Get verified faster
Choose what you share
Get digital credentials
Credentials
Connections
Job Application - SSI Architect
Training program
University
Credential holder
Request proof
Present proof
Employer
Online shop
Verifier
Settings
SECURITY
Create / Export Backup
Recover Account
Change PIN
Use Biometrics
Use Mediator Images
OPTIONS
Change Ledger
Change language
Renew Push
Gateways
IDcard
esatus
Info
Digital Wallet
Fremtidens digitale identitet
Panel debatt med lyn intro
16 Mars 2023
Identity Day

Lise Wessel (dot)

Connecting the dots...Translating cutting-edge blockchain tech and web3 solutions into stories that people can really understand.

Talks about #ssi, #crypto, and #blockchain

Co-founder & CMO in web3
DeFi & Decentralised Identity (SSI)

Marius Solbakken

@mariussmellum

Partner and Principal Cloud Engineer @ Amesto Fortytwo, Microsoft MVP, Host of the CloudFirst Podcast and the Blåskjermbrødene podcast, Identity specialist

Brumunddal, Norway goodworkaround.com

Co-founder & CTO @ Diwala
Expert advisor at W3C WG
Co-creator of DIN(Digital Identity Norden)
Decentralized identity nerd
@vongohren

Tor Alvik

symfoni.dev

Bidratt med noen slides

Web 1.0

Web 2.0

Web 3.0

3rd generation identity

Identification

Who are you?

Postal Office

Video-ident

Connect Wallet

Decentralized identity

Authentication

Is it you again?

Username:

Password:

