



EgenData

proposal for a Swedish
Human Centric Data Infrastructure

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Mission

Build a coherent data infrastructure¹
enabling individuals to access personal
information in public agencies and share it
with third parties, whether public or private.



1) Originally infrastructure scope was limited to the 'competence and lifelong learning', however data domain was not defined making it difficult to impose case specific controls.

What is a Human Centric Data Infrastructure?



It is a digital infrastructure to **access and move data** that puts the individual at the driving seat.

The intent of this infrastructure is to **maximize the individual's control**¹ over a **subset**² of personal data

1) Neither GDPR nor DGA define ownership of personal data.

2) Not all personal data will be made available through the infrastructure (e.g., individuals with protected identities, etc.)

Why is it important?

- Increase **effectiveness** of GDPR and DGA through technical solutions
- Increase **transparency** on how data is used
- Incentivize **digital self sovereignty**
- Push **government digitalization** and provide better services to individuals and the private sector
- Boost **innovation** and incentivize **competition**
- Fulfil the EU Strategy of creating a **single market** for data exchange

Core Pillars

Put the individual at
the center to
maximize control

Develop an MVP
to consider Service,
Tech, Legal and
Governance issues

Keep data distributed by
creating personal data
spaces at source

Allow single “*Entry point*”
to facilitate access to
services and data

MVPs



Insurance case – Simple certificate exchange

An individual requests a certificate from a public agency and shares it with the private company.

Additional requirements: *The client needed an additional messaging / notification service allowing them to communicate with the individuals regarding the exchange.*



Internship program – Aggregation of data points and exchange

An individual collects information from both public and private sources and shares it with another agency for the creation of an authorization certificate.

Additional requirements: *Some clients were not able to interact with our solution leading us to consider creating connectors and onboarding tools*

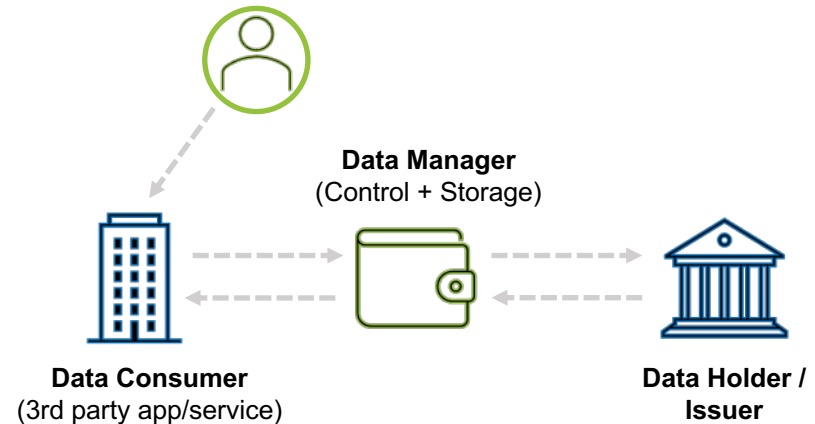
First Concept

Wallet like solution

Data requested from and stored into a wallet-like app before been shared with the Data Consuming application

Key Insight:

Concentration of citizens" data within a single entity (public or private) would not be welcomed due to perception, trust and security risks;



