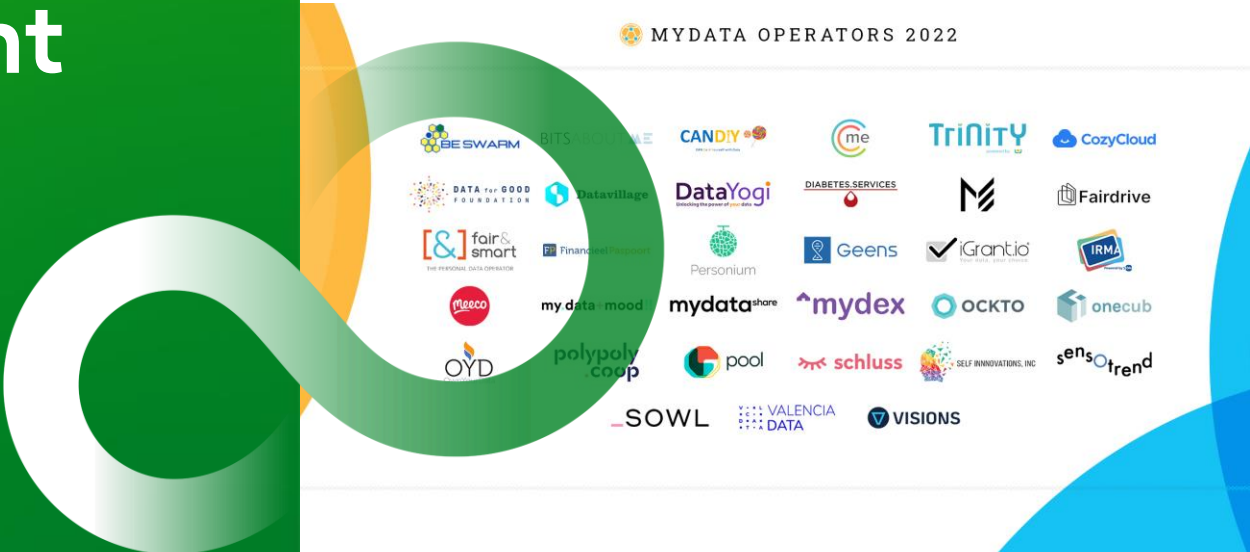


Personal Data Empowerment with Personium

June 20, 2022
Japan Global Gateway
Advanced Technology
Leading
AI / Data Utilization G

MYDATA OPERATORS 2022



- Fujitsu Limited (Japan)
 - SDG 9 Enabler
 - INDUSTRY, INNOVATION AND INFRASTRUCTURE
 - Personium Chief Evangelist
 - Ethical Personal Data Solution Consultant

- MyData Global Community
 - Board Member since 2021
 - Steering Committee Member 2021
 - Co-leading projects on children data protection, global south personal data empowerment, etc.



Dixon Siu
(he / him)



Fitness tracking app Strava gives away location of secret US army bases

Data about exercise routes shared online by soldiers can be used to pinpoint overseas facilities

- **Latest: Strava suggests military users 'opt out' of heatmap as row deepens**



▲ A military base in Helmand Province, Afghanistan with route taken by joggers highlighted by Strava. Photograph: Strava Heatmap

37%

37% of consumers say that lack of trust is an obstacle to using digital services. Companies have not invested in trust as a way to stand out.⁵

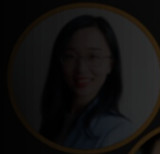
MyData Global

The core idea is that individuals should be **in control of the data about themselves**.

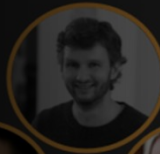
The MyData approach aims at Strengthening **digital human rights** while opening new opportunities for businesses to develop innovative **personal data-based services** built on mutual trust.

MyData Global Board of Directors 2022

Lucy Yang



Christoph Fabianek



Charlie Martial Ngounou



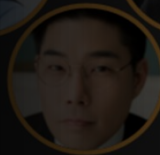
Paula Bello



Dixon Siu



Chris Lee



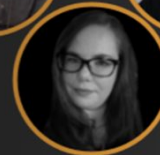
Marlies Rikken



Antti 'Jogi' Poikola



Viivi Lähteenoja



MyData vision



The core idea is that individuals should be **in control of the data about themselves**.

The MyData approach aims at strengthening **digital human rights** while opening new opportunities for businesses to develop innovative **personal data-based services** built on mutual trust.

Fair, sustainable and prosperous digital society

Through a human-centric approach
to personal data

Fair, sustainable and prosperous digital society through a human-centric approach to personal data

People get value from their data and set the agenda on how it is used.



For **organisations**, the ethical use of data is always the most attractive option.

Fair, sustainable and prosperous digital society through a human-centric approach to personal data

People get value from their data and set the agenda on how it is used.



For organisations, the ethical use of data is always the most attractive option.



FROM FORMAL TO
ACTIONABLE RIGHTS



FROM DATA PROTECTION TO
DATA EMPOWERMENT



FROM CLOSED TO
OPEN ECOSYSTEMS

Global Trend

API ecosystem model



Personal control but low integration.

Platform model



Integration but low personal control.

