



Building Smart Cities and Communities with Bosch

For vibrant, attractive and sustainable
places for people to be

Bosch Group

With us as a partner, you will be prepared for the future

4

business sectors

Mobility
Solutions



Industrial
Technology



Energy and
Building
Technology



Consumer
Goods



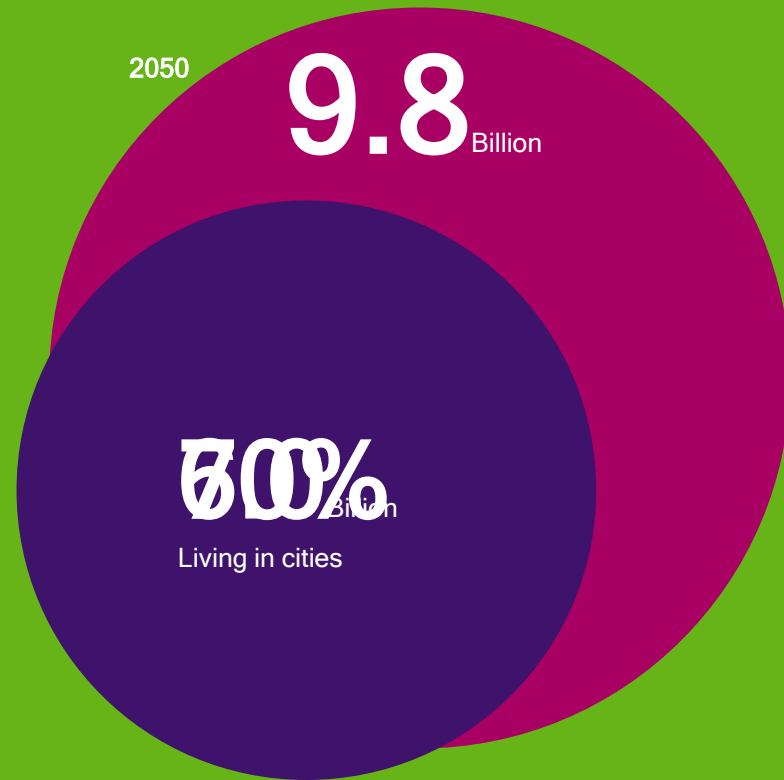
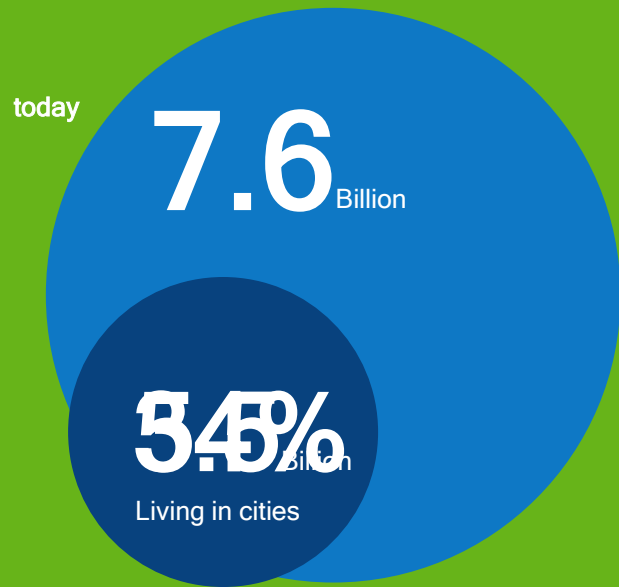
* As of 12.18



ca. **410,000*** associates

89* billion dollars in sales

Like it or not...



BUT HOW DOES THIS
CHANGE YOUR EVERYDAY
LIFE?



THE HIGHER NEED FOR ENERGY WILL MAKE IT A EVEN MORE VALUABLE GOOD!



MORE PEOPLE MORE WASTE

618 kg/ P

YOU WILL BE STUCK IN
TRAFFIC JAM MORE THAN
46H PER YEAR





DON'T YOU HAVE
BETTER THINGS TO DO?

GOOD NEWS:
YOU DON'T HAVE TO
LIKE THAT PART ABOUT
URBANIZATION!



