

esatus SSI Intro 2020

Integrating Self-Sovereign Identity Into Your Existing Infrastructure

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What We Do



✓ Identity & Access



✓ Governance, Risk & Compliance



✓ IT Security



✓ Development Operations

Our Community Ecosystem



COVID CREDENTIALS INITIATIVE

The Sovrin Network

Public Permissioned
Blockchain/DLT

Hyperledger Indy

Open Source

Non-Profit
Organization



70+ Stewards
worldwide

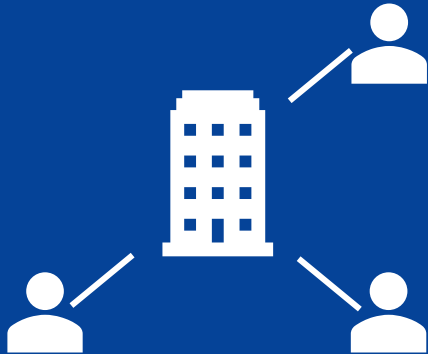
W3C Standards

Transparent
Governance

**Self-Sovereign
Identity**

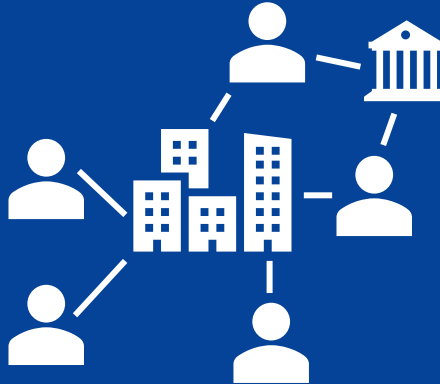
Our SSI Journey and Roadmap

Local use cases



Spread SSI in
large companies for I&A

Reach critical mass!



Interconnect legal entities
Simplify processes and landscapes
Make people enthusiastic about it!

Global use cases



International upscaling of SSI use
cases and infrastructure

SSI for Germany – Co-funded by German Federal Ministry of Economic Affairs (BMWi)

Consortium



BOSCH

Associates



FESTO

Ministerium für Wirtschaft, Innovation,
Digitalisierung und Energie
des Landes Nordrhein-Westfalen



