



SMART CITY
SYSTEM

More than 48.000 active sensors

Users of Parking Pilot System

- ✓ Leading european [parking operators](#)
- ✓ Leading [telecommunications](#) provider
- ✓ Leading [retail](#) chains and fast food restaurants
- ✓ Leading [energy](#) supply and infrastructure companies (including e-charging station operators)
- ✓ Regional [transport](#) associations and cities
- ✓ Research institutes

International customers in Malta, Serbia and Austria



Cities need parking facilities that provide:

Transparency through real parking data

- Reliable data basis for transportation and infrastructure development plans
- Enables data-based decisions

Modernization of the existing parking guidance systems with parking space-accurate navigation

- Traffic reduction
- Public health
- Environmental protection

Flexible use of floor space

- Efficient use of existing parking space
- Use underutilized parking spaces at specific times

Problem: E-charger availability

E-chargers are occupied by combustion vehicles or non-charging EVs:

- ✗ Incorrect overview of available EV parking spaces
- ✗ Decreased use of EV charger
- ✗ Lost monetary potential
 - ChargePoint App has designated discussion area for this problem
 - Tesla **blocks** spaces until user unblocks it via app
 - Akelius charges a **fee** for charging *and* parking
 - Alpha Power uses camera & **fin**es *anyone* not charging, even EVs.
 - EV drivers call **tow** companies



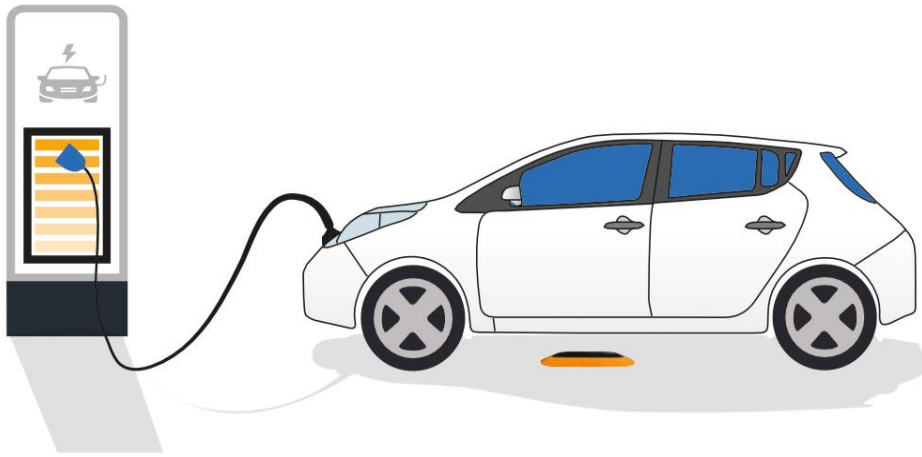
Solution: Parking Pilot System

Digitization of parking areas using sensors



Real-time availability of parking data via own software and cloud interfaces

Parking data generation for e-charging stations



Real-time parking data for EV drivers

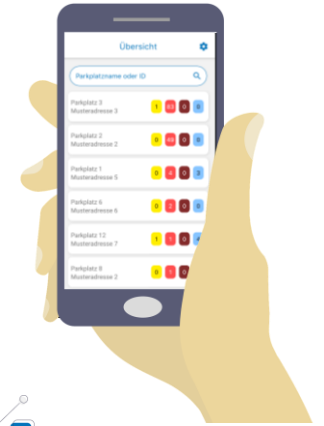
Navigation to free spaces based on real parking situation, not on whether e-charger is in use.

Detection of illegal parkers

By combining charging and parking data, a control can see immediately which parking spaces are blocked

Utilization analyses

Charging and parking data together provide exciting insights into the use of the e-charging station



Reference: Incorrect parking at e-charging stations at EnBW

„EnBW, one of the leading providers of charging infrastructure in Germany, is introducing a "blocking fee". Public charging stations are not parking spaces, but **analyses have shown that the time spent by electric cars at charging stations is increasing in many places.** Other electric car drivers would not be able to use such charging stations, which are actually free, the energy company explains.“

23.09.2020, EnBW führt Blockiergebühr an öffentlichen Ladesäulen ein, ecomento.de