Sign in with Dropbox

Sign in with Facebook

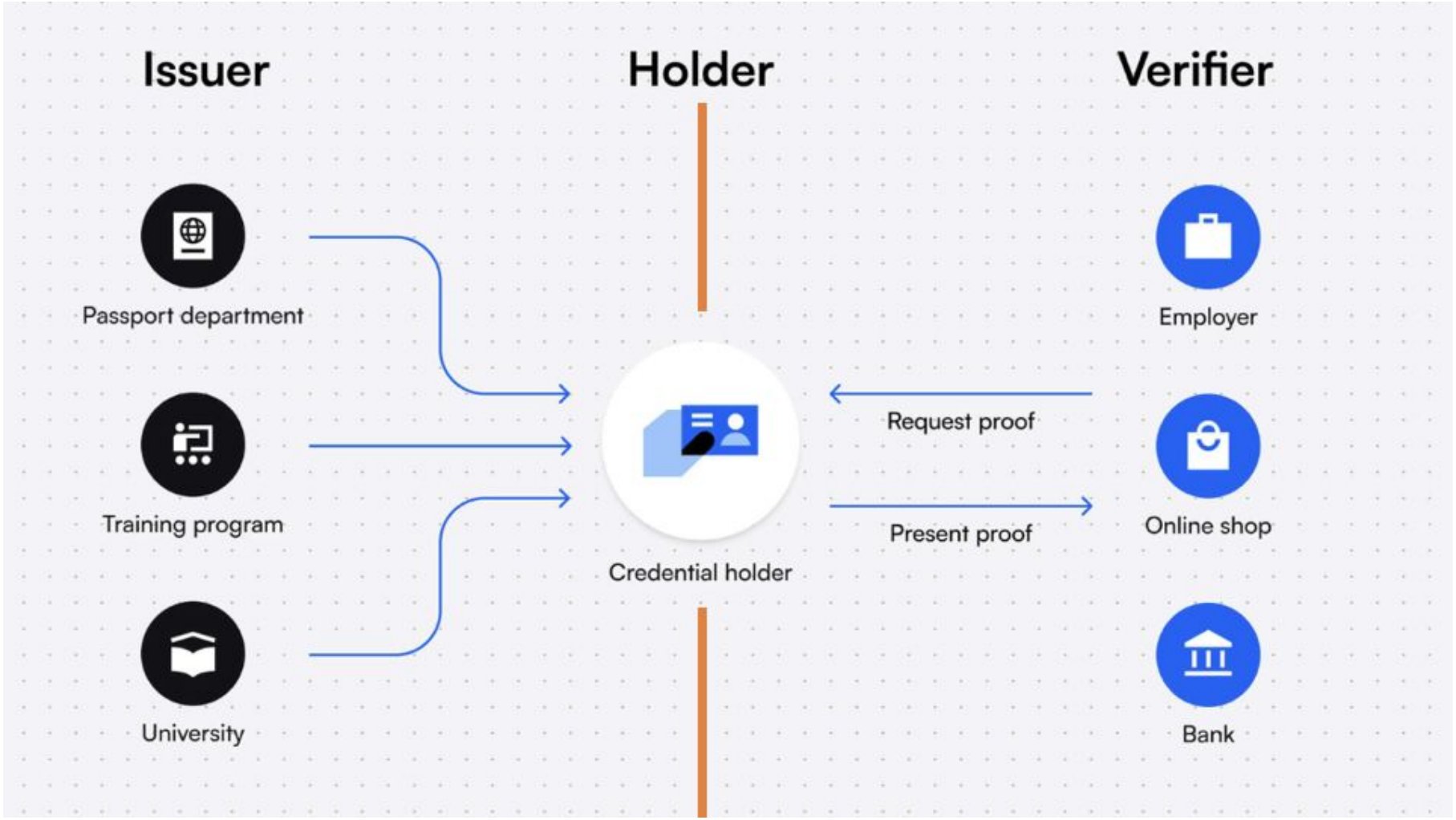
Sign in with GitHub

Sign in with Tumblr

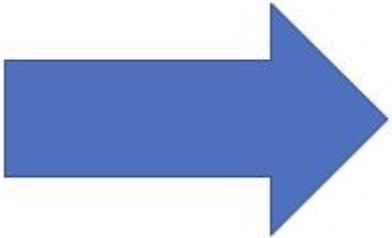
Sign in with Twitter

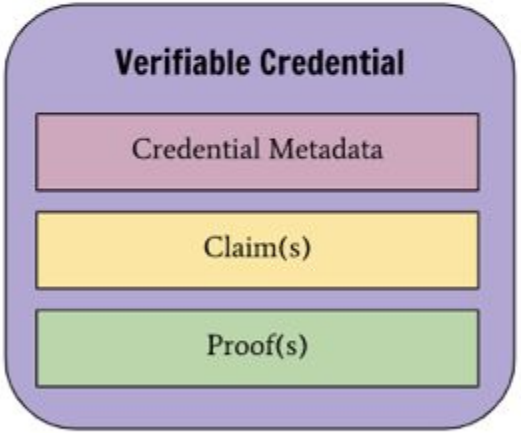