BWI
IT für Deutschland



SIEMENS

Creditreform

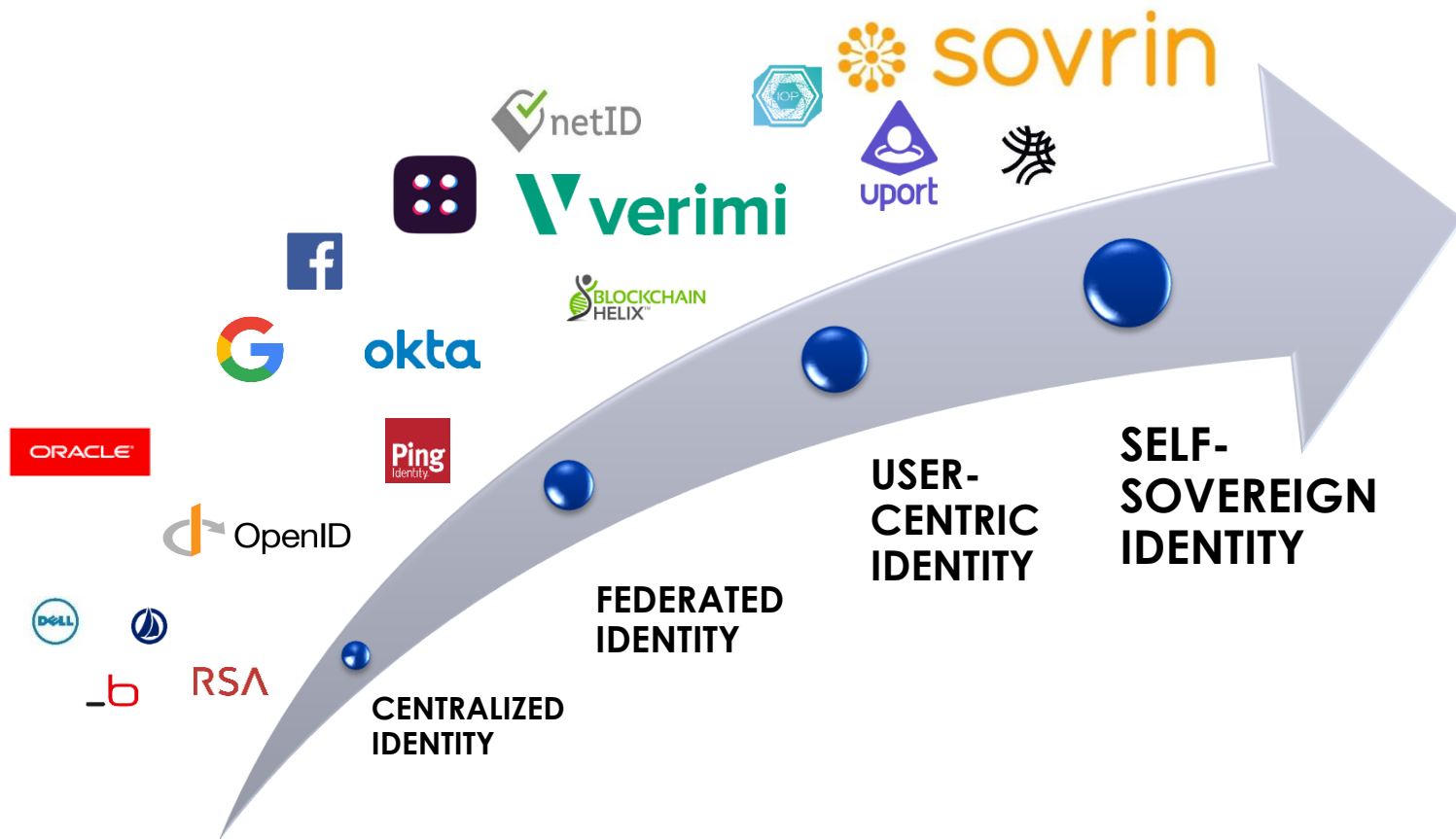
regio it



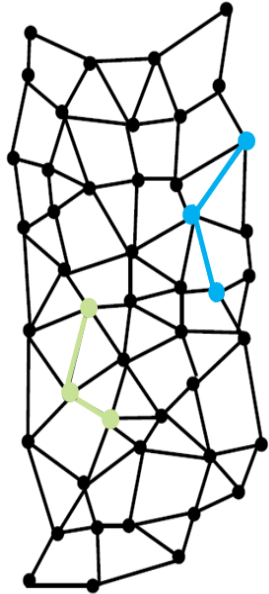
Supported by:



Evolution of Digital Identity



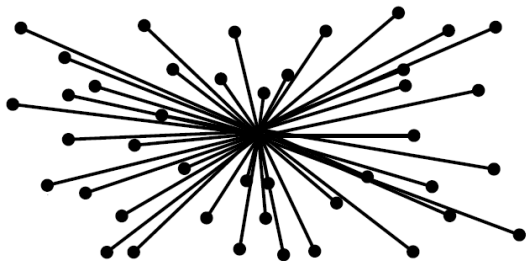
SSI delivers immediate connecting points for current IDPs and lifts integration potential



Self-Sovereign Identity

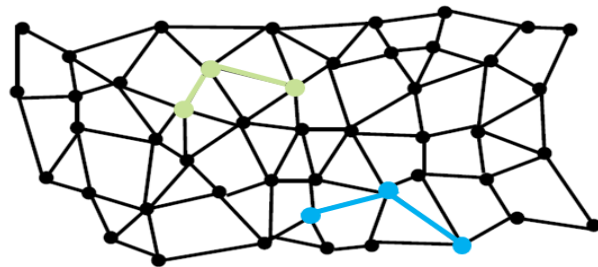
- ... is the ideal ecosystem to integrate any entity.
- ... easily integrates even entities which had no interaction before.
- ... delivers an integration fabric to represent real trust networks digitally.
- ... transports trust and passes it on digitally.
- ... offers trust service providers a platform for rendering their services globally (e.g. Verimi).
- ... flexibly adapts to domain specific requirements (e.g. "Know your customer"/KYC).
- ... uses existing standards and lifts them to a decentralized basis (e.g. PKI becomes DPKI).
- ... seamlessly integrates into grown and interwoven structures (e.g. LDAP group entitlement).

