HERE Lanes

Enhancing the experience of using ADAS and IVI

HERE Lanes provides a lane-level representation of a road network to improve a driver's awareness, safety, and comfort. To enhance the experience of using IVI and ADAS solutions at SAE levels 0–2, it combines topology, geometry and a host of road attributes. It details lane numbers, travel direction and content on lane connectivity, boundaries, paths and centerlines. It also provides attribute information like markings style, lane type and access characteristics.

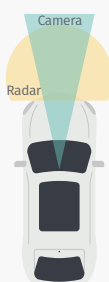**How HERE Lanes adds richness to the IVI and ADAS experience for drivers**

Level 0
Guidance and alerts

- Lane Level Route Guidance and Visualization including Augmented Reality including Heads-Up Display
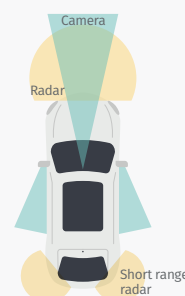
- Warnings and information

Level 1
Longitudinal or Lateral

- Adaptive/ Predictive Cruise Control

- Lane Keep Assist

Level 2
Longitudinal and Lateral

- Adaptive/Predictive Cruise Control with Active Lane Change Assist

HERE Lanes offers multiple features to enhance positioning, routing, guidance and visualization for IVI solutions. It ensures vehicles are positioned properly and in the correct lane. It can also provide visualizations planned routes, ensuring the correct lanes are applied.

It also enhances lane level guidance through intersections; displays guidance arrows (using augmented reality with or without a heads-up display) and lane markings. For ADAS solutions, HERE Lanes provides lane positioning, adaptive cruise control with lane centering/ active steering, lane keeping assist and automatic lane changing.

Want to talk? We do, too. Get in touch here.

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How does it work?

HERE Lanes supplies rich and accurate content for lane level localization that's delivered in either RDF format or as HERE Lanes Native content. To create this service, HERE relies on multiple sources of data, including HERE True vehicles that capture detailed roadway information, aerial imagery and connected vehicle sensors.

All Lane content is synchronized with HERE Map road level content. HERE Lanes then provides a unified lane repository that combines geometry, topology and attribution for a service without gaps. Lane content is easily maintained and transitions for use with HAD are seamless.

Aerial Imagery

HERE True

Vehicle Sensor Data

Ingestion

Differentiators

Global coverage: using the world's leading map platform alongside location content products for multiple use cases

Highly accurate: automotive-grade data for safety-critical apps, compliant with international standards for quality, including ISO 9001i, ISO 27001 and Automotive SPICE

Detailed coverage: full lane models offered for complete routes, with a focus on roads with high traffic volume and urban areas with complex intersections.

Feature rich: an array of functions for use across various industries that support driver awareness, safety, and comfort.

Fresh content: through use of sensor data that is gathered regularly, content remains relevant

Data alignment: the product aligns with all other HERE content to deliver a more complete offering.