



The Smart City?



"A city that monitors and integrates conditions of all of its critical infrastructures [...] can better optimize its resources, plan its preventive maintenance activities, and monitor security aspects while maximizing services to its citizens." -Hall

"The bias lurking behind every large-scale smart city is a belief that bottom-up complexity can be bottled and put to use for top-down ends—that a central agency, with the right computer program, could one day manage and even dictate the complex needs of an actual city." - Lindsay







"Change seldom arises from purely top-down or bottom-up systems and processes"

(Shepard & Simeti, 2013)

Local Innovation Platform



- Cities are a shared resource and responsibility
- An enabling environment for all involved stakeholders
- With technology as an enabler
- Open data, open innovation, co-creation, living labs
- Quadruple helix put to practice





Quadruple helix in practice: City of Things

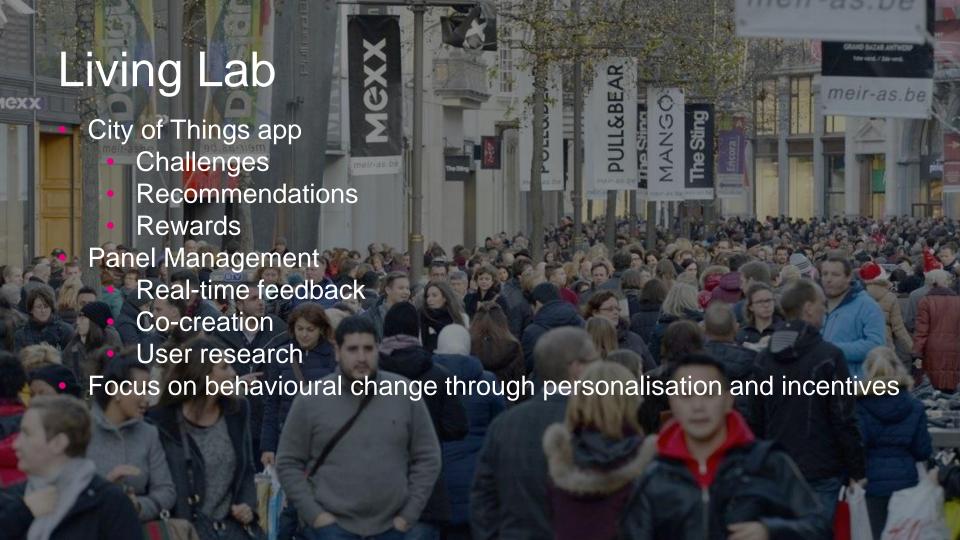


- City of Antwerp
- Mobile Vikings
- iMinds
- Citizens



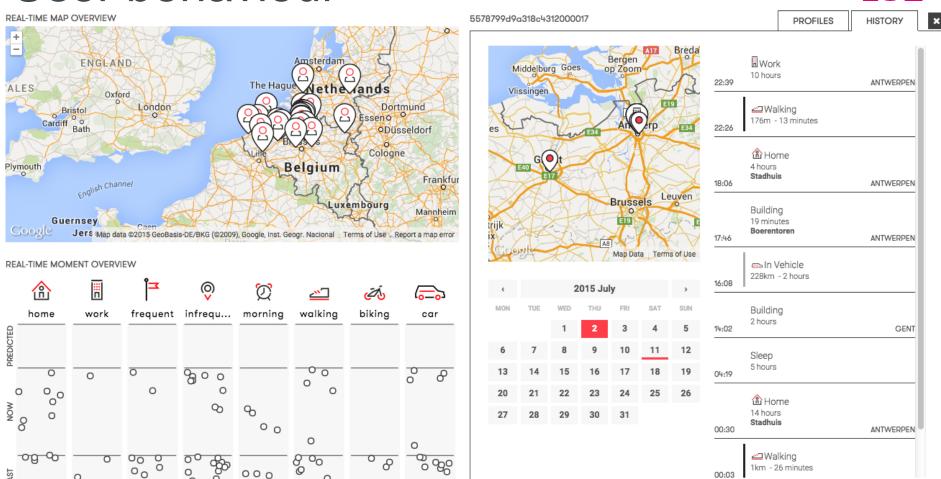
 In a real-life test environment, where users and producers co-create innovations in a trusted, open ecosystem that enables business innovation

