

Mercedes-Benz City Dashboard Parking Analytics for Cities

Mercedes-Benz AG – Urban Mobility Solutions



THE PARKING CHALLENGE

Cities do not have transparency about the number of their parking slots

Cities have high costs in maintaining and monitoring their parking slots but do not track their utilization

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Pressure on parking space increases and cities need innovative solutions to increase space in cities



THE SOLUTION: HISTORICAL AND REALTIME PARKING BEHAVIOR FOR YOUR CITY

IMAGINE YOU GET A DIGITAL TWIN OF THE PARKING SLOTS AND PARKING BEHAVIOR SINCE 2017 UNTIL TODAY AND IN THE FUTURE FOR A PREDICTIVE PARKING ANALYSIS.

THIS IS POSSIBLE WITH OUR MERCEDES-BENZ PARKING ANALYTICS PRODUCTS



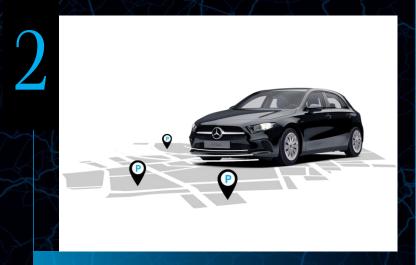
Parking data is collected both through specific parking processes and through the detection of parking spaces via ultrasonic sensors

PARK IN / PARK OUT



Detection of free / occupied parking spaces through operating the ignition

ULTRASONIC SENSOR DATA



Detection of free parking spaces through Mercedes-Benz fleet and swarm-intelligence This results in different use cases - from parking space register to predictive parking analyses



I. Parking space register

Status quo analysis on number and location of parking lots per street segment



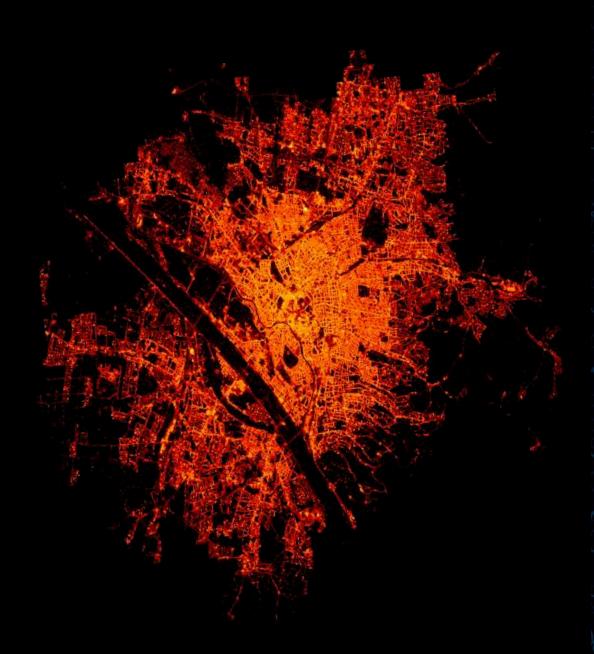


II. Parking occupancy prediction

Prediction of parking space utilization and parking probabilities based on historical data

III. Dynamic parking analysis (real-time)

Dynamic prediction of occupancy model through integration of real-time data possible



Mercedes-Benz with great fleet parking data – historic & real-time

24H data collection – southern Germany approx. 100.000 events for a 100km² urban area

~10-20% of data events on park-in/park-out

~80-90% of data events regarding free parking spaces (incl. multiple counting)

HISTORIC ANALYSES ON PARKING DATA

Data storage since 2017 allows for comprehensive analyses regarding parking patterns and utilization