With dynamics and flexibility, SSI declares centralistic single points of failure obsolete



Centralistic PKI

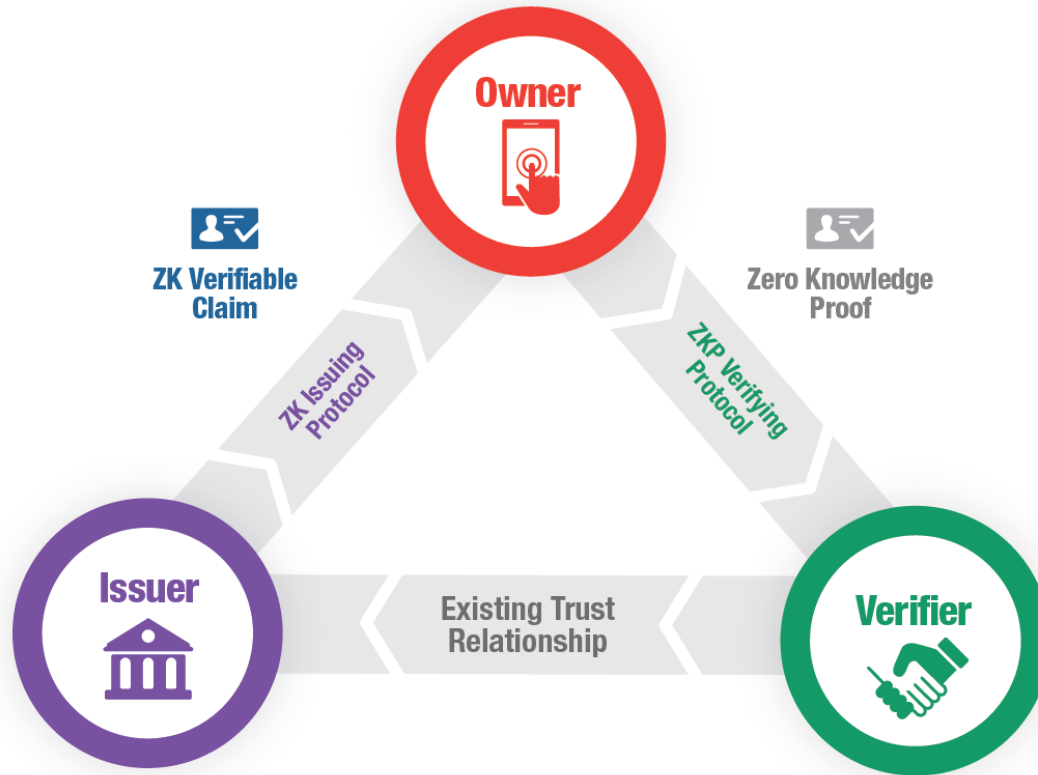
- Standardized method, global productive application
- Certificate Authorities (CAs) as trust providers
- Regulatory framework clearly defined
- Certificate content solidly defined (X.509)
- Central entity as single point of failure



Decentral flexible SSI network

- Any participant can define certificate schema
- “Verifiable Credentials” can be flexibly defined
- Anybody (!) can be issuer and verifier
- CAs and industry players already involved in SSI
- “DIDs” as World Wide Web Consortium (W3C) standard

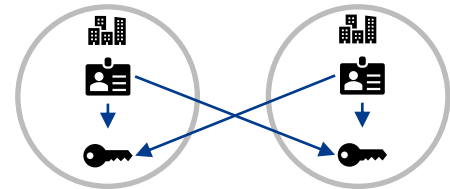
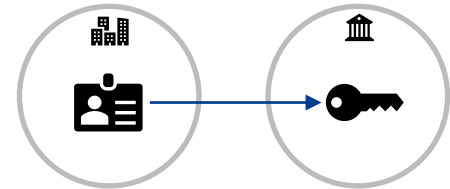
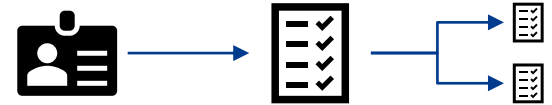
Trust Triangle and Verifiable Credentials



Source: Sovrin™: A Protocol and Token for Self-Sovereign Identity and Decentralized Trust - A White Paper from the Sovrin Foundation - Version 1.0 - January 2018

