Phased Evolution of Smart City Initiatives

1. Launch

- Application Logic Layer
- Platform Layer
- Connected Devices & Sensors

2. Initial Expansion

- Traffic Monitoring Application
- Traffic Monitoring Application
- Environmental Sensing Application

3. Expand & Innovate

- Horizontal Services to Enable Interoperability
- Citizen Feedback
- Data Pull

Social Media Application

Source: ETSI Whitepaper “The 4th Industrial Revolution and the Municipal CEO” April 2018
Adding Common Services via a Horizontal Platform

- AI/Analytics Toolkits
- Security Policies
- Privacy Policies
- Data Monetisation

Horizontal Services to Enable Interoperability

- Citizen Feedback
- Extendable to New Applications
- Data Pull

Traffic Monitoring Application
Environmental Sensing Application
Social Media Application

Source: ETSI Whitepaper “The 4th Industrial Revolution and the Municipal CEO” April 2018
Evolution of the smart city data market

• Contextual urban data has integration value
  • e.g. mobility, occupancy, environment, spend, benefits, health, energy. media
  • predictive demand allows for capacity management, peak shifting, etc

• Blockchain wallets can be HW authenticated on sensors and devices

• Value can be captured and converted to units of citizen benefit

• Options for pseudonomisation, aggregation, delay, forget me