

Why Personal Data Empowerment is the future and overview of the MyData Operator Ecosystem?

September 23, 2023



Dixon SIU (he/him)

YIGF CAMBODIA **CAMBODIA YOUTH INTERNET GOVERNANCE FORUM 2023**

23-24 SEPTEMBER 2023
Cambodia Academy of Digital Technology - CADT

Digital Empowerment:
Ensuring Access, Safety, and Opportunities for All

TOPIC:

1. Why Personal Data Empowerment is the future and overview of the MyData Operator Ecosystem?
2. Why Data Ethics are Important for AI/ML Solutions?

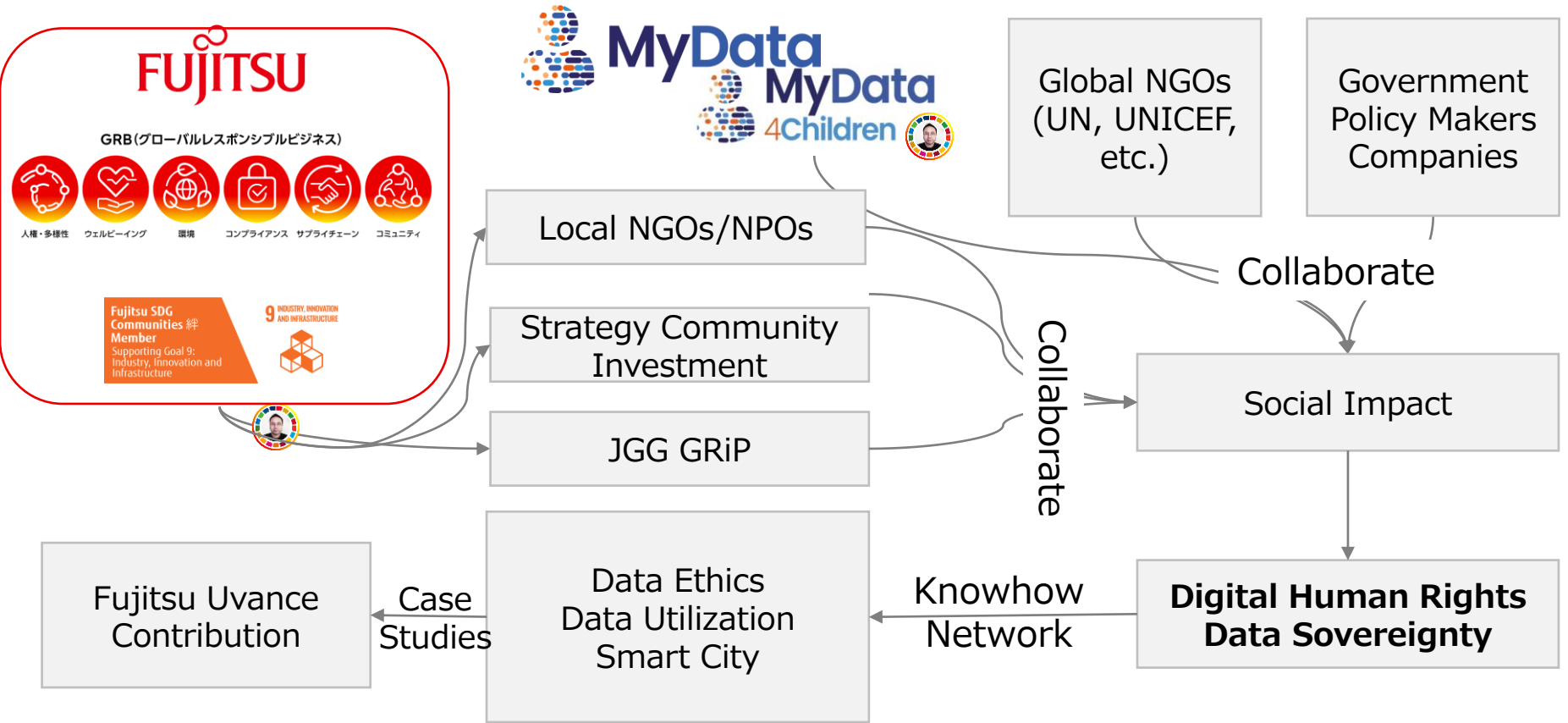


Dixon Siu
Software Engineer at Fujitsu Limited (Japan) and a member of Advisory Board CamIDF

Organized by: YIGF CAMBODIA, អង្គការយុវជនកម្ពុជា
Co-Organized by: CADT

Supported by: secdev.foundation, USAID FROM THE AMERICAN PEOPLE, fhi360
Collaboration with: វិទ្យាស្ថានជាតិបច្ចេកវិទ្យា, APNIC, ICANN

- Fujitsu Limited (Japan)
 - Open-source Software Engineer
 - Personium Chief Evangelist
 - SDG 9 Community Enabler
 - Global Delivery Responsible Business Country Co-Lead (Japan)



Brief background of my works

Vision

We believe the ethical and transparent use of personal data contributes to a fair and sustainable data economy. To promote data rights around the world, we participate in the multi stakeholder initiative MyData Global.

Personium is an active and long-term member of MyData Global and serves on the international leadership group.

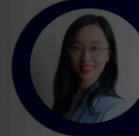
We signed the MyData Declaration based on our strong sympathy with its principles.

Raising awareness of Data Literacy

- International nonprofit
- Headquartered in Finland
- Founded in 2018
- Over 500 members from over 50 countries
6 continents



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

Thought Leadership

- Child online safety workshops
- Personal data empowerment movement in global south



Digital Rights and Responsibility Workshop at the Agape Floating Garden Church in Kampong Luong area

kiripost

TECHNOLOGY

Digital Security for Children is Key

By [Sameoun Nicseybon](#) on June 27, 2022 - 3 min read

Panellists and parents gathered at this year's Cambodia ICT Camp to discuss how to keep children safe online.



Nhem Phleth, from APLE Cambodia, speaks at Cambodia ICT Camp 2022 in Siem Reap. Kiripost/Sameoun Nicseybon

[Digital Security for Children is Key](#)
At the Cambodia ICT Camp June 2022

Organize personal data empowerment workshops to:

- Raise awareness for data sovereignty
- Educate data engineer



Dixon Siu

Board Member, SDG 9 Community Enabler and Personal Data Empowerment Evangelist at Fujitsu Limited. Founding and Board member of MyData Global. Board member at aNewGovernance.

