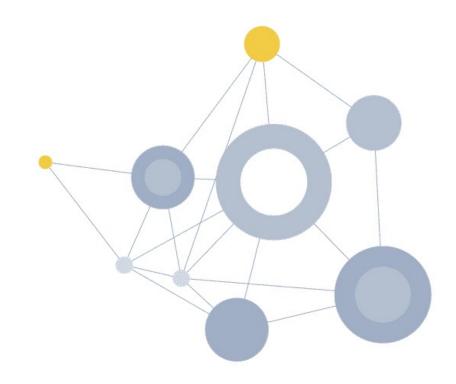


# verifiable LEI (vLEI) Update and Progress Session

Internet Identity Workshop (IIWXXXIV)
April 26-28, 2022
GLEIF



# **Agenda**



- vLEI Updates and Progress
  - Introduction to LEIs and vLEIs
  - Uses for the vLEI
  - How SSI will be adopted
  - vLEI Ecosystem Governance Framework
  - GLEIF-supplied vLEI software and infrastructure
  - Prepare for Launch
- Discussion/Questions



# Introduction to LEIs and vLEIs



# **Expanding the use of LEIs using vLEIs**



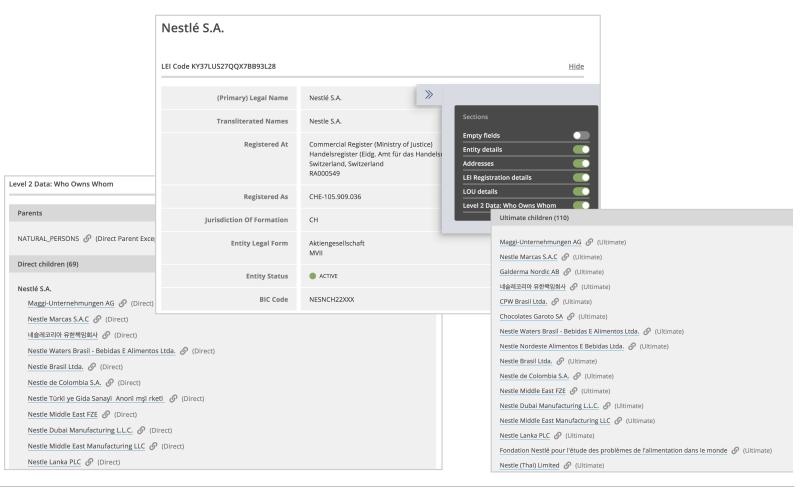
Expand the use of the LEI to become the broad public good envisioned and endorsed by the G-20

Realize the GLEIF's vision statement:
A Legal Entity should have one global identity and this should include a digital identity

## The Legal Entity Identifier (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.

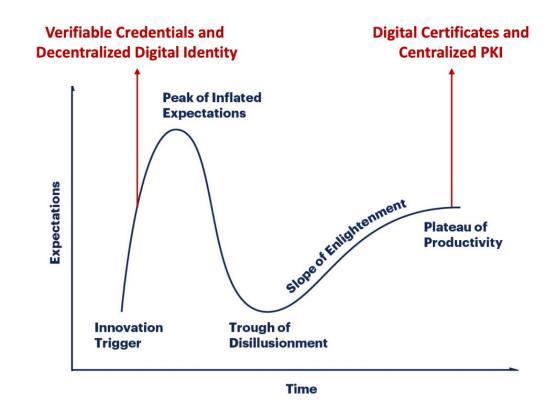


## **LEI Digital Strategy**



## Digital Certificates as well as Self-Sovereign-Identity Networks

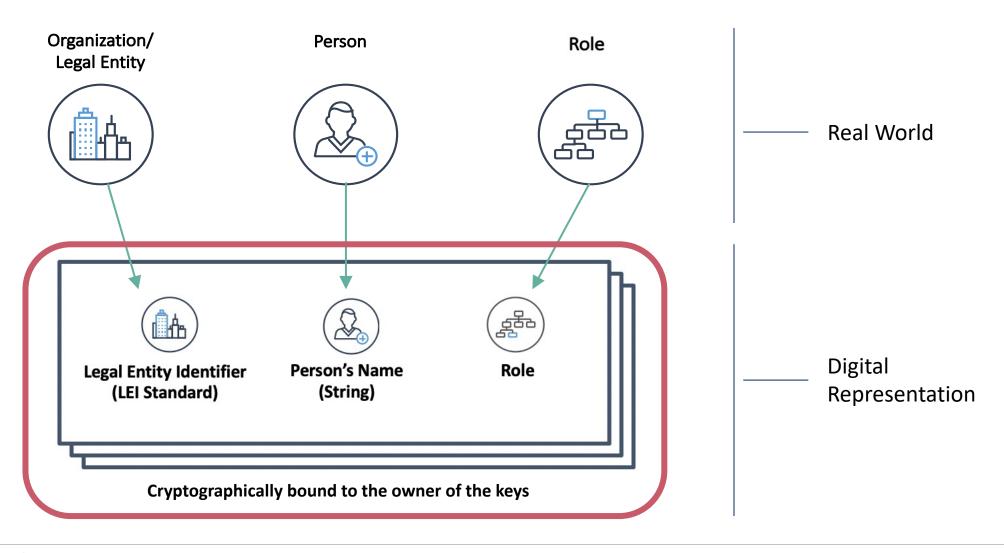
- The LEI has a critical role to play in today's digital world through its ability to provide organizations with unique, permanent identification globally. This especially is important in the context of identifying legal entities involved in digital transactions.
- LEI delivers value to both the more mature product
   Digital Certificates and the more recent innovation of Verifiable Credentials



