



THE **LINUX** FOUNDATION  
MEMBER SUMMIT

# OpenWallet Foundation

Update and Overview



#openwallet



THE LINUX FOUNDATION  
MEMBER SUMMIT

# Agenda

- Welcome & Agenda — Daniela Barbosa
- Introduction to OWF — Daniel Goldscheider
- The Digital Identity Landscape — Drummond Reed
- eIDAS 2.0 & EU Digital Identity Wallet — Dan Bachenheimer
- Enterprise Perspective — Tracy Kuhrt
- Initial Building Blocks — Tracy Kuhrt
- Structure of the OWF — Scott Nicholas
- Project Life Cycle — Hart Montgomery
- How to Get Involved — Daniela Barbosa
- Q&A

# Introduction to OWF

Daniel Goldscheider



# The digital identity landscape

Drummond Reed



# The three eras of digital identity

## Centralized

- X.500
- SSL
- TLS
- HTTPS

## Federated

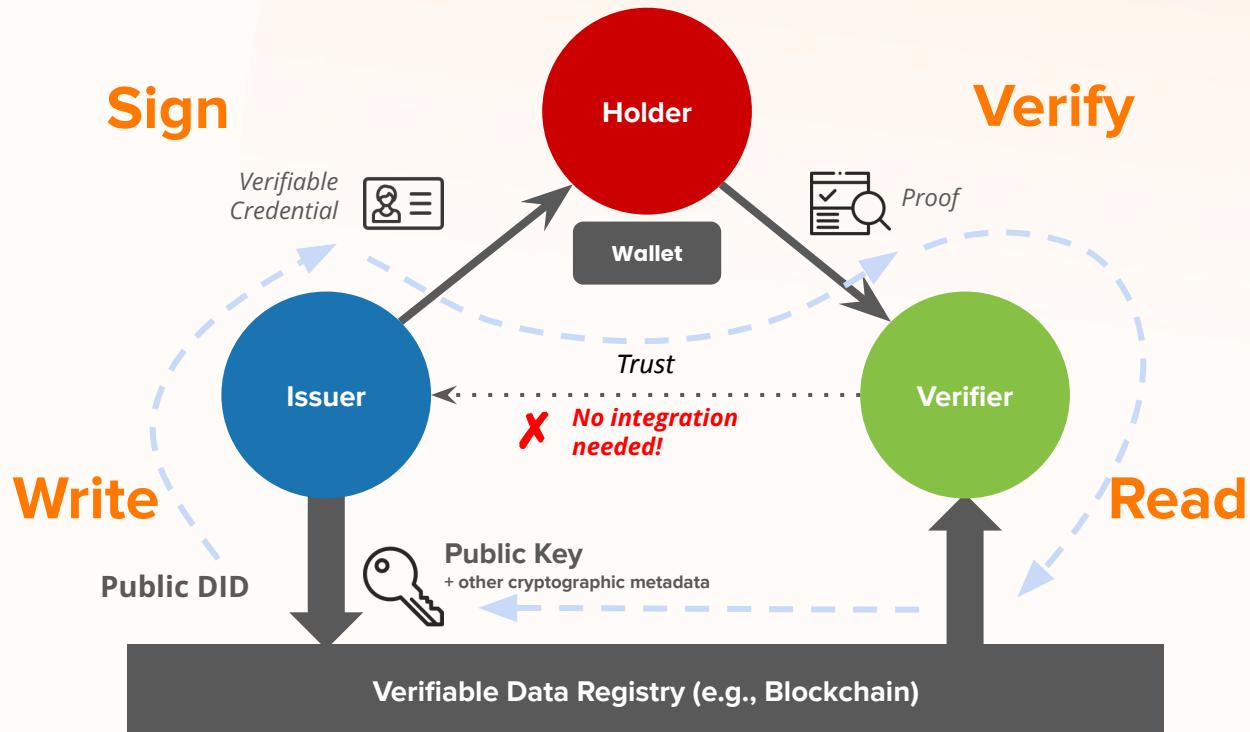
- SAML
- OpenID
- OAuth
- UMA

## Decentralized

- Decentralized Identifiers (DIDs)
- Verifiable Credentials

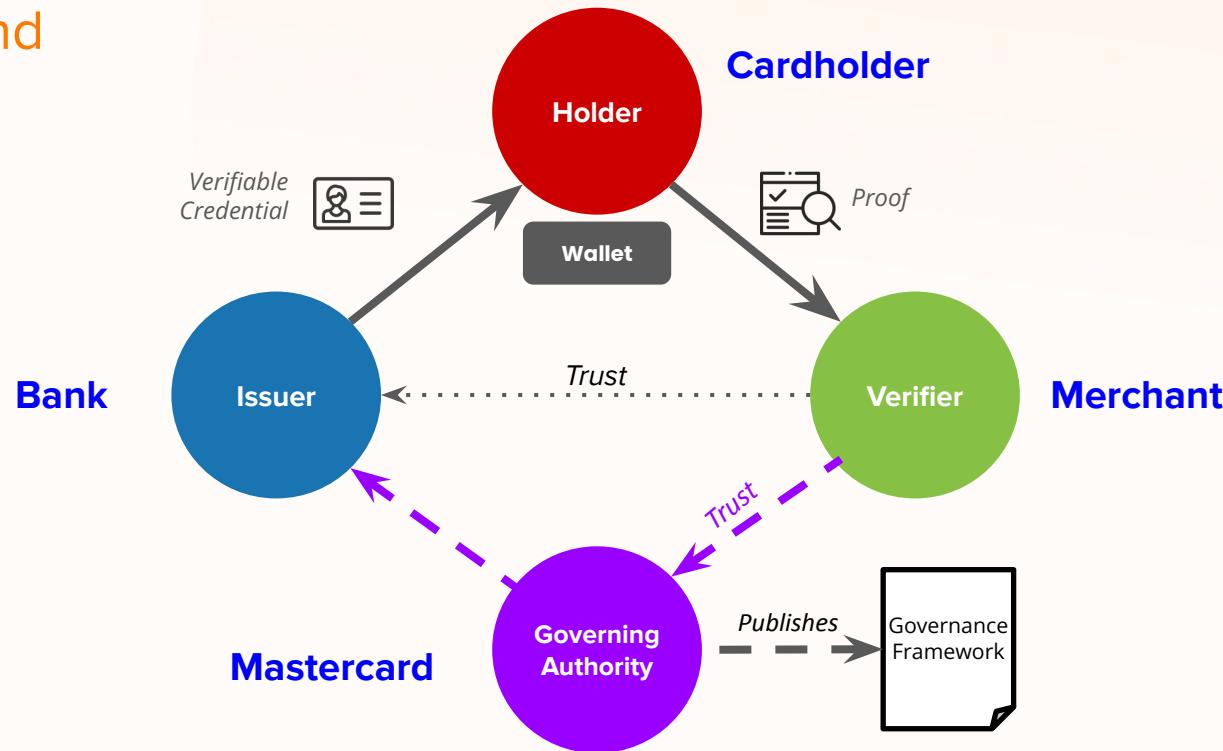


# All digital credentials are based on the “trust triangle”

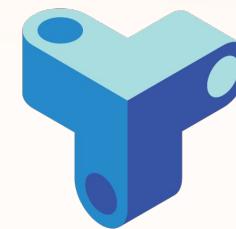
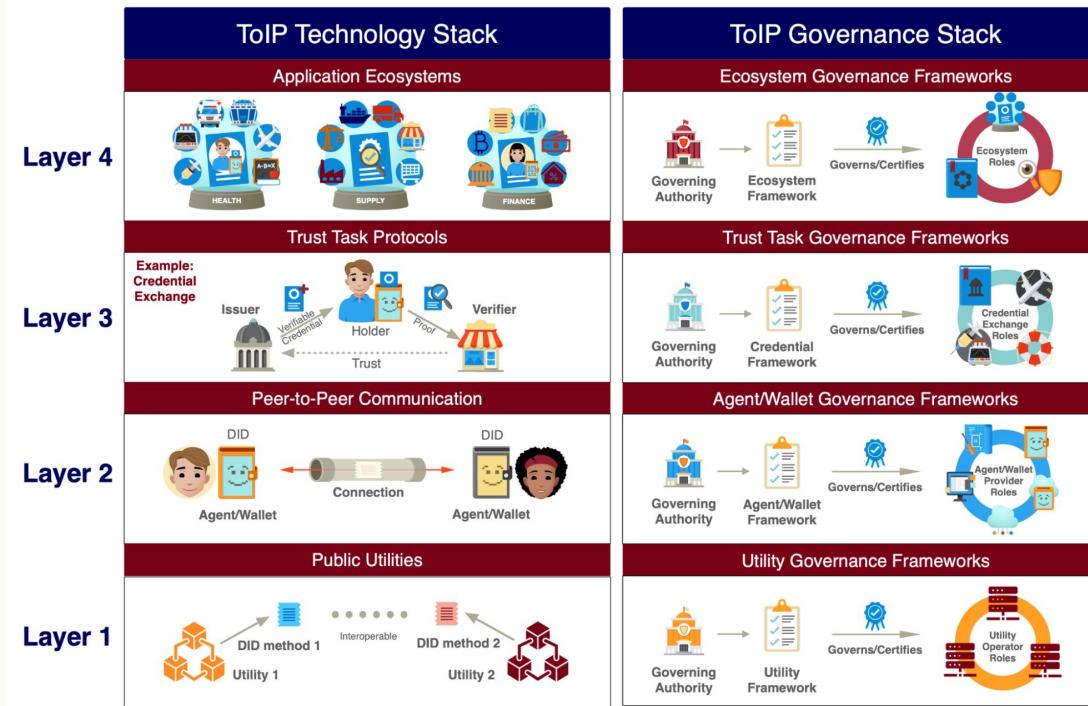


