



# DIGITAL IDENTITY FOR GOVERNMENTS

BEST PRACTICES & VENDOR SOLUTIONS



DigitalGov.network



## VENDOR SOLUTIONS

- Microsoft TEATH
- Meta Microsoft.
- Dokrya Microsoft

PLAY



# DIGITAL IDENTITY FOR GOVERNMENTS

Enabling Trust, Efficiency, and Inclusion in the Digital Age. A comprehensive overview of Citizen Authentication, Blockchain, LEIs, and UPRNs.

# | The Ecosystem



## Citizens

Natural persons  
requiring secure access  
to services. Focus on  
privacy and ease of use.



## Businesses

Legal entities in trade &  
tax. Identified via global  
standards like the LEI.



## Locations

Physical spaces  
managed by the state.  
Uniquely identified by  
UPRNs.

# Citizen Authentication

## Verification

Moving beyond passwords:

- **Biometrics:** Face & fingerprint.
- **Doc Scan:** Mobile ID checks.
- **MFA:** Multi-factor security.

## NIST IAL

Assurance Levels (SP 800-63):

- **IAL1:** Self-asserted (Low).
- **IAL2:** Remote evidence (Mid).
- **IAL3:** In-person (High).

# Digital Wallets

## User-Centric Control

Shifting from centralized databases to user-held **Digital Wallets**. Citizens store verifiable credentials directly on devices.

## ISO 18013-5 (mDL)

Mobile Driver's Licenses allow proving identity or age without handing over the phone, ensuring **data minimization**.





# | Legal Entity Identifiers

**20**

CHAR CODE

**ISO**

17442 STD

**2.5M**

ISSUED GLOBAL

The LEI is the global standard for financial transactions. It answers: "**Who** is who?" and "**Who** owns whom?"

# LEI Data Structure

Data Level	Description	Benefit
Level 1	"Who is who" - Name, address.	Standardized registries.
Level 2	"Who owns whom" - Parent info.	AML & Sanctions tracking.
vLEI	Verifiable digital version.	Automated trust.

# Location: UPRNs

## Unique Property Reference Number

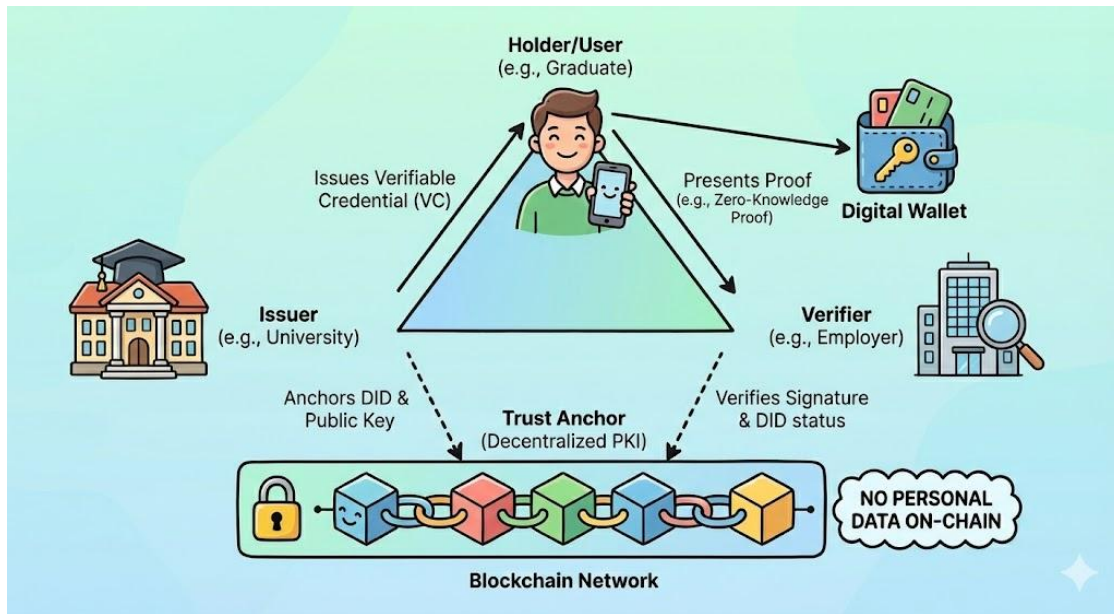
The unique identifier for every addressable location. A model for global systems.

