DECTS

ownYourData - *Christoph Fabianek*

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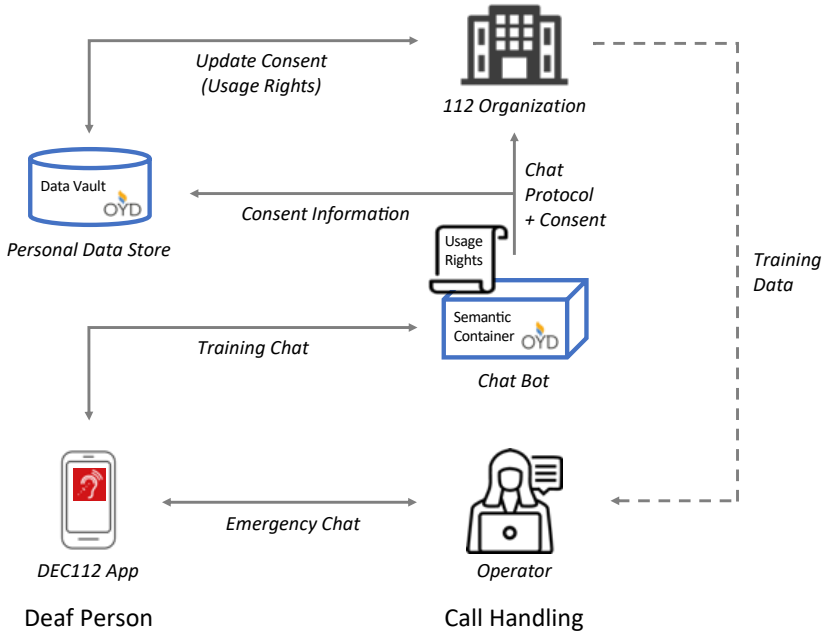
DEC112

Deaf Emergency Chat and Training System

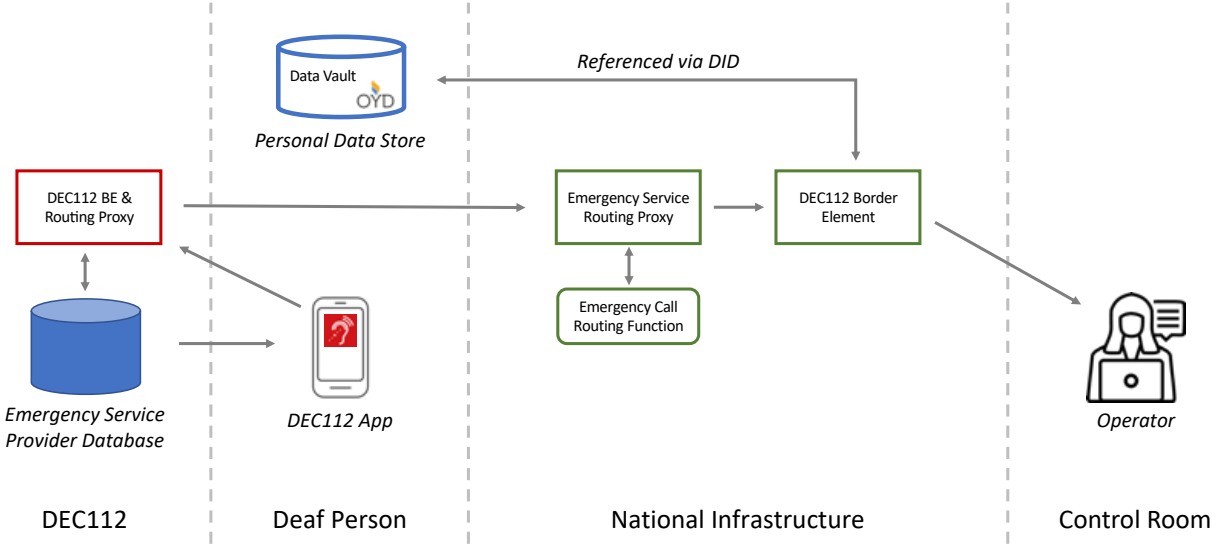
PROJECT

This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under the NGI Trust Grant Agreement No. 825618.