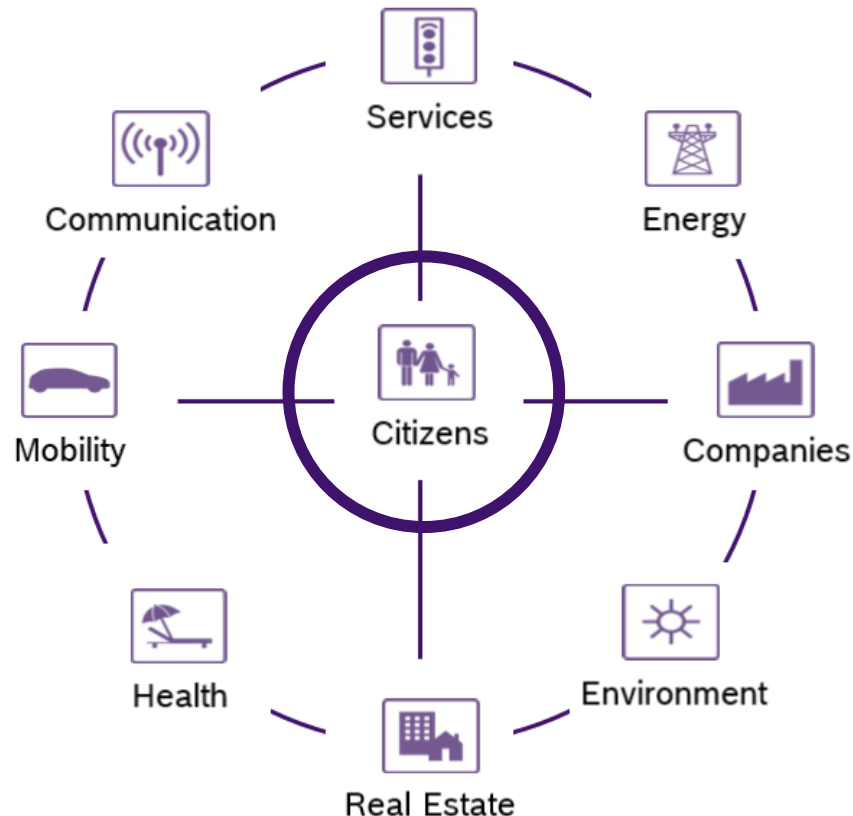
Building Smarter Cities and Communities

Smart City and Smart Community

Our **vision** for a smart city is to create an **interconnected ecosystem** that works to optimize **performance** and increase the **efficiency** and **quality of life**.

Smart City

- ▶ Retrofit/Legacy
- ▶ Responsible for sustainable development of **existing infrastructure**
- ▶ Initial focus on optimizing city for **mobility** of citizens and goods



Smart Community

- ▶ New Construction
- ▶ New real estate project development with focus on infrastructure, building and resident engagement
- ▶ Differentiate project from others by enhancing quality of life in local community