SSI Use Cases for Identity & Access

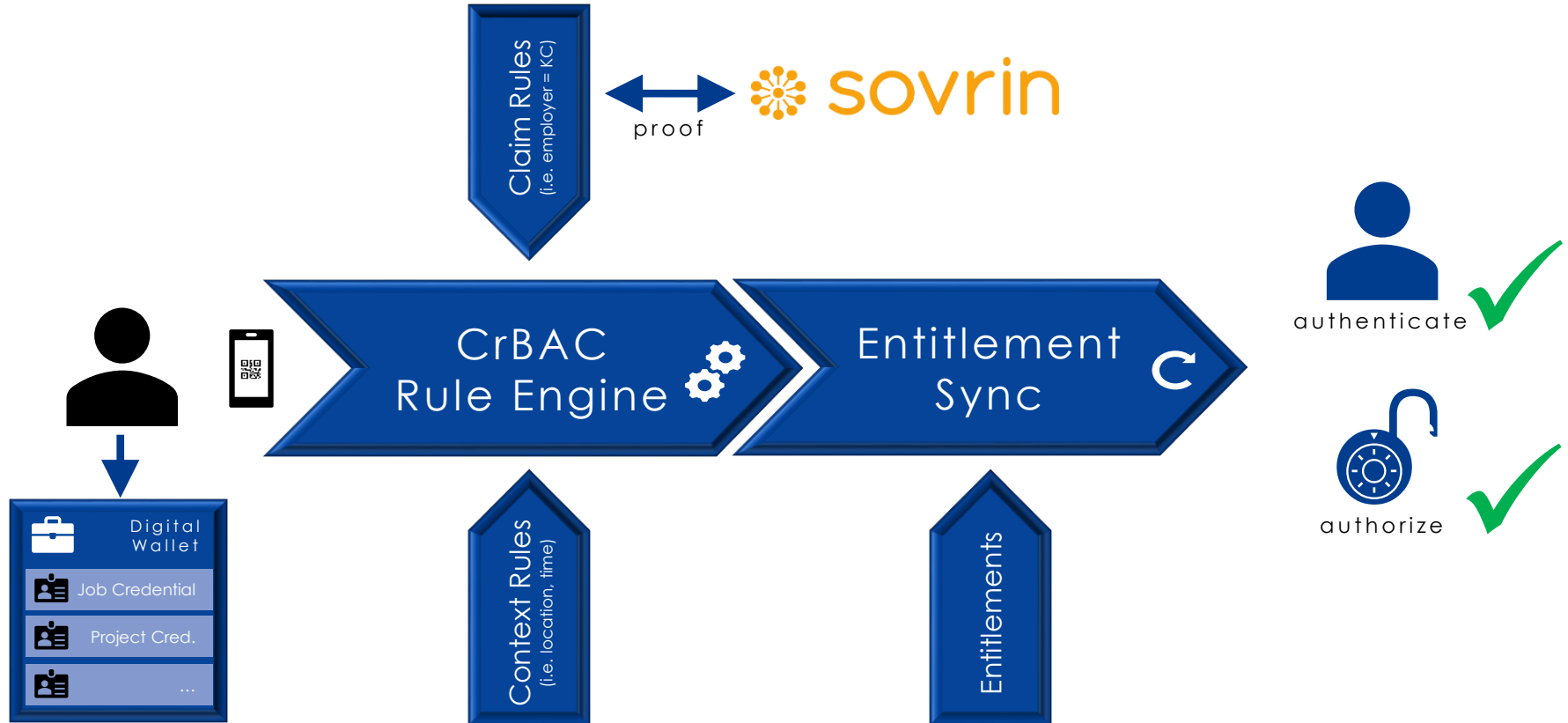
- Credentials lead to entitlements, also works for physical access
- Credentials as primary source for facts
- Use credentials externally
- Cross-organizational onboarding and entitlements



The Bridge between SSI and “Legacy”



SSI Rules! No Access Concepts, JML, Approvals



Roles of Credential Based Access Management



CREDENTIAL ISSUER

Assigns & revokes
credentials
HR / Project Manager / ...



APPLICATION OWNER

Manages APP
entitlements, config
& CrBAC rules



RULE MANAGER

Manages global
CrBAC rules




USER

Owens credentials &
answers proof
requests for signon

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