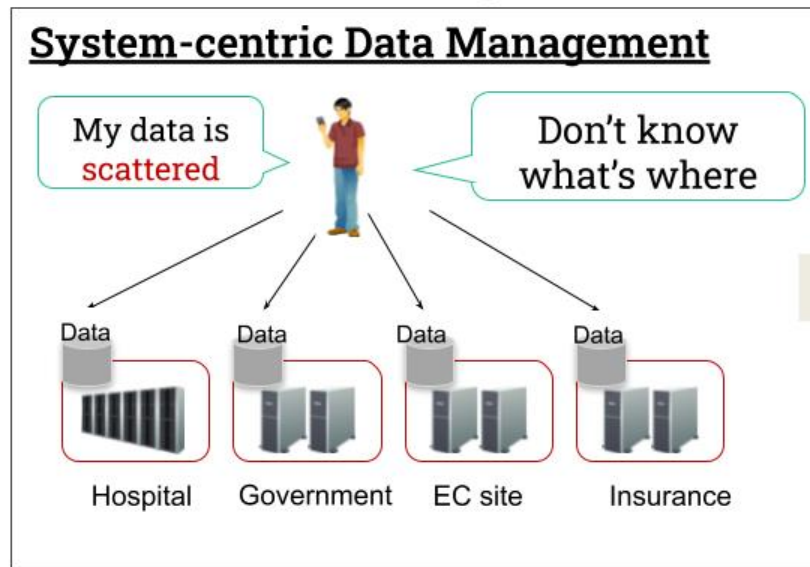
MyData operator model



Highly integrated with full personal control.

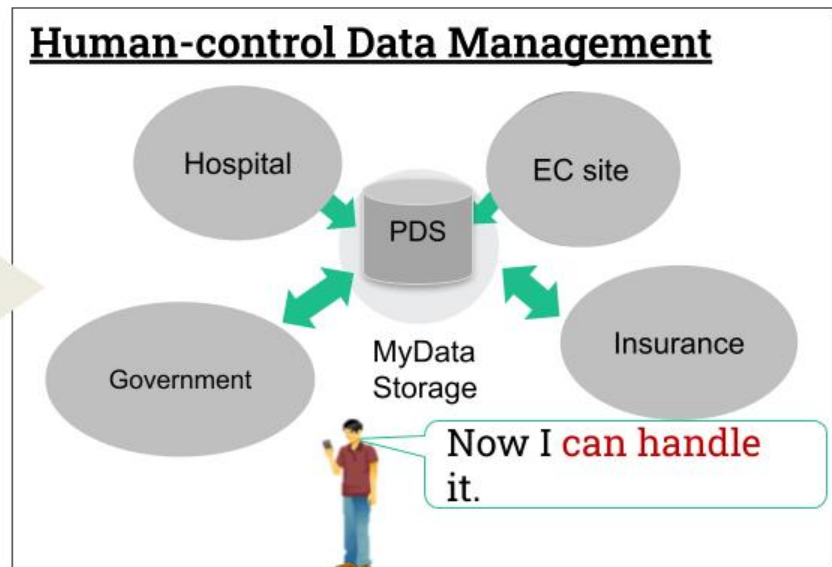
- Shift data management from System-centric to Human-control

System-centric Data Management



- ✓ Systems have been built in order to **automate businesses**.
- ✓ As a result, our personal data are separately stored in **silos**.

Human-control Data Management



- ✓ Everyone holds his/her own data store and services read/write on it.
- ✓ Your data can be utilized **freely** beyond the boundary of services, solely upon your **own will**.


Personal Data Utilization



Public
Workflow Reduction



Healthcare
Improved Wellbeing



Finance
Streamlined Proposals




Distribution & Logistics
Reduce Re-delivery Cost



Others
SDGs: Digital ID for indigenous person



Manufacturing
Better Decisions to benefit end-users



Tourism
Sightseeing Recommendation



Sports
Improve performance



Education
Diploma & Skill Data Sharing for Job Matching



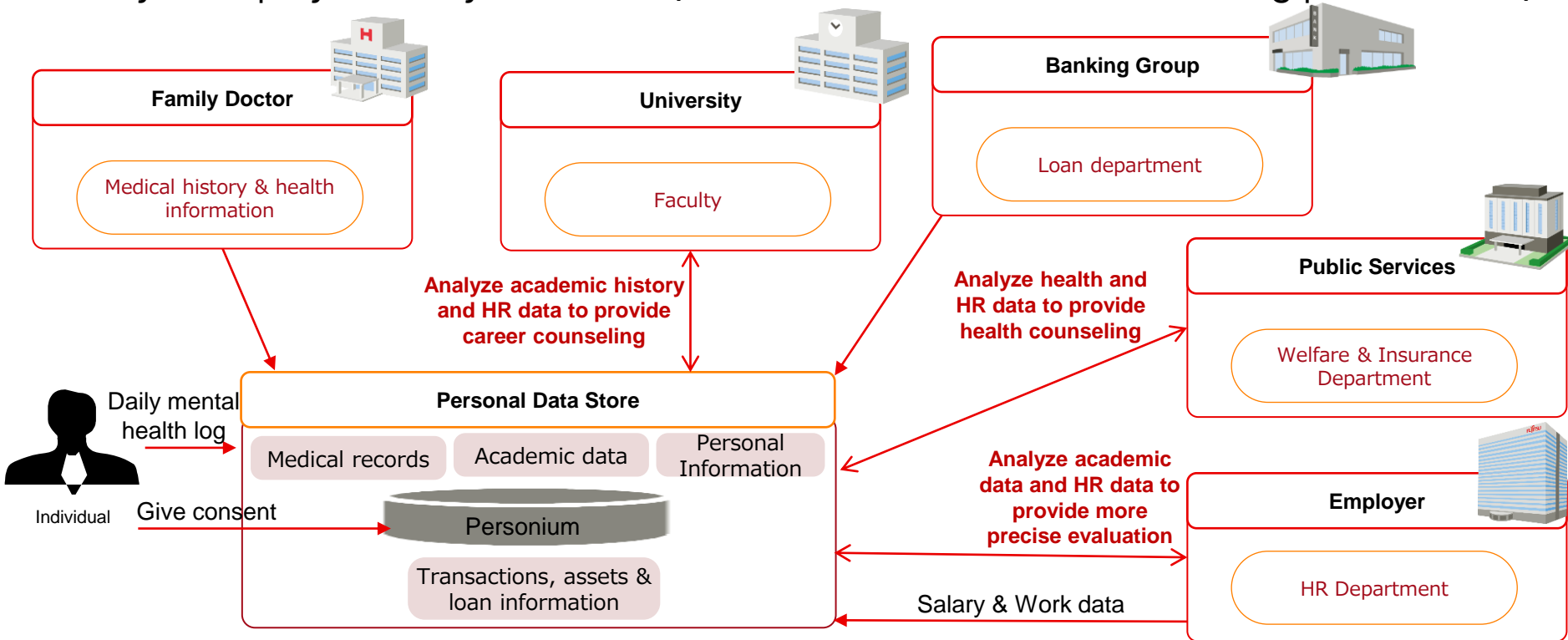
<https://bit.ly/Personium-Projects-English>