(Japan)

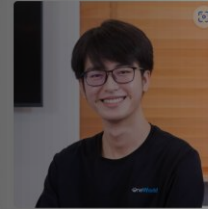
<https://afroleadership.org/governing-board/>

Promoting cross-sectorial expertise and joint action to address emerging digital issues and promote an inclusive and sustainable use of ICTs for digital development.

Advisory Committee



Thy Try
Executive Director - Open Development Cambodia (ODC)



Eric Lou
CEO - OneWorld Information Technology



Leng Len
Freelance Media Practitioner



Dixon Siu
Software Engineer - Fujitsu Limited



Knowledge

Develop indicators and measures to monitor the digitalization process and its implications.



Policy

Participation in dialogues concerning ICT development and Digital Economy and Social Policy.



Cooperation

Engage with the members through various in-person or online meetings and capacity-building activities.



Chiang Poren
Digital Law Researcher



Pyrou Chung
Director - Open Development Initiative



Elizabeth Liew
Global Strategic Partnerships and Programme Development Lead - TechSoup

[About | CamIDF](#)

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

Protection of personal data remains top factor for brand trust (cont'd)

- ✓ 63% of Chinese consumers said they are open to sharing their personal data only if it won't be shared or sold to other companies or third-party providers
- ✓ 60% said they will only do so where there is a clear data security policy

Q. Thinking about your consumer data, to what extent do you disagree or agree with the following statements in relation to sharing it with organisations? (Only showing 'Agree' responses)



Source: PwC's 2022 Global Consumer Insights Survey

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.

- “The authorities have been building **massive personal profiles** of citizens, using data that is far beyond what any one platform could possibly collect. This **centrally held data then becomes an attractive target**,” says Charlie Smith, the pseudonymous founder of the website Greatfire.org, which tracks Chinese censorship.

[Reference: The Shanghai data leak shows China's state surveillance is expanding too fast to handle | Fortune](#)

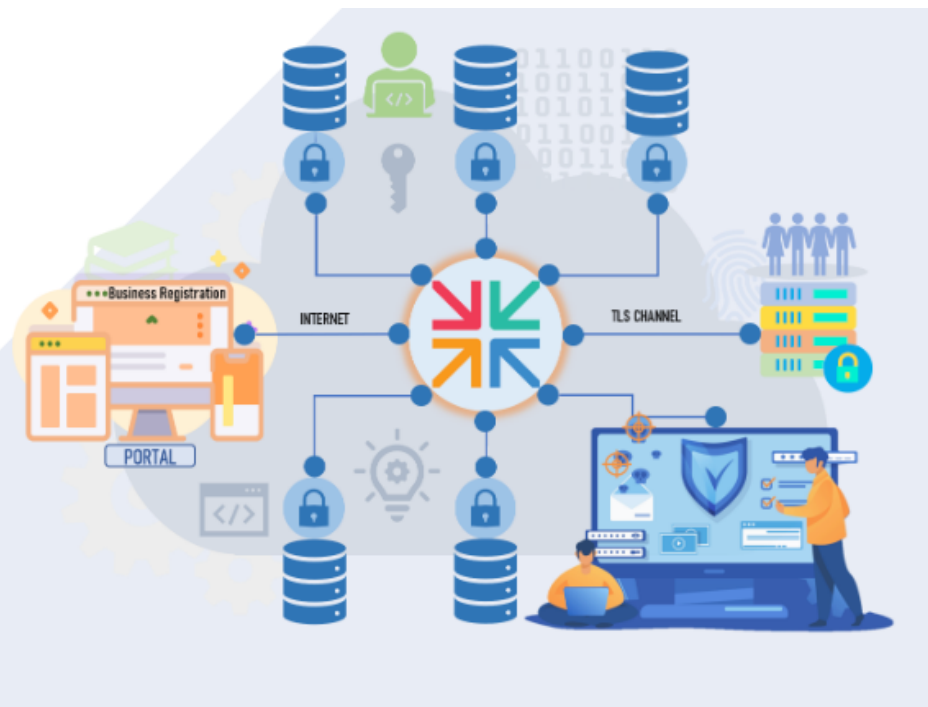
- During the COVID pandemic, additional procedures (vaccination proof, PCR test) when leaving and entering countries
- Fill in same information for different data silos (government offices, apps, online services, etc.)
- Health data not shared between hospitals and clinics

Cambodia Data Exchange Platform

Securely allow multi-lateral data exchange between different information systems over the Internet.

Get Started

Monitoring Tool



Personal Data Ecosystem

How does it work?

API ecosystem model



Personal control but low integration.

Platform model



Integration but low personal control.

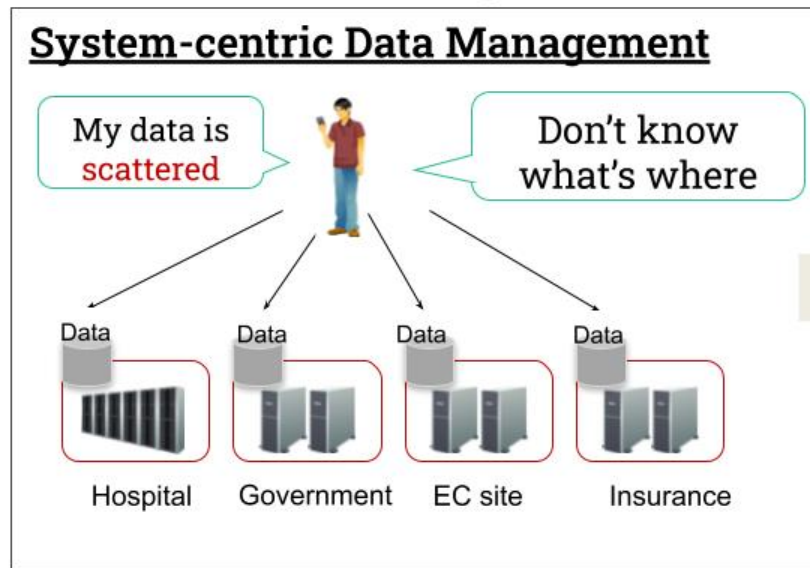
MyData operator model



Highly integrated with full personal control.