# How can digital identity wallets scale?

The governance  
trust diamond



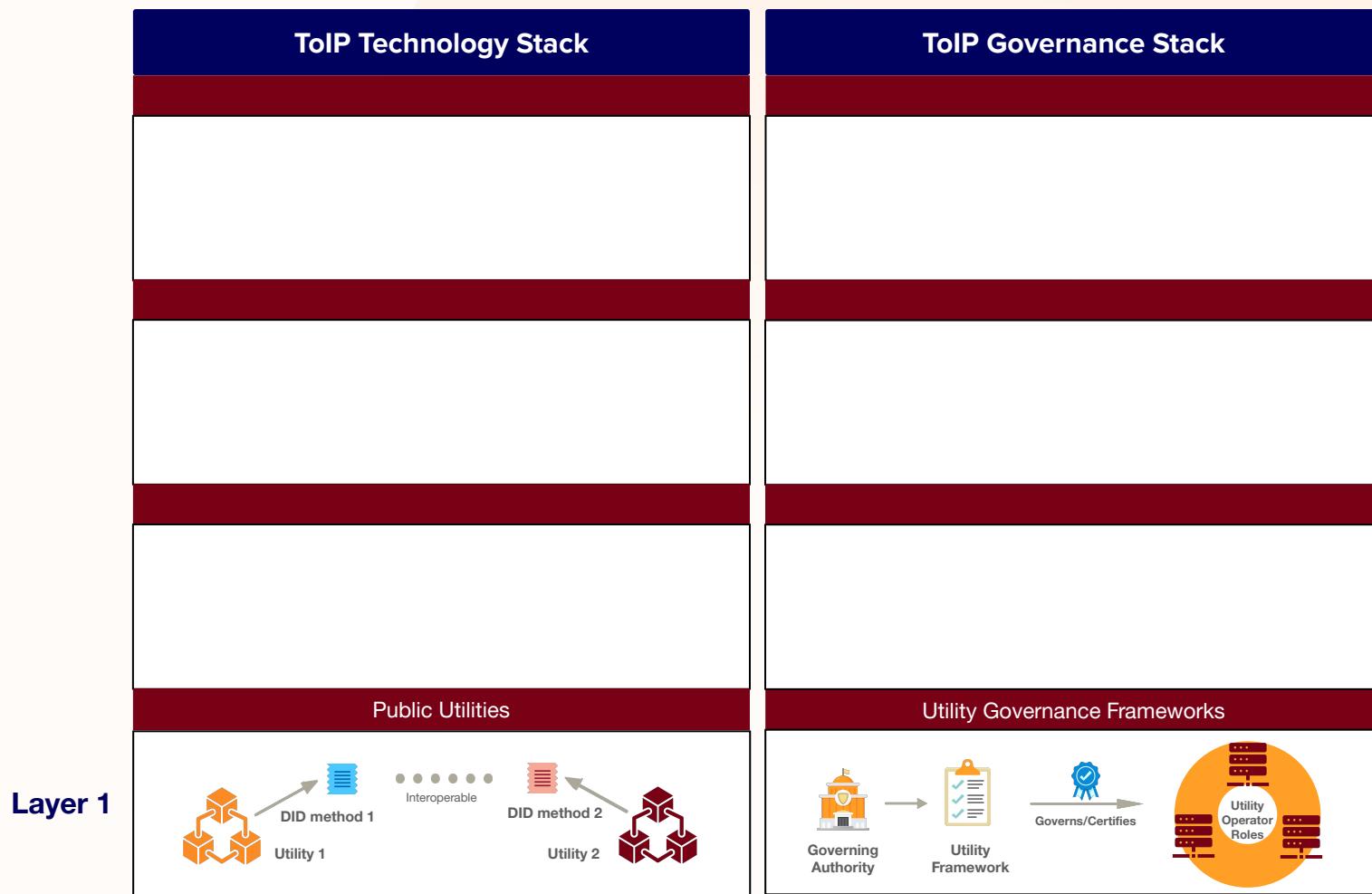
# The Trust Over IP (ToIP) Stack

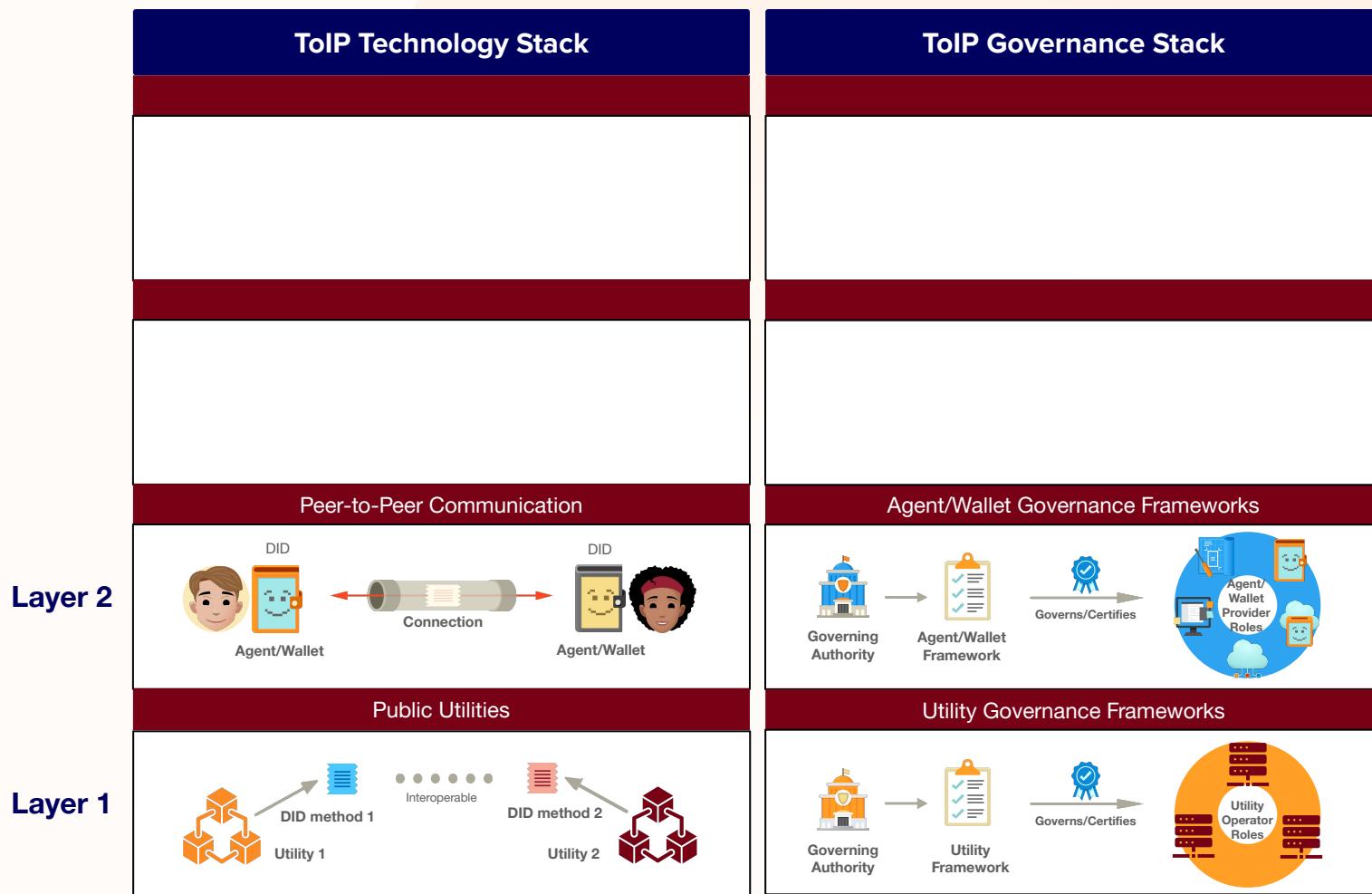