It acts as a "**Golden Thread**" linking tax, voting, and emergency services to a precise, verified physical location.





# Blockchain & SSI




## Self-Sovereign Identity

User owns the identity, not the state.

 **DIDs:** User-created identifiers.

 **Verifiable Credentials:** Digital proofs.

 **Zero-Knowledge:** Prove facts without revealing data.

# Blockchain Use Cases



## Registries

Tamper-proof land titles  
& certificates to prevent  
fraud.



## Data Sharing

Verify citizen data  
across agencies without  
a central "honeypot."



## Secure Voting

Auditable and  
transparent digital  
voting experiments.

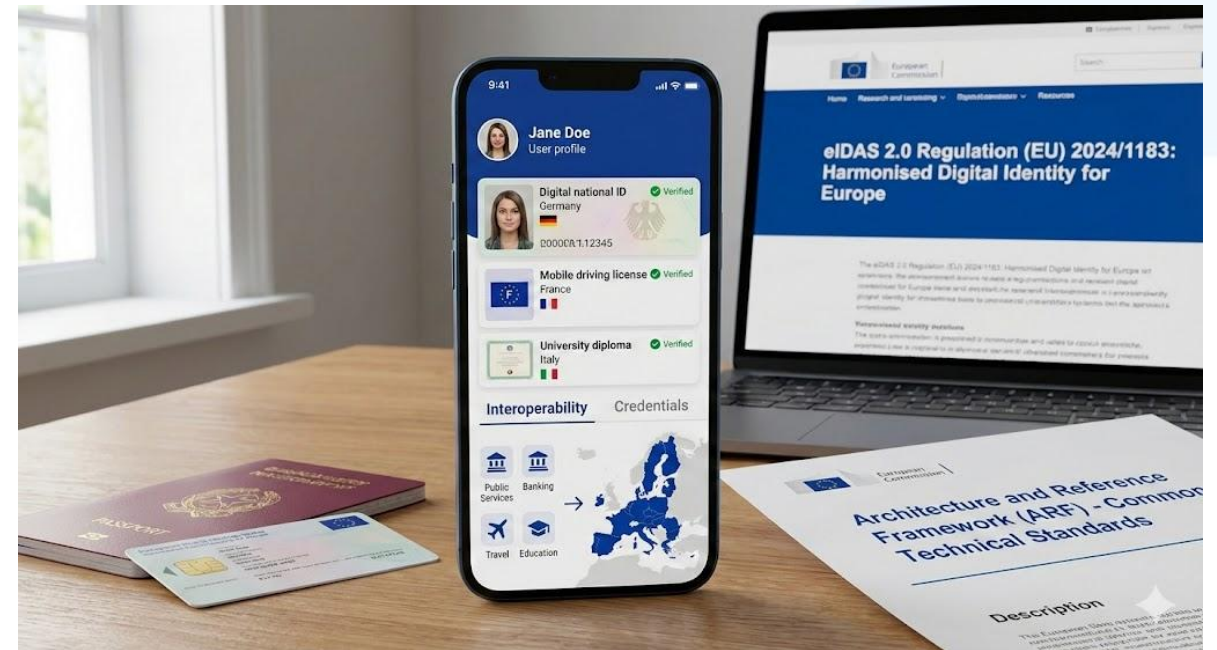
# Interoperability

## eIDAS 2.0 Regulation




Europe's Digital Identity Wallet ensures IDs issued in one country are recognized in all others.

## Trust Frameworks

Harmonizing standards (W3C VCs, ISO mDL) to build a global web of trust for trade and travel.



# | Key Challenges

-  **Privacy vs. Surveillance:** Avoiding the "Panopticon" of centralized tracking.
-  **Inclusion:** Ensuring the 850M+ people without ID aren't left behind.
-  **Cybersecurity:** Protecting infrastructure from state-sponsored attacks.

# **The Future is Digital**

Integrating secure authentication, blockchain, and robust identifiers creates a seamless, invisible, and secure infrastructure.