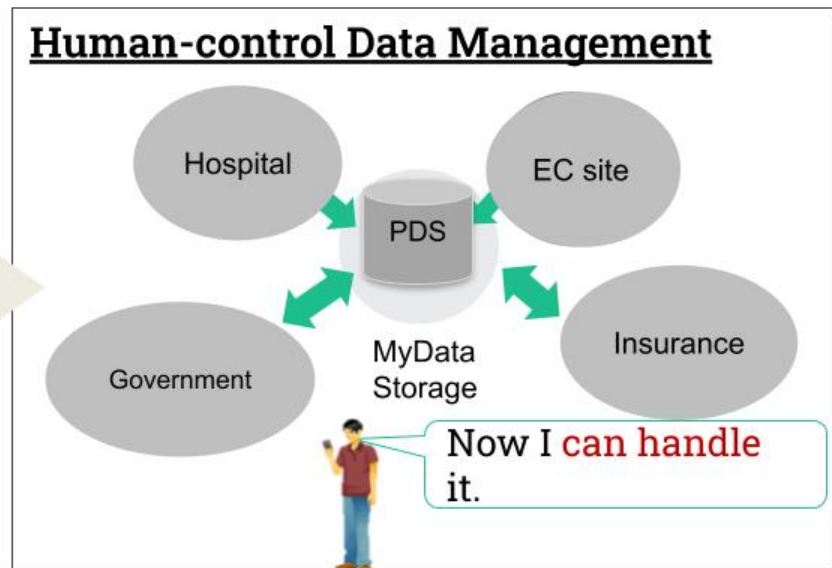
- Shift data management from System-centric to Human-control

System-centric Data Management



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

Human-control Data Management



- ✓ Everyone hold 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>

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

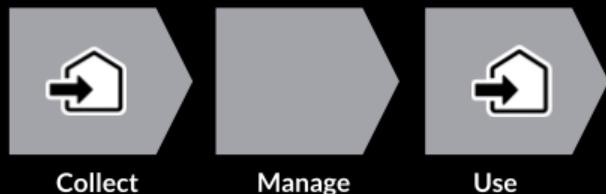
People get value from their data and set the agenda on how it is used.



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

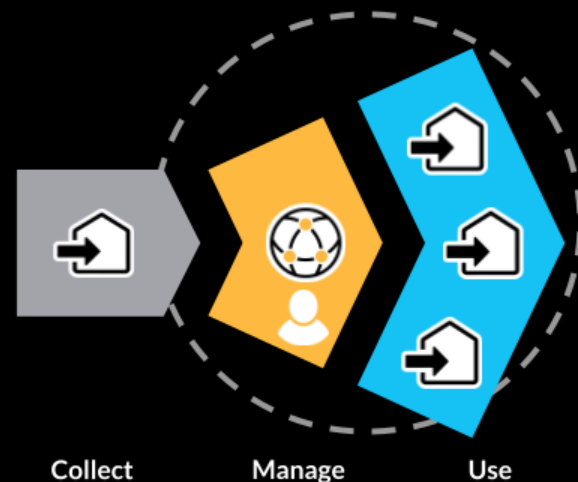
Now:

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

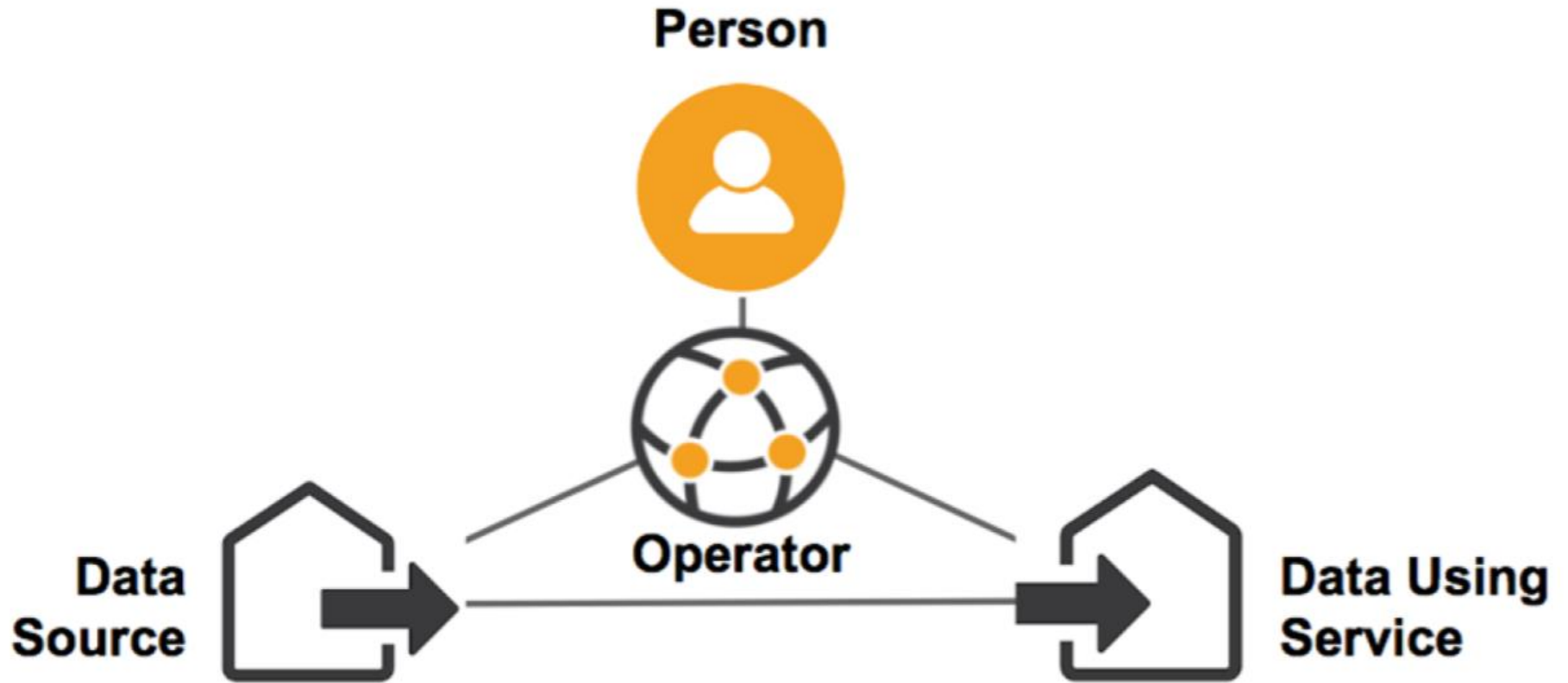


Future:

