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#Bucksdigital

SMART CITIES & DIGITAL ECONOMY

BUCKINGHAMSHIRE DIGITAL SUMMIT
19.10.2016

PRESENTED BY VIVEK AGARWAL & EMAN MARTIN-VIGNERTE

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Smart City

Mega trends in a fast changing world

Mobility

Parking space search is responsible for 30% of the traffic in cities.

Urbanization

Cities represent 2% of the globe and 50% of the population.

Connectivity

New ICT, data management and IoTs devices increase the need for governance rethinking.

Smart City

Cities consume 75% of the produced energy, buildings have 40% energy efficiency.

Resources

The ageing of Western countries' population implies new needs.

Demography

Quality of life is a key element for attractiveness in the city.

Quality of Life

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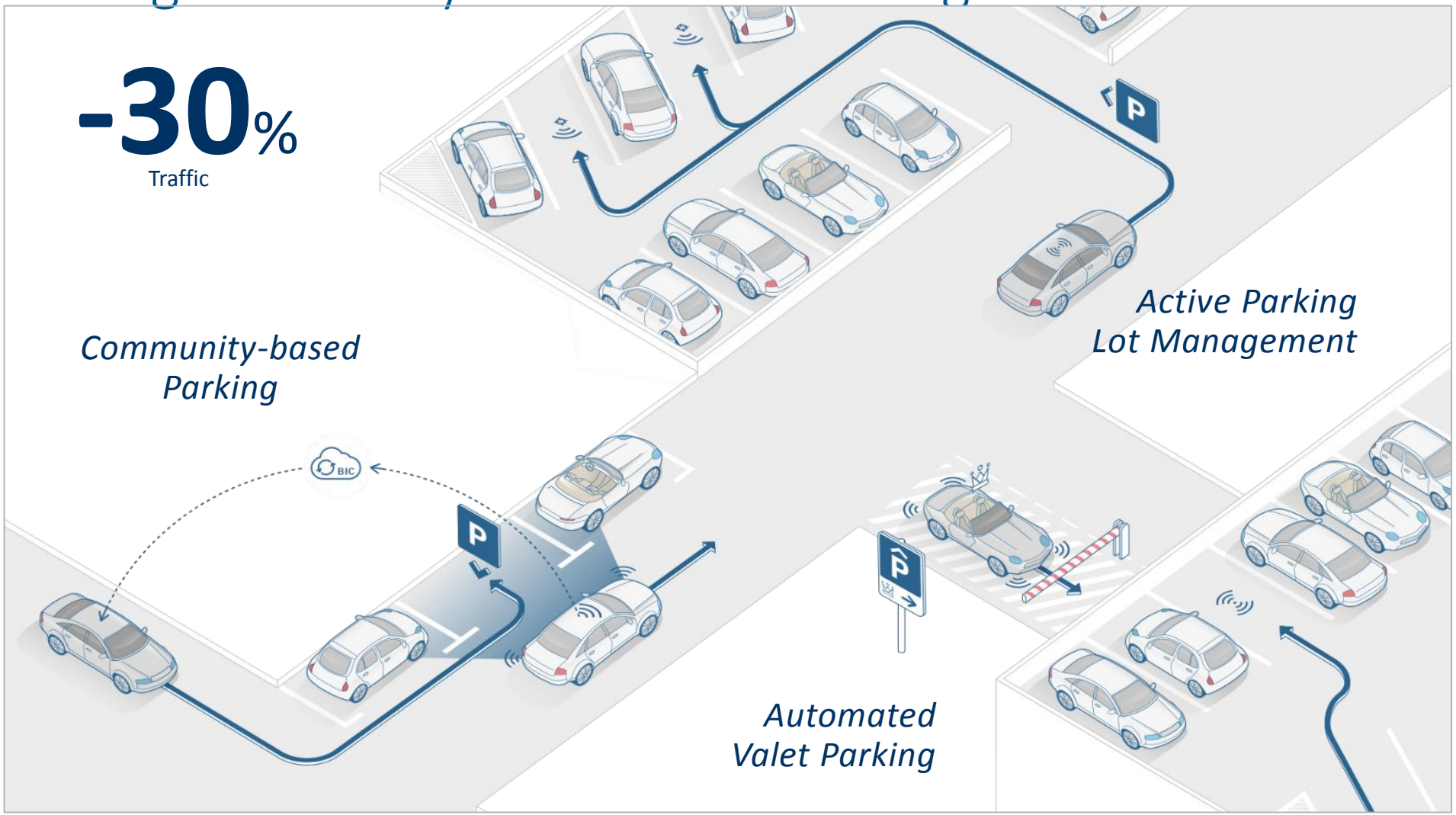
Connected Mobility

Parking made easy: Connected Parking



IoT Suite

Bosch IoT Suite

Things

Ultrasonic Sensor

Connectivity Control Unit

Park sensor

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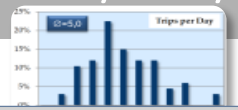
Connected Mobility
Connected Bikes

Vehicle's Logbook

- Vehicle usage report (time, dist., location)
- Private/Business Mode
- Portal access to edit data

Journey Analysis

- Distance statistics (histogram, avg., dev.)
- Daily time usage, idle time report

Bike Tracking

- Real-time Bike locator and tracking
- Used street profile (highway, city, ..)