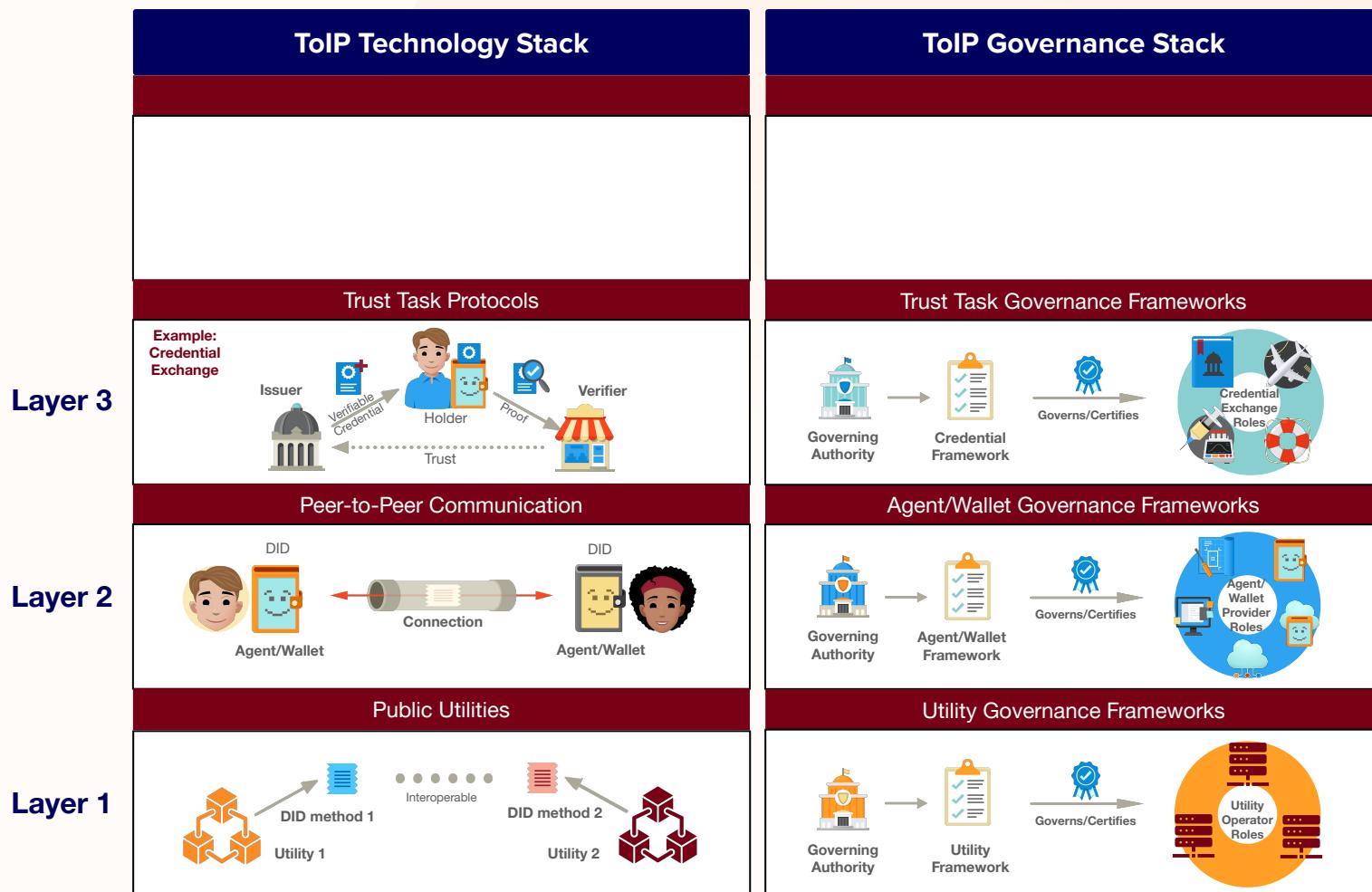
**TRUST  
Over IP  
FOUNDATION**

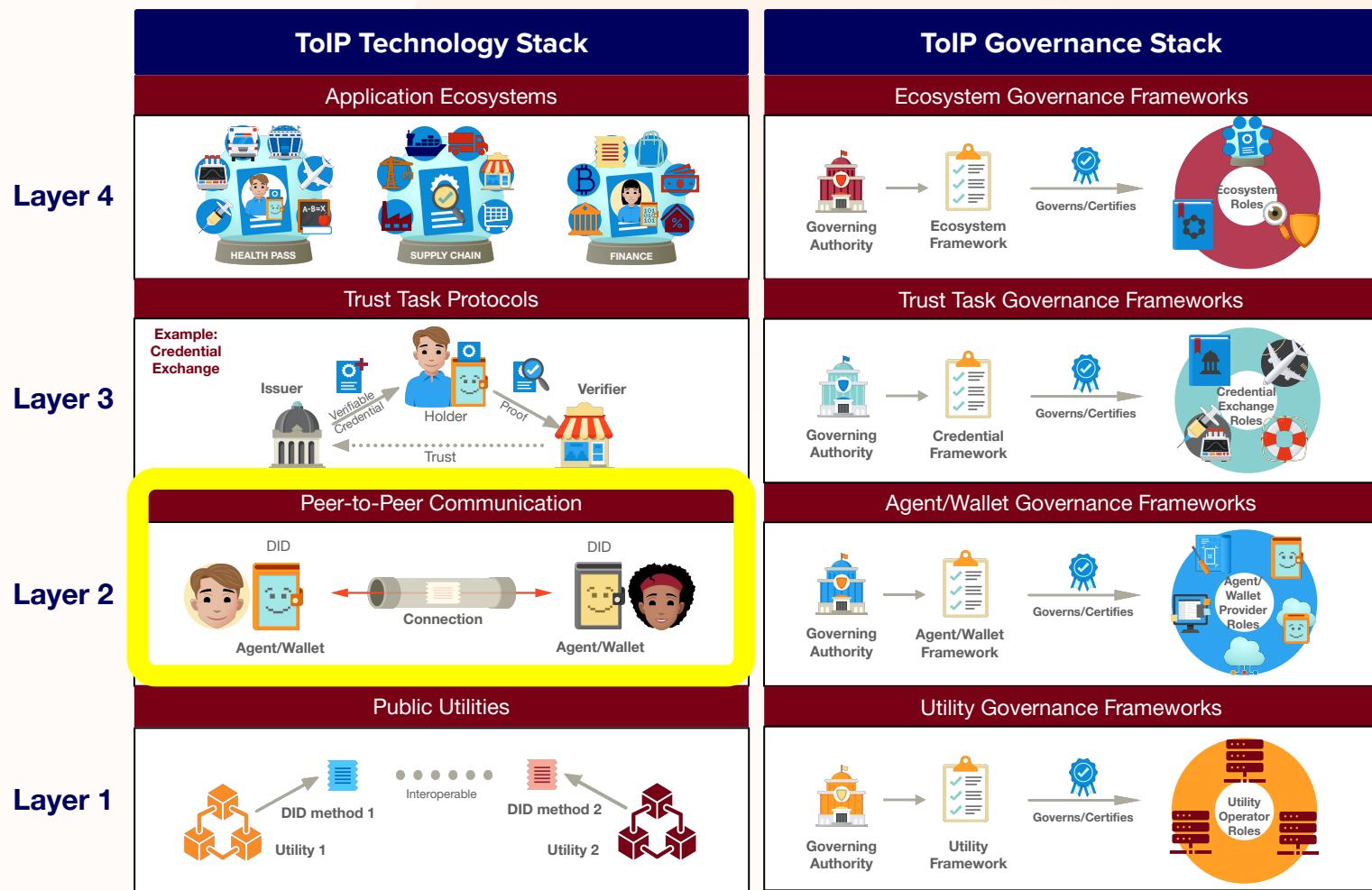
### ToIP Technology Stack

### ToIP Governance Stack

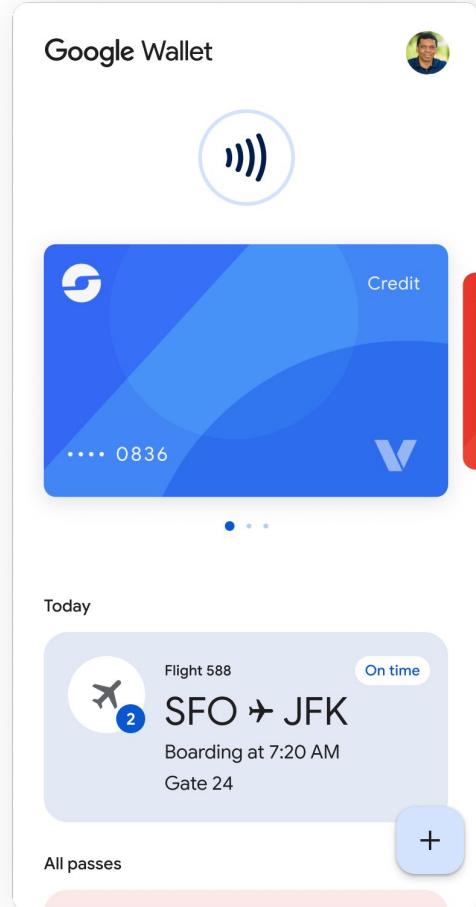