Cross-industry Use Cases

Personal Data Empowerment

Real-time employee wellbeing services

- Analyze employee's daily behaviour (mood indicator, work hours, learning patterns, etc.)



Cities implementing (partially or fully) the MyData idea



AMSTERDAM

#Decode #CitizenSensors



Amsterdam made a promise to it's citizens

- Data-minimisation
- Privacy by design
- Open & transparent
- Reliable & safe
- Easy to use & inclusive
- Personal data ownership
- Enhancing freedom, expression & creativity

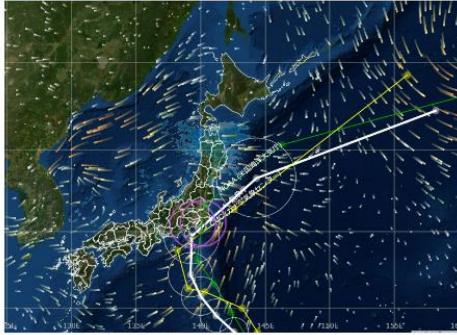
Ger Baron, CTO – Director Digital and Innovation at the City of Amsterdam, presentation at [MyData in the Netherlands Community Meetings](#)

Why releasing data control is good

- Restore trust and increase customer loyalty
- Diversified ecosystem help gaining new customers
- Valuable customized services with cross-industry data

Personal data ecosystem

台風の進路予測イメージ



AIを用いて解析した災害情報表示イメージ

気象・災害

〇〇県で河川増水の情報 (06:58)

主要な最新投稿

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Disaster alert for people with accessibility needs

Barrier-free home to avoid household accidents



Universal MaaS

Toward the realization of universal and seamless mobility.

Universal MaaS is an initiative aimed at smooth and comfortable travel, focusing on people with mobility impairments, the elderly, inbound tourists and others who are unsure about travel for whatever reason.

Increased household income and business chances



Smart City Solution

City as MyData Operator Project by Helsinki, Finland

City as a MyData operator project 2020-2021

Goals:

Define how **MyData principles** can be applied in cities

Build **practical solutions** to demonstrate MyData capabilities

Increase trust between public sector and residents.

Benefits:


Save time and ease up the daily life of the residents.

Human-centric way of using data to enable scalable and seamless **digital services across administrative silos**.

2,65 M€ Funding (Finnish Ministry of Finance)

Two MyData operators in the consortium:

mydata^{share} (Vastuu Group)


Personium (Fujitsu)

City as MyData Operator (Helsinki, Finland)

- Preschool fees based on the parents' financial status
- Parents give consent for tax information access
- Reduced paperwork

"City as a MyData Operator" project 2020-2021

Reduced daycare fee for families

- By law 1) cities have to organise daycare services 2) parents' financial situation defines the rights to reduced day-care fees
- In Helsinki daycare is organised for ~27 000 children annually
- To be eligible for a reduced daycare fee, both parents must provide city with requested documents to justify their financial status



Current state (As-is):

Family income data has to be submitted by filling manual forms in pdf format either by mail or secure email to the City of Helsinki's customer fee unit.

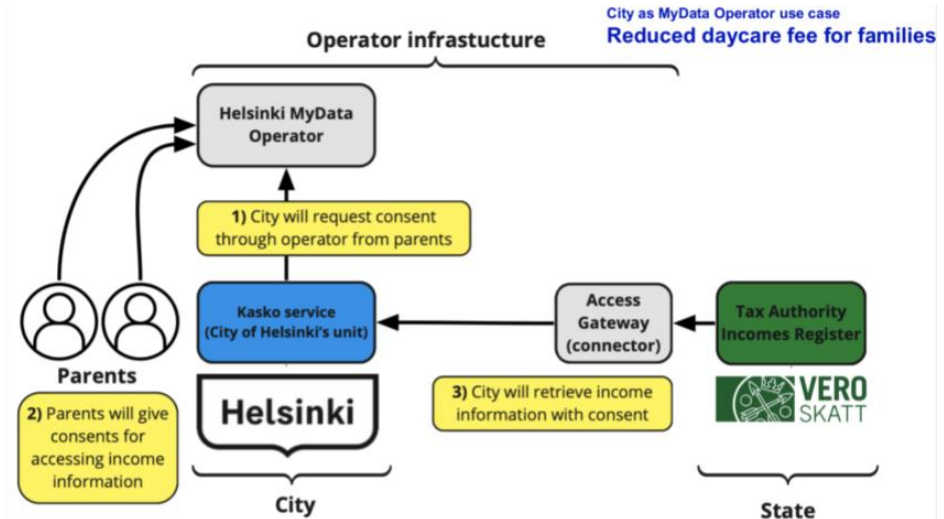
Helsinki



Future vision (To-be):

As a citizen, I can authorise the city to verify my annual income. With my consent, the city can automatically check my income from the National Income Registry and determine the correct applicable day-care fee with potential reductions for my child.

