

# DANUBE

BUILDING BLOCKS FOR DECENTRALIZED IDENTITY



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# About

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The Company

# Danube Tech is a Global Pioneer

for (Self-Sovereign) Digital Identity Solutions (“SSI”).

## Standardization & Community

We are:

- engaged in standardization & identity / developer community for **+10 years**;
- **editor** of “Decentralized Identifier” Spec & Contributor of “Verifiable Claim” Spec (W3C);
- **Technical Gov. Board & Founding Stewards of SOVRIN**;
- **co-chair** at Decentralized Identity Foundation (DIF);

## Open Source Software

We:

- are supporting a variety of OS projects & have contributed **+500k lines of code**, with a focus on the SSI space;
- have already developed OS projects & libraries, which are **used by developers, corporations** (e.g. Microsoft) & **public sector projects** around the globe;

## Research & Development

We have:

- been **among the first to work & conduct research on SSI**;
- been involved in research **projects in EU, US, CAN**;
- are currently leading a research project focused on unresolved challenges in the field of **SSI & distributed applications** (“uApps”);

## Proof-of-Concepts, Consulting & Products

We:

- already worked with research institutions, public & private sector **clients globally**;
- offer consulting, R&D, software development services (e.g. PoCs);
- offer **interoperable SSI infrastructure solutions**  
*(e.g. DLT sandboxes; DLT-agnostic DID registration & resolution; DID Auth; Verifiable Credential issuance & verification, etc.)*

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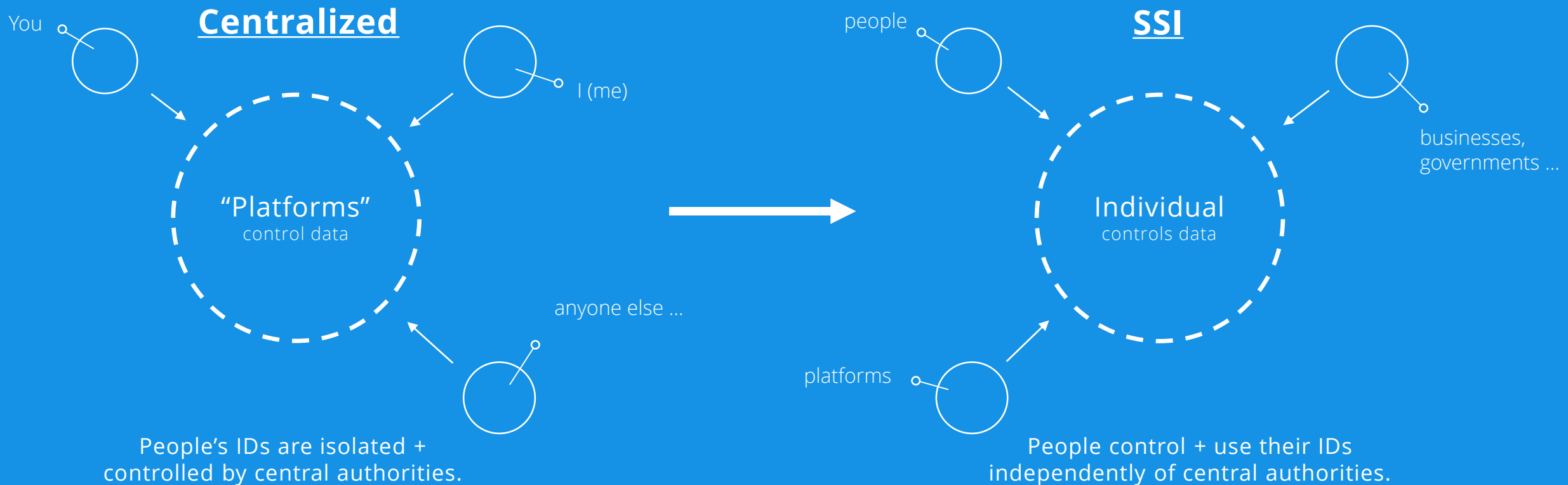
## **Intro**