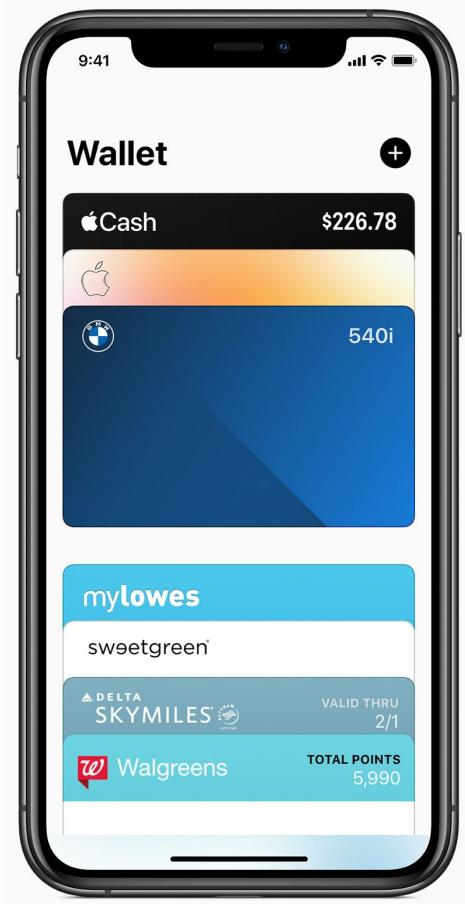








Today, when  
you say  
“digital wallet”,  
everyone thinks  
of these two:



That's a problem.

At least, the EU believes it's a problem.