Generating Training Data



Purpose Based Data Sharing



Objectives

- Deploying consent management technology for sensitive data exchange
- Allowing purpose base data sharing during an emergency chat
- Rolling out the existing solution at the European level

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RESULTS & NEXT STEPS

- Project finished in September 2020
- Go-Live in Austria now (December 2020)
- Build on results in NGI DAPSI project for *Digital Immunization Passport*
  - data sharing
  - identity management and verifiable credentials

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Your data is precious.

Deep-Learning Smart-Enhance Mobile Application

SensifAI - *Dr Mohammad Hasan Bahari*

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Enhance Your **Memories**

Upscale and enhance your low-quality or old images and videos using artificial intelligence for a sharper and more detailed result.

Protect Your **Privacy**

Sensifai video/image enhancement app upscales your images/videos completely offline using the state-of-the-art deep-learning algorithm running on smartphone chipsets.

sensifai

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App Features

1.

On-Device App

The first video enhancement on-device app that improves the quality of your videos without internet connection and preserves your privacy.

2.

Video and Image

SensifAI uses a deep learning model to improve the quality of both your images and videos in three automatic, superresolution, and manual modes.

3.

Superresolution

Upscaling the resolution of your images/videos automatically without needing any effort from the user.

4.

Manual Improvement

Use the tools in the SensifAI app such as filters to change your images/videos to your liking.

Edge-TINC

Fluentic Networks Ltd - *Alex Tsakrilis*

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Horizon 2020 Programme
DG CNECT
Next-generation Internet

