

PARTNERS



New generation, low-cost, lane-level,
precise turn-by-turn navigation applications
through the fusion of EGNSS and Computer Vision technology



HORIZON 2020

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Why inLane?

Accurate and reliable positioning systems are needed to enable next generation ADAS systems.

Lane-level positioning and high definition maps are some of the biggest challenges for navigation systems.

With the help of crowdsourced real-time updates, inLane foresees the generation of local dynamic maps (LDM) that help Advanced Driver Assistance Systems (ADAS) applications with enhanced dynamic scene information.

EGNSS based positioning fused with computer vision algorithms will allow centimeter-level accuracy in horizontal positioning, which is a key factor for computing lane level positioning.

Our mission

- deliver lane-level information to an in-vehicle navigation or driver assistance system
- enable a new generation of enhanced mapping information based on crowdsourcing

Making lane-level navigation a reality

Drivers will be able to choose the appropriate lane and reduce risks associated with last-minute lane-change manoeuvres.

How does inLane work?

- We are committed to developing a new generation, low-cost, lane-level, precise turn-by-turn navigation application through the fusion of EGNSS and Computer Vision technology.
- Crowdsourcing techniques deliver enhanced mapping information thanks to real-time updates of lane-level information to an in-vehicle navigation system.
- Real-time lane-level vehicle positioning brings navigation and traffic management systems to a new level of detail and effectiveness.

Lane level accuracy via fusion and hybridization algorithms for GNSS, IMU, Map and Computer Vision signal