Significant time and effort savings both for parents and City



Source: MyData Cases in Helsinki, Finland

https://docs.google.com/presentation/d/1UjOry-4ELfNz5BXCDdQcP2fbtqKn0JyeYaZpnVqGvQ/edit#slide=id.geacd5bc53d_1_868

Facts

- Mainly government services
- Connecting the silos
- PDS is only an option

Future Plan

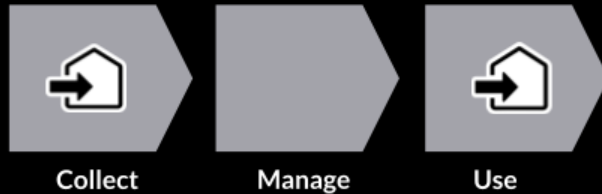
- More commercial services
- Sustainable ecosystem
- PDS is the core of every services

Personal Data Ecosystem

How does it work?

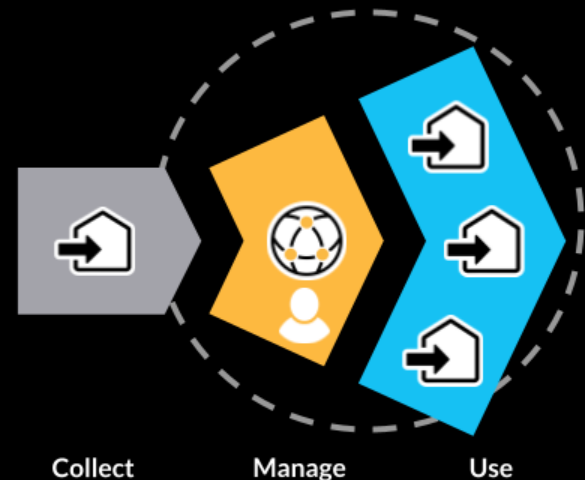
Now:

- Organizations manage the whole value chain
- Integrating data from multiple sources is hard

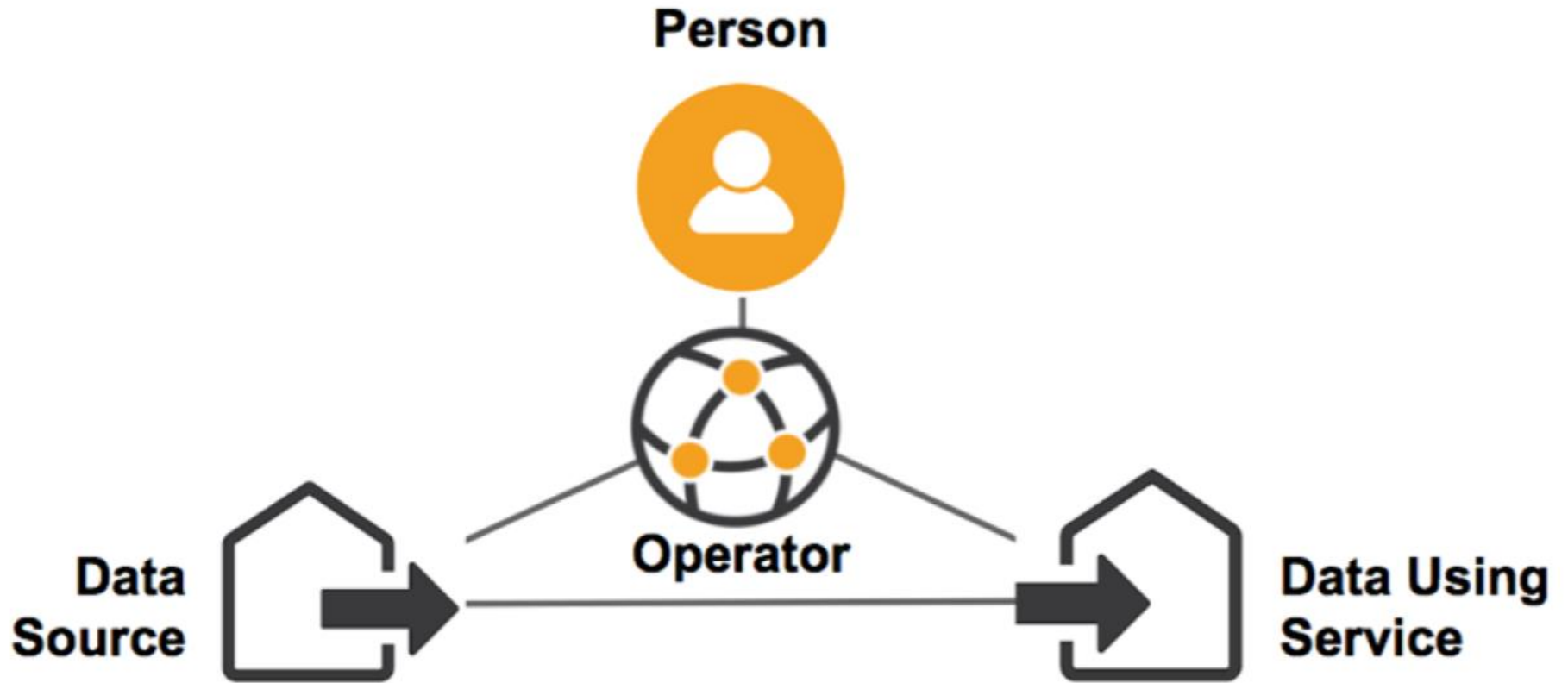


Future:

