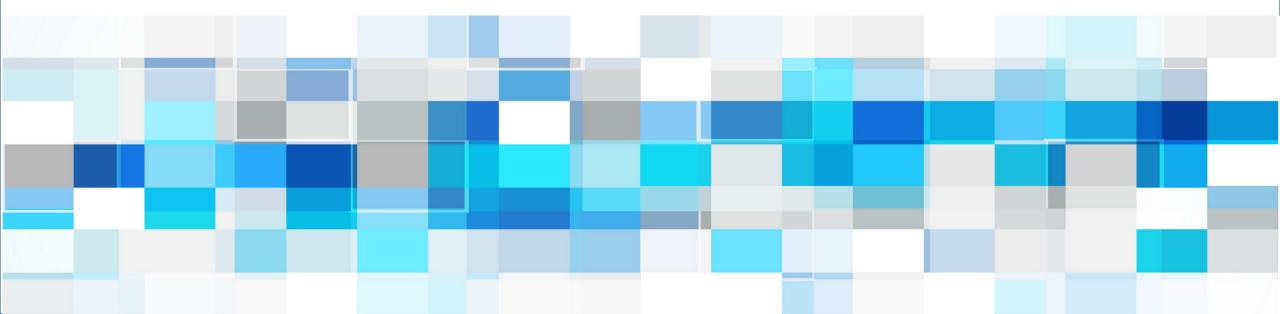




SHAR-Q - Open IoT Operational System "light"

Adam Kapala / ATOS IT SOLUTIONS AND SERVICES







SHAR-Q SW platform

SHAR-Q platform consists of inovative and disruptive technology and services

- □loT
- □loE
- □Social network
- Application store (similar to Google Play, App Store)
- Decentralized computing architecture
- Distributed communication architecture
- □P2P communication
- Cloud

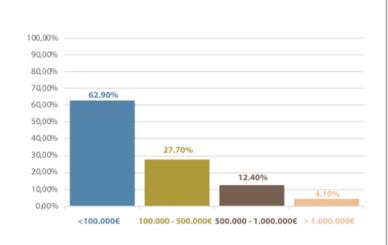




SHAR-Q simple gradual integration of IoT Assets based on the IoT initiative requirements



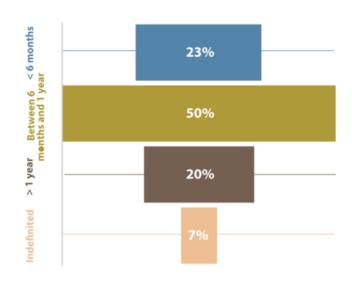




Fast deployment and easy proof of concepts using existing examples



Projects' average duration





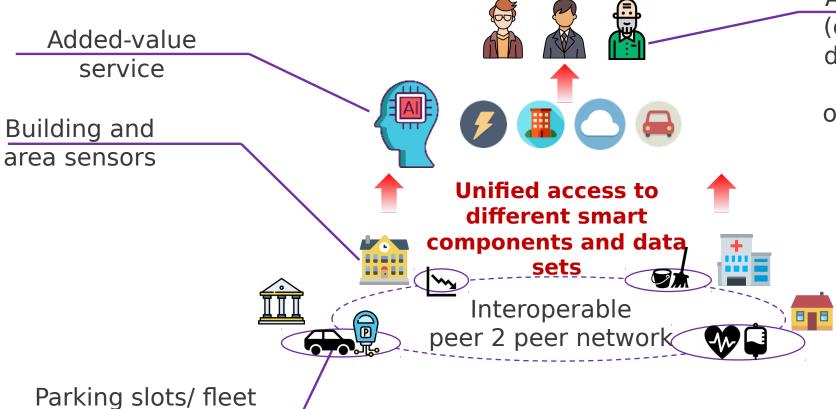








SHAR-Q Vertical value chain



Added-value service users
(e.g. energy managers, car
drivers, building operators,
cleaning services, fleet
operators, hospital visitors,
patients ...)

Challenge is to deliver facilitate collaboration actors securely with privacy in mind

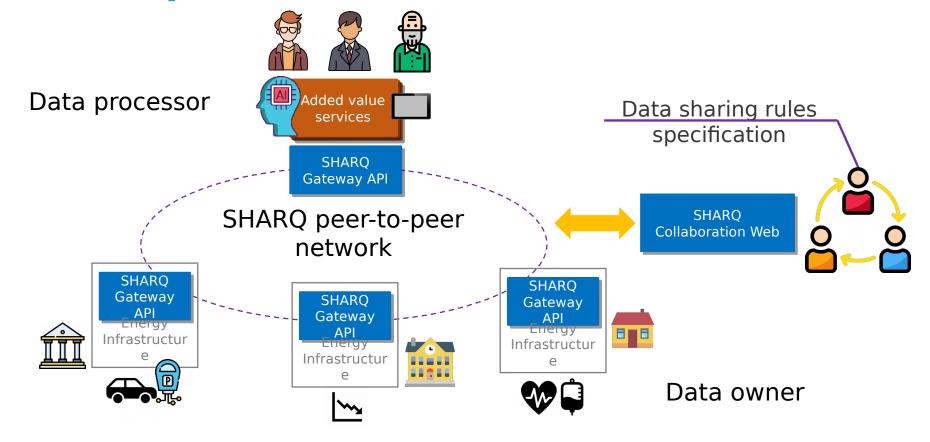








The service value accessing devices from IoT platform



Data are distributed where needed under owners supervision.



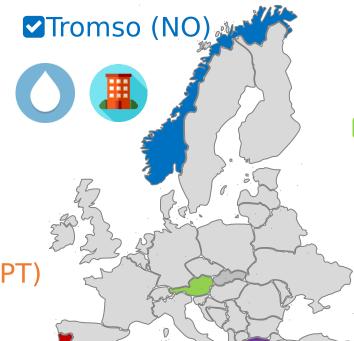






SHAR-Q pilot installations

✓ Oslo (NO)





































Use Cases examples (pilots)

- Assisted living for elderly people
- Indoor Air Quality Monitoring
- Predictive Building Operations Management
- Building Energy Management
- Shared Parking Service
- ➤ Electric Vehicle Charging infrastructure ekosystém including integration of end consumer, DSO, RES, V2G services
- Electrical storage + Renewable energy sharing with neigbours, local and regional grid











Value Proposition, Differenciators

- Simple gradual / Iterative approach variability of environment and issues in each region works against repeatable solutions. The positive impact in one city can be hardly recognized in another. Thus, municipalities needs fast, effective, flexible and variable solution with shared economy.
- ➤ Use Case oriented don't start from sensors. Start with existing issues what use case can help what information we need and then what sensors we must deploy.... SHAR-Q can interconnect it all in open interoperable network and collaborative manner.
- ➤ Smart City and IoT apps = single- and cross-domain experimenting. Hard to estimate the impact. Lots of services reveals, few of them will survive. SHAR-Q make this Learn by Failure less painfull.
- enable sharing of data at semantic level
- Digital sovereignty by design. Users maintain ultimate control of their data, no disclosure to 3rd party. Digital sovereignty.
- GDPR-ready architecture
- Edge-computing approach / P2P yields higher scalability, dependability







SHAR-Q - Open IoT Operational System "light"

Adam.Kapala@Atos.net





