Connect Wallet

Self sovereign identity

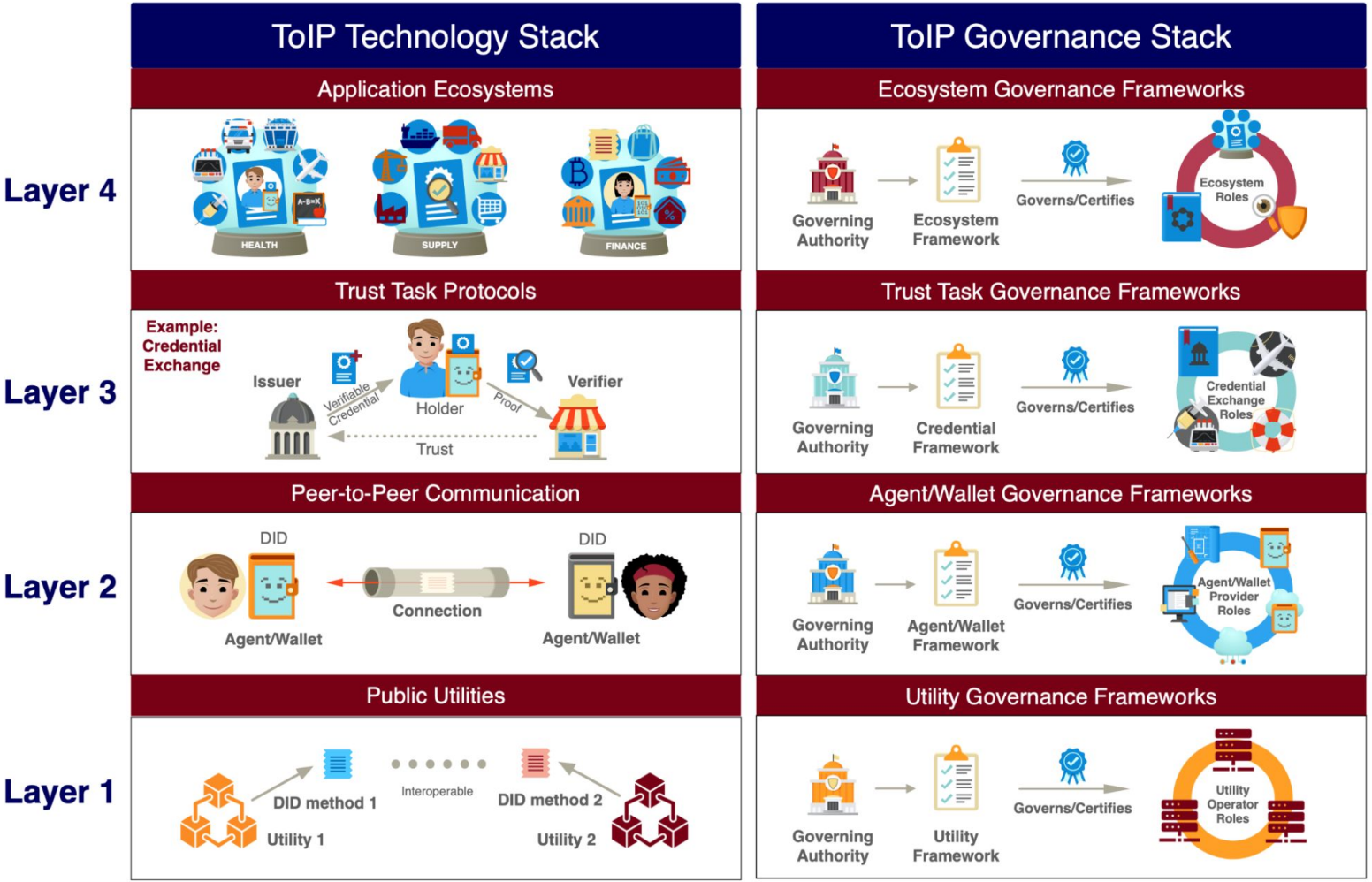

Issuer
Holder
Verifier
Passport department
Training program
University
Credential holder
Request proof
Present proof
Employer
Online shop
Bank

