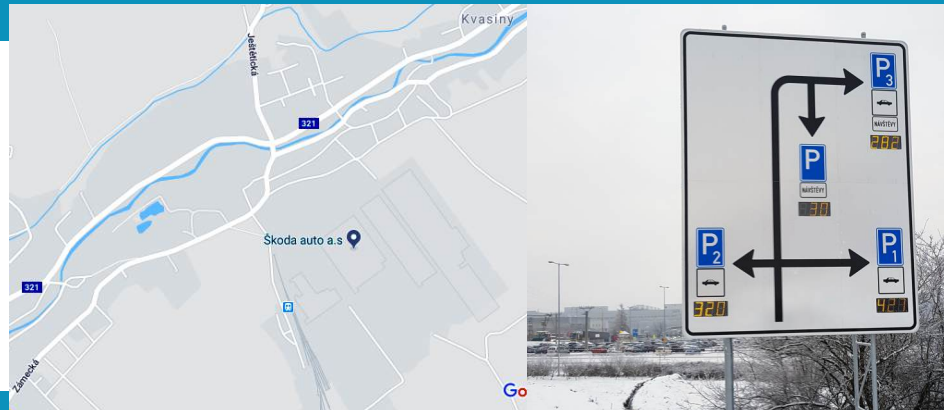


Traffic flow and parking control in Skoda Auto

Member: CITIQ
Country: Czech Republic
Established: 2012
Website: www.citiq.cz
Contact: martin.pipa@citiq.cz
 +420 724 371 295



over
80
 parking
 detectors
 in parking lots

over
140
 traffic flow
 detectors
 in adjacent villages

8000
 employees per day
 navigated to an empty
 parking place



The Idea

Due to the heavy road load in adjacent villages close to the Škoda Auto, CITIQ was asked to monitor this **load**, **speed**, and **length** of vehicles. Furthermore, the aim was to provide information using the information boards on the actual **occupancy** of the parking areas around the plant.



The Solution

There were **147 traffic flow detectors** and **84 parking occupancy detectors** installed. Detectors are based on the electromagnetic field changes monitoring. Traffic flow detectors were installed on roads (Ještětice, Solnice, Kvasiny) near the Škoda-Auto Kvasiny production plant.



The Results

In the **GIS application**, continuous engineering data on traffic flow, speed, and length of cars are available online, with a resolution for any **5-minute** sections. Data on occupancy of parking spaces are used for **navigation boards** located around the plant, which simplify and speed up the parking of more than **8000** employees.



The IQRF Benefits

With extra low power communication, sensors work up to **10 years** on a battery. Moreover, thanks to full bi-directional communication sensors could be debugged and **upgraded over-the-air** without the need of digging out of the ground. Secure and reliable communication works well even in cases of water or snow layer on the ground.