

The importance of open platforms in technology for ageing and care

Ad van Berlo, Ph.D., M.Eng., M.A.
a.vberlo@smart-homes.nl



SMARTHOMES

Digital service platform



- A digital set of tools based on highly secure cloud technologies for easy and quick integration of apps and digital services;
- Open: when fulfilling the following criteria:
 - Open Standards Based
 - Federatable
 - Shared common information models
 - Vendor and technology neutral
 - Supports open data
 - Provides open APIs
 - Open usage (adoptability)
 - Open adaptation

Why an open service platform?

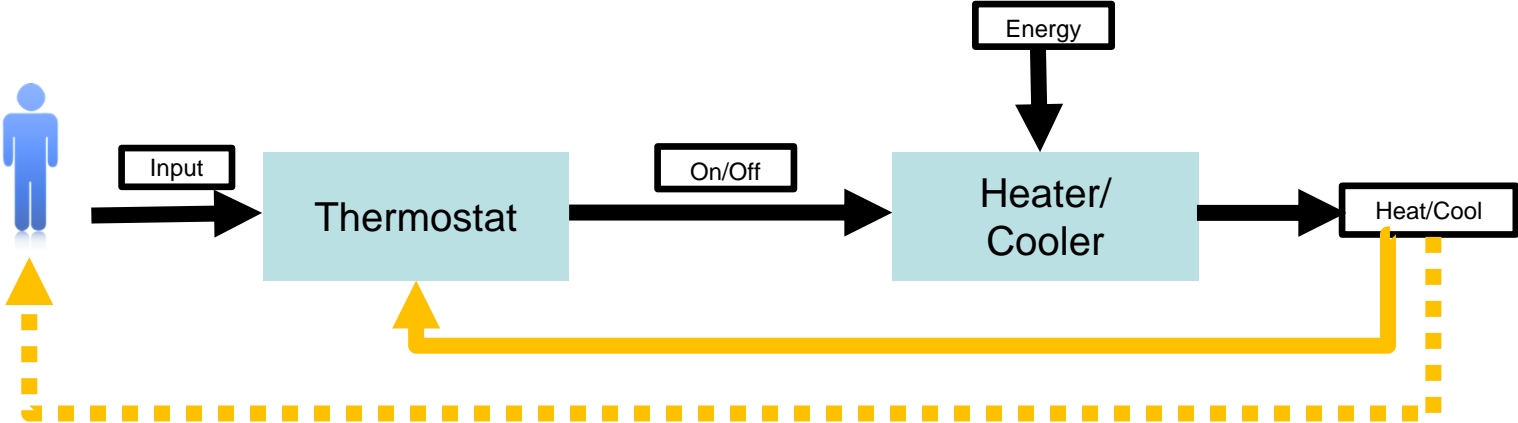


- For economic reasons:
 - Only ONE platform provider instead of many for each individual application or service;
 - More cost efficient and cost effective when offering services with assistive technologies;
 - Lower maintenance costs;
 - Easier big data analytics for machine learning and AI technologies;
- Easier to access for newcomers in the field than when to approach companies with proprietary platforms.

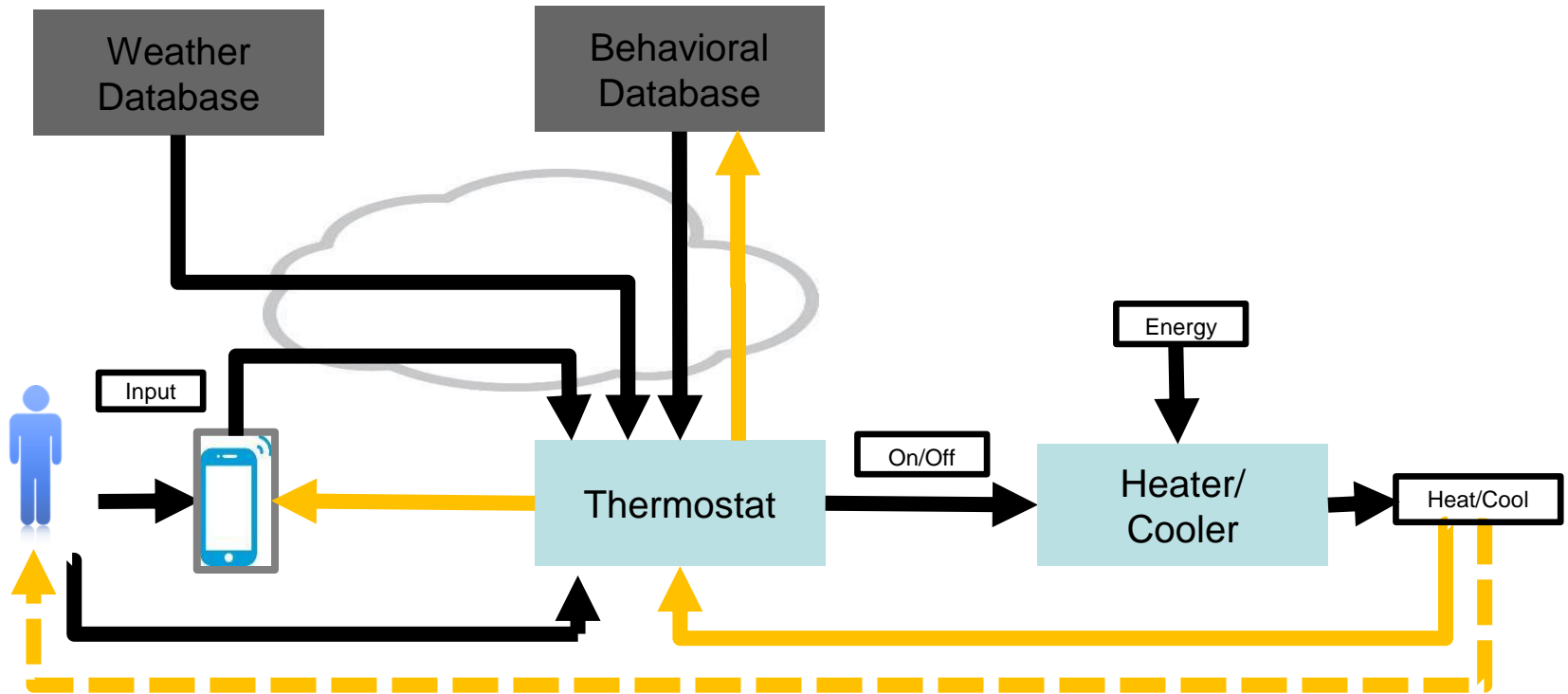
What is specific in AT and AHA?