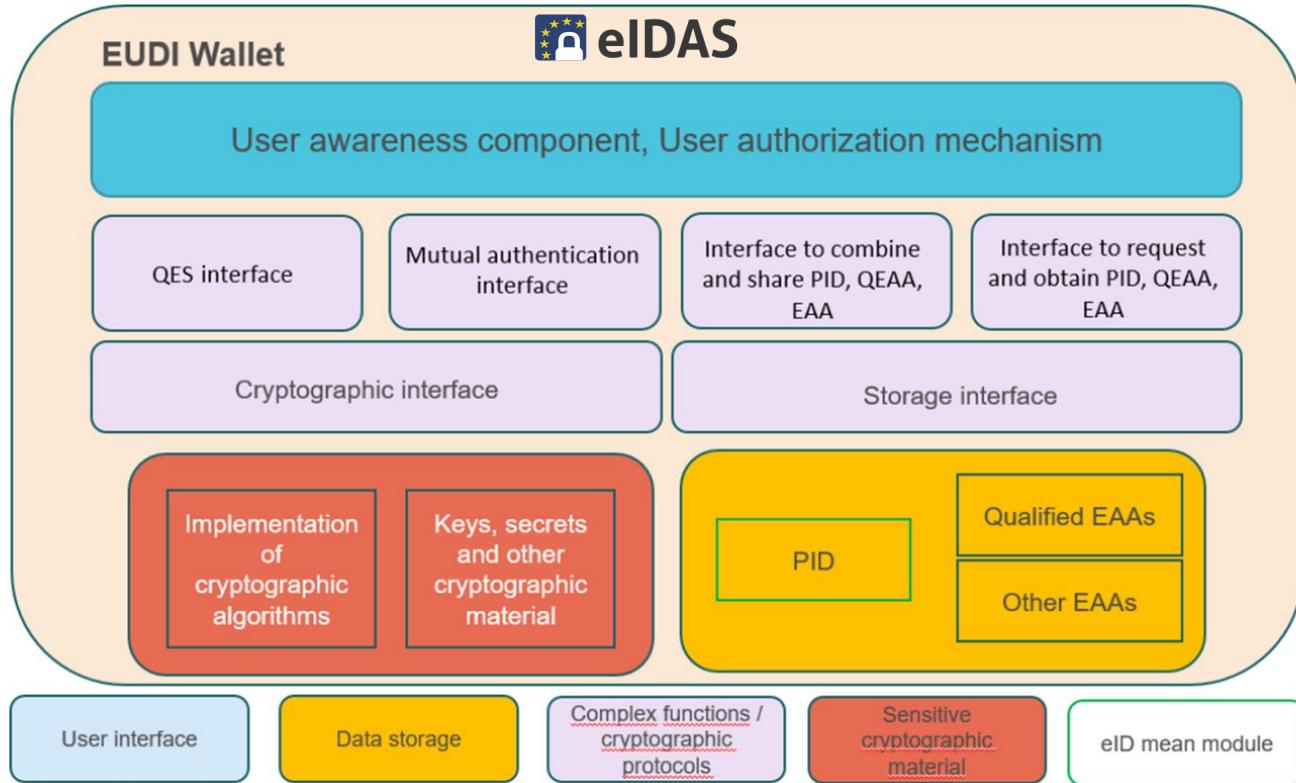
The EU wants a level playing field for digital wallets based on open standards and open source.

So they are funding the European Digital Identity Wallets initiative to the tune of over €75M.