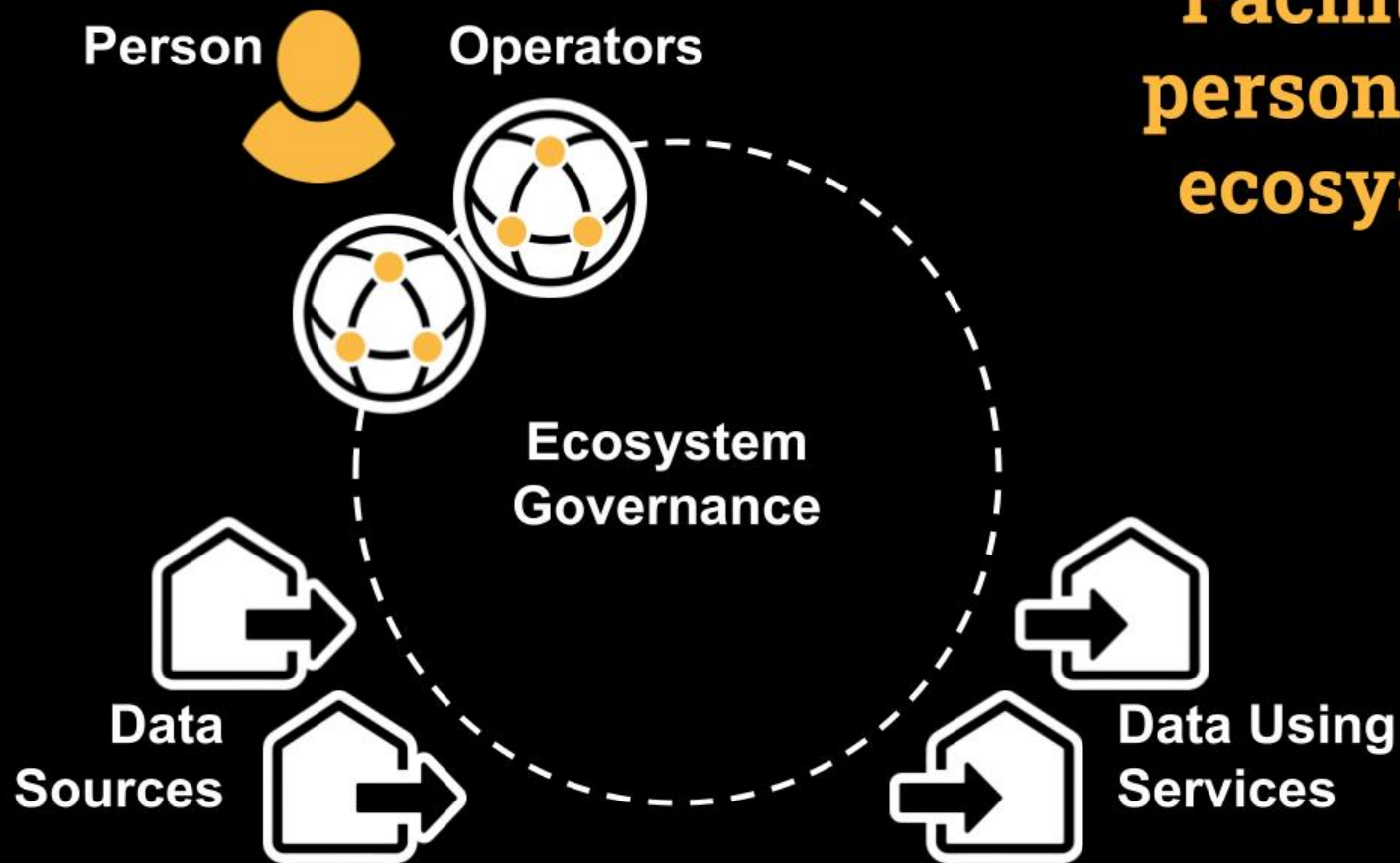
- Specialized services for different parts of the value chain
- Need mechanisms for permissions (consent etc.)



Facilitating personal data ecosystems



Facilitating personal data ecosystems



Overview of Personium

First and still only one in Japan

FUJITSU



Personium

An interconnectable open source
PDS (Personal Data Store) server
envisioning world wide web of protected data APIs.

Individuals (end-users)

- **manage** their own data
- **select** what data to be shared
- **supported** by an open ecosystem