- More emphasis on data security and privacy;
- More dedication towards semantic interoperability;
- Not so many commercially successful open service platforms on the market yet;
- Many funded EU projects, which remained in the pilot phase, without commercial follow-up;
- A try to promote the uptake via:
<https://www.platformuptake.eu>

Simple heating in the past....



More complicated heating via an open service platform...



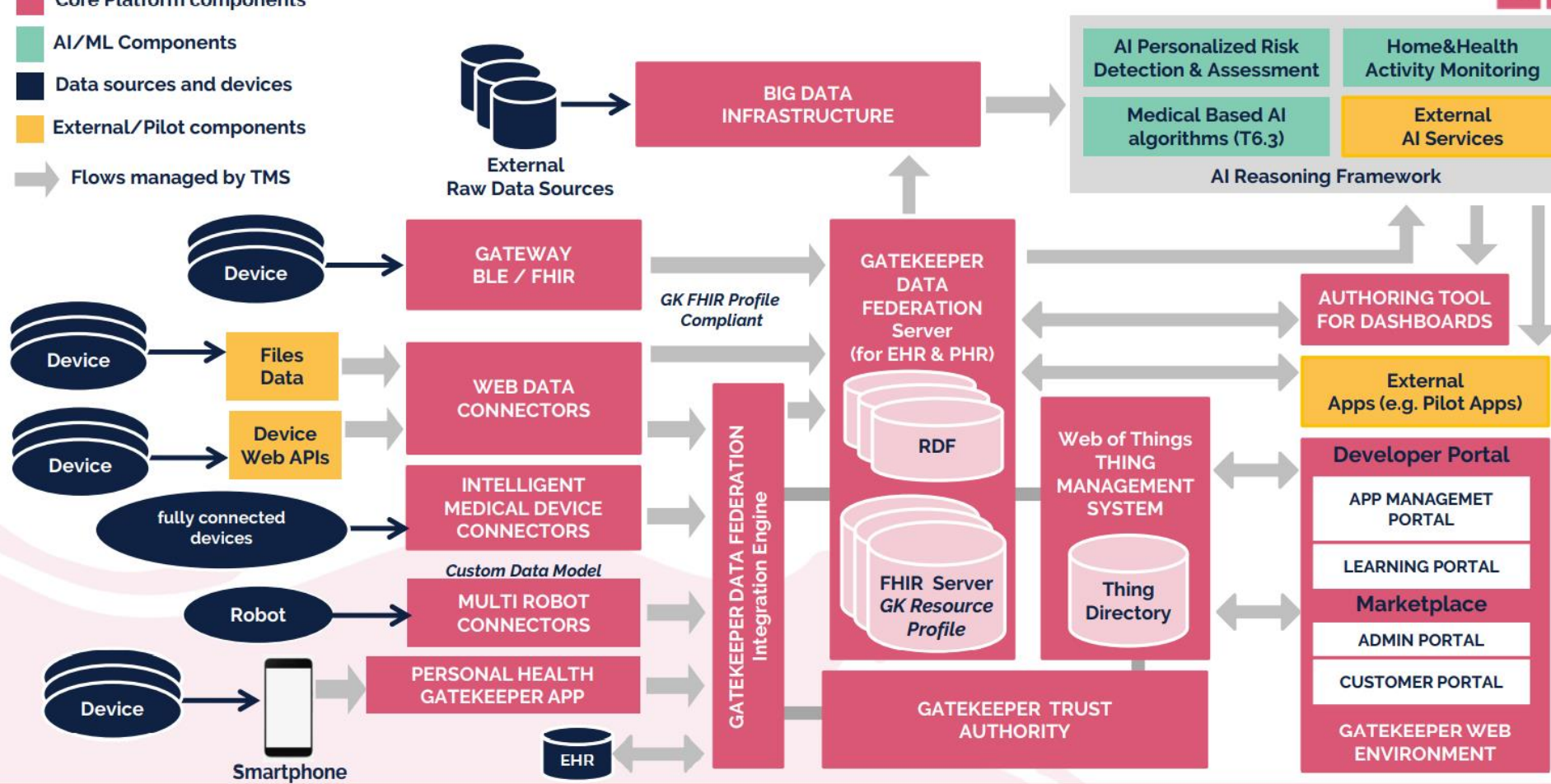