Hva er Verifiable Credentials





Vertical / Cross-Cutting
Application Layer (Use Case)
Sample Apps
TrustProg
Semantic Data Def
ActivityPub
schema.org
Open Badges
Learner Record
FWIB
Verticals
Education
Work Certificates
Social
Health
AuthN/AuthZ
WebAuthn (FIDO2)
OAUTH 2.0
OAUTH SIOP
OAUTH PS 0.3
OAUTH UP
Legend
Stable, Externally-known
Stable
Experimental or In-Progress
** = [better] citation needed! Comments or github issues welcome
Credential Layer (Verifiable Data)
Cred Format
OpenID Connect id_token
Open Badges
Verifiable Credential
Verifiable Presentation
Cred Proof
VC JSON-LD Proofs
VC-JWT
AnonCreds v1
AnonCreds v2 **
Cred Revocation
ESSIF OCSP/CRL **
VC Status Revocation List
AnonCreds v1
AnonCreds v2 **
ESSIF **
Cred Exchange
Aries Present Proof v2
Presentation Exchange
VP Request (CCG)
Credential Manifest
OIDC Credential Provider
Cred Binding
DID
OpenID Connect id_token
Link Secrets (CL-RSA / idemix) **
Disclosure/ZKP
AnonCreds v1 ZKPs
BBS+ signatures
Stark-Credentials
Compliance
eIDAS
CCPA
EPF
FISMA
GDPR
Secure, authentic peer-to-peer communication
Layer Interface
P2P-Communication
Proof / Signature Generation
Proof / Signature Verification
Key Access
Storage
Agent Layer (Communication, Storage, Key Management)
Envelope
JWM (IETF draft)
DID Comm v1
Self-Issued OpenID Connect Provider DID Profile v0.1
DID Comm v2 (JWM)
Transport
NFC
BLE
QR
HTTP
CHAPI
Control Recovery
Trayer BIP-39
Hierrow Protocol
SeedQuest
Fuzzy Vault
Universal Wallet CCG
DKMS
Shamir-secret recovery mechanisms
Key Operations
'Cloud' HSM
On-Prem/Local HSM (Hardware Security Module)
TEE chips
NFC, 'Smart Cards,' etc.
[Meta]Data Portabil
Universal Wallet CCG
Storage
'centralized' storage (MySQL, CouchDB, MongoDB)
IPFS
On-Chain (Proprietary)
Web Server (Proprietary)
Gaiid
Ceramic
Secure Data Store (SDS) = EDV v2 + Identity Hub v2
Semantic Containers
Data Formats
NOT AN EXHAUSTIVE LIST
JSON **
XML **
ASN.1 **
CBOR **
DID
DID Resolution
DID Dereferencing
Layer Interface
DID-Document Verification
DID-Document CRUD Interface
DID Document State
Storage
Public Trust Layer (Anchor)
DID Document
DID ECG 1.0
DID Core WG editors draft
DID Document ESSIF **
DID Scaling
Sidetree Editor's Draft
Sidetree v1.0
KERI
DID Methods/Ops *
NOT AN EXHAUSTIVE LIST
did:element
did:ethr
did:key
did:github
did:bicr
did:ion
did:sov
did:v1
DID [Doc] History
Revocable/Null DIDs **
Current-only State **
Queryable Historic States **
Anchor Types
Non-DLT consensus ledger (i.e. KERI)
Verso One **
Sovrin Network **
Bitcoin Mainnet **
DID Resolution
universalverja
DID Resolution
DID Dereferencing
Peer DIDs
DID-Anchored Svcs
Identity Hubs
EDV (Encrypted Data Vault)
Messaging Endpoint
Secure Data Store (SDS) = EDV v2 + Identity Hub v2
Timestamping
Proprietary
Open Timestamps
Crypto Primitives
NOT AN EXHAUSTIVE LIST
RS256
ES256
ES256k1



ToIP Technology Stack
ToIP Governance Stack
Layer 4
Application Ecosystems
HEALTH
SUPPLY
FINANCE
Ecosystem Governance Frameworks
Governing Authority
Ecosystem Framework
Governs/Certifies
Ecosystem Roles
Layer 3
Trust Task Protocols
Example: Credential Exchange
Issuer
Verifiable Credential
Holder
Proof
Verifier
Trust
Trust Task Governance Frameworks
Governing Authority
Credential Framework
Governs/Certifies
Credential Exchange Roles
Layer 2
Peer-to-Peer Communication
DID
Agent/Wallet
Connection
DID
Agent/Wallet
Agent/Wallet Governance Frameworks
Governing Authority
Agent/Wallet Framework
Governs/Certifies
Agent/Wallet Provider Roles
Layer 1
Public Utilities
DID method 1
Interoperable
DID method 2
Utility 1
Utility 2
Utility Governance Frameworks
Governing Authority
Utility Framework
Governs/Certifies
Utility Operator Roles

Microsoft's strategy for Decentralized Identity

Microsoft's mission is to empower every person on the planet to achieve more.

Microsoft cloud identity systems already empower developers, organizations, and billions of people to work, play, and achieve more, but there's so much more we can do can own so they can control their digital identity and data. This self-owned identity must seamlessly integrate into our daily lives, providing complete control over

NTNU
TV

Science and Technology

We are the Department's Science Advisor and research and development arm.

Since 2003, the Department of Homeland Security (DHS) Science and Technology Directorate (S&T) has provided sound, evidence-based scientific and technical perspectives to address a broad spectrum of current and emerging threats.

