



SmartSense

Intelligent Infrastructure Traffic Sensing



BOSCH

BOSCH employs smart sensors to collect data that enable Environmental Sensitive Traffic Management following a close loop approach. This use case offers the opportunity to prove the benefits of smart sensing by combining the merits of smart sensing with a platform for secure and trustworthy data management.

A smart sensor interprets, manages, processes, combines and fuses different single sensor signals and therefore leads to more accurate, interpretable data to choose and evaluate specific measures to reduce noise and air pollution from traffic.

Targeted Stakeholders



Citizens - End Users



Policy Makers





How will SmartSense Use Case improve traffic management?

- To reduce by 10% emissions based on local measured data. This will be achieved through traffic management system and air quality dispersion calculation through accurate input values.
- Identification and increasing of recorded hotspots by means of A/Q monitoring using sensors.
- Use A/Q data for traffic decision-making, in order to reach a more effective incorporation of environmental aspects by strategic traffic planners.

Expected Outcomes

1. Reduction of traffic situations and numbers of cars on the streets, consequently then is reasonable to expect an Increasing in air quality
2. Improving the number and quality of data about air, thanks to the installation of new hotspots in key locations
3. Make available to traffic planners new data on air quality, so they can consider them in their decision making process



Quote from the Use Case representative



Gabriel Braun

Project Manager, BOSCH

In MobiSpaces we will be able to show the benefit of accurate low cost air quality measurements in combination with microscopic emission and dispersion simulation in order to enable profound measures to improve air quality in urban areas.

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