Bosch Mobility Solutions

Three Paths to Mobility of the Future

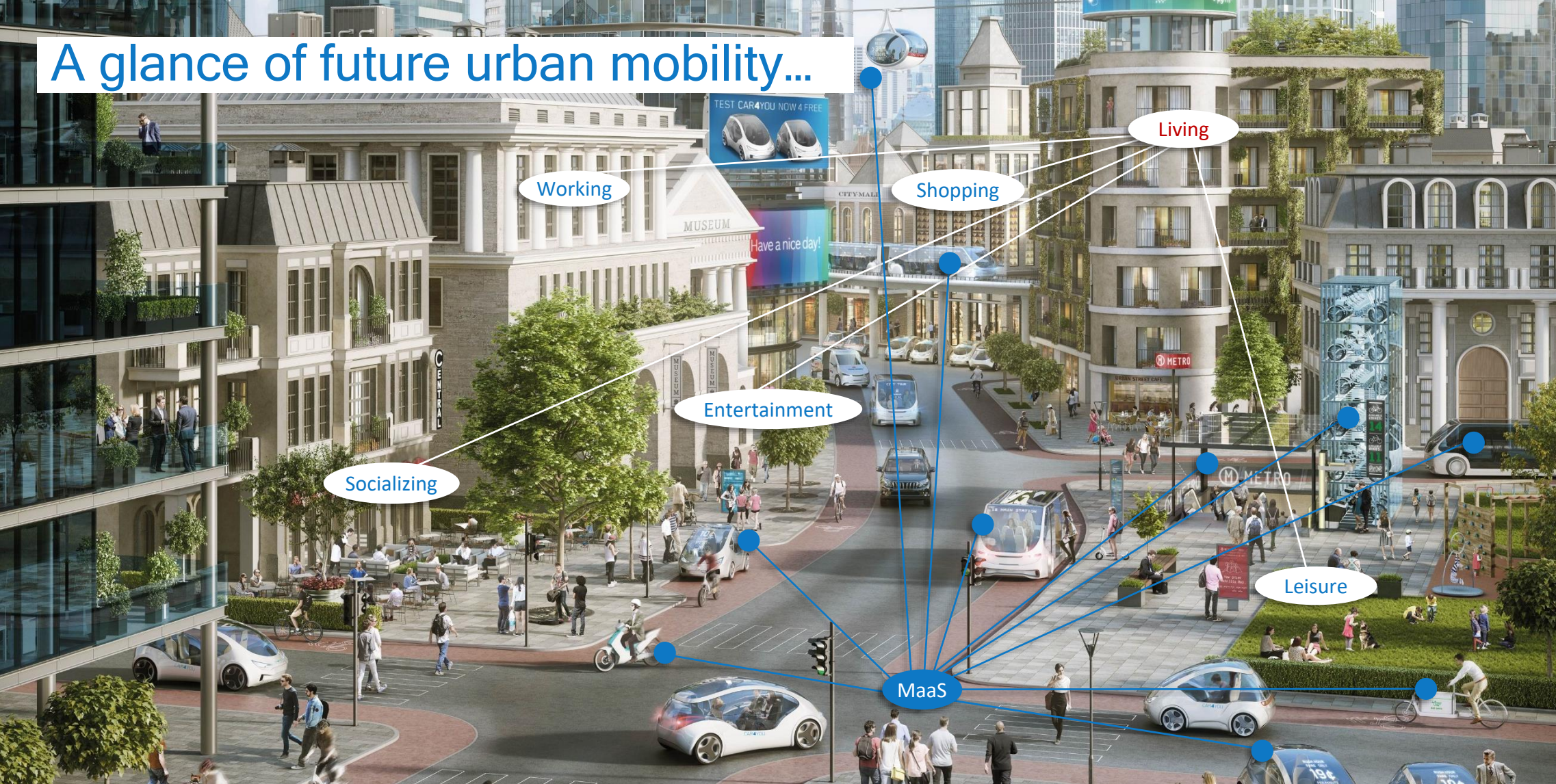


costs hybrid electric motor
 roaming power electronics
 e-bike **electrified** range
 driving enjoyment charging infrastructure
 market ramp-up battery
 e-scooter smart charging plug-in

legislation assistance systems
 emergency braking assistant
automated auto pilot
 highway pilot sensors
 redundancy electric steering
 valet parking digital environment

augmented reality electronic horizon
 internet of things smartphone integration
connected
 vehicle to vehicle cloud
 vehicle to infrastructure
 services fleet management
 entertainment eCall

A glance of future urban mobility...

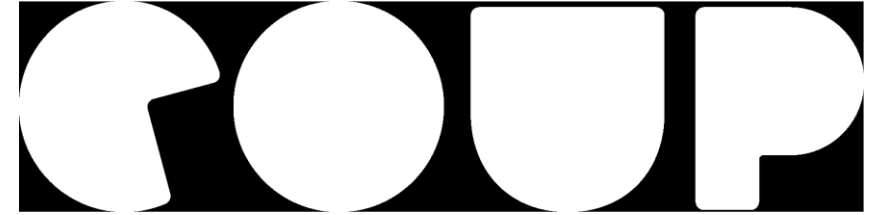


- ▶ Individual mobility will remain an important part of modern societies
- ▶ Mobility as a Service (MaaS) - frictionless/seamless options for paying, using, and choosing mobility

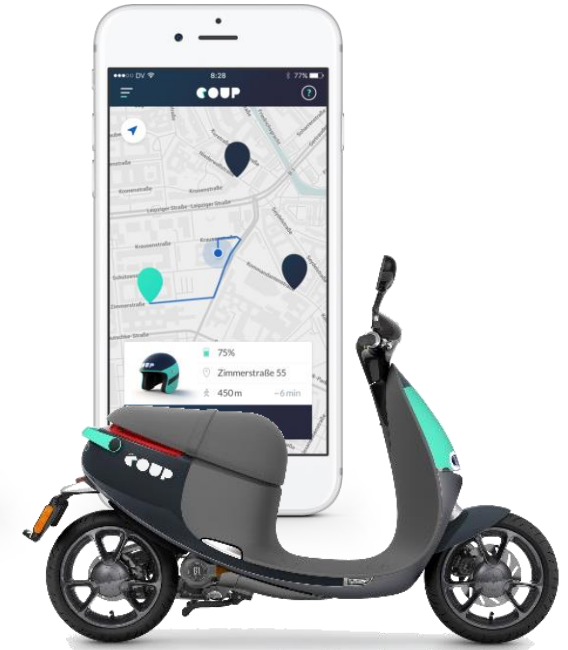
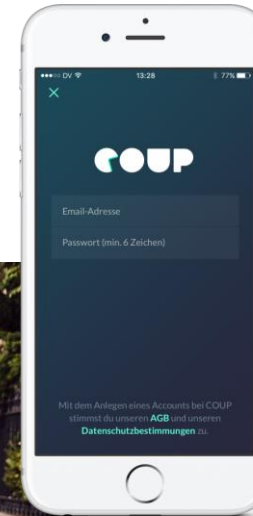
Urban Mobility Solutions