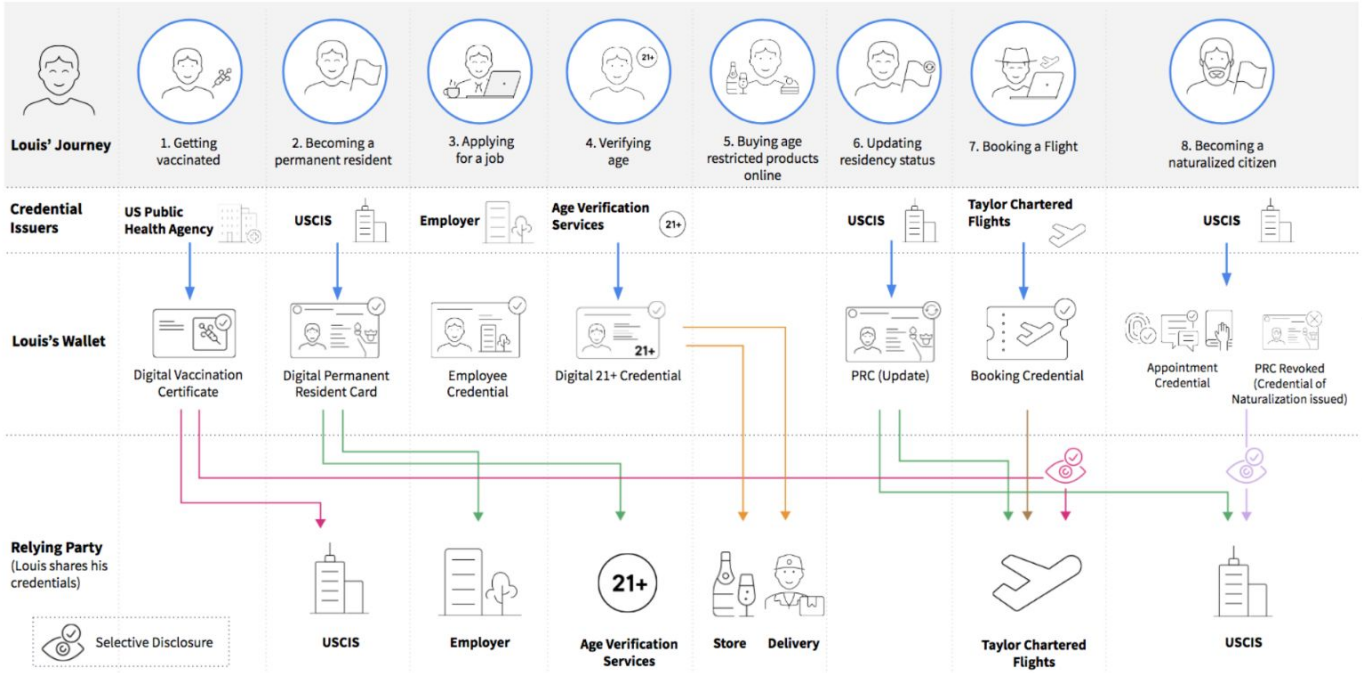
RESEARCHING FOR THE DHS MISSION

INNOVATING THROUGH TECHNICAL CAPABILITIES

COLLABORATING WITH A DIVERSE RANGE OF PARTNERS

DEVELOPING THE WORKFORCE OF THE FUTURE

DHS/U.S. Citizenship and Immigration Services >>
Need for Global Interoperability of US Immigration Credentials



- **Prioritizing privacy and security to ensure individual control and consent over use of data**
- **Equity and access with a bridge to paper to ensure no digital divide**
- **No expectation that everyone uses the same technology platform or vendor**
- **Interfaces between systems based on global, open, royalty free and free to use data and protocol standards that ensure multi-platform, multi-vendor, cross-border interoperability**

Solution Shaping and Delivery via Multi-Tracking Competitively Selected Performers

Digital Personal Credentials DHS/USCIS & DHS/PRIV

Danube Tech
Vienna, Austria
https://go.usa.gov/xsqdx

Digital Bazaar
Virginia, USA
https://go.usa.gov/xsqdC

MATTR
Auckland, New Zealand
https://go.usa.gov/xsqdr

SecureKey
Toronto, Canada
https://go.usa.gov/xsqd4
https://go.usa.gov/xsqdT

Digital Trade Credentials DHS/CBP

Mavennet
Toronto, Canada
https://go.usa.gov/xsqpe
https://go.usa.gov/xsqpz

Mesur.io
North Carolina, USA
https://go.usa.gov/xsqpJ

Transmute
Texas, USA
https://go.usa.gov/xsqph

The OpenWallet Foundation

Enabling a trusted digital future through interoperability for a wide range of wallet use cases.