Edge-TINC Project

Dr. Yiannis Psarras – Director, Protocol designer

Prof. Dr. Dirk Kutscher – Network Architect

Mr. Alexandros Tsakrilis – Software Engineer

https://fluentic.gitlab.io/

Fluentic

Motivation & Objectives

Humongous Data	Demand for Instant Responses

SERVERLESS ARCHITECTURE

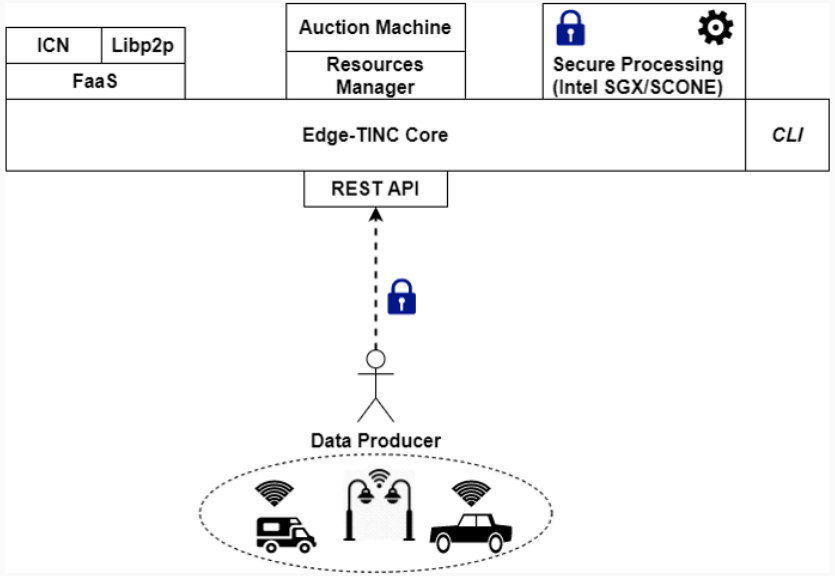
SECURE PROCESSING

RESOURCE ALLOCATION THROUGH AUCTIONS

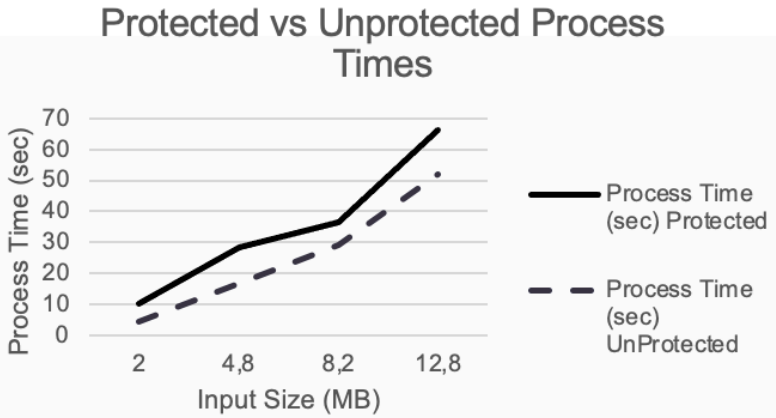
TASKS OUTSOURCING

A secure, distributed and orchestration Platform for the *Automotive Industry* at the network edge

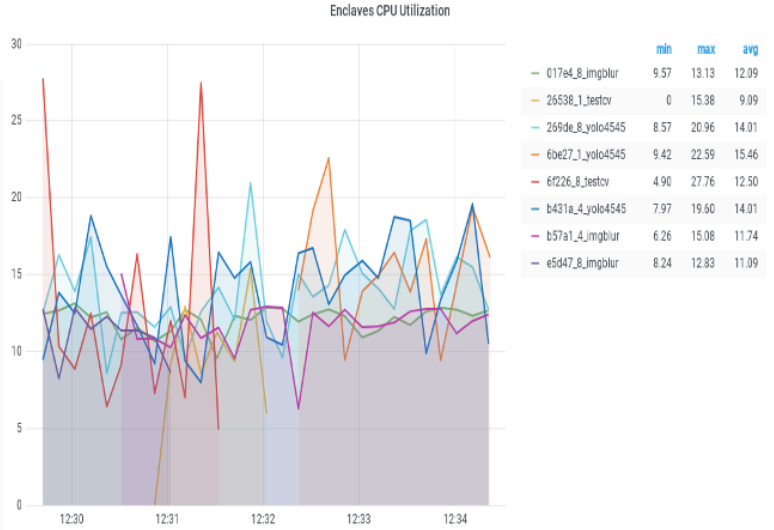
Results



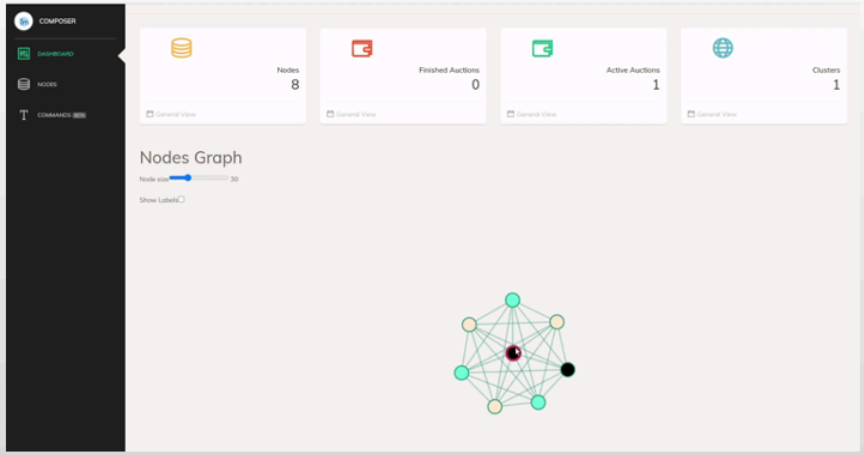
1. Modular system architecture



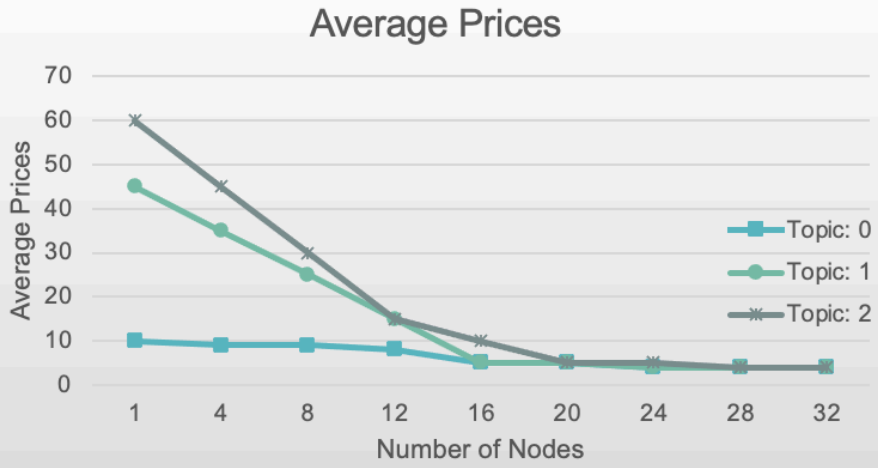
2. Secure processing with Intel SGX (SCONE [1])



