

# Monitoring the occupancy of e-charging stations

City of Mainz



## Challenge & Solution

One obstacle to the sustainable use of charging stations for e-cars is vehicles that take too long to charge - or park in the spaces without charging. We therefore networked data from e-charging stations and ground sensors in the city of Mainz to monitor the occupancy of the spaces and charging times. In the event of incorrect occupancy, for example, a report can be sent directly to the public order office.

## Data sources used

Innogy charging stations

SCS Soil Sensors

## Benefit (for citizens)

Charging infrastructure can be improved based on data; e-charging stations are available for e-car drivers without further hassle.

## Impact



Quick identification of incorrectly parked vehicles



Profitable development of the e-charging station business model for municipal utilities



Taking measures to improve the charging station infrastructure



Increased efficiency and attractiveness of e-car use to avoid traffic emissions