COUP - eScooter sharing-service

- ▶ What is COUP?
 - ▶ COUP is an eScooter sharing-service. The eScooter can be rented at any time and anywhere for a personal ride within an urban area.
 - ▶ COUP was founded July 2016 in Berlin - 100% subsidiary of Robert Bosch



<https://joincoup.com/en>



Urban Mobility Solutions

Intermodal commuting



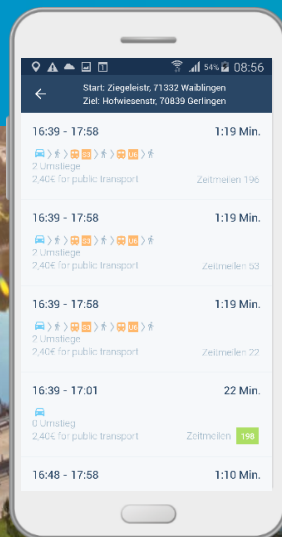
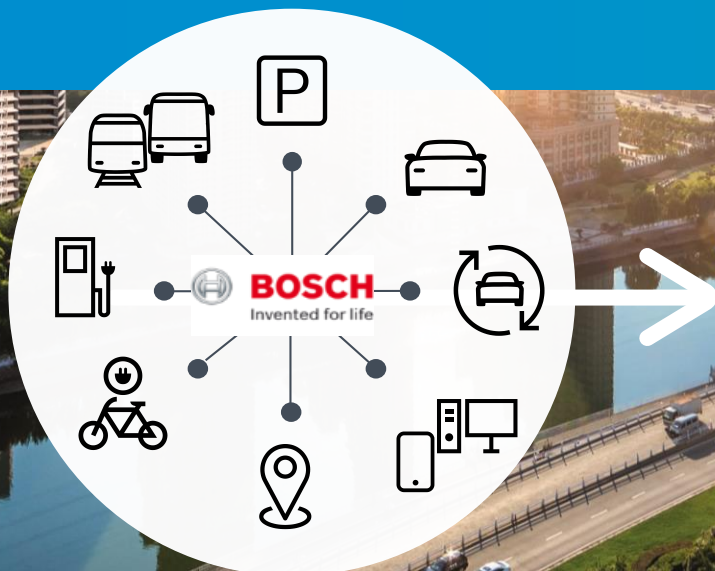
Cities gain control



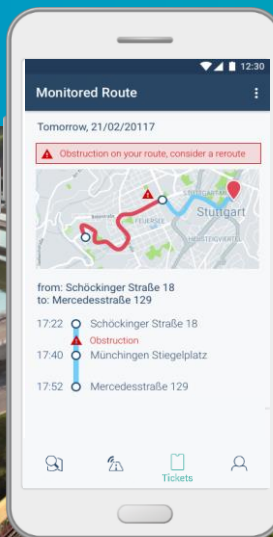
Mobility providers more frequented



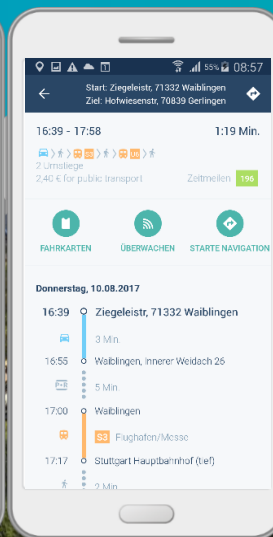
Commuters arrive sooner



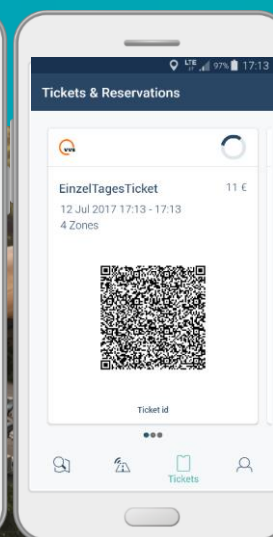
Route planning



Live data



Intermodal



Booking



Concierge

Urban Mobility Solutions

Automation: Key technology of the future

Automation facilitates accident-free mobility

- ▶ At CES 2019, Bosch showcased a vision for mobility of the future with its concept vehicle, the **Bosch IoT Shuttle**.
- ▶ Strategic partnerships help: Daimler and Bosch to launch driverless ridesharing service in San Jose California in 2019



Thank you

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Director of Business Development – Smart Cities

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