



URBAN ASSIST



GENEVA

Galileo / EGNOS Enhanced Driver Assistance

GENEVA develops an innovative application within the context of advanced driver assistance for high precision, reliable, and certifiable use. The application will contribute to the adoption of the European Geostationary Navigation Overlay Service, **EGNOS**, and the introduction of the European global navigation satellite system, **Galileo**, in one of the most important market segments, i.e., the European automotive industry.

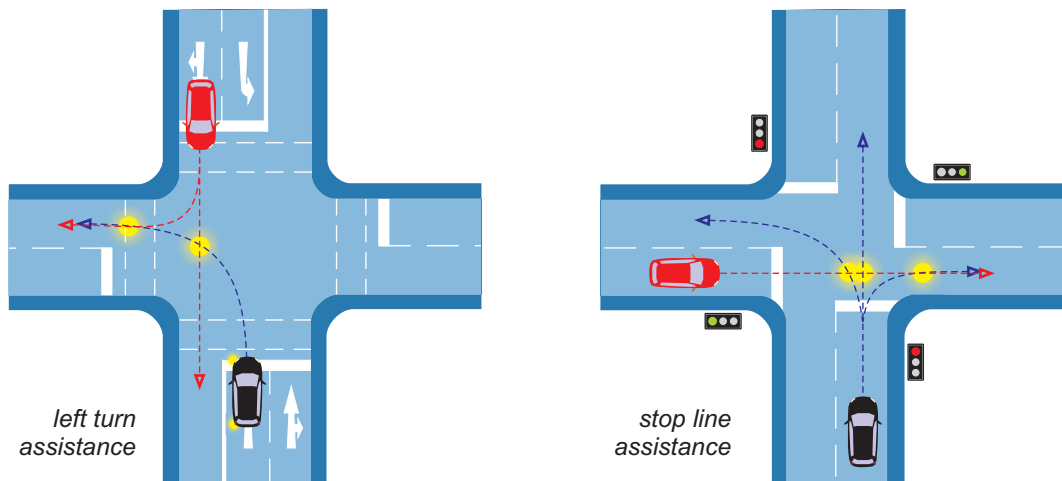
GENEVA in particular addresses two specific intersection scenarios to demonstrate collision avoidance: the left turn assistance, where the driver is informed about oncoming traffic; and the stop-line assistance, when the traffic light indicates 'stop'. Satellite navigation, environment perception, and the underlying digital maps are important elements in the system architecture to meet the requirements of the targeted **advanced driver assistance** application.

www.geneva-fp7.eu



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The main benefits of **GENEVA** therefore are

- ▶ driver support in standard situations to improve safety before or when entering a critical situation
- ▶ development of a scalable, inexpensive high accuracy positioning system for urban environment with built-in integrity monitoring
- ▶ enrichment of map technologies for attributes needed for safety relevant driver assistance systems
- ▶ development of algorithms to verify attributed maps with sensors for environment perception
- ▶ development of algorithms to verify calibration of sensors for environment perception

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