Sharing Consumer Energy Data – Lunch Workshop
MyData 2017
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Kalasatama – a new district for smart living in Helsinki

- Kalasatama is a pilot district for new solutions that enable smart living. It’s a place for inhabitants in Helsinki to develop new services together with Helsinki City and commercial players.

- Helen Ltd is building a smart energy system in Kalasatama, making use of:
  - Local solar energy
  - Infrastructure that supports electric vehicles
  - Energy storages
  - Energy efficient building automation
1) Reduce the environmental impact of housing and living through energy efficiency, data and automation
2) Create a future proof infrastructure that enables innovative new services
Monitoring and remote control of electric appliances
Consumption of electricity and water
Timing
• Modernize your backend technology
• Learn which data you want to use yourself and which one you can trade
• Create APIs for customers who want to give their consent for 3rd party use of energy data and for 3rd parties who want to use it

https://enne.helen.fi
Using Energy Data for 3rd Party Consumer Services

Veera Mustonen
MyData 2017 31.8.2017
How could energy data add more value to the users?

• First time in Kalasatama, real-time smart city energy data used for real-time consumer services
  • Energy data via private apartment APIs
  • Combining different kind of data through different APIs and applications
• 2 use cases:
  • Kotihiiili: Personal real-time CO2 calculator
  • Elwedo: Modeling benefits of local energy production and local sharing
Kotihili

Will people reduce their CO2 footprint when constantly aware of their real consumption?

- Energy data
- Mobility data
- Food
Elwedo: Will people increase solar power investments when aware of the real benefits?

Local solar power plant open data used for modelling.
Consumers interested-behaviour change will require more

- User consents individually and manually
- Residents found personal data input and tracking hard
- Personal CO2 data clearly sensitive
- Aggregated household energy consumption data not-sensitive
Lessons learnt

- Good services need a variety of data
- Data handling and integration is hard work
- APIs, data quality, granularity issues, timing
- Data operators needed
- User value is the key – real time data is not