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Self-Sovereign Identity

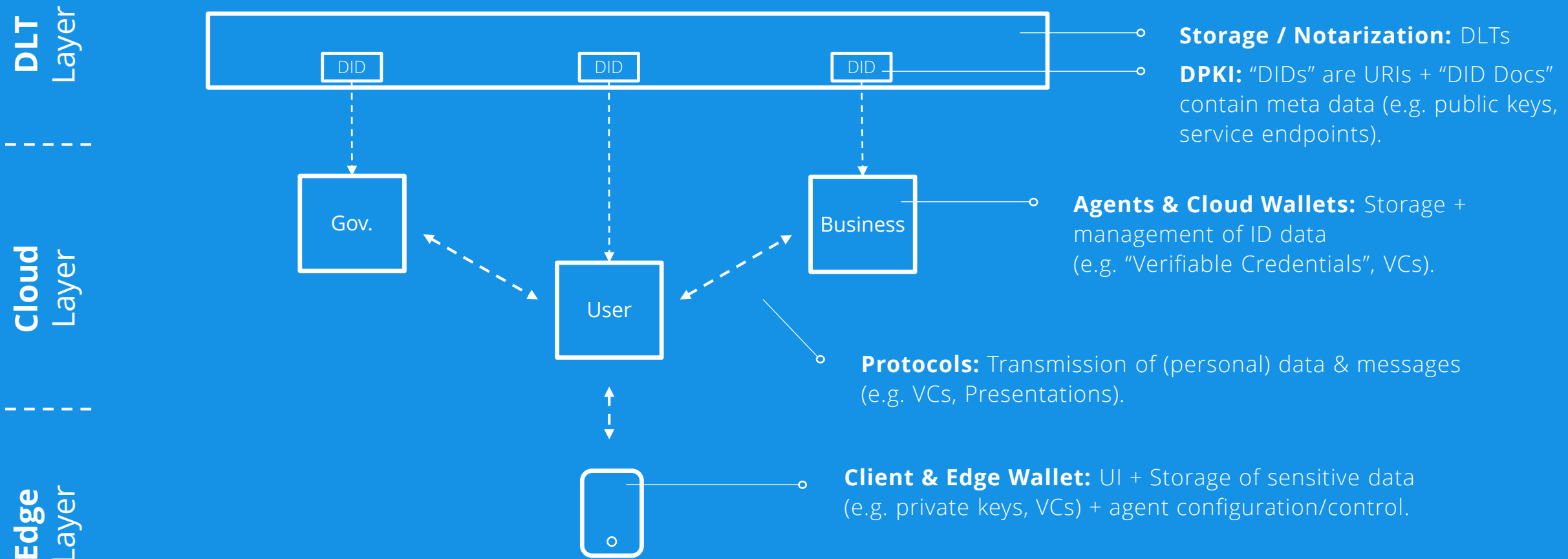
# Self-Sovereign Identity

a new, user-centric approach for (personal) data management.



# How it works

Introduction to the core concepts & architecture overview.



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## **Status Update**

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SSI Projects & Ecosystems

# SSI is gaining traction

new projects are emerging across sectors & industries

## Public Sector

**British Columbia & Ontario** (CAN)  
**TrustNet & FINdy** (FIN)  
**The Known Traveler** (NL)  
**Blockchain on the move** (BE)  
**City of Zug** (SWI)  
**Illinois** (US)  
**European Self-Sovereign Identity Framework - ESSIF** (EU)  
**Department of Homeland Security** (US)  
**Other projects** (non-disclosure)

## Private Sector

**CU Ledger** (US)  
**Alastria** (ESP)  
**Accreditation of Journalists** (GER)  
**IBM & Workday** (US)  
**PwC & Onfido** (UK)  
**GLEIF Network** (International)  
**myIDsafe/meine sichere ID** (AUT)  
**Other projects** (non-disclosure)  
**Learning Blocks** (US), **Tykn** (NL),  
**Truu** (UK)



## Example – Public Sector (EU)

### European Self-Sovereign Identity Framework (ESSIF)

**Who?** European Commission + European Blockchain Partnership (European member states, Liechtenstein, Norway) financed by the Connecting Europe Facility (CEF) Program.

**When?** Established in 2019. Finalization of phase 1 until Q1 2020.

**Why?** Facilitate cross-border interaction of identity data for citizens, organizations, and member states based on Self-Sovereign Identity.

**What?** Based on the European Blockchain Service Infrastructure (EBSI), technology is being developed together with reports and frameworks (non-technical) to support future use cases

**How?** Collaboration between groups of public sector representatives (EU, national), technology and industry experts, industry consortia, researchers (tech, law, economics, etc.).

## Example – Public Sector (EU)

### European Self-Sovereign Identity Framework (ESSIF)

#### Citizens

- full control over data;
- prevention of lock-in effects & enabling of free, consented data flow (i.e. data utilization in all digital interactions);
- enhancement of privacy & enforceability of rights;
- strengthening data security & data integrity;
- Facilitation of transactions & improving accessibility of digital services;
- Establish independence from single service providers;

#### Organizations (Public, Private)

- facilitate service delivery to citizens/customers,
- enable digitization/streamlining of processes;
- ensure regulatory compliance;
- eliminate data silos;
- give citizens/customer control over data;
- increase security (e.g. ID theft, document forgery);
- increase transparency;
- save time and money (e.g. administrative overhead, manual data processing);
- enable new business models (e.g. privacy-respecting data monetization);

## Example – Public Sector (US)

US Department of Homeland Security (SVIP)

**Who?** Department of Homeland Security via its “Silicon Valley Innovation Program

**When?** Started Q4 2019. Phase 1 until Q2 2020.

**Why?** Seek solutions that use Blockchain and distributive ledger technology to issue digital documentation in a way that prevents fraud, counterfeiting and forgery

**What?** Creation of solutions with continuous feedback cycles over four phases (from pilot to production) to solve specified public sector challenges.

**How?** Selected technology companies which are leading in their fields deliver technological solutions in cooperation with DHS and selected ministries / public sector bodies. Three (out of ten) companies from the SSI space.