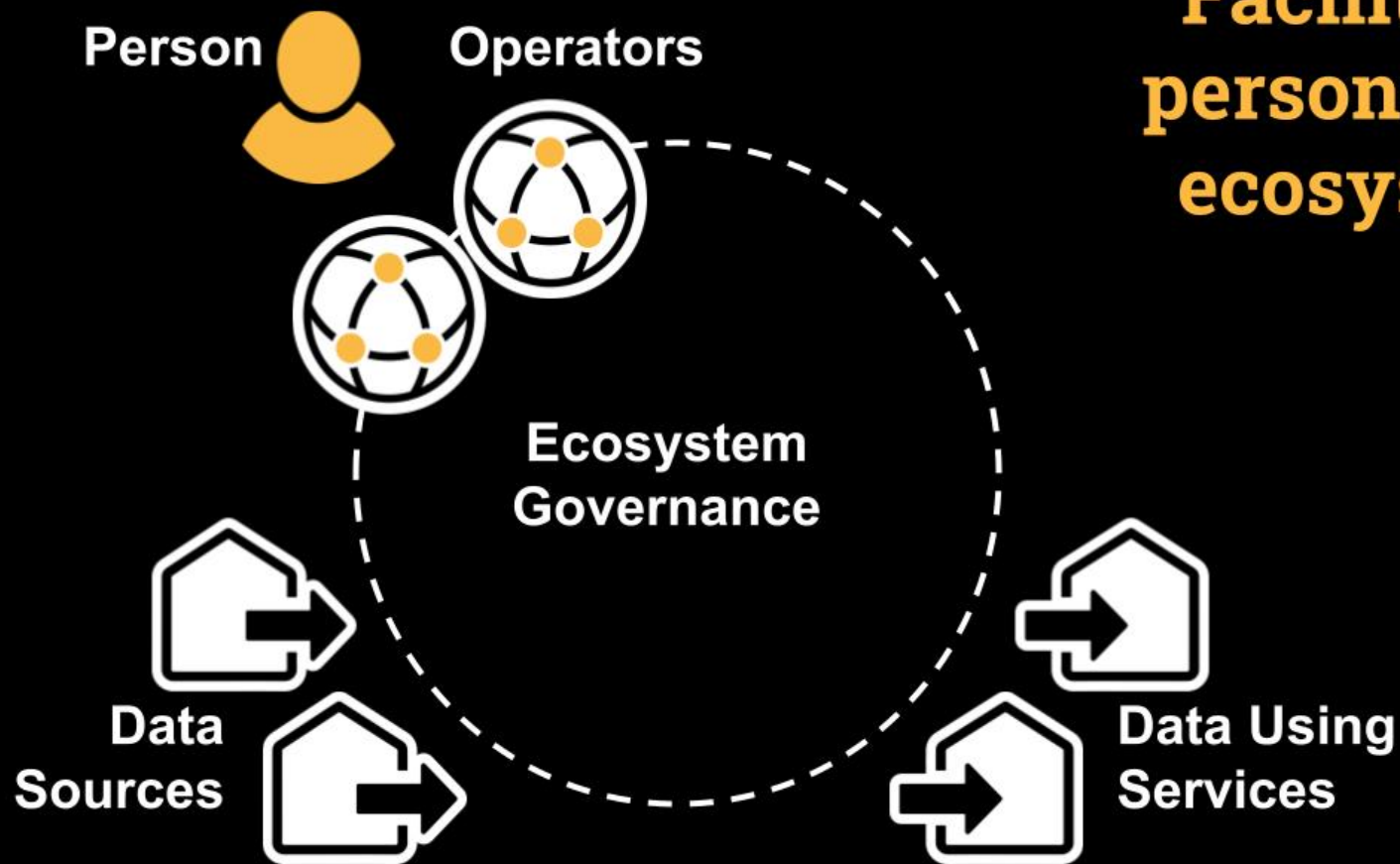
- Specialized services for different parts of the value chain
- Need mechanisms for permissions (consent etc.)



