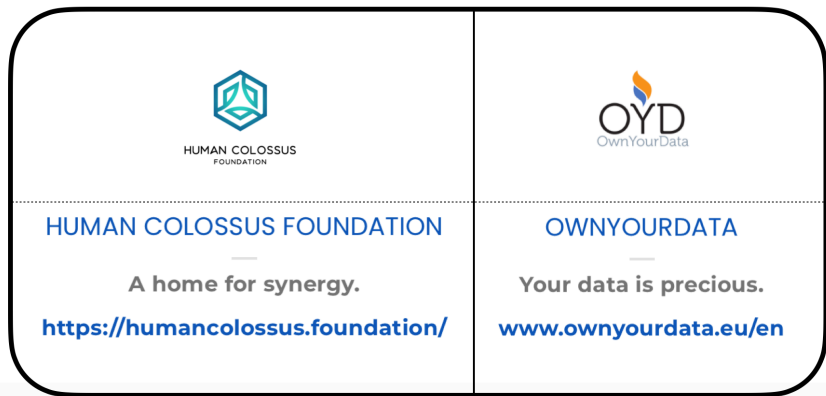


Early demo:
Digital Immunization Passport
(30 mins)

Presented by: R.Mitwicki/C.Fabianek

<https://dapsi.ngi.eu/hall-of-fame/dip/>

Digital Immunization Passport (DIP)



Currently, vaccination and immunization information are spread over different organizations like labs and hospitals as well as pharmaceutical companies together with government agencies. A patient usually only has a paper certificate that provides vaccination treatments with often difficult to read handwritten additional information. In our proposed solution we will develop an end-to-end data flow that:

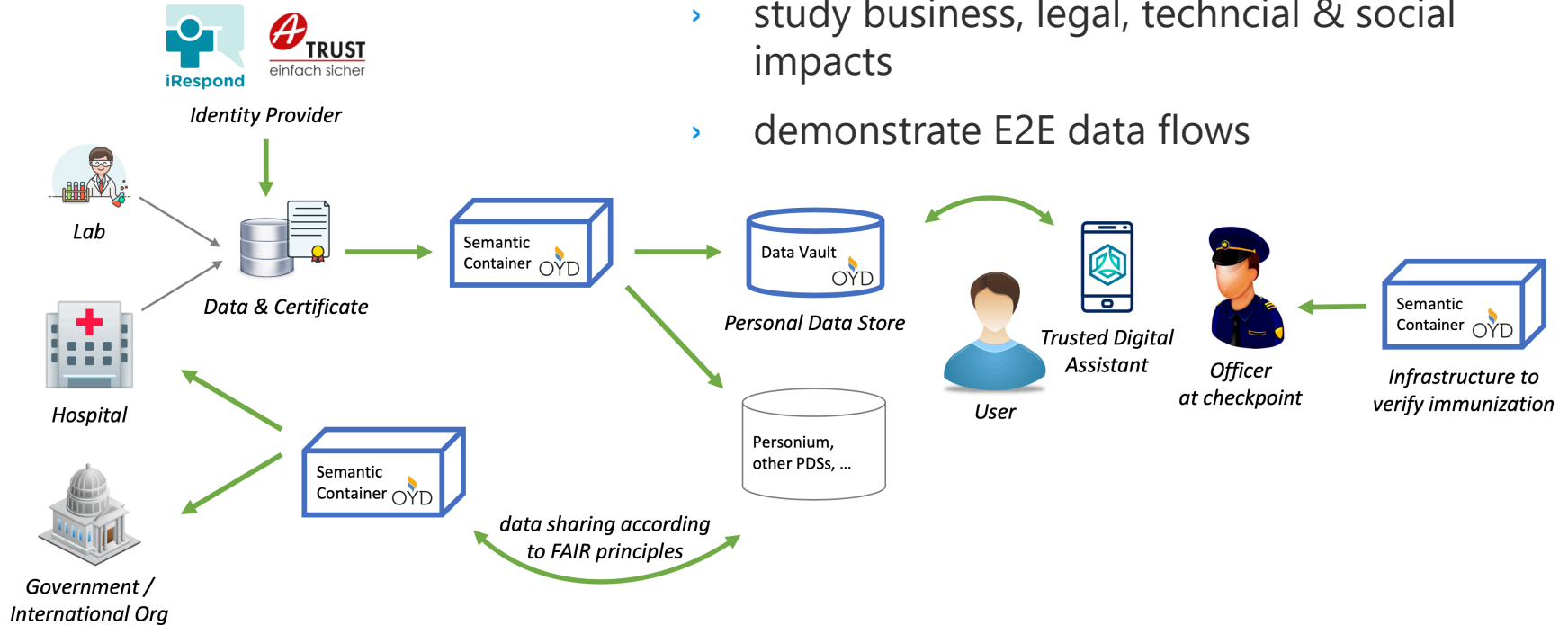
- connects to various immunization information providers,
 - aggregates, harmonizes, and semantically annotates the data,
 - makes this data-set available in an open format accessible for Personal Data Stores (PDS), compliant to the MyData Operator guidelines,
 - provide a human-centric data management platform for health information,
- allows to prove immunization status through Verifiable Credentials, and
- packages selected health data for processing by 3rd parties together with a well-defined usage policy and a provenance trail.

The main focus of this project is on Data Interoperability & Compatibility through establishing interfaces between health industry and individuals as well as pushing forward on standardized interfaces for PDSs. Additionally, we address Data Transparency (Usage Policies and Data Provenance in Semantic Containers) and Security & Privacy (by applying blockchain technology and digital watermarking on data sharing).

More information: <https://www.ownyourdata.eu/en/dip/>

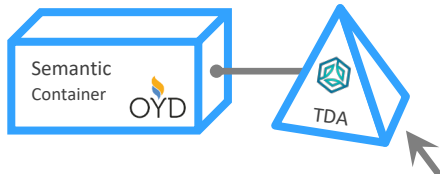
Yellow Fever Vaccination

- > well known immunization workflow
- > study business, legal, technical & social impacts
- > demonstrate E2E data flows



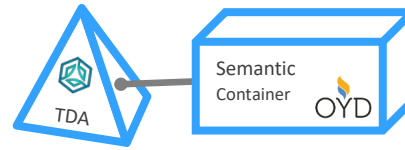
Architecture

Lab: Create VC



URL: <https://dip-clinician.data-container.net>
TDA: <https://clinician-agent.dip.argo.colossi.network/>

Checkpoint: Verify VC



URL: <https://dip-officer.data-container.net>
TDA: <https://officer-agent.dip.argo.colossi.network/>

Personal Data Store



URL: <https://data-vault.eu>
TDA: <https://patient-agent.dip.argo.colossi.network/>

Institution: Collect Data



URL: <https://dip-sharing.data-container.net>

Components



HUMAN COLOSSUS
FOUNDATION

- › **Trusted Digital Assistant (TDA)**

Based on the *Hyperledger Aries* toolbox, a **Trusted Digital Assistant (TDA)** is a user friendly interface for Dynamic Data Economy (DDE). It allows the user to manage his/her identity, data with consent, allows for decentralized interaction with other entities and services.



- › **Semantic Container**

Semantic Containers provide a standardized infrastructure for data provisioning and allow data providers to efficiently distribute data without giving up control over its usage while providing data consumers with efficient and well-managed mechanisms to obtain and integrate data in a trustworthy and reproducible manner.



- › **Data Vault**

Personal Data Store (*MyData Operator 2020*) for human-centric personal data management: open source, E2E encrypted, extensible through plugins, standard compliant, free online service available