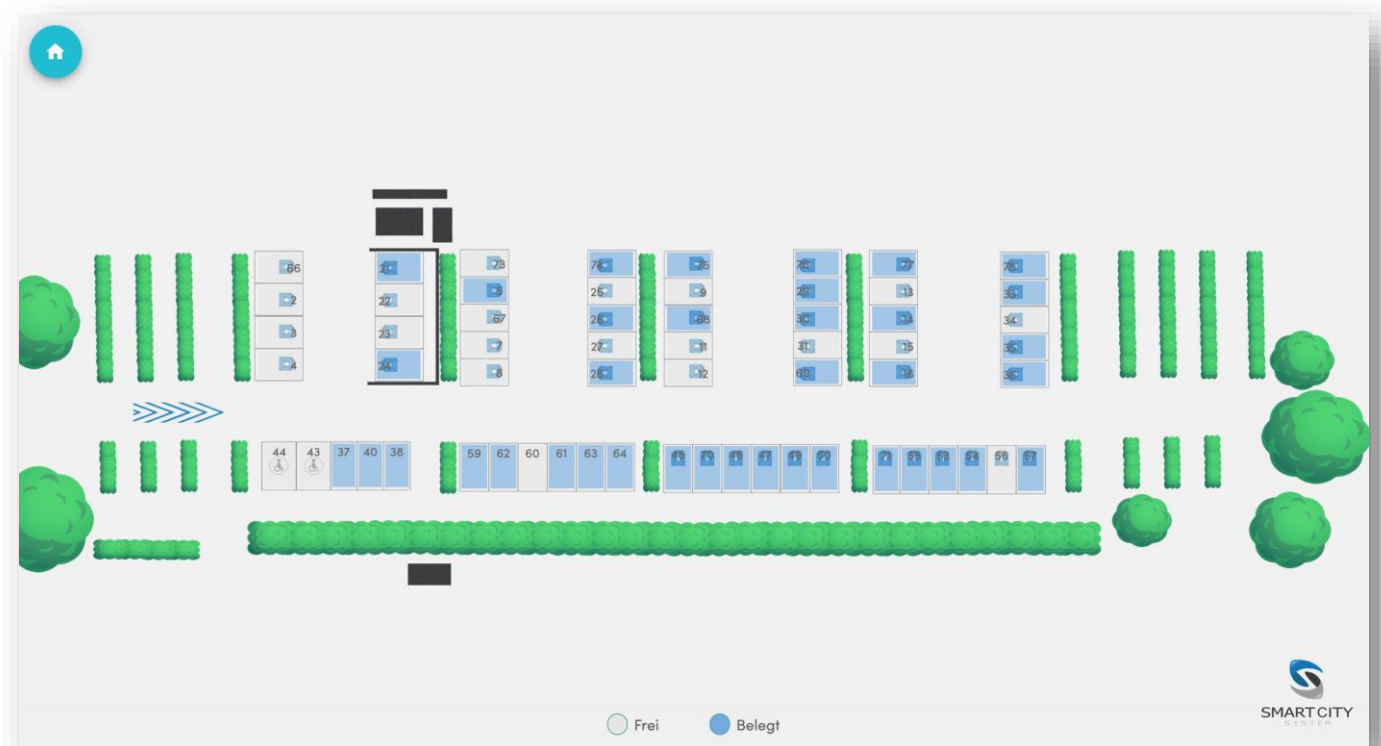
Reference: Combination of charging data with parking data at Gläsernen Manufaktur

Online display to show EV drivers which chargers are available

- ✓ Integration of parking data into the e-charging station map of the Dresden public utility company
- ✓ Occupancy display on the website

Analysis

- ✓ Utilization analysis through the combination of parking and charging data



Full-Service Provider

✓ Project Planning

- ✓ Project planning in coordination with the customer
- ✓ Integration of special customer requirements
- ✓ Commissioning of the system
 - ✓ On-site installation of sensors and gateways
 - ✓ Setting up of the software applications and/or the API

✓ Management

- ✓ Provision of occupancy information via the dashboard and applications and/or an API
- ✓ Customer support by an assigned account manager
- ✓ Software training for the customer

✓ Maintenance

- ✓ Regular soft- und firmware updates
- ✓ Constant monitoring whether the system works properly
- ✓ After notification to the customer, maintenance is carried out by our teams as quickly as possible

Contact

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