# eIDAS 2.0 and the EU Digital Identity Wallet

Dan Bachenheimer



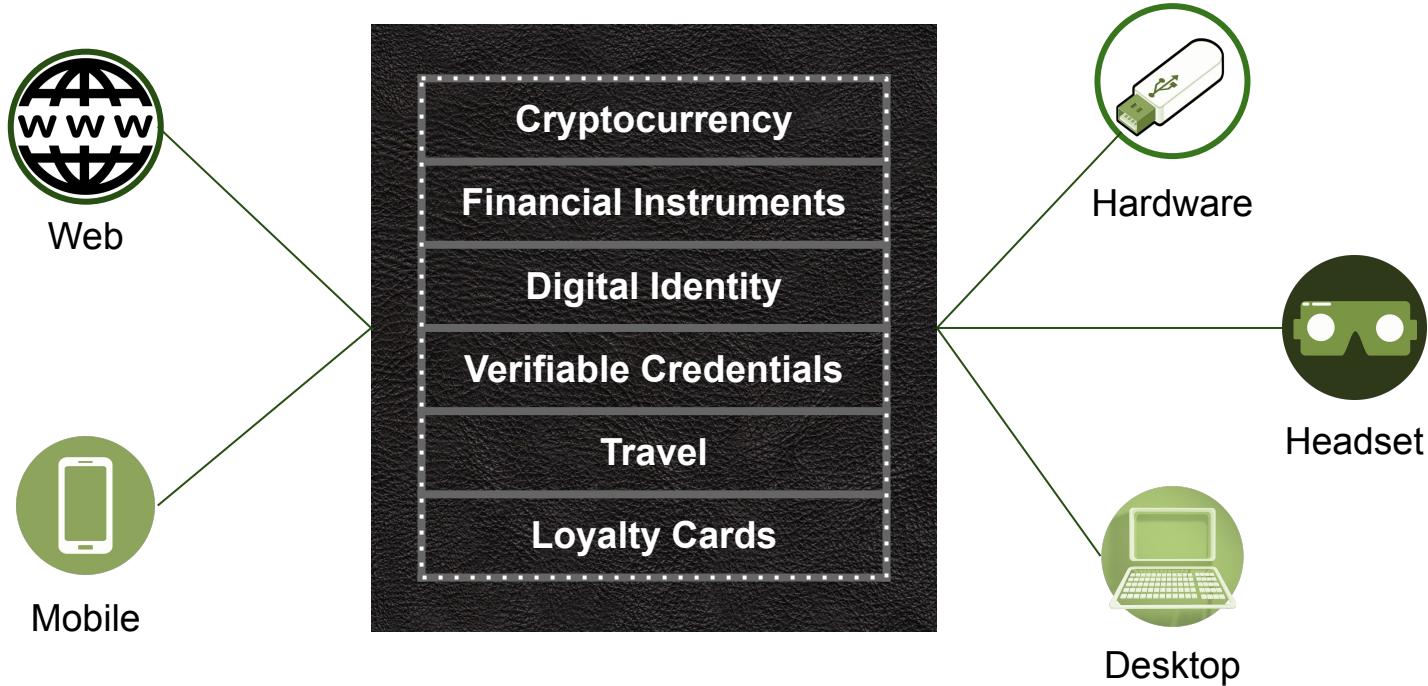


# Enterprise Perspective

Tracy Kuhrt

