

Sharing control

City of Cologne

Challenge & Solution

Until now, cities have had few opportunities to coordinate sharing offers across the board and on the basis of defined framework conditions. As part of a time-limited prototype, the city of Cologne, in cooperation with the Cologne municipal utility group, has linked available sharing data to urban points of interest. In this way, data on rental bicycles from the Cologne public transport company and e-scooters from RheinEnergie AG could be linked to data on events organized by the city of Cologne and displayed in a dashboard. It is visualized which vehicles have been parked unused for a longer period of time and where there is a higher probability that they will be used in the near future due to their proximity to an event. Based on this additional information, the dispatcher can decide whether the vehicle needs to be moved or not.

Data Sources

Sensors on KVB sharing vehicles

Real-time data from Next Bike

Map data from Open Street Map

Event information

Benefit (for citizens)

E-scooters and shared bikes no longer block sidewalks - and are there where citizens need them: whether at a concert, soccer game, sight-seeing, or for the last mile after using public transportation.

Impact



Optimized coordination of sharing vehicles by dispatchers



Possibility to dynamically adapt rules to situations



Improvement of the control possibility for the city administration