MyData Operators Awardee since 2020

Personium (Fujitsu) is the only awardee from Asia since 2020

- 27 awardees in 2020, 22 awardees in 2021, and 33 awardees in 2022

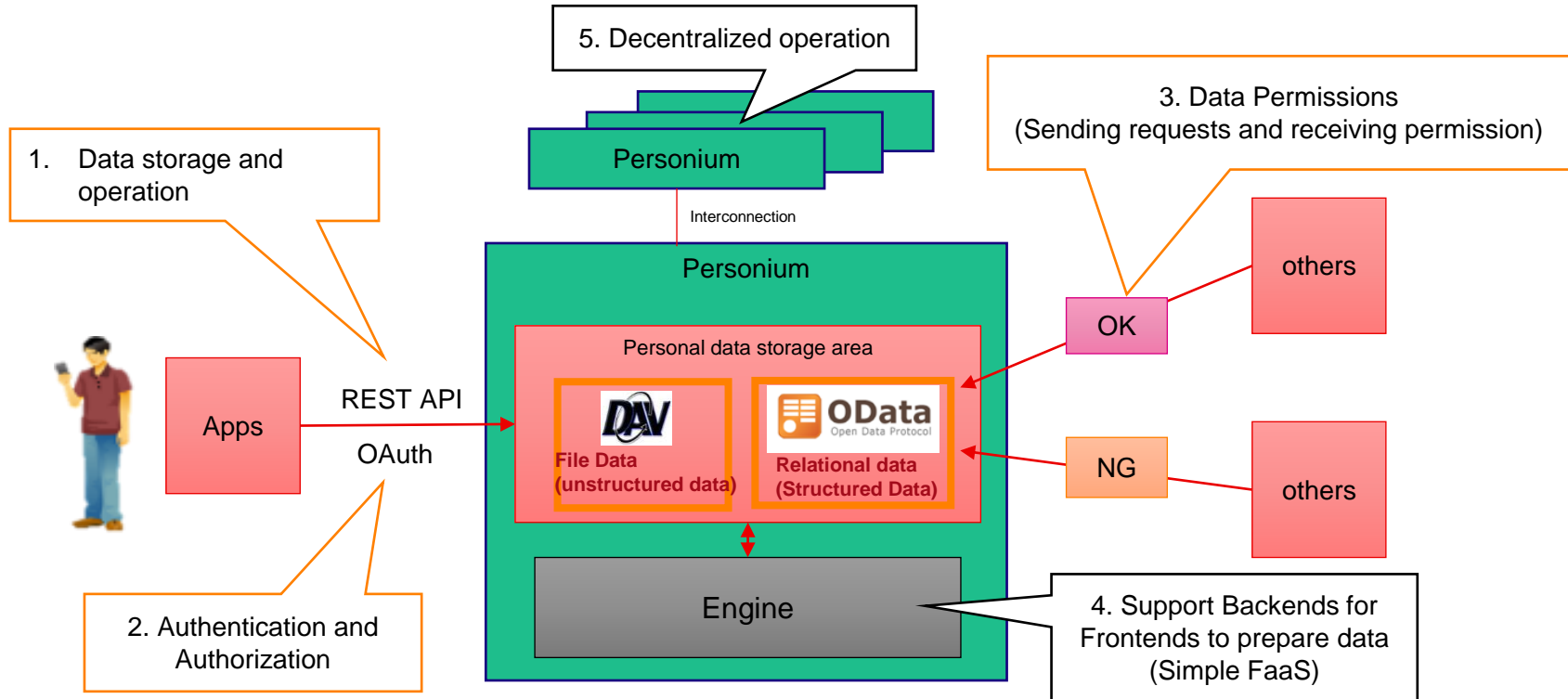
MYDATA OPERATORS 2022

The grid of logos includes: BESWARM, BITSABOUT, CANDiY, me, TrINiTY, CozyCloud, DATA for GOOD FOUNDATION, Datavillage, DataYogi, DIABETES.SERVICES, Fairdrive, [&] fair & smart, Financieel Paspoort, Personium, my data+mood!!, mydata share, mydex, OCKTO, onecub, OYD OwnYourData, polypoly coop, pool, schluss, SELF INNOVATIONS, INC, sensotrend, SOWL, VALENCIA DATA, and VISIONS.

Galleries | MyData Operators Award

Personium's Main Features

Securely manage unstructured data (images, voice, etc.) and structured data (transaction)



Title	Link	Date
City as MyData Operator	Helsinki newspaper article	February 15, 2021
Marunouchi Data Consortium	Revitalizing Tokyo's Business District with Data from Multiple Industries	September 12, 2019
Fujitsu and Dentsu use personal data to improve individual wellbeing by proposing new lifestyle	New Lifestyle Design Movement with Personal Data Driven Recommendations	May 13, 2019
Dai Nippon Printing to Promote Information Banks Develop and provide a platform for safe and secure information management	https://pr.fujitsu.com/jp/news/2019/01/29.html	January 29, 2019
Start of verification testing of information banks using personal data	https://pr.fujitsu.com/jp/news/2017/07/14.html	July 14, 2017

Past webinars hosted under MyData Global principles at FUJITSU

Summary

Summary 1/2

MyData4Children Webinar

We are delighted to invite you to voice what type of digital future you would like for your children, for your family and for your community.

In this webinar, we will give an overview of MyData Global Community and what is going on at MyData4Children group. Come join us!

When?
November 26th
11:00 GMT
[Click here to register](#)

For a fair, sustainable, and prosperous digital society through a human-centric approach to personal data.

Hosted By: **Dixon Siu**

Invited Speakers: **Teemu Rissanen**, **Paula Bello**

9 INDUSTRY INNOVATION AND INFRASTRUCTURE | 17 PARTNERS (ON THE GLOBE)

SDG COMMUNITIES BY FUJITSU

- Registrants: 77
Attendees: 37
Presentation:
- [MyData Global Overview](#)
 - [MyData4Children](#)

MyData 4 Sustainability

How can we achieve the 2030 sustainability goals by making the most out of the data?

9 INDUSTRY INNOVATION AND INFRASTRUCTURE

Join this webinar to learn how and why to design human centric technologies. IoT, biometrics, privacy and health systems need accurate data and governance of the metadata in order to give back digital well-being to their users.

When?
January 21st
12:00 GMT
45 min presentation + 15 min Q&A

Hosted By: **Dixon Siu**
Invited Speaker: **Meri Valtiala**

[Click here to register in the event](#)

SDG COMMUNITIES BY FUJITSU

- Registrants: 112
Attendees: 48
Presentation:
- [Introduction](#)
 - [MyData 4 Sustainability](#)

Webinar: Privacy and the Deployment of AI Systems

How can we be sure that any AI Systems are ethical and behaving as the authorities or service providers claimed to be? How can we protect our own interests while enjoying the benefits of AI?

In this webinar, Hestie Jones will give a brief introduction on human-centered trusted framework as well as examples of technologies being proactively implemented in Canada and the US as concern for data privacy and security grows. Come join us!

When?
March 14th 13:30 - 14:30 GMT
[Click Here to register in the event](#)

Hosted By: **Hestie Jones**, **Dixon Siu**

9 INDUSTRY INNOVATION AND INFRASTRUCTURE | SDG COMMUNITIES BY FUJITSU

- Registrants: 52
Attendees: 22
Presentation:
- [Introduction](#)
 - [Privacy and the Deployment of AI Systems](#)

Unicef Webinar

UNICEF has been actively raising awareness of children data exploitations and how to protect children, our future.

