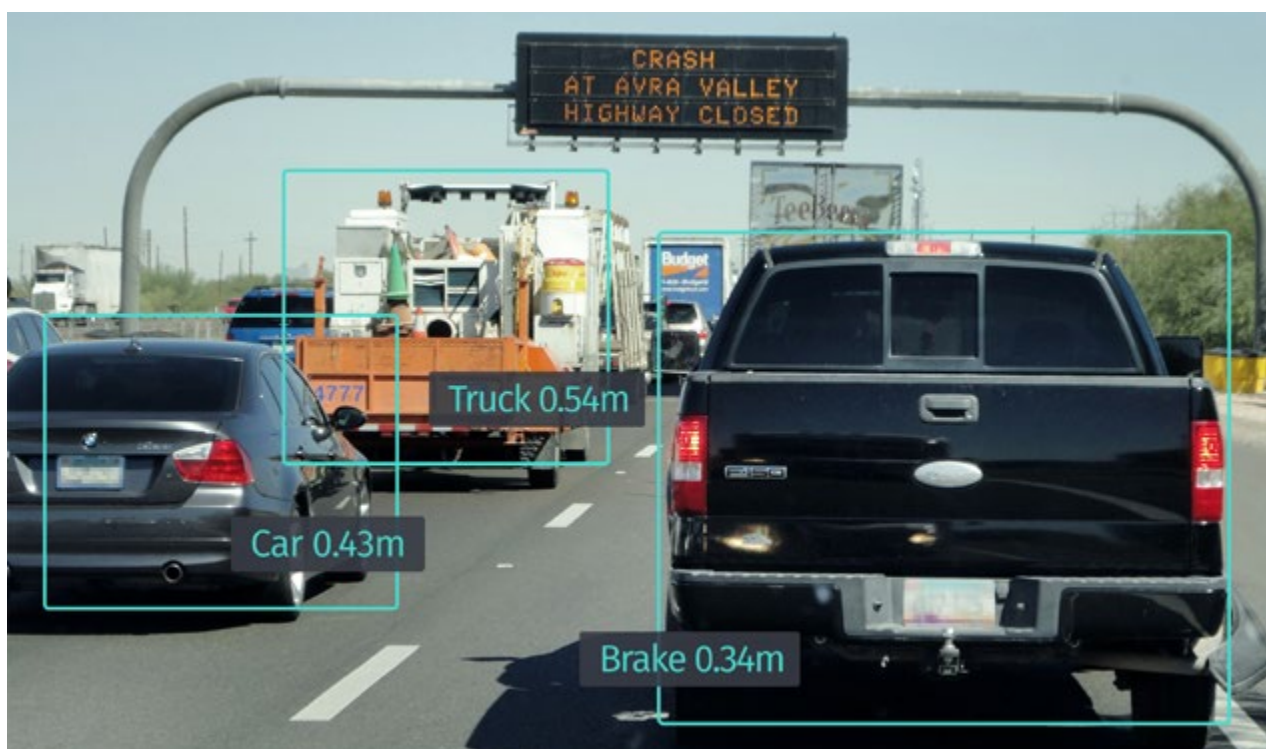# HERE Live Sense SDK

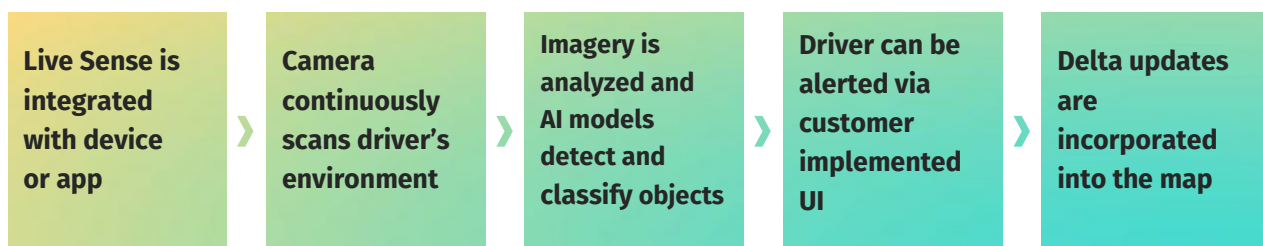## Using artificial intelligence to boost road safety in real-time

HERE Live Sense SDK enhances safety on the road by providing a collection of artificial intelligence (AI) edge models that can be used to develop real-time notifications for a wide range of devices and alert drivers of potential hazards or changes in road conditions. HERE Live Sense SDK detects different types of objects including cars, trucks, pedestrians, bicycles, potholes, road signs, traffic lights, construction zones and behaviors such as vehicles braking. Through audio and visual alerts drivers can be notified of potential hazards to avert collisions.

HERE Live Sense SDK can be integrated into different types of device with a camera, including smartphones, dashcams, personal navigation devices (PNDs) and in-vehicle infotainment systems (IVI) and can be used in any type of vehicle regardless of technology enablers. **HERE Live Sense SDK** supports four main use cases:

→ Real-time audio and/or visual alerts about potential hazards for drivers

→ Contextual route guidance based on objects in the driver's view (such as "turn left at Starbucks")

→ Detects changes in road/driving conditions, informs the driver, and updates maps

→ Assists post-trip analysis, supporting driver behavior monitoring, coaching and feedback

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How does the service work ?

| Live Sense is integrated with device or app | › | Camera continuously scans driver's environment | › | Imagery is analyzed and AI models detect and classify objects | › | Driver can be alerted via customer implemented UI | › | Delta updates are incorporated into the map |

HERE Live Sense SDK, which is available for Android, iOS and Linux (beta), can be used to develop solutions for real-time visual and/or audio alerts about potential hazards. Detection, classification, and notification all take place on the edge device, which means it does not require connectivity to operate.

HERE Live Sense SDK also enables customization of features like time to collision warnings and alerts for objects within a defined region. The SDK has an optional set of libraries for augmented reality to support visual safety and guidance notifications.

Differentiators

Flexible
Offered as an SDK, which provides flexibility to integrate into smartphones, dashcams PNDs and IVI systems.

Suitable for any vehicle
Doesn't require advanced technology or connectivity. Suitable for all vehicles, including cars, trucks, buses, two- or three-wheelers, owned or rented.

Real-time data collection
Enables secure and controlled collection of data that can be used by customers to enhance their products and products from HERE.

Contextual route guidance
Uses real-time object detections in the driver's view to deliver turn-by-turn routing instructions for improved context.

Wide range of detections
Detects a wide range of objects such as road signs, potholