

- / Autonomous
- / Sensing
- / Communication
- / Batteries
- / Navigation
- / Mirrorless
- / Ecology

München Salzburg M.- Nord Garching-Süd Ismaning

78 km/h



# Providentia

Safe, connected driving on the digitally-enhanced highway



## Visualizing information

Sensors installed along the A9 highway near Garching (Munich) collect information such as the traffic flow, vehicles speeds and driving behavior. fortiss develops software that collects, consolidates („data fusion“) and analyzes the data. A virtual representation („digital twin“) of the actual situation will then be created on the central server, or backend. fortiss works on visualizing the information and providing drivers a far-reaching view of the road ahead, thus enabling better management of the traffic. Traffic prognoses are also possible.

## Consortium project

The Providentia project is funded by the German Ministry of Transport. The project is a joint effort between numerous companies and organizations. Under fortiss' leadership, the consortium researches the interaction of various information flows and tests the necessary communications and infrastructures to support highly automated driving.

**fortiss** is the research institute of the Free State of Bavaria for software-intensive systems and services with headquarters in Munich. The institute has around 130 employees (as at 12/2017), who collaborate on research, development and transfer projects with universities and technology companies in Bavaria, Germany and Europe.

### For more information, please visit

[www.fortiss.org/en/research/projects/providentia](http://www.fortiss.org/en/research/projects/providentia)



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