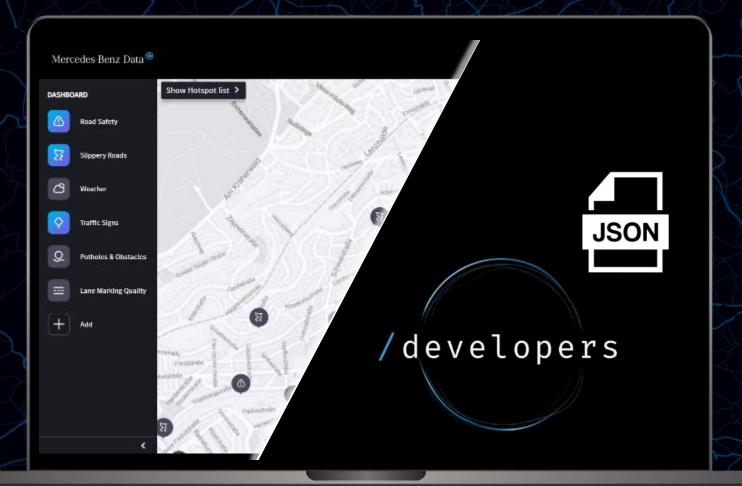
DYNAMIC UPDATES

Real-time information on free parking spaces via Mercedes-Benz Developer API to be integrated in Apps and navigation services

To fully leverage the Parking Analytics results, we recommend either our Mercedes-Benz Data Dashboard or a data transfer via API/JSON

MERCEDES-BENZ DATA DASHBOARD

Intuitive dashboard with filtering and data integration



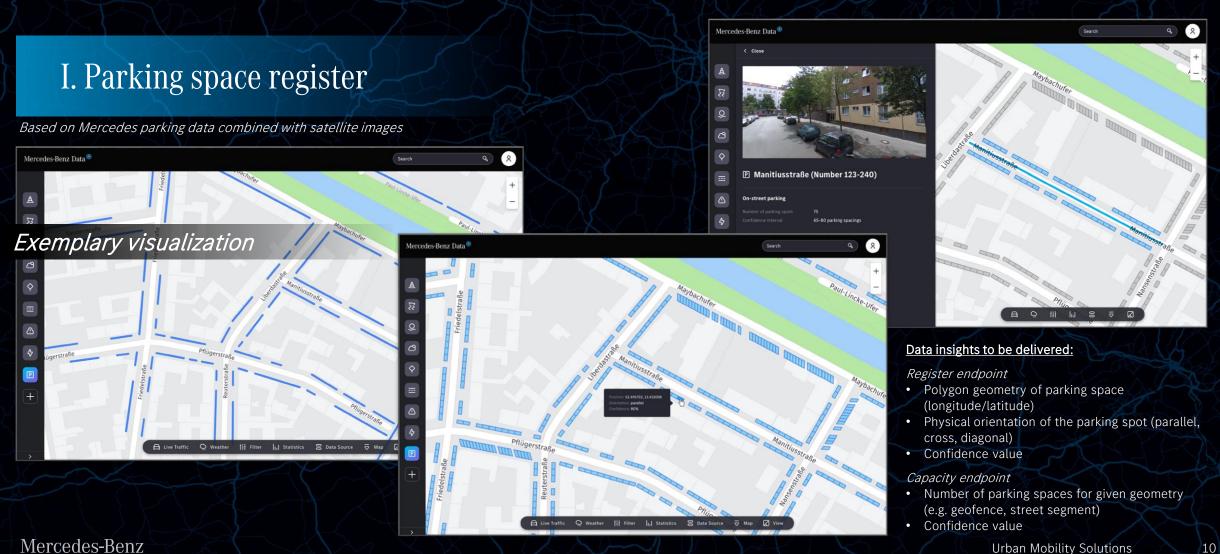
MERCEDES-BENZ DATA LAYER

Transfer via defined data layer (z.B. JSON oder csv)

MERCEDES-BENZ DEVELOPER API

MB DevAPI for integrating MB data products into existing infrastructures

The Mercedes-Benz Data Dashboard bundles all the insights from the parking data analysis for the parking space register



In addition, the Mercedes-Benz Data Dashboard offers comprehensive information on predictive parking analysis and parking behavior

