



Open Innovation Labor - Testfeld

Challenge Ulmer Parkbetriebs-Gesellschaft

1. Name of the Challenge

Commitment of Robotics in Smart City

2. Content

The service company of the City of Ulm for parking bought from the ADLATUS Robotics GmbH an autonomous driving cleaning machine. This is one of the first products from this type. The machine should be used in the parking parks in the city. The company provides the machine to the DA-SPACE lab, so that the team of this challenge is able to experiment with it and to find other innovative areas of application within or outside the parking parks.

3. Problem

Having an autonomous driving cleaning machine should not only have the advantage of a clean parking park. The advantages should be used, with enhanced components like sensors, to collect a lot more information and data, while the machine is driving. This information and data could be used in many other ways to create a new benefit. In the lab it should be evaluated what kind of information could be collected and how these information could be used. How could the robotic support a smart city? Which other fields of actions can be entered? Which data can be generated by adding other components to the robotic?

How could this support the way of living in a smart city for the civil society?



4. Additional Information

- technical view: new product developments
- non-technical view: new application areas
- expected outcome: idea with feasible concept

5. Skills of the team

The participants of this challenge should take a great interest in sphere of robotics and should bring if any basic knowledge in related technologies.

It is imported to be open minded towards new technologies and to have the vision what possibilities the new technologies can bring.

About the company

The Ulmer Parkbetriebs-Gesellschaft is a service company of the City of Ulm and runs in the Ulmer City 8 parking parks and with about 3000 spaces.