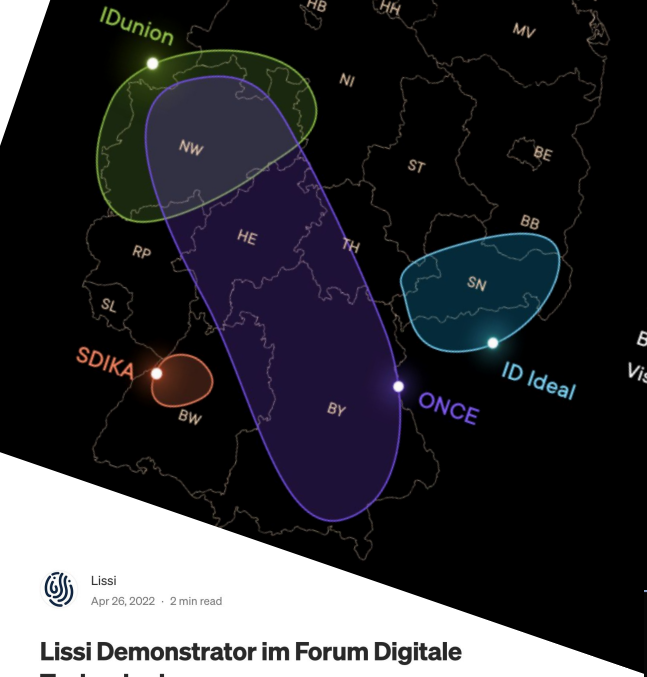
The Mission

The OWF is a consortium of companies and non-profit organisations collaborating to drive global adoption of open, secure and interoperable digital wallet solutions as well as providing access to expertise and advice through our Government Advisory Council.

Welcome to the NOBID Consortium

We are a set of Nordic and Baltic countries who, together with Italy and Germany, are developing a large-scale pilot for the payment use case in the EU Digital Wallet.

Get in touch



SECURE DIGITAL IDENTITY LIGHTHOUSE PROJECTS

- 4 consortia
- >70 use cases
- >100 participants (still growing)
- Timeline: 2021 – 2024
- State funding ~€60 million
- Budget overall ~€100 million
- Vision to build open SSI infrastructure

vc-ed

Verifiable Credentials for Education Task Force

View the Project on GitHub
w3c-cg/vc-ed

JFF & VC-EDU Interoperability Plugfest 2

August-November 2022

Participants List with Videos

Demo Event: November 14, 2022 (9 am Pacific Time) - Computer History Museum, Mountain View, CA, USA

The purpose of this event is to issue W3C Verifiable Credentials in the Open Badges v3 format and Decentralized Identifiers to wallets using protocols that are popular in the education and workforce ecosystem.

Kick-Off Meeting September 14, 2022

- Slides
- Zoom Recording passcode: 6U+e#p%M

- Requirements
- Participation Overview
- Frequently Asked Questions
- Example Badges
- Resources