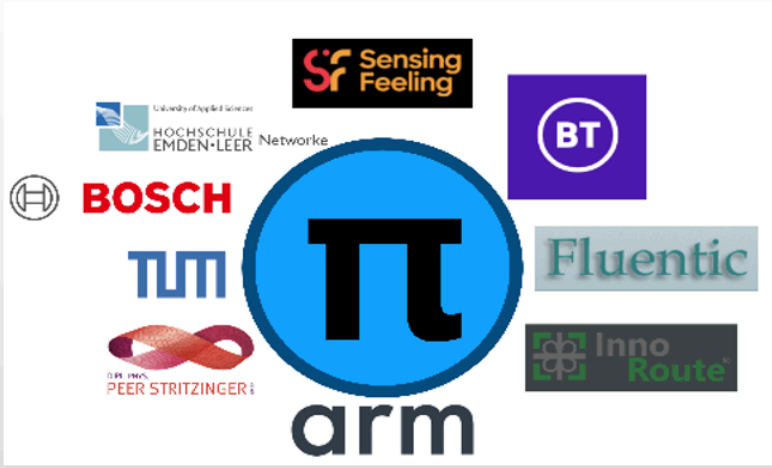
3. Live Resources chart using Grafana



4. Web-UI for infrastructure monitoring



5. Robust resource allocation [2]



6. Follow-up project: “Piccolo” [3]

References

1. https://scontain.com/index.html?lang=en
2. https://www.ee.ucl.ac.uk/~uceetas/publications/tasiopoulos2018edge.pdf
3. https://piccolo-project.org/

ISIBUD

Better Internet Search Ltd - *Gordon Povey*

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ISIBUD

Concept to:

- Achieve better web searches by focusing on the user and their privacy.
- Demonstrate the viability of a non-advertising revenue model.

Contribution:

- A unique human-centric privacy-preserving search engine where the user is the customer (not a product to be sold to advertisers)

Edinburgh Napier UNIVERSITY

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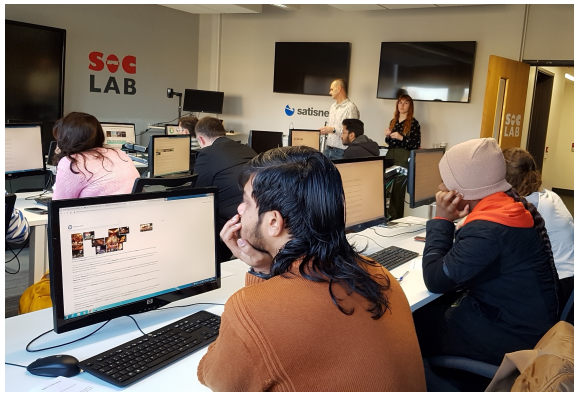
Development



