Fair and open smart cities: Helsinki advancing with Mydata

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Opening data

New apps and services

(Harmonized) APIs

Developer engagement
Opening data

New apps and services

(Harmonized) APIs

Developer & Business engagement
Opening data

Users, devices, vehicles and infrastructure contributing and creating data

(Harmonized) APIs

New apps and services

Developer & Business engagement
Personal Data

‘personal data’ means any information relating to an identified or identifiable natural person (‘data subject’); an identifiable natural person is one who can be identified, directly or indirectly, in particular by reference to an identifier such as a name, an identification number, location data, an online identifier or to one or more factors specific to the physical, physiological, genetic, mental, economic, cultural or social identity of that natural person;

(Source: GDPR Article 4, Definitions)
PERSONAL DATA IS EVERYWHERE
Personal data is becoming a new economic “asset class”, a valuable resource for the 21st century that will touch all aspects of society.
Improving lives and connecting people

vs.

Data breaches, leaks and misuse
TRUST IS BROKEN

...and even more...
Personal data we could use in our everyday lives is NOT available. We are not empowered.
We need to put the human in control of the data about them.
The core idea is that individuals should be in control of their own data.

The MyData approach strengthens digital human rights while opening new opportunities for innovative services based on personal data and built on mutual trust.
**Currently:**
- 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.)
Strengthen, harmonise and clarify data protection

Strengthen individual rights and trust towards data handling

Enable new personal data based services

Partly overlapping aims of the GDPR and MyData - approach
For a just, sustainable, and prosperous digital society

1. Formal → actionable rights
2. Data protection → data empowerment
3. Closed → open ecosystems

https://mydata.org/declaration
MyData Alliance
40+ organizations
Facilitate pilots
Create interoperability

“People’s right to decide about and monitor their personal information will be enhanced”
“start MyData based pilot projects”

White papers
2014 (FI), 2015 (EN) and 2018 (FI)

Government agenda & spearhead programmes 2015 →

International conferences 2016, 2017 & 2018
mydata2018.org

Specification + Code
Architecture documentation & Reference implementation

MyData
- A Nordic Model for human-centered personal data management and processing

MyData Architecture - The Stack
Download PDF  E-mail in Google Docs

MyData Architecture presents this paper in a human-centric approach to leverage the potential of personal data and to facilitate its exchange from multiple Data Sources to applications and services. It responds on the practical and technical level to individuals’ growing demand for control over their own digital identity and to organizations need to fulfill the requirements of tightening data protection regulation.

People’s right to decide about and monitor their personal information will be enhanced

start MyData based pilot projects

MyData
Aug 29–31
From vision to action – future is now

White papers
2014 (FI), 2015 (EN) and 2018 (FI)

Government agenda & spearhead programmes 2015 →

International conferences 2016, 2017 & 2018
mydata2018.org

Specification + Code
Architecture documentation & Reference implementation
Case Helsinki
Helsinki committed to furthering mydata principles

• Helsinki has already taken first steps to this model by **mapping the sources** of the city’s personal data reserves and **drafting concepts** for trying out MyData solutions in the future.  

• Report states that at **least 209 out of almost 800 Helsinki’s IT systems** contain personal data

• Types of personal data vary -> but email or address were included in **40% of the cases**
Mydata supporting our carbon neutrality targets
Smart homes – more data

Climate Friendly Housing Companies

URBAN LAB 16.5.2019

7/23/2019

Timo Ruohomäki, FVH
Increasing energy efficiency in private housing companies with data-driven services

• Project partners:
  • City of Helsinki (4 houses)
  • City of Vantaa (2 houses)
  • Green Building Council Finland
  • HSY (online training)
  • Forum Virium Helsinki (data collection and platform)

• Project outputs: Data Portal, Digital Services Guide, Online Training Platform
Sensor data (T,RH,CO\textsubscript{2})
Data Platform and GDPR

Sensor data → Facility API → Apt A1 → MyData
Apt A2 → Service 1
Apt A3 → Service 2
Apt A4 → Service 3
BAS

Consent (Contract)

Legitimate Interest

See also: GDPR Article 6, Lawfulness of Processing
Consent
Consent
Consent
Cities Coalition for Digital Rights is a joint initiative launched initially by Amsterdam, Barcelona and New York City that has the support of UN-Habitat, EUROCITIES, CGLU and other participating cities to protect, promote and monitor residents' and visitors' digital rights. City governments have already been taking actions.
The Ethics of Using Artificial Intelligence in city services

There is great potential for the use of Artificial intelligence (AI) by cities. With the help of AI, we can provide more responsive services to citizens. However, AI poses ethical issues that need special attention, as Chief Digital Officers of London and Helsinki here we explain why and suggest an approach for city government.
MyData 2019
Rebuilding trust - for human-centered data economy
SEPT 25-27 2019
HELSINKI, FINLAND
How can we help you to create future city services in Helsinki?
How can we shape the future of cities together?

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