We invite you to join a webinar where speakers will share case studies on AI policy and data governance, particularly concerning children. We will also be inspired by insightful guests from Fujitsu Finland.

Agenda:
• AI Policy Guidance and Case Studies
• Importance of Data Governance
• Fujitsu Finland Pilots
• Q&A

When?
April 7th
14:30 GMT+1
[Click here to register in the event](#)

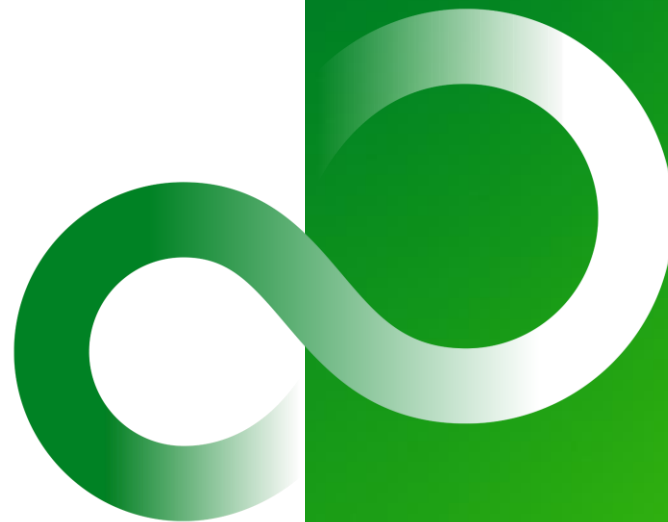
Hosts: **Orlynn Valtierra**, **Dixon Siu**

Speakers: **Steven Vasson**, **Emma Day**, **Jan-Erik Pöller**

9 INDUSTRY INNOVATION AND INFRASTRUCTURE | SDG COMMUNITIES BY FUJITSU

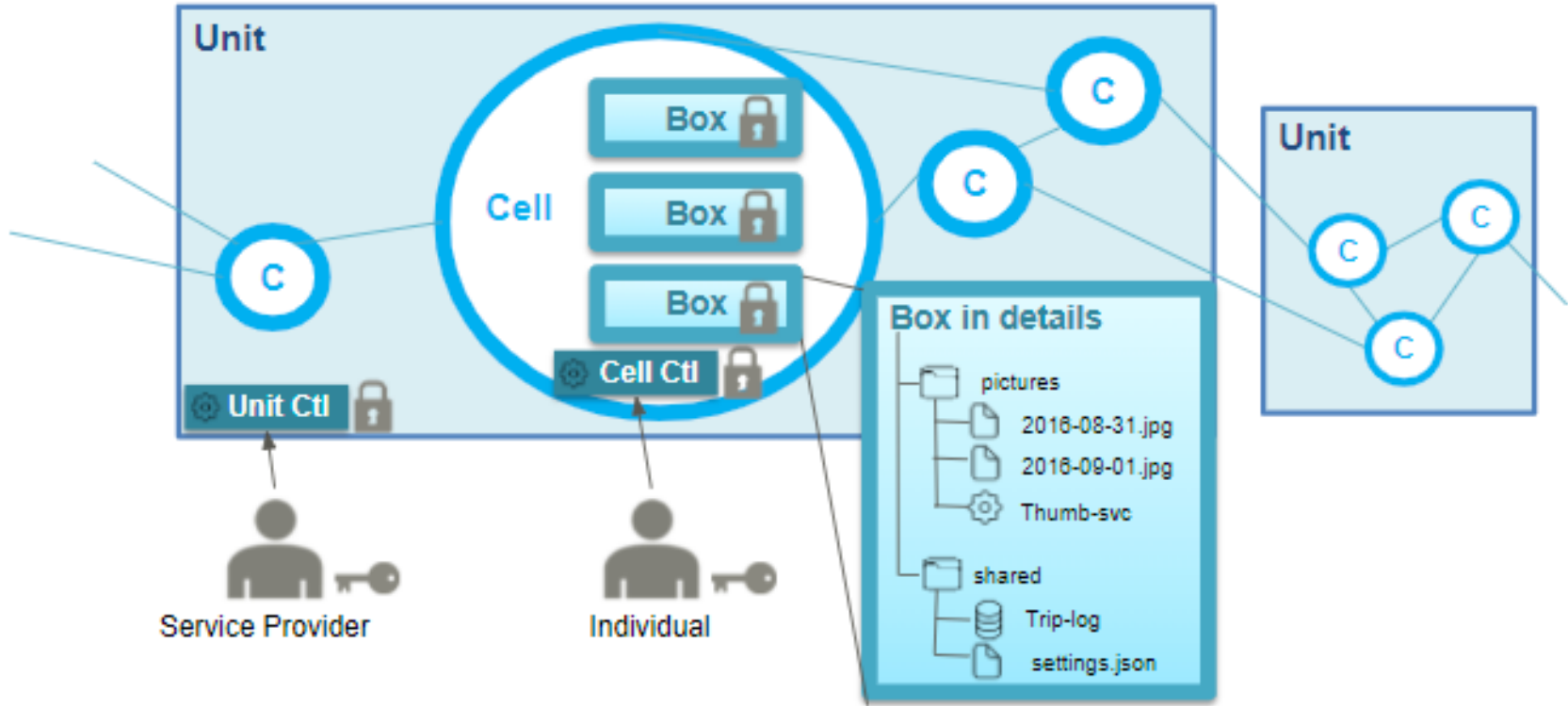
- Registrants: 80
Attendees: 32
Presentation:
- [Introduction](#)
 - [AI for Children](#)
 - [Manifesto for Children](#)
 - [Fujitsu Finland – AI Case](#)

