

HERE Road Infrastructure & Usage

Enhancing ADAS and navigational experience with advanced road attribute data

HERE Road Infrastructure & Usage is a suite of ADAS and navigation enhancement solutions that provides a comprehensive view of the road ahead to improve overall driving experience in a single, seamless platform. This suite includes the following products:

- **Extended Lanes & Markings** guides users to the correct lane at complex junctions with voice, text, or visual cues.
- **Road Curvature** provides previews of approaching curves.
- **Road Elevation** provides previews of vertical road trajectories.
- **Road Roughness** evaluates the quality of road networks using the International Road Roughness Index (IRI).



Key industry use cases

- **Automotive:** Customers can learn in advance where lanes connect or restrict, and where patterns change, supporting a safer road experience.
- **T&L:** Fleet drivers can assess road roughness to adjust the route and minimize hazardous driving to avoid damaging fragile goods. Drivers save fuel by learning about upcoming slopes to change gears.



Quality

100% in-house built with the highest attribute accuracy.



Scope

Global ADAS specifications and coverage, with continuous expansion.



Freshness

Fastest delivery via Rapid Refresh, monthly releases moving to weekly shortly.

Value proposition

HERE Extended Lanes & Markings

- Physical number of Lanes – the total number of lanes along a stretch of road
- Lane connectivity (lane traversal) – how the lanes are longitudinally connected
- Lane restrictions – applicable time, maneuver, and usage restrictions for certain lanes
- Lane markings and lane types – the appearance and type of lane separators and road markings

HERE Road Curvature

- Curvature – the extent to which the road geometry deviates from a straight line (how much the road bends)
- Heading – the direction in which the road curves

HERE Road Elevation

- Elevation – the elevation relative to the WGS84 ellipsoid (altitude over mean sea level)
- Slope – the steepness of the road

HERE Road Roughness

- Good/fair/poor classifications with the average IRI (International Roughness Index) measurement on the road segment
- Timestamps and direction of travel
- Bumps and dips included on additional layer



Data format by product

- Extended Lanes:
GDF, RDF, NAVSTREETS,
File Geodatabase (FGDB)
- Road Elevation:
GDF, RDF
- Road Curvature:
GDF, RDF
- Road Roughness:
Shapefile, FGDB



Coverage by product

- Lanes & Markings:
available in 74 countries
- Road Curvature:
66 countries
- Road Elevation:
62 countries
- Road Roughness:
58 countries



About HERE

HERE, a location data and technology platform, moves people, businesses and cities forward by harnessing the power of location. By leveraging our open platform, we empower our customers to achieve better outcomes – from helping a city manage its infrastructure or a business optimize its assets to guiding drivers to their destination safely. To learn more about HERE, including our new generation of cloud-based location platform services, visit <http://360.here.com> and www.here.com.