Facilitating personal data ecosystems

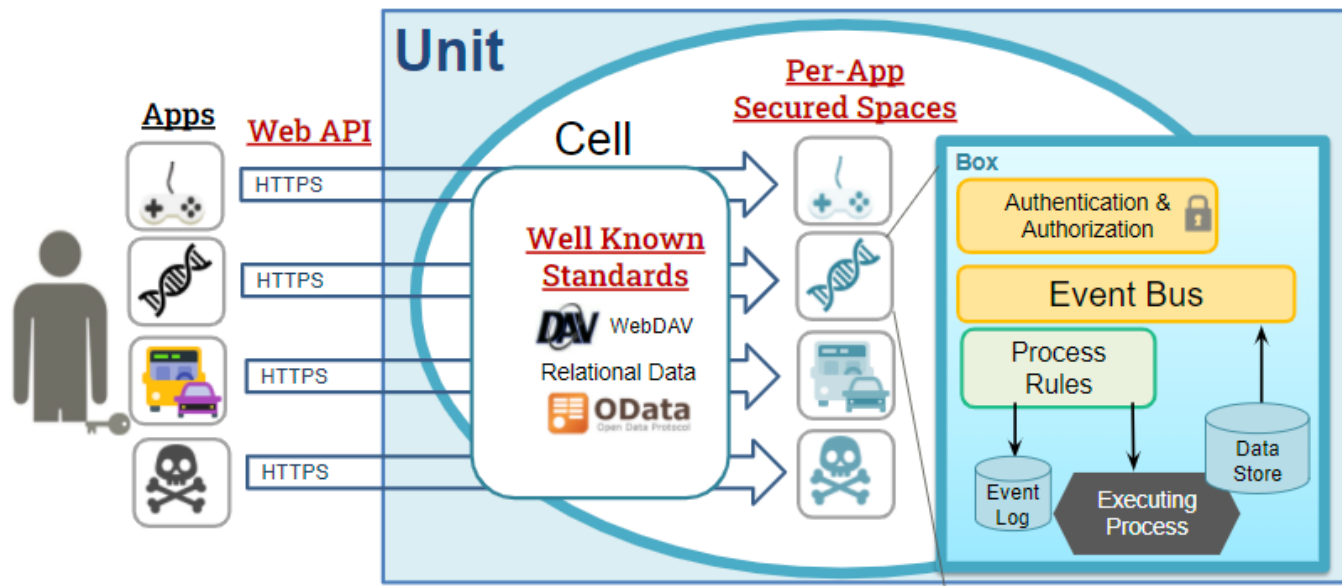


Facilitating personal data ecosystems

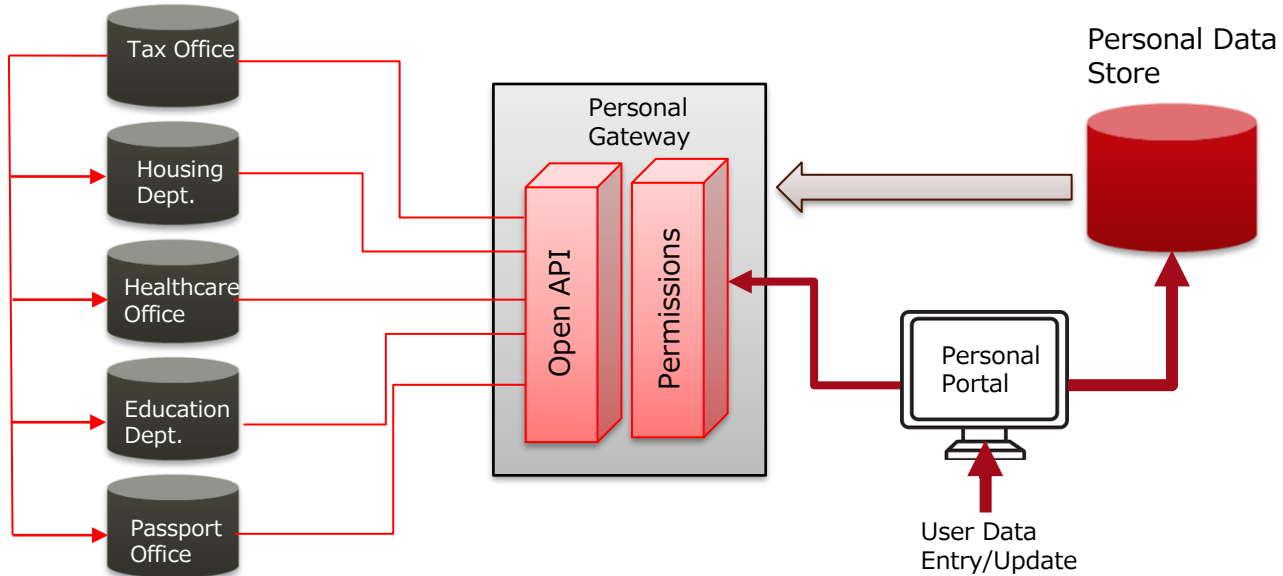


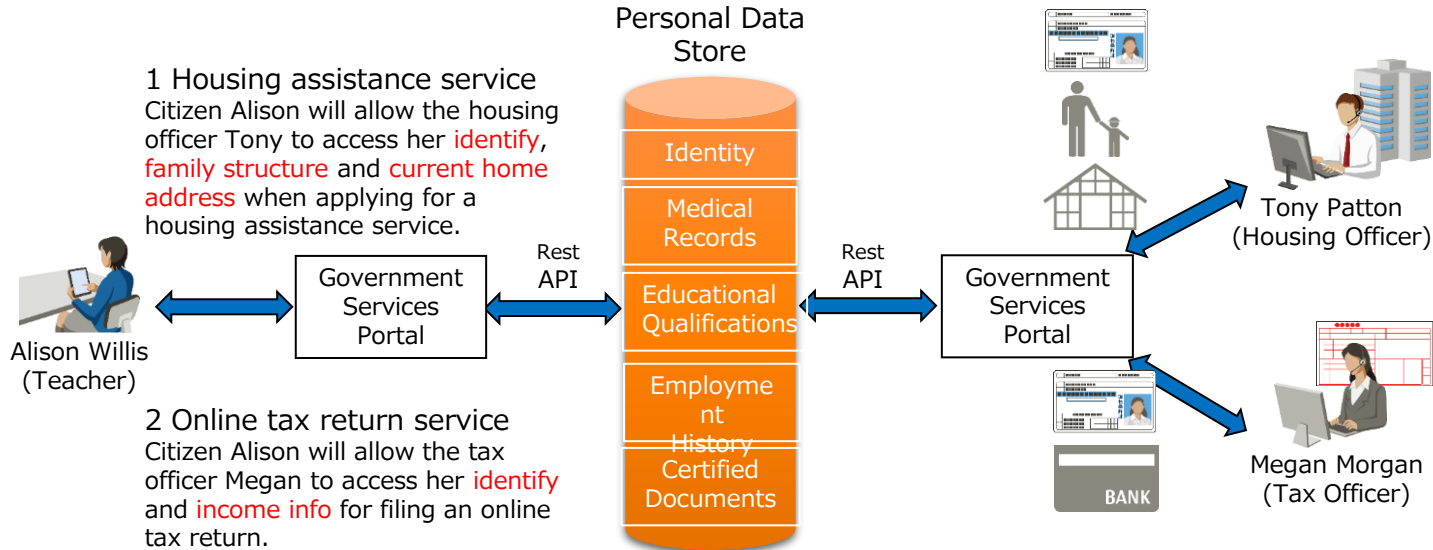
Cross-border Data Transfer

- Data handling / filtering of personal data
- Analyzing data using edge computing technology



Personal Data Store Platform





Past Projects

”City as a MyData Operator” project 2020-2021

- Project funded by the Finnish Ministry of Finance, total 2,65 M€
- Project Consortium: Cities of Helsinki, Turku, Espoo and Oulu in collaboration with Vastuu Group Oy

Goals

- Understand how Finnish cities and municipalities can apply MyData principles
- Build practical solutions to demonstrate MyData capabilities

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

City as MyData Operator use case

Reduced daycare fee for families

Current state (As-is):

Information of the family income has to be submitted by filling in the form and sending proof documents in pdf format either by mail or secure email to the City of Helsinki's customer fee unit.



