

HERE unveils next generation real-time data services for automotive industry

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Paris – HERE, the Open Location Platform company, today announced next generation vehicle-sourced data services for the auto industry aimed at making driving safer and more enjoyable for billions of people around the world.

Ahead of this week's Paris Motor Show, HERE outlined how its Open Location Platform intends to harness real-time data generated by the on-board sensors of connected vehicles to create a live depiction of the road environment.

Drivers will be able to access this view of the road through four services that provide information on traffic conditions, potential road hazards, traffic signage and on-street parking at high quality.

The goal is to ensure that drivers have more accurate and timely information with which they can make better driving decisions.

HERE plans to make the services commercially available to any customers both within and outside the automotive industry from the first half of 2017.



World's first services created from real-time sensor data from competing car brands

Traffic information services available to drivers have so far relied on GPS probe data – regular location information reported from a connected device. These real-time services from HERE,



however, will crowdsource the much richer data generated by sensors deeply embedded within the car.

HERE will start by sourcing sensor data from Audi, BMW and Mercedes-Benz cars, with plans to later expand to include data from other brands.

In contributing their data, the participating brands are helping create superior services for drivers aimed at significantly reducing traffic congestion, enhancing the driving experience and cutting traffic accidents, which each year globally claim more than one million lives and leave millions more injured.

HERE believes these services will also support the automotive industry's broader market introduction of advanced driver assisted systems and, later, autonomous driving solutions.

HERE CEO Edzard Overbeek said: "HERE believes that industry collaboration is essential to address the major challenges faced by road users everywhere. What we are seeing today is the technology and automotive industries coming together to create services that will elevate the driving experience for billions. This is also an important milestone for our Open Location Platform, which is ready to serve as the nerve center for future autonomous vehicles, smart cities and intelligent transportation systems."

Lights, camera, traction

The HERE Open Location Platform will process vehicle-sourced data related to:

- Speed, direction and location of a vehicle
- Hard braking, as denoted by sharp deceleration
- Road construction, lane/road closures and traffic events such as accidents, as detected by the vehicle's forward camera
- Hazard light usage
- Hazardous weather or road conditions, as determined for example by rain sensors, heavy use of windshield wipers, loss of tire traction or fog light usage
- Traffic sign information, including permanent and temporary speed limits, as detected by the car's forward camera

The HERE Open Location Platform will harness the data to deliver four services (summarized below). For each service, firstly it ingests and processes data from each vehicle. Secondly, it combines the data with HERE location data services and other third-party information derived from devices, vehicles and infrastructure for deep and real-time analysis. Thirdly, it distributes enriched, targeted and actionable service content back to connected and eligible vehicles across the road network.

HERE Real-Time Traffic

The next generation of HERE's live traffic service, HERE Real-Time Traffic provides real-time traffic information enhanced with the new streams of data. The result is a high-quality and low latency feed showing hard braking alerts; jam tail warnings, with improved coverage and positional accuracy; and traffic flow, with more precise and granular data also for lower-class arterial roads.

HERE Hazard Warnings

This service provides high-quality near real-time information about potential hazards, including accidents and extreme weather events, such as slippery roads and reduced visibility. Because this service is fueled by real-time, rich sensor data, the validity of the hazards are of high quality and more trustworthy than competing services.



HERE Road Signs

This service provides near real-time traffic signage information, including permanent and temporary speed limits, which is useful for both the driver as well as for cars equipped with connected ADAS (Advanced Driver Assistance Systems) such as adaptive cruise control.

HERE On-Street Parking

This service provides information to drivers showing roads where parking is or is not permitted for each side of the street; availability predictions and time-to-park estimations for each street and at the particular time of day based on historical driver data; and streets with paid, free or lower-priced parking options.

For this service, HERE utilizes probe and sensor data from connected cars in combination with parking data from other sources to build greater awareness of on-street parking options and help mitigate a perennial headache for motorists and cities.

The power of data collaboration through the HERE Open Location Platform

HERE plans to make these four services available to any automaker, municipality, road authority, smartphone maker or app developer to license. As connectivity and vehicle sensor technologies become more pervasive across the industry, HERE also plans for other automakers to be able to contribute their vehicle data.

“Today, we are showing together what a collaborative, secure and open approach can bring. These new services are just the beginning,” said Edzard Overbeek.

Driver privacy and safety

After the services are enabled, no driver input is required to transmit or receive data, ensuring the driver’s focus can be on the road, and not on a smartphone or other external device.

Privacy has always been at the core of HERE’s strategy and HERE has designed and developed its platform with the privacy of the individual in mind. HERE is committed to respecting the user’s privacy and complies with applicable data protection and privacy laws.

The data HERE plans to use from Audi, BMW and Mercedes-Benz vehicles in the provision of these services will be anonymized with no personal identifiers so as to ensure privacy for drivers.

NOTE TO EDITORS:

Read more about today’s announcement on HERE 360: <http://360.here.com/?p=172148>

HERE will be demonstrating its new automotive services during the Press Days of the Paris Motor Show on September 29/30.

Media Enquiries:

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About HERE

HERE, the Open Location Platform company, enables people, enterprises and cities to harness the power of location. By making sense of the world through the lens of location we empower our customers to achieve better outcomes – from helping a city manage its infrastructure or an



enterprise optimize its assets to delivering 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>.