Geo Fencing

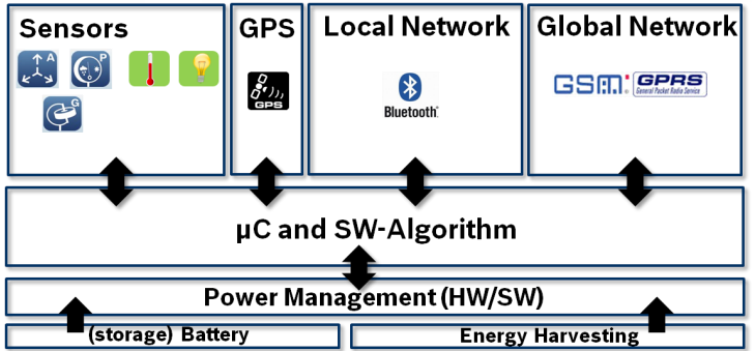
- Surveillance of defined usage area
- Alert in case of defined trigger

Theft Tracking

- Implausible motion patterns triggers an alert (e.g. motion with ignition off)

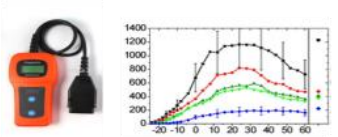
Crash Detection

- Crash data recorder
- Early information on damage for active workshop steering

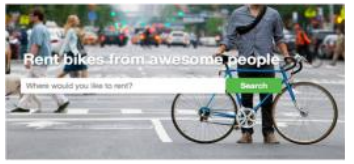


Emergency Detection

Theft Detection


Diagnostic / Maintenance

Activity Tracking



Bike sharing

Vandalism detection

Advantages

Gather information on mobility flows

Always know the position and status of your bike

Support new business models

Enable quicker emergency response

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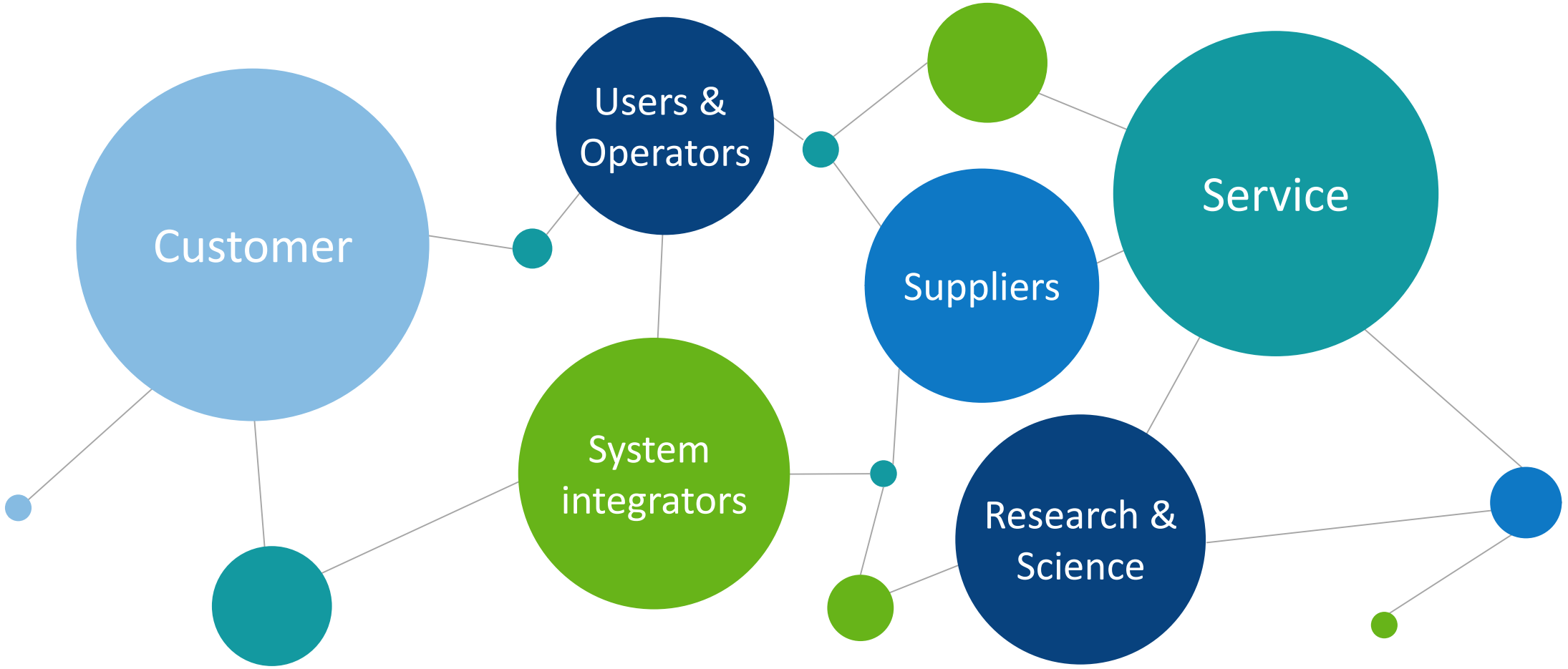
Industry 4.0: the next industrial revolution

Industry 4.0 live at Bosch

Connected Industry: orchestrated involvement of all actors



Let’s connect and cooperate for new exciting business models!

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Industry 4.0 live at Bosch

Logistics with RFID

30% reduction of stock in processes

10% efficiency increase in processes

LOGISTIK AWARD 2014
VDA Verband der Automobilindustrie

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Production quality: Smart tightening

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Implementation roadmap

IPN = International Production Network

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Thank you for your attention!