## Example – Public Sector (US)

US Department of Homeland Security (SVIP)

### Identity Documents for Travel

- confirm identity of passengers at security checkpoint and ensure that identity presented on the digital document matches the one associated on a confirmed travel reservation.

### Tribal Identity Documents for Travel

- Tribal jurisdictions within the US have the authority to issue identity documents accepted for domestic air travel and other uses. Challenge to recognize, validate, and verify tribal documents.

### Identity of Organizations and Delegates

- responsibilities regarding supply chain security and intellectual property rights enforcement require knowing the identity of organizations and their delegates which are part of a supply chain.

### Citizenship, Immigration and Employment Authorization

- Responsibility to uphold nation's lawful immigration system and responsibility for the issuance of documentary evidence of citizenship, immigration, and employment authorization.

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## Contact

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... we're hiring !

# Get in Touch

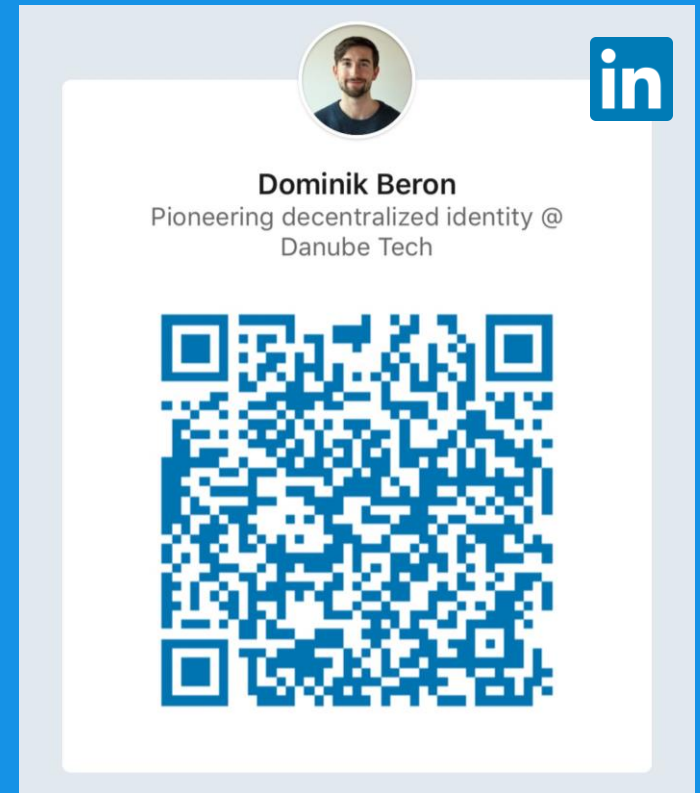


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**We're hiring !** Come talk to me or send me a message.



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# Offering

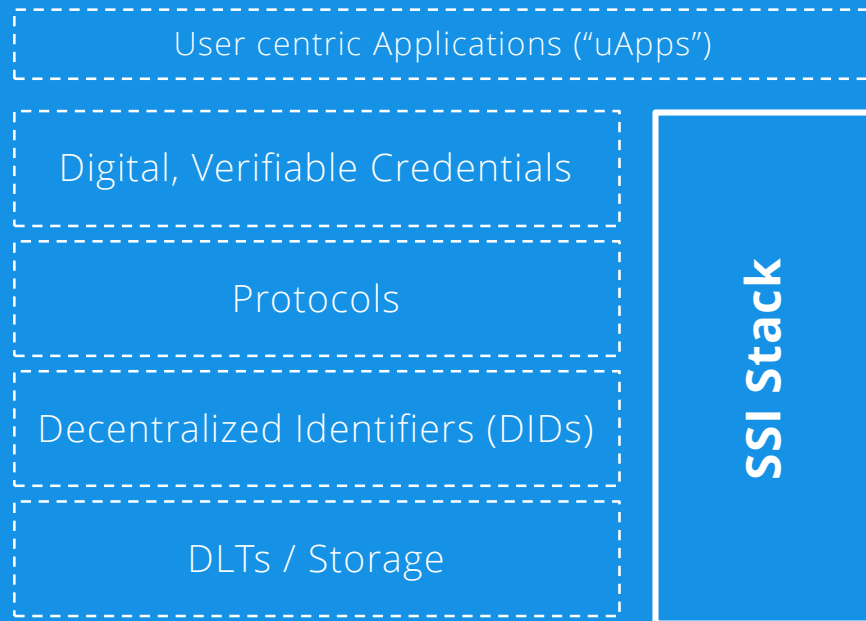
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Services & Products

# R&D Partnerships

We conduct R&D & offer SSI services & products:

## Overview



## Services & Products

**Research:** Decentralized Identifiers (DIDs), Decentralized Public Key Infrastructures, Verifiable Credentials, Protocols, Auth, Semantic Graphs, uApps, etc.

**Consulting:** Project planning, Technical Specifications, Data Models & Ontologies, Workflows, User Stories, etc.

**Software Development:** Proof-of-Concepts, Pilot Implementations, Open Source Libraries, etc.

**Products:** Modular & interoperable SSI infrastructure solutions for the whole SSI Stack (DLT & vendor agnostic).