



Verizon and HERE join forces to create revolutionary safety and navigational systems

Verizon's 5G Ultra Wideband and low-latency Mobile Edge Compute (MEC) infrastructure, combined with HERE Technologies' highly precise mapping and advanced edge AI perception, are coming together to reimagine a future of enhanced road safety and precise localization for navigation

January 6, 2020

Las Vegas, CES 2020 - Today, HERE Technologies, and Verizon announced a partnership to explore cutting-edge applications of Verizon's 5G Ultra Wideband network and multi-access edge compute (MEC) platform, 5G Edge, coupled with HERE location, data technology and autonomous vehicle expertise. The partnership focuses on co-innovation for a wide range of enterprise, industrial and consumer-facing use cases. The two companies are starting their collaboration by working on vehicle and pedestrian safety such as collision avoidance, and better location identification and navigation for ridesharing pick-up/drop-off and delivery services.

HERE will be providing Verizon with access to a range of location data, SDKs, and APIs from the HERE Platform. Verizon and HERE are also planning to develop new connected services to benefit a range of industries, from automotive to smart cities, to transport and logistics, beginning with two proofs of concept:

- **[Collision Avoidance](#)** is intended to increase pedestrian and driver safety by combining Verizon's 5G Ultra Wideband capabilities with HERE's HD Live Map and Live Sense computer vision technology to create a vehicle-to-network (V2N) communication system. HERE's Live Sense SDK identifies vehicles, pedestrians, bicycles, etc. and barriers from a vehicle-mounted mobile phone. This data will then be sent to Verizon's 5G Edge, where the Collision Avoidance AI predicts likely travel paths and warns vehicles of impending potential collisions.
- **[Visual Positioning Service \(VPS\)](#)** is designed to enable near-instantaneous identification of a specific location with sub-meter accuracy using image capture. Proprietary 3D positioning algorithms from HERE analyze images or videos for accurate positioning, which occurs in near real-time via Verizon's 5G Ultra Wideband network and



5G Edge. VPS is a complementary solution to signal-based location technologies, such as GPS, because it does not rely on a remote server and is less hindered by tall buildings or signal deserts. The technology is also adaptable for indoor use.

“5G is the future, and the scale of the Verizon 5G Ultra Wideband network is designed to enable higher-bandwidth, low-latency connectivity necessary for more precise positioning,” said Edzard Overbeek, CEO of HERE. “Our partnership with Verizon not only allows us to tap into the innovation potential of 5G but also highlights what is possible when this technology utilizes location intelligence: connected services that are designed to make our world safer and more efficient.”

“This collaboration with HERE further proves Verizon’s commitment to innovating around and improving location services and pedestrian and intersection safety,” said Laura Cochran, Head of Product, Verizon Location Technology. “By harnessing the power of Verizon 5G Ultra Wideband and 5G Edge, along with HERE’s proprietary 3D positioning algorithms, we are driving together toward a safer and more precise future.”

Visiting CES?

For more information on this partnership and its initiatives, please join us for a discussion featuring Matt Preyss, Product Marketing Manager, Autonomous Driving & Connected Services, HERE Technologies and Ashley Vogt, Senior Product Manager, Advanced Mapping, Verizon Location Technology.

When: Wednesday, January 8 from 10 - 10:15 am.

Where: Highlights Stage at the HERE Technologies booth, LVCC, Central Plaza, CP-2

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About HERE Technologies

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, please visit www.here.com and <http://360.here.com>.

About Verizon

Verizon Communications Inc. (NYSE, Nasdaq: VZ) was formed on June 30, 2000, and is celebrating its 20th year as one of the world's leading providers of communications, information and entertainment products and services.

Headquartered in New York City and with a presence around the world, Verizon generated revenues of \$130.9 billion in 2018. The company offers voice, data and video services and solutions on its award-winning networks and platforms, delivering on customers' demand for mobility, reliable network connectivity, security and control.