

Sigma for Smart Cities

Smart Cities Realised Summit

Liverpool June 2018

Cities Love Data.

It's what makes a city smart...

Collecting, Curating,
Interpreting/Analyzing,
Enhancing, Predicting,
Triggering Adaptations

Health, Transportation,
Energy, Water, Waste,
Economic, Environment,
Recreation, Safety,
Governance, Telecom

...but chaos is just around the corner

New technologies like IoT and 5G are going to cause an explosion in data

Most cities do not even have a **paper catalog** of the information they have

Hello Disruption.



The real opportunity is in becoming **lifestyle** providers

Dynamically connect new **smart digital services** with telecom services.

Deliver rapid innovation with **mass personalization.**

Adopt **new business models** with agility.

Create, sell and deliver new service innovations in a dynamic environment.

Lessons to be learned from Telecom Providers...



Catalog can help...

Start by tracking your data sources. **Onboard, Track, Describe**

Represent your partner services as building blocks. **5G, IoT, RFID, Cloud**

Define dependencies and classifications. **Ontology**

Innovate new services. **Re-use, Share, Provide**

Define products. **Monetize**

Catalog-Driven Smart City

Self-Service Web and Mobile apps

Omni-channel access to smart services



Coordinated technology fulfillment

Partner and Cloud requests associated with smart services are orchestrated

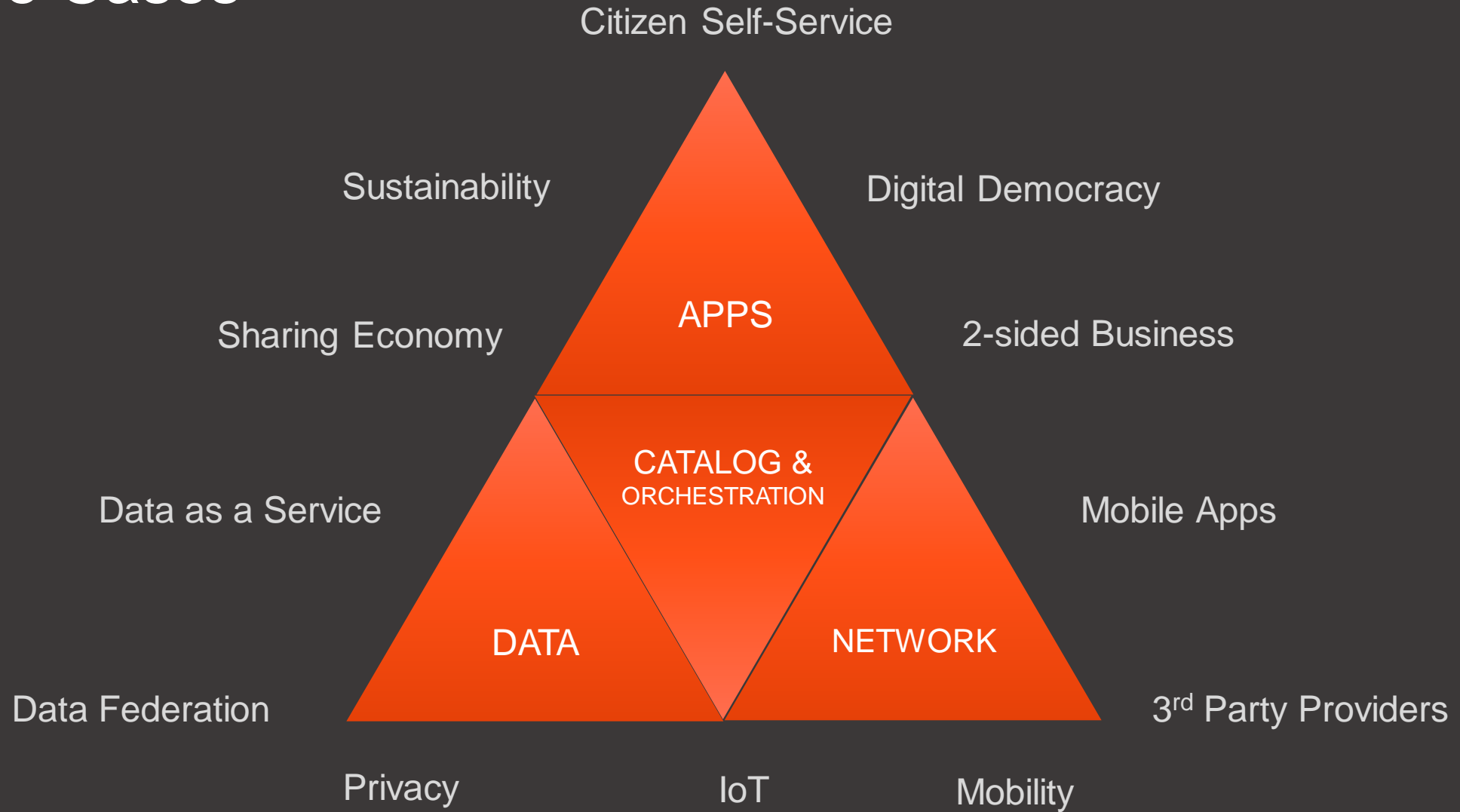


Coordinated management of data

Data Sources are updated as required by smart services



Use Cases



Smart City Service Types

Observational

use cases that allow citizens, businesses, partners or the city itself to access or combine data so I can see how 'my' city is working (or not). Data as a service. (e.g. Mobile app that can access environmental data)

Predictive

use cases with some knowledge base (need not be as sophisticated as AI/ML) but may result in actuation to control the city without human intervention (e.g. predictive traffic control).

Transactional (Monetized)

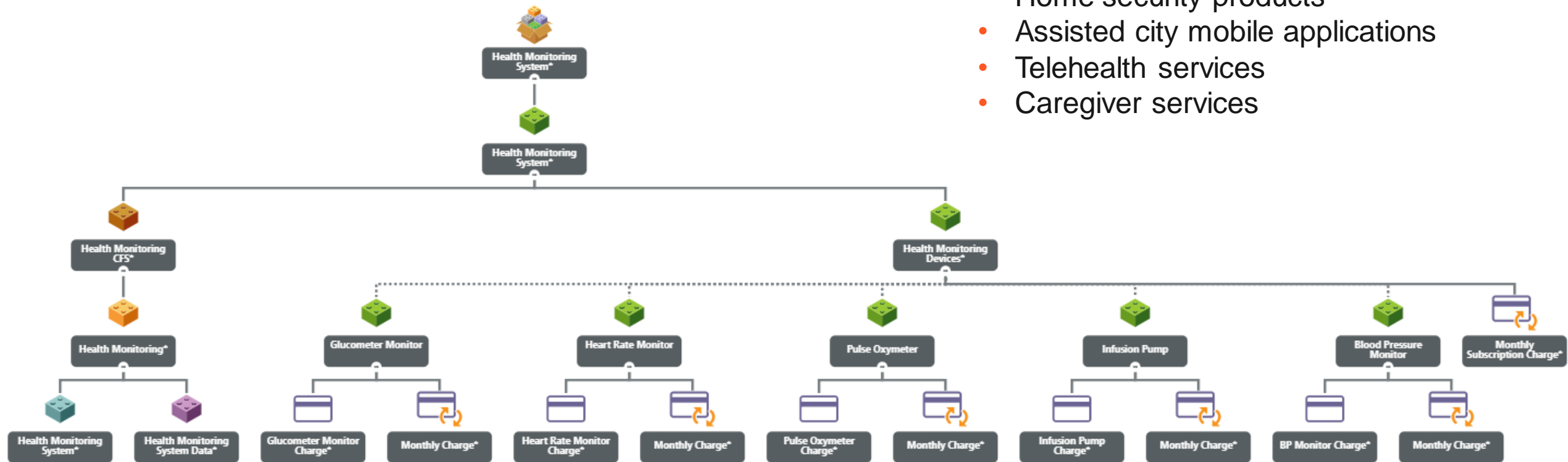
use cases that allow the city to monetize city services for use by citizens, businesses or partners. (eg. Ordering a Health Monitoring service)

Transactional (Non-Monetized)

use cases that require a controlled transaction but do not involve payment or monetization of a city resource (e.g. reporting a traffic accident)