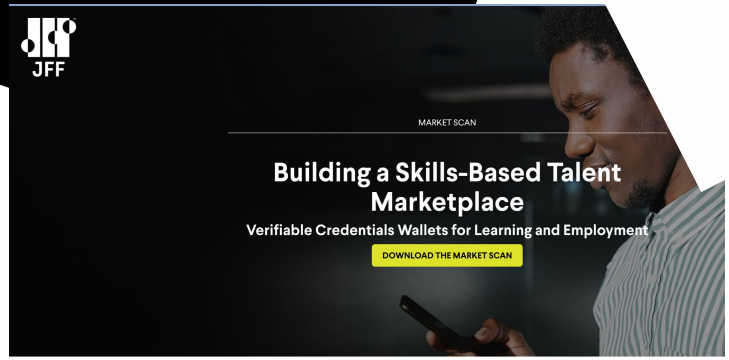
Requirements

Wallet Requirements

Lissi
Apr 26, 2022 · 2 min read

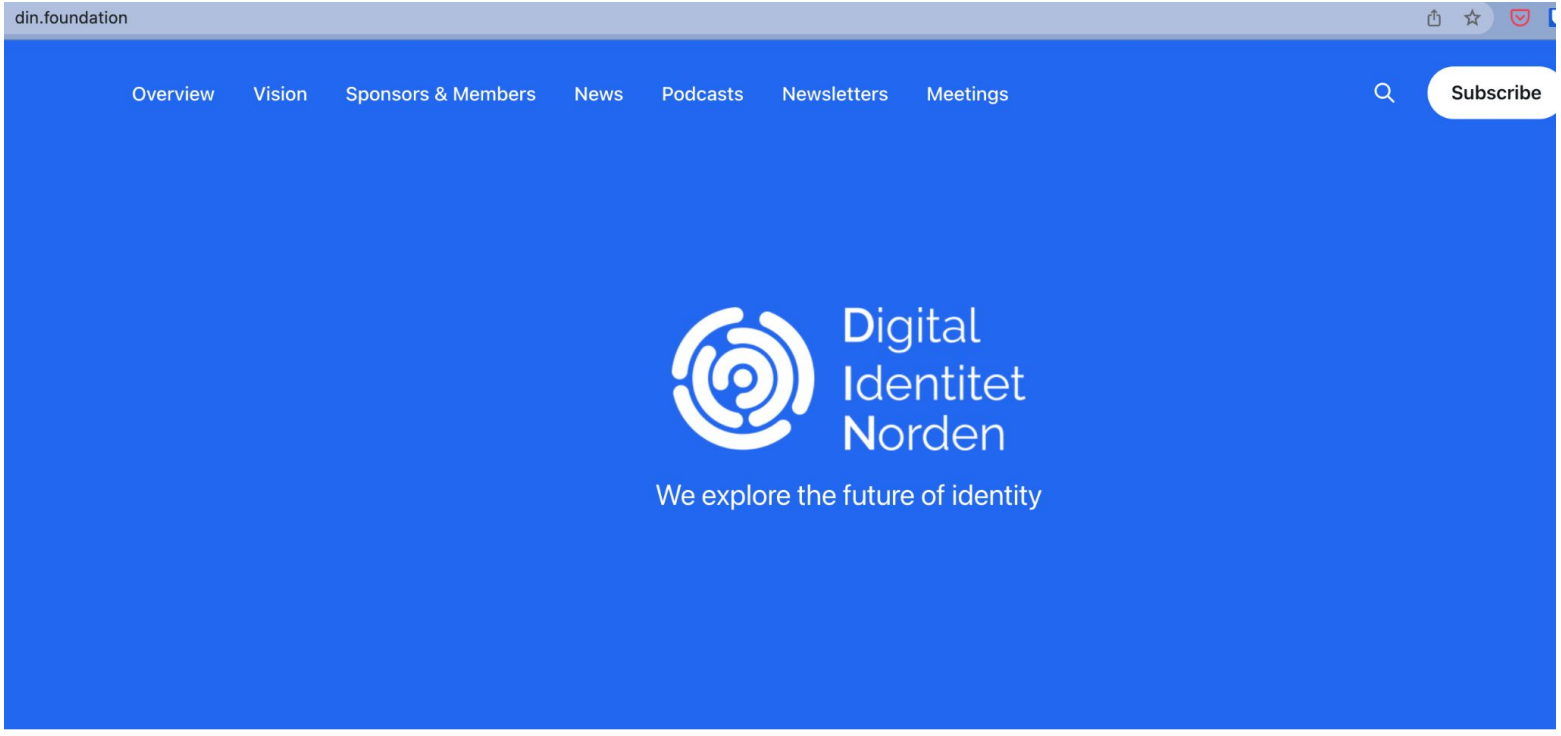
Lissi Demonstrator im Forum Digitale Technologien

Das Forum digitale Technologien beinhaltet nun die Lissi Demo.



Skills-based practices make pathways to good careers more accessible to a wider segment of the workforce by focusing on what workers can do, not on the degrees or certifications they've earned. The verifiable credentials wallets highlighted in this market scan give learners and workers the tools they need to communicate the totality of their skills and abilities and translate their achievements into future opportunities.

din.foundation



Letter

#4 Bi weekly updates

Vi ønsker at dere kommer med spørsmål underveis, scan for tilgang

Eller gå til
slido.com med kode **2626599**