Thank you

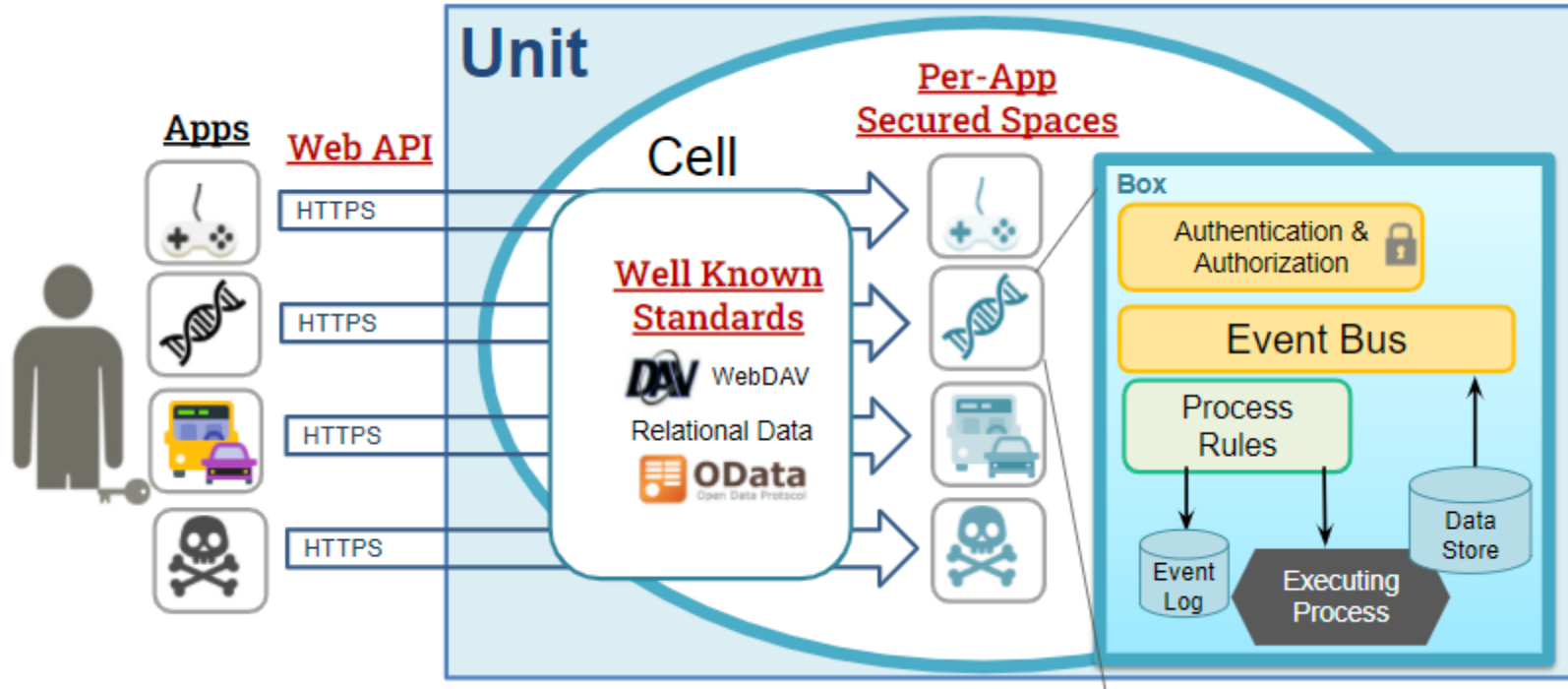


Technical Overview of Personium

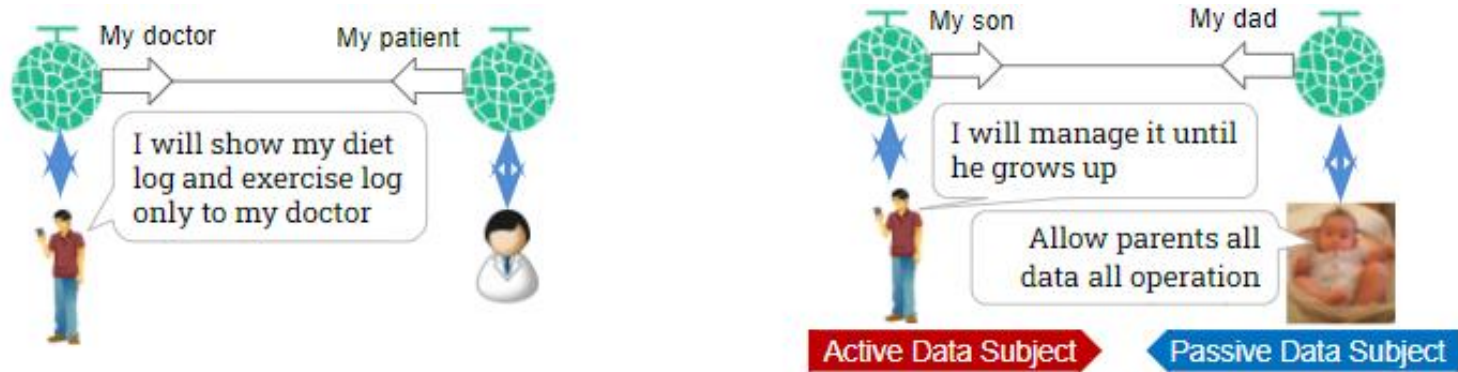
Web of three-tier structure over HTTP (REST APIs)



Functional elements of a Cell



Linking personal data store through URL



- Personal data is not shared to anyone by default
- Cross-check your personal data privately with app service provider's DB

Individuals (end-users)

- choose who can access the data
- choose different permission level
- support data anonymization before sharing