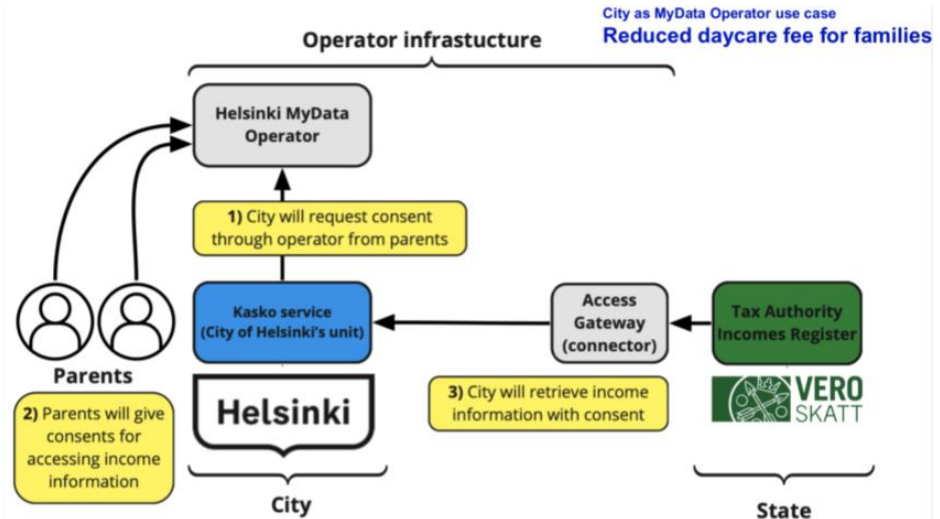
Future vision (To-be):

As a citizen, I can authorise the city to verify my annual income that may have a reducing impact on my child's day-care service fee. Automatically checking my income from the National Income Registry enables the city to determine the correct applicable day-care fee with potential reductions for my child.

Helsinki

8

Source: MyData Cases in Helsinki, Finland
https://docs.google.com/presentation/d/1UjOry-4ELfNz5BXCDdQcP2fBtpqKn0JyeYaZpnVqGvQ/edit#slide=id.geacd5bc53d_1_868

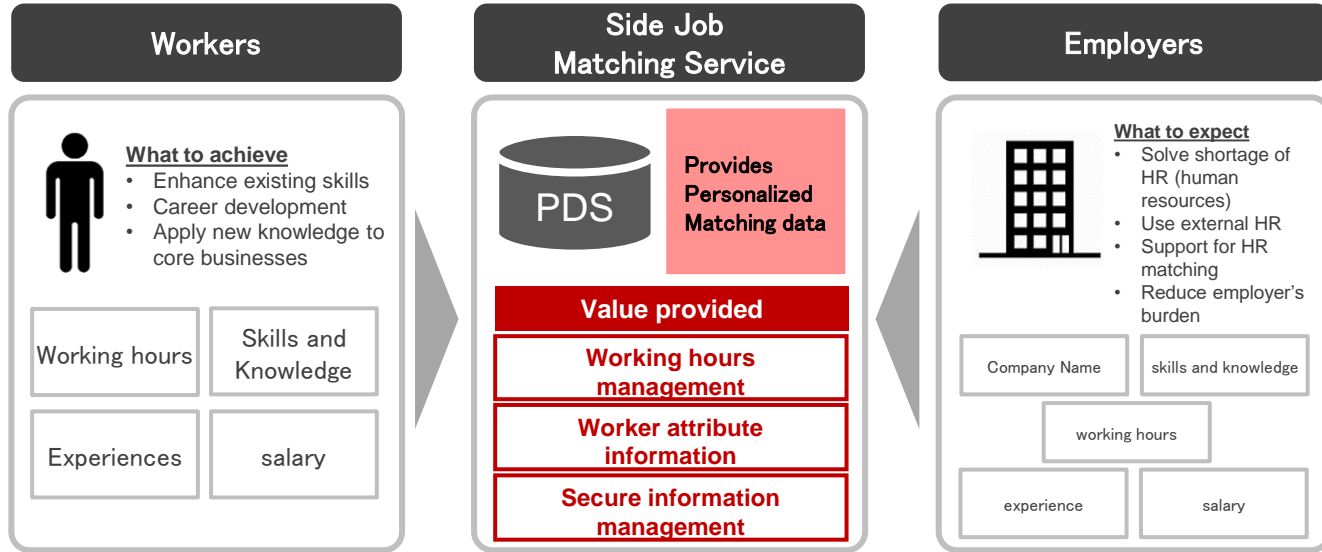


Other potential MyData use cases in Helsinki

- **Verification of driving license information** based on a person's consent or employment agreement for the use of city-owned vehicles.
- **Verification of citizen's income level** (and other relevant parameters) to check for the eligibility of subsidies for municipal childcare.
- Citizen participation in voluntary activities requiring a hygiene passport & hygiene course authorization, **certificate information verification.**
- Citizen gives consent to use data on library borrowing history or use other data sources to get targeted and **personalized recommendations for cultural events and activities.**
- Citizen gives sports-related information (swimming pool, gym) combining their health data for **proactive health services** offered by the city.
- Citizen skills profile data is readily available in employment office processes, **helping find the right job or access to training.**

Outline of Side-Job Matching Services

By sharing and utilizing personal data
Employment agency can match the worker (side job seeker) to the most ideal employer

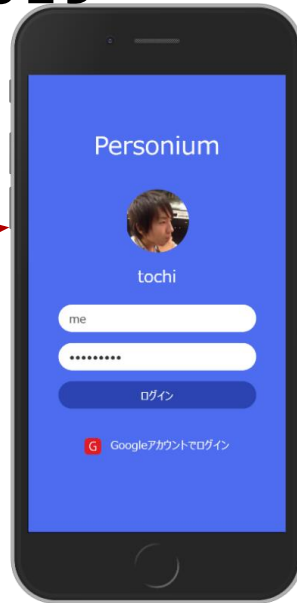


Differences from other employment agencies



- Workshop: New Lifestyle Design Movement with Personal Data Driven Recommendations
- Period: August 2019
- Participants: 80

Individual receives Google Calendar data and share it with hobbies and other personal attributes in order to get customized recommendations



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

Smart City Solution

Security check through FASTiD, Netherlands

Using FASTiD at Rotterdam The Hague Airport (LinkedIn)

Our story

The founders of FastID worked at the airport for years and became increasingly annoyed by all the queues, tickets, and identity checks. They dreamed of being able to live and travel 'hands-free', with no paper tickets, plastic cards, or identity passes, and with faster, easier and more secure access to events, services, and locations.

In today's society, we are supporting two new trends: the social discussion about the ownership of personal data and the increasing possibilities of identification via biometrics. Blending these trends together, we came up with the idea of FastID. With FastID we aim to give consumers the ownership of their personal data back. And give them fast and secure access to events, services, and locations with biometrics.

After starting in 2021, we are rapidly adding more companies to our platform.



Our ambition for the future

In the years to come, our technology will completely transform the way you identify yourself on arrival at locations. It will change the way you make use of different services and the way you control your own data.