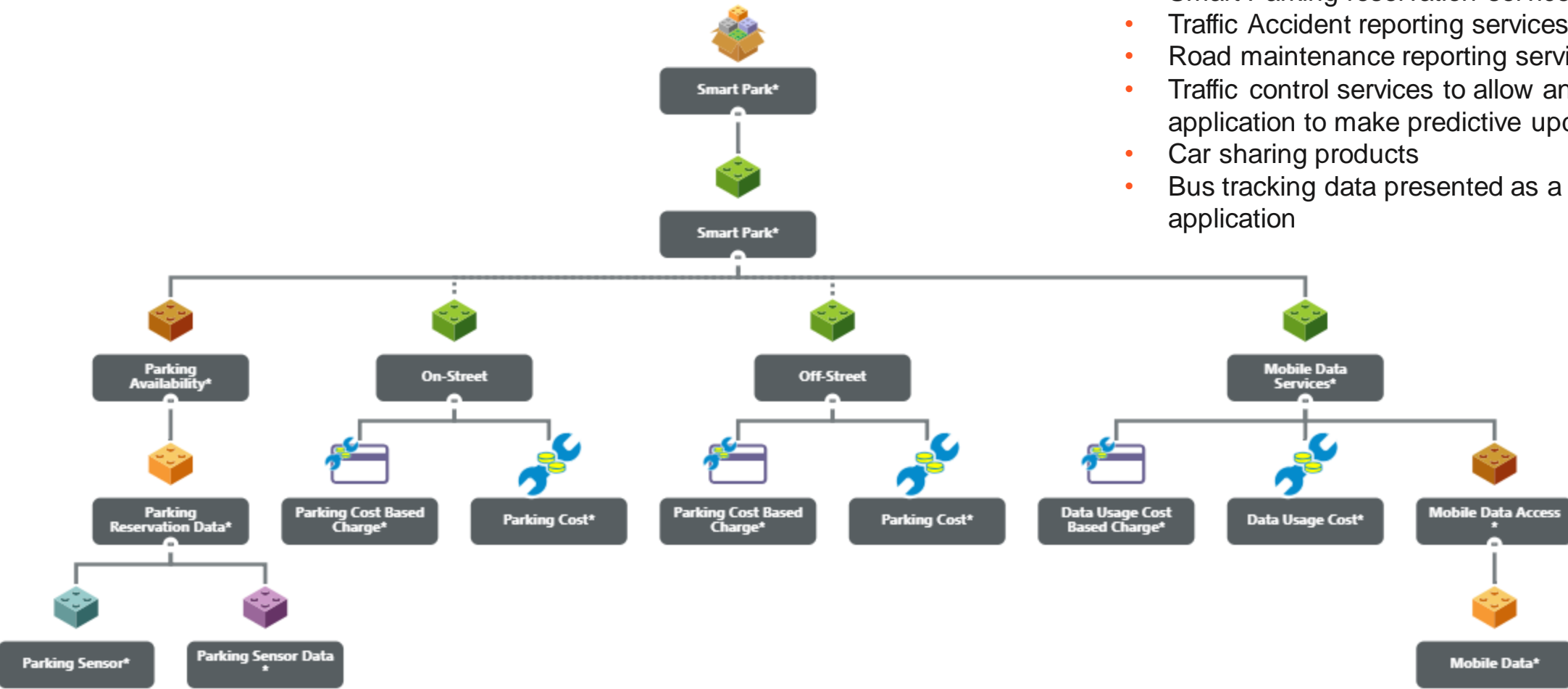
Ageing Population

- Home health monitoring products
- Car Ride services
- In home meal services
- Medical assistance services
- Health Provider appointment services
- Alerts and activity monitoring services
- Home security products
- Assisted city mobile applications
- Telehealth services
- Caregiver services



Smart Transportation

- Parking utilization based on parking sensor data
- Rental bike products offered by city partners
- Traffic flow data presented as a service to analytics applications for mapping or travel time calculations
- NPRC data presented as a service to
- Smart Parking reservation services
- Traffic Accident reporting services
- Road maintenance reporting services, e.g. potholes
- Traffic control services to allow an analytics application to make predictive updates to traffic flow.
- Car sharing products
- Bus tracking data presented as a service to timetable application



Come and see a demo at the Sigma booth
Stand 5, Room 1, Hall A

SIGMA

Next Done Now.

Questions?

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