An example of an open service platform

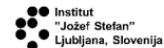
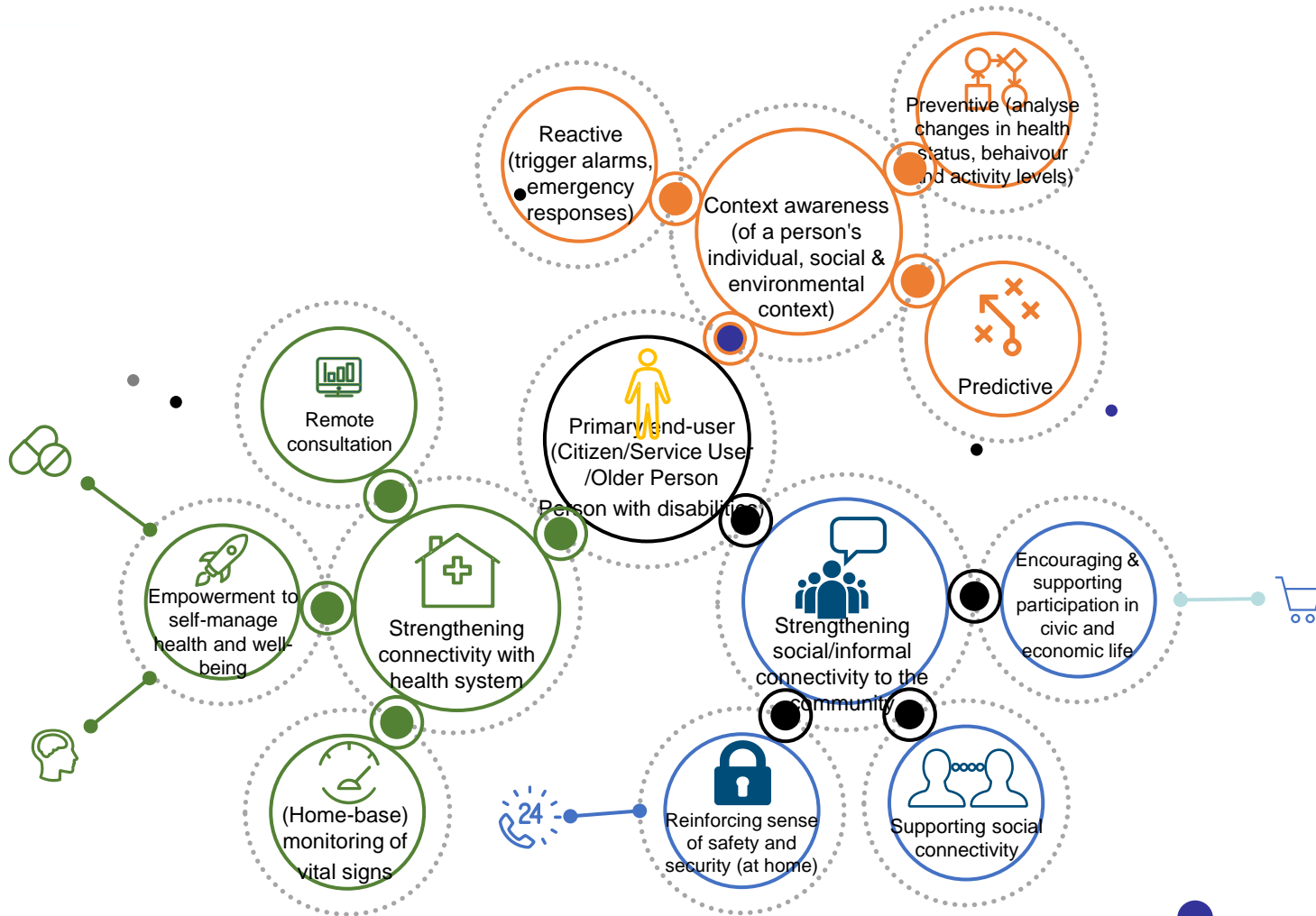
GATEKEEPER PLATFORM ARCHITECTURE

LOGICAL VIEW

- Core Platform components
- AI/ML Components
- Data sources and devices
- External/Pilot components

→ Flows managed by TMS





This project has received funding from the European Union's Horizon 2020 Research and Innovation Action under Grant Agreement No 875452.