Lab & remote user testing
User/test driven development

Alpha tests
200+ users since Oct 2019

Results

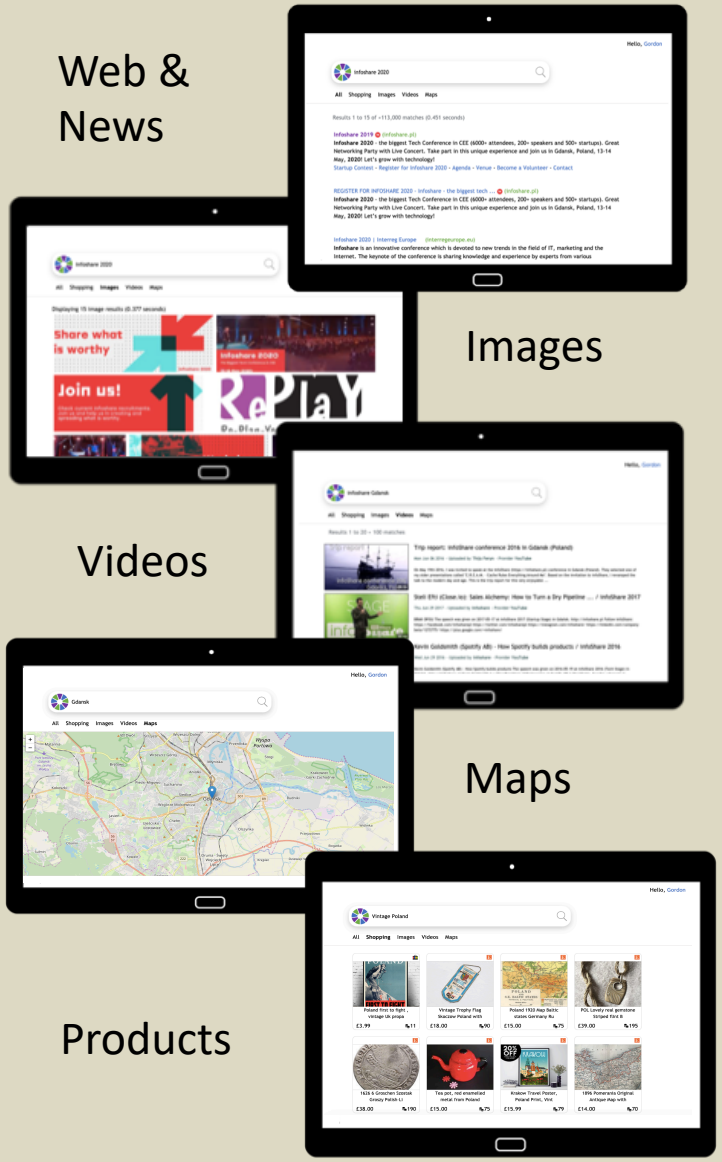
Web & News

Images

Videos

Maps

Products



Next steps

- Grant funding
- Crowdfunding
- Equity investment
- Partnerships

PARTISIA

INDIEGOGO

Beta – 1st October 2020 – 100 users
Launch – 22nd December 2020

MyPCH

Diabetes Service ApS - *Jan Leindals*