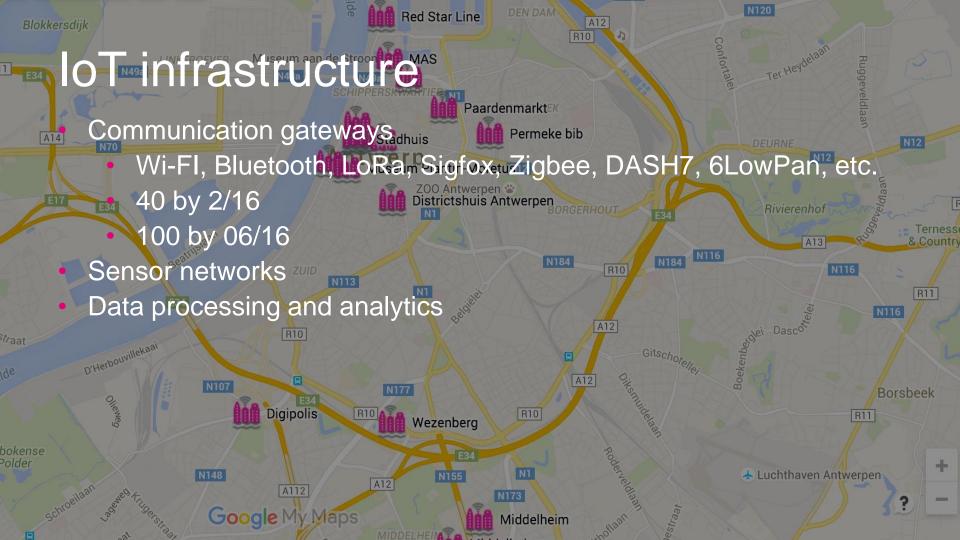




User behaviour

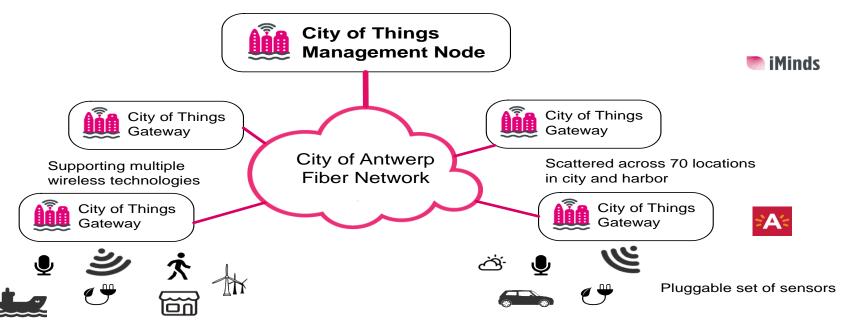






General architecture







Three layers





Business layer

Living lab and analytics infrastructure for evidence-based innovation



Data layer

Providing an open data platform with a real-time view on the city



Network-layer

Deploying a city-wide network connecting multiple wireless technologies



Partnership





Target groups



- The City itself: IoT as an upgrade
- Startups & SMEs: the city as an experimentation lab
- Researchers: IoT tech, business & social research



City of Things



- Technological capacity to gather and analyse user and sensor data
- Infrastructure to involve, track, and interact with users at a very large scale
- Platform for evidence-based innovation
- Equipping the city with new tech
- Public-Private collaboration models



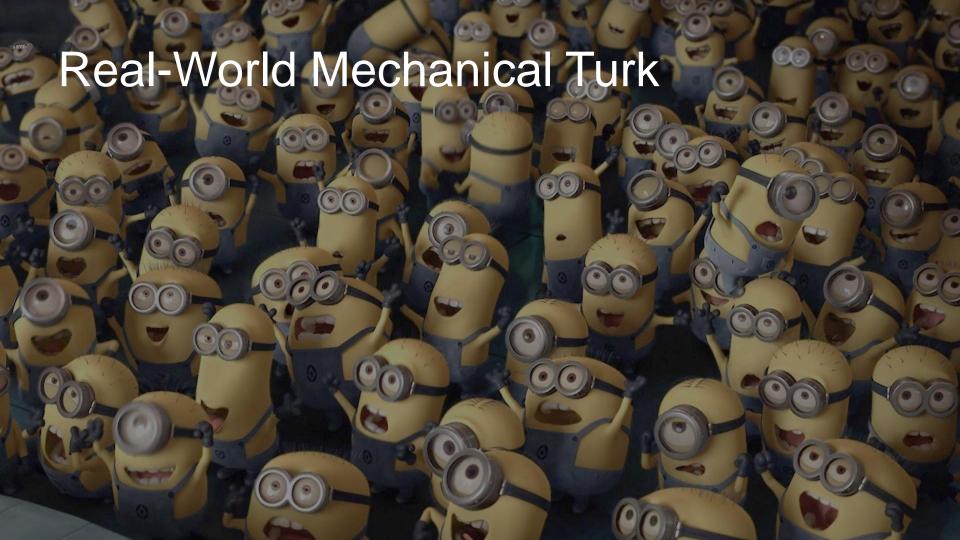
Smart Services: A-Kaart + CityLife

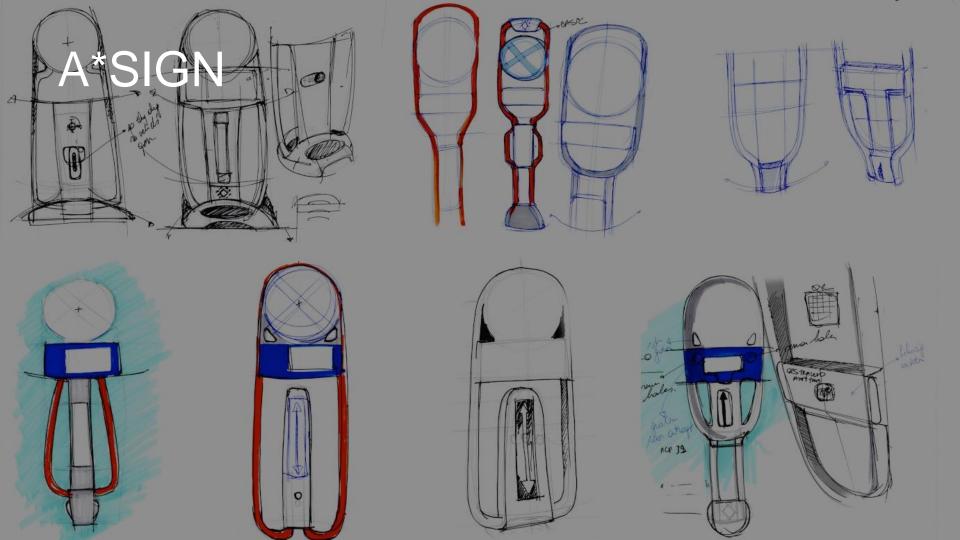
















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