difficulty in securely sharing prescriptions across borders.

## Role of vLEI:

vLEI identifies hospitals, doctors, and patients to ensure authenticity.

vLEI digitally signs and verifies prescriptions, ensuring they are genuine and trustworthy.

Encapsulates medical information in verifiable credentials, making cross-border exchanges secure and reliable.



# Music Industry Use Case: Songwriting, Publishing, Recording Agreements

## Problem:

Creators do not have an easy way to document information needed by publishers and labels, or a way to delegate this work to authorized representatives.

Music companies receive data about new music via texts and emails.

Legal contracts are entered into catalog management systems manually.

Fraud and poor data security run rampant throughout the music industry.

## Solution:

Verified writer identities – cryptographically secure publisher connections and identity verification.

Verifiable compositions – machine readable writer and publisher data secured with digital signatures.

Secure workspaces – collaborative deal rooms for writers and their teams.

## Role of the LEI & vLEI:

The combination of identity verification and legal authority verification, encapsulated in a cryptographic credential that detects tampering, leads to verification across databases.

## Limitations

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