Munich - Germany
Dynamic Curbside Management

Code: MU-UC01
Brief: The dynamic curbside system uses real-time data & sensors to improve space use and urban logistics. A zero-emission rickshaw tests sensors and alignment with semi-automated rickshaw in a non-public test field.

Key Urban Challenges Addressed:

- The increased number delivery vehicles causes congestion, safety issues, and emissions in urban areas
- Other commercial vehicles face parking difficulties
- Lack of real-time curbside occupancy data leads to inefficient, static space allocation

Goals & Anticipated Benefits:

- Reduce road congestion, decrease illegal double parking
- Shorten delivery parking search time and distance
- Cut greenhouse gas and pollutant emissions
- Improve urban public space quality

Ownership:

- **City of Munich**: provides infrastructure, signage, and fosters stakeholder engagement.
- **Smart City System**: installs and handles sensors, maintenance, and dashboard integration.
- **stadtraum**: develops app/API, user interface with sensor data
- **Technical University of Munich:** conducts network-level assessment.

Infrastructure:

- **Physical:** Each loading zone has a length of 15 to 20 metres and is equipped with 3-4 sensors and can be used by vehicles up to 12 tons.
- **Digital:** Real-time dashboard, app, and API show occupancy and may allow reservations.

Location:
Munich's Altstadt and Isarvorstadt will pilot Dynamic Curbside Management in about 20 loading zones in city areas with high parking pressure. In these zones, more than 70 sensors in total are installed

Timeline:

July 2024
Stakeholder engagement and requirement workshop

June 2025
Selection of feasible locations

Sept-Oct 2025
Sensor installation, testing & integration phase

November 2025
Start of demonstration phase

City of Munich
stadtraum
SMART CITY SYSTEM

Co-funded by the European Union