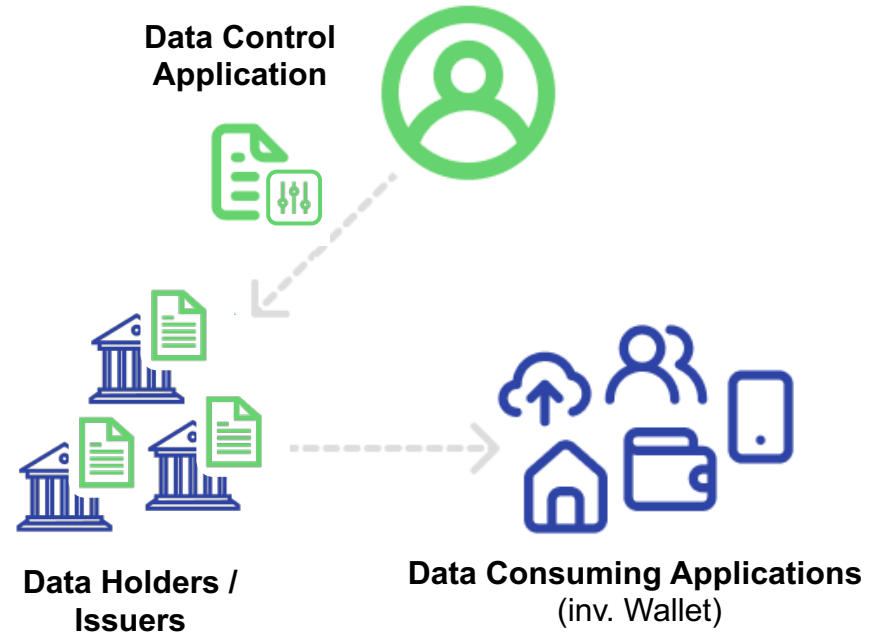
Second take

Distributed Data

Data kept at source but accessed and controlled via external application(s)

Key Insight:

- Multiple 'Control apps' decrease usability and access (individuals do not know who holds what data)

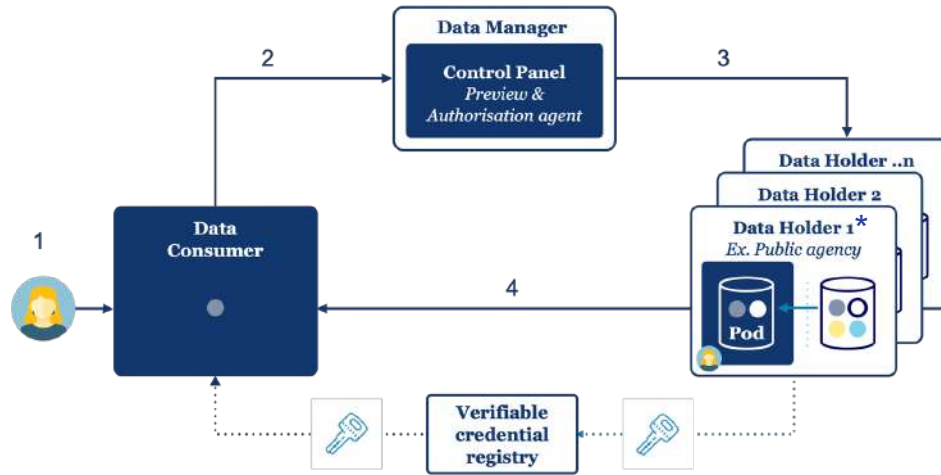


Other insights (on data)



- Not all data can be made available to the individual
- Public agencies do not share from core systems
- Some data is not readily available and requires processing time
- Without continuous sharing, revocation of consent is meaningless
- The validity of some data points can expire
- Data won't be deleted at source
- Data will most likely be copied at destination (at least in the short term)

General Configuration



1. The individual goes to the data consumer/service provider's website to receive the desired service
2. The data consumer/service provider prepares a data request and redirects the individual to their control panel
3. After identification, the individual gets access to the Personal Data Space within the data holder and reviews the requested information
4. Once satisfied, the individual grants the data consumer/service provider access to the data and to the certificate of authenticity

* The Data Holder will create a separate environment (Pod) for each individual and will retain the power (according to the law) to decide what information to copy there. Data holder can also decide if the connections between main system and individual pod is continuous or on-demand per data point.

Use cases

Edge

- Track progress of citizenship application
- Allows delegation of authority and Agency to Agency exchanges
- Share new address with multiple parties at once

Advanced

- Control data access to advertiser or developers
- Share IoT data usage with machine vendors
- Share depersonalized data for AI training





MVP Code (wip)

gitlab.com/arbetsformedlingen/individdata/EgenData



Contact

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