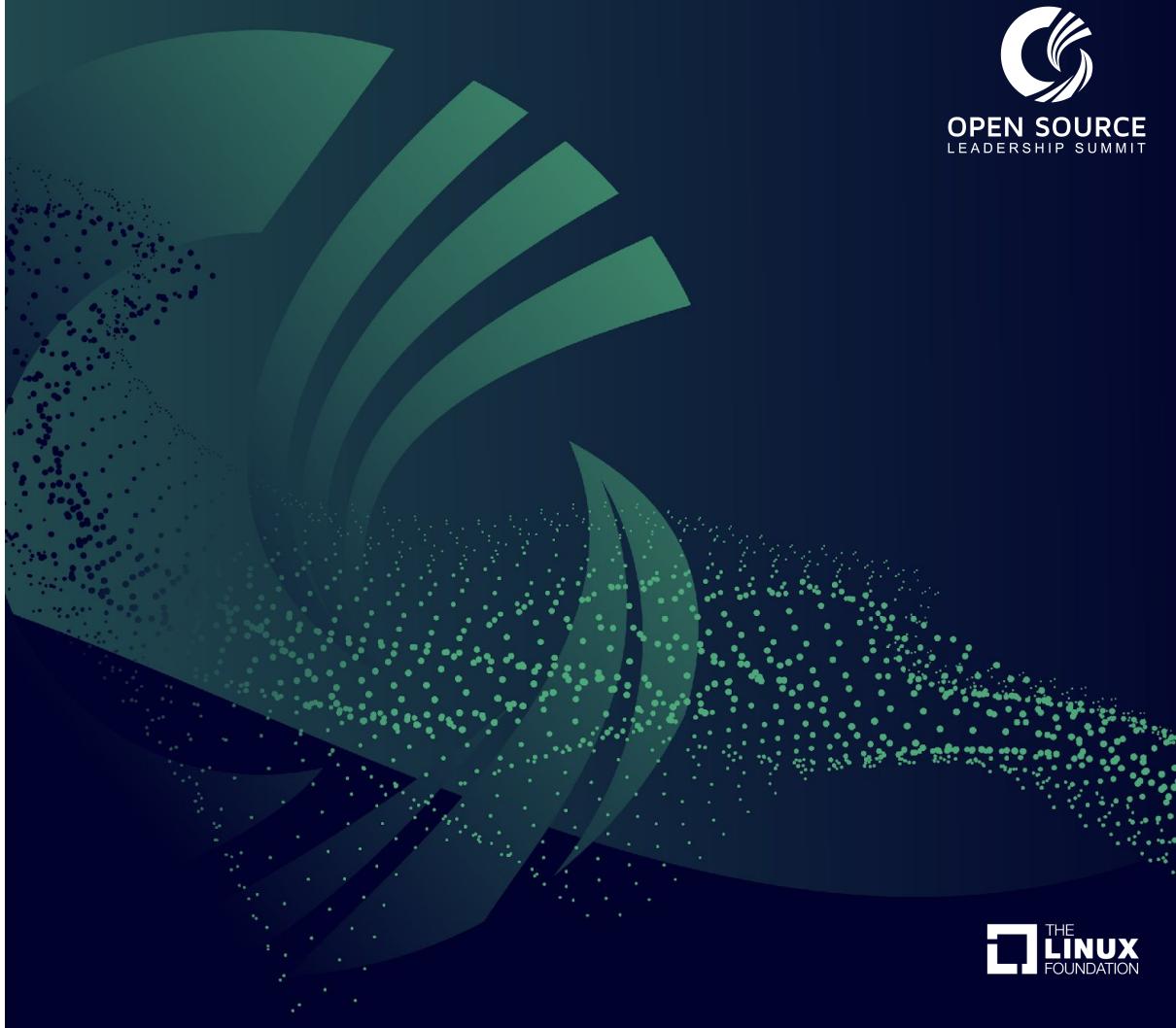


# Multipurpose Wallets

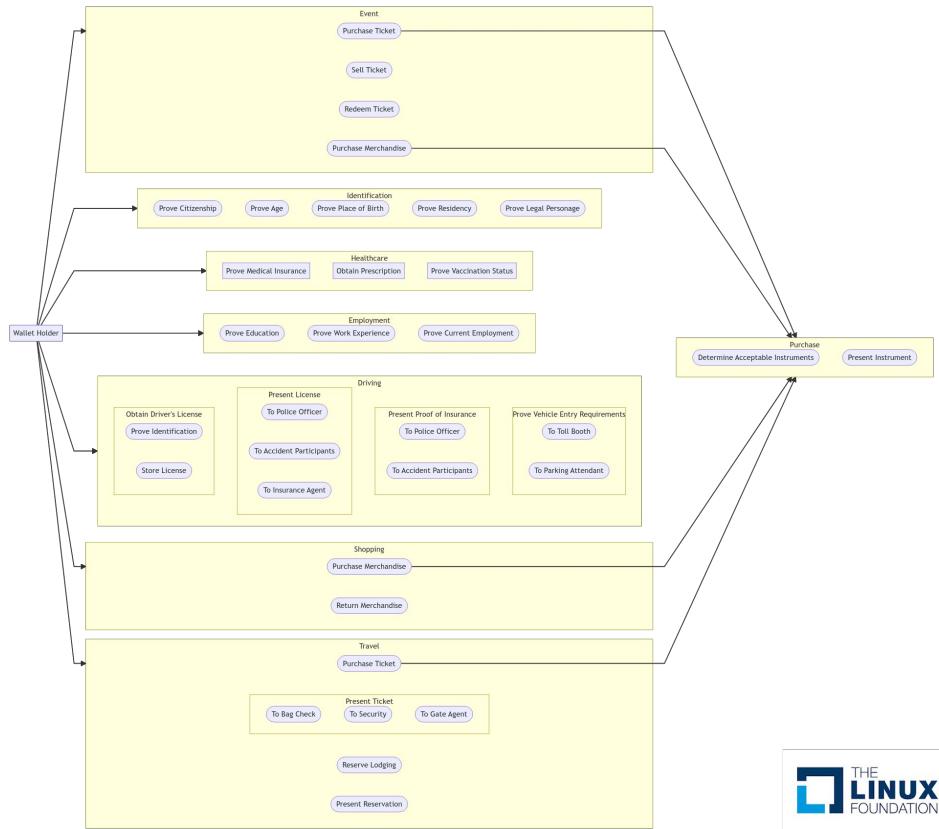
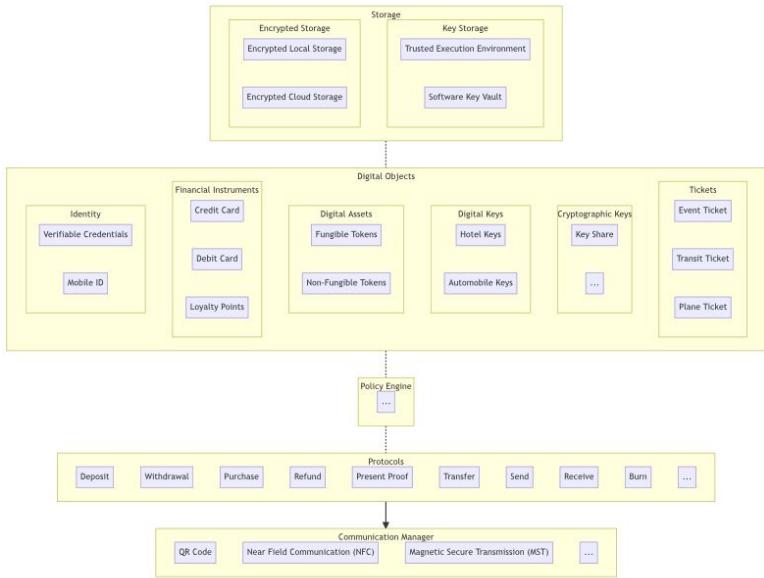