<https://www.fastid.nl/>

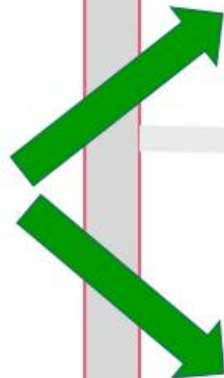


Check out and upsell with the app

UpSell & Check-Out



Pay & ID



Auto ID or check out



VIP Breakfast for Anna



- Private SNS group in Fujitsu
 - Feeling / Physical status
 - Mental health related information
- **Well-being apps** are increasing since 2021 (COVID, work from home, etc.)
- **Fujitsu Nederland HR Head** agreed to launch a pilot using Personium based Well-being app

List Work Hours

Pick the start and end date&time. (Maximum 100 records supported)

Start
2021/07/19 16:07

End
yyyy/mm/dd --:--

Submit

Total work hours
22.25hrs

Long Wednesday with MyData4Pandemics, MyData Operators and 1-on-1 meetings.

2021-07-21T09:15:00+09:00 13.00hrs

2021-07-22T01:15:00+09:00

Attend Sakura Cafe and discuss career planning for foreigners

2021-07-20T08:57:00+09:00 9.25hrs

2021-07-20T20:12:00+09:00

Daily Log

Daily Mental Health Start

2021/07/21 09:15

End

2021/07/22 01:15

Rest hours

3

Work hours (calculated)

13

Description

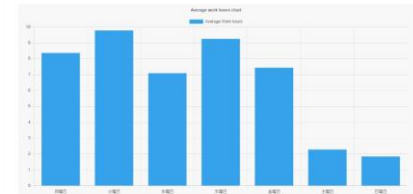
Long Wednesday with MyData4Pandemics

Mood

1 😊 2 😐 3 😐 4 😞 5 😞

Health

1 🟢 2 🟢 3 🟢 4 🟢 5 🟢



Smart City Solution

CO2 Emission Monitoring by the city of La Rochelle, France

Connecting the dots.
From CO2 to forcibly displaced people

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



10 REDUCED INEQUALITIES



We are hosting this event as a celebration of World Refugee day. Our intention is to motivate debate and **action towards climate change**, to discuss the responsibilities and positions of both north and south poles, show what is being done, namely through Green Deals and Carbon Credits, and also some of the most interesting initiatives that help us give our individual contributions to mitigate the impact of climate change.

Come join us as we discuss this with our set of panelists/speakers!

July 7th

10:00 GMT +1

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



Hosts:



Andreia Vieira

Portugal GRIP DE&I pillar lead, DE&I Associate, SDG 10 enabler, Process lead at Shared Service Management



Dixon Siu

SDG 09 Enabler - MyData Global Community
Co-leading projects on children data protection, global south personal data empowerment, etc.

Invited speakers



Eric Pol

Sunrise Fund (Rwanda) Healthrise Fund (South Africa)
aNewGovernance (Belgium)Data
Sovereignty Now (The Netherlands)



Virginie Steiner

Urban Community of La Rochelle Chief Data Officer
Open Data, Self Data and personal data management
project director



Charlie Ngounou

AfroLeadership, President, PLACE, Africa Representative
IATI, Governing Board Member, aNewGovernance,
MyData Global, Governing Board Member

COACH CO2 PROJECT - HOW IT WORKS ?

01
A personal data warehouse to consolidate the data I have collected from Blablacar, SNCF, Google, my telephone operator, my employer, my jogging app, etc.

02
A new Software (Coach Co2) in my data warehouse to calculate my carbon footprint.

03

02
A temporary mobile application (Tracemob) operating on geolocation to collect travel data and view my first results on my smartphone.
Why ?
Because the portability of my personal data from data producer like my phone operator is not ready at the beginning of the project

THE TOOLS REQUIRED- TraceMob, COZY and Coach CO2 to calculate my carbon footprint with real and personal data



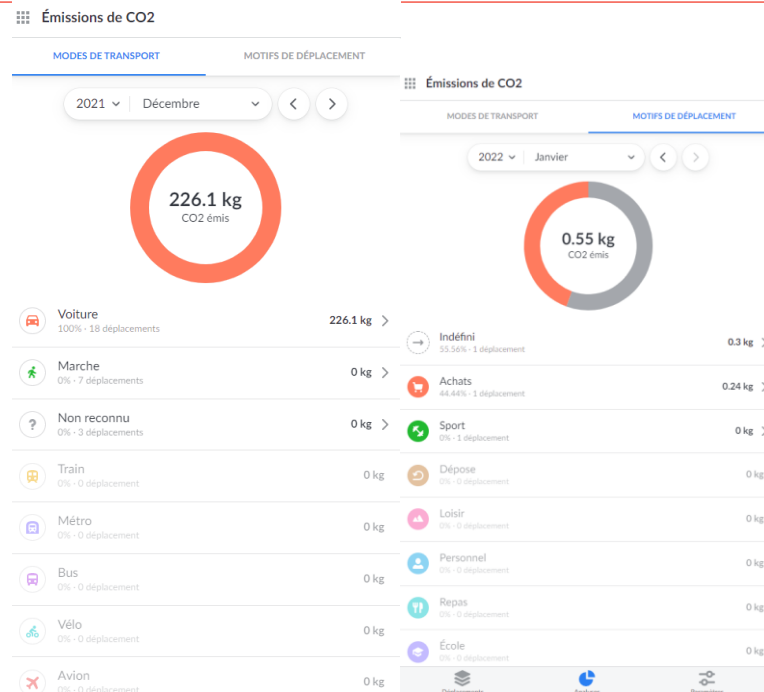
TraceMob is a mobile application developed by [Fabrique des Mobilités](#). It allows you to collect your traces of mobility and therefore to have your travel history



Cozy Cloud is a free, secure and open-source personal cloud platform: it's like your digital home. Using “connectors”, you can automatically and securely retrieve your SNCF, APRR, Blablacar, MAIF, EDF, bank, insurance personal data, as well as your travel history from TraceMob.



Coach CO2 is the tool available in your Cozy Cloud, which allows you to analyze your travel data to calculate the time you spend in the car per week, the carbon impact of your trips, the number of km cycled during the month... with the ultimate objective of supporting you in adopting less polluting means of transport!