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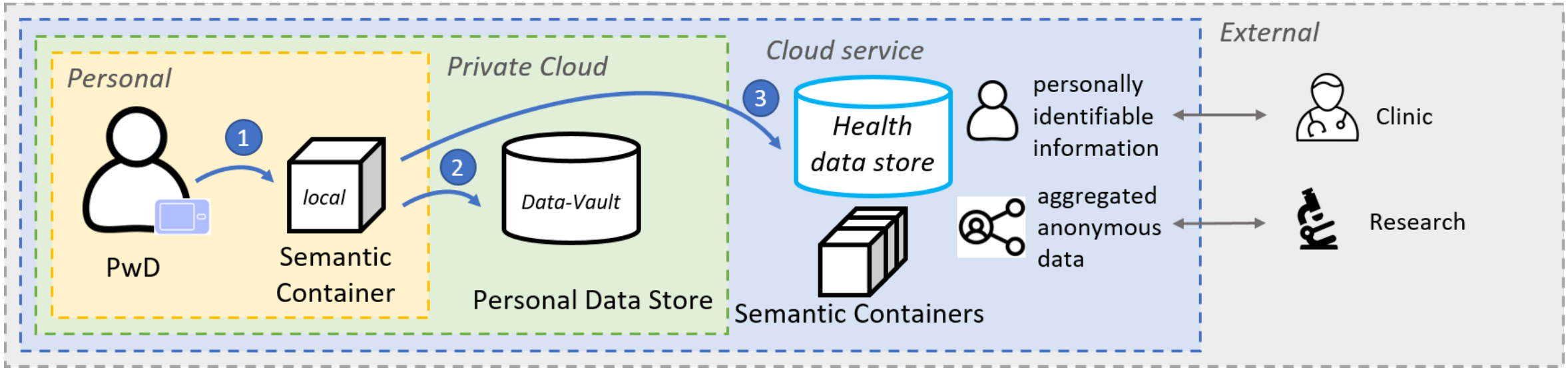
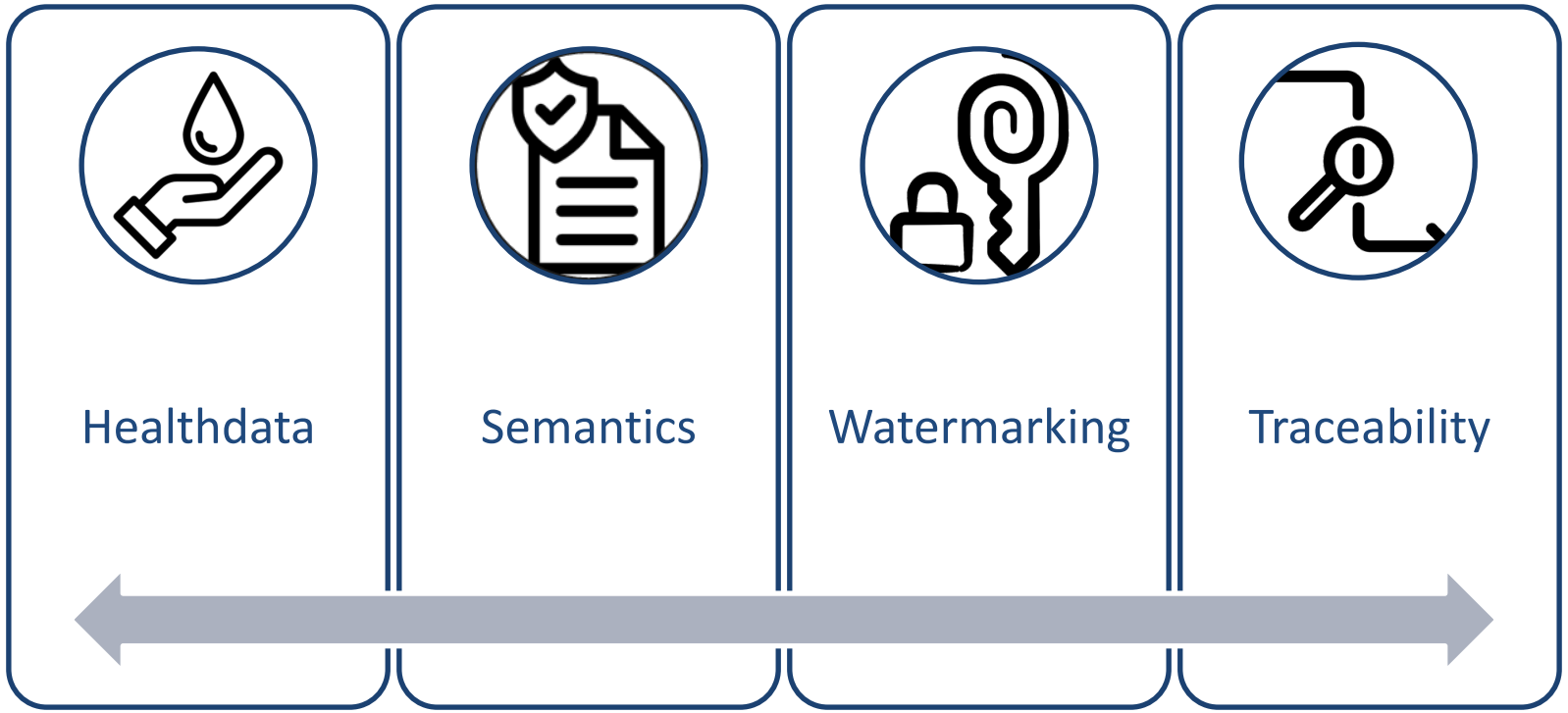
MyPCH – the project



MyPCH – Results and next steps



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Danish Diabetes Association
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MyData Operator 2020

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