# Initial OWF Building Blocks

Tracy Kuhrt



# Where we started



<https://github.com/openwallet-foundation/architecture-task-force>



THE **LINUX** FOUNDATION  
MEMBER SUMMIT

# Proposed Initial Building Blocks

1. Payment Tokenisation ([EMV Tokenisation Specification](#))
2. ISO mDL ([ISO/IEC 18013-X](#) - Mobile Driving License)
3. W3C Verifiable Credentials ([W3C Verifiable Credentials Data Model v1.1](#))
4. Anonymous Credentials ([AnonCreds Specification v1.0 Draft](#))
5. ICAO DTC ([Digital Travel Credentials Technical Report v1.2](#))
6. Authentication

# OWF Structure

Scott Nicholas





THE LINUX FOUNDATION  
MEMBER SUMMIT

# Structure of Foundation

Linux Foundation Europe

## OpenWallet Foundation

**GOVERNING BOARD**

**GOV  
ADVISORY  
COUNCIL**

**TECHNICAL  
ADVISORY  
COUNCIL**

OWF governance  
detailed in the  
Sponsorship  
Agreement and  
Charter

**PROJECT  
ABC**

**PROJECT  
DEF**

**...PROJECT  
XYZ**

Set up through  
individual technical  
charters

# Project Lifecycle

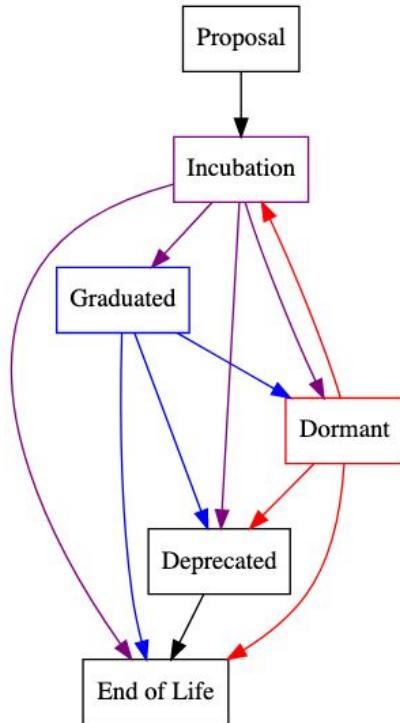
Hart Montgomery





# Umbrella Project Lifecycle

---



- LF umbrella projects by definition are collaborations among multiple individual projects
- To facilitate this, they develop a standard project lifecycle process.
- For example, the [Hyperledger Foundation's Project Lifecycle](#) process defines six stages in the completely lifecycle of a project as summarized in this diagram
- The OWF will define a similar process to define the maturity, interoperability, security, privacy, and other requirements a component project must meet to become part of the OpenWallet distro

# How to Get Involved

Daniela Barbosa





THE **LINUX** FOUNDATION  
MEMBER SUMMIT

# Q & A



# THE **LINUX** FOUNDATION MEMBER SUMMIT



**Layer 4**

## ToIP Technology Stack

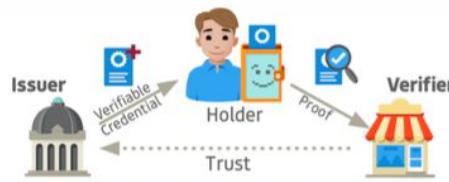
### Application Ecosystems



**Layer 3**

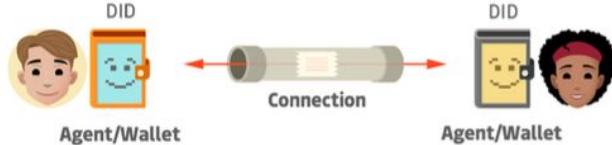
### Trust Task Protocols

Example:  
Credential  
Exchange



**Layer 2**

### Peer-to-Peer Communication



**Layer 1**

### Public Utilities



## ToIP Governance Stack

### Ecosystem Governance Frameworks



### Trust Task Governance Frameworks



### Agent/Wallet Governance Frameworks



### Utility Governance Frameworks



IMPLEMENTABILITY