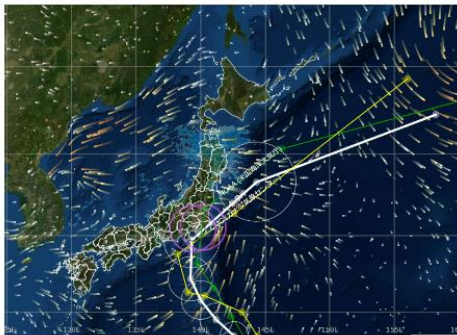


research is being carried out by the [CNAM](#) to understand the links that may exist between the use of digital tools and [changes in mobility behavior](#)

Cross-industry Use Cases

Personal Data Empowerment

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

<p>どんどん水位があがっていく。怖いよ....</p>	<p>みんな大丈夫かな。心配。</p>	<p>普段の光景とまったく違う。ここの初めを見た。</p>
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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



- Returning control of farming data will help farmer gain bargaining power and receive proper farming advices
- Proof of ethical way to do business

THE 4 PILLARS OF AGUNITY



Blockchain

Our app ensures that all transactions by both our users and clients are permanently and securely recorded on a dedicated, immutable Blockchain ledger.



Partnerships

We deliver through excellent collaborations with Service Providers, Commodity Buyers /Traders and development agencies implementing SDG related programs serving the 'last mile'.



Network

Our robust platform is designed to provide seamless transactional services regardless of available telecom network services in the 'last mile'.



Framework of Trust

Our user friendly interface and intuitive app architecture are specifically designed to provide a framework of trust around integrated services, applicable for rural communities and their service providers.

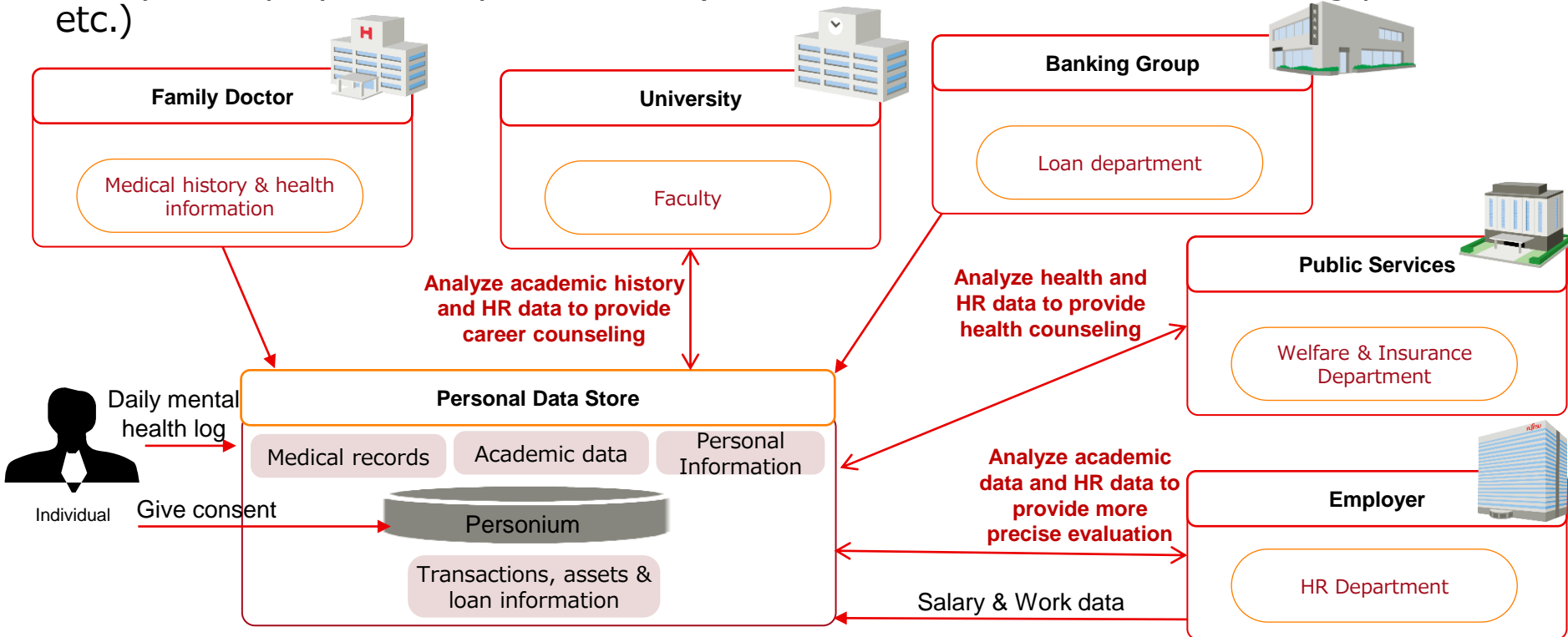
ACTION -READY GLOBALLY

We are constantly growing our world presence (aiming at 30 countries by 2026) and our team ensures a unique combination of technical know-how and the means to deliver strategies applicable to remote areas worldwide.

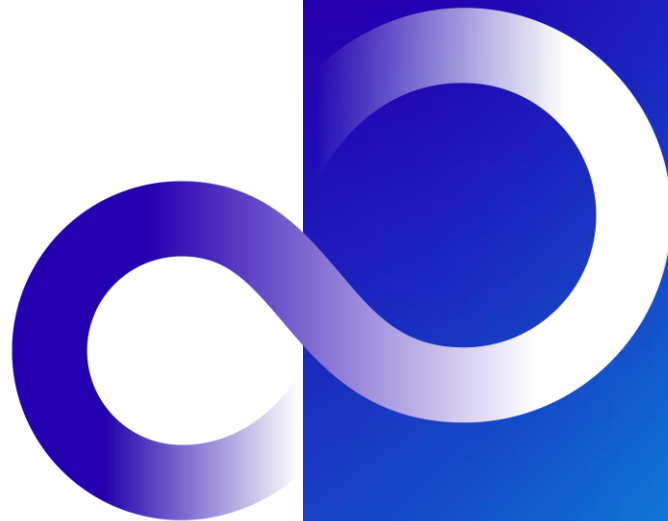


Real-time employee wellbeing services

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



Thank you



Overview of MyData Global

- > **International nonprofit**
- > **Headquartered in Finland**
- > **Founded in 2018**
- > **Over 500 members**
... including over **100** organisations
... from over **50** countries
- > **30 local hubs on 6 continents**
- > **Emerging international thematic groups**
- > **Organiser of the leading personal data conference**



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

Overview of Personium

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



[Galleries | MyData Operators Award](#)

Personium's Main Features

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