# **Embedding the LEI in digital tools**

## Representing Organizations, Persons and Roles





#### The LEI as a Verifiable Credential – the vLEI Trust Chain



- GLEIF is the Root of Trust
  - Root AID (Autonomic Identifier) to establish the Root of Trust
  - Delegated AIDs to issue Credentials
- GLEIF will establish a trusted network of Qualified vLEI Issuers (QVIs)
- QVIs are qualified to issue Entity and Role Credentials:
  - to Legal Entities
  - to Persons who represent Legal Entities either in official or functional roles



# The vLEI Ecosystem Chain of Trust and vLEI Credentials



# **GLEIF**

Issues Qualified vLEI Issuer vLEI

**Issues Legal** 

**Entity vLEI** 

Flements:

Qualified vLEI Issuer LEI

# **Qualified vLEI Issuer**

**Elements:** 

Legal Entity LEI (GLEIF will have one too!)

**Entity Credentials** 

**Role Credentials** 

Role vLEI **Legal Entity Issues Legal Entity Engagement** Context Role vLEI

**Issues Legal Entity** 

**Official Organizational** 

**Elements:** 

Legal Entity LEI, Person's name, Official Organizational Role

**Elements:** 

Legal Entity LEI, Person's name, **Engagement Context Role** 



# Uses for the vLEI



## vLEIs across industries/domains/stakeholders



# Broad interest still seen across industries, domains and stakeholders

 To satisfy the need for decentralized identification and verification for organizations as well as the persons who represent their organizations either in official or functional roles

#### **Pilot interest**

- Supply chain/trade/trade finance
- Telecom
- National identity solutions
- Industry solutions
- Financial sector services
- Private sector reporting to the public sector

#### Solutions for zero trust frameworks

#### **Stakeholder engagement**

- Users
- Qualified vLEI Issuers
- Software/solution providers



# How SSI will be adopted



# How SSI will be adopted



- SSI has a go to market problem
- 2-sided vs. 1-sided markets
- Top-down vs. bottom-up
- vLEI and organizational identity





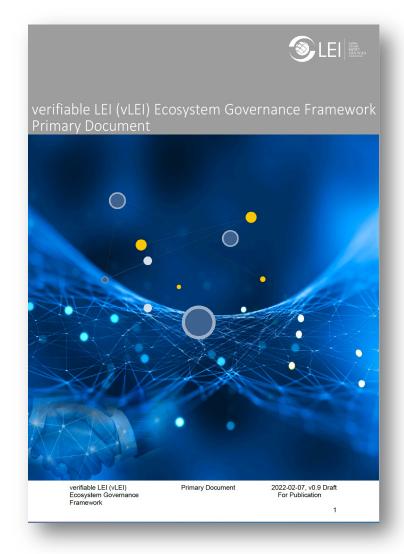
# vLEI Ecosystem Governance Framework



## **vLEI Ecosystem Governance Framework**



- Public review of Framework by Trust over IP Foundation completed December 2021 (ToIP Governance Framework Metamodel used for vLEI Framework)
- Publication of draft Framework February 2022
  - As part of vLEI Communications campaign and release of KERI video
- Next steps
  - Include updates from Regulatory Oversight Committee,
     vLEI team and as a result of pilots
  - Plan for publishing of version 1.0 of Framework





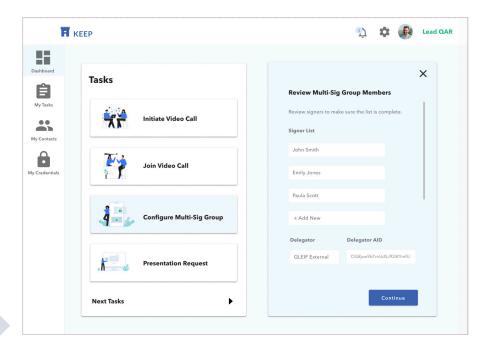
# **GLEIF-supplied vLEI software** and infrastructure



## **GLEIF-supplied vLEI software and infrastructure**



- Current work
  - Hardening of GLEIF-supplied vLEI software including User Interface and User Experience capabilities for initial pilot in April 2022
  - Execution of initial pilot by June 2022
    - Planned work for 2022
      - Development of initial KERI tunnel
        - Hyperledger Indy/Aries
      - Development of did:keri method interoperability
      - Development of ACDC interoperability



## **GLEIF-supplied vLEI software and infrastructure**



- Technology standards work continues within Trust over IP
   Including presentation of draft specifications to the Internet Engineering Task Force (IETF) for:
  - Key Event Receipt Infrastructure (KERI)
  - Authentic Chained Data Container (ACDC) vLEI Credentials
  - Composable Event Streaming Representation (CESR)
  - and other supporting technology specifications

http://github.com/WebOfTrust/keri



# **Prepare for launch**



# Launching the vLEI ecosystem and infrastructure



- Launch of Qualified vLEI Issuer Program
- Final hardening of production software, establishment of vLEI technical infrastructure
- What is needed: Development of tools such as wallets, mobile apps, key management software, enterprise credential management, additional witness services and watcher networks
- Live operations
- Expansion of industries, domains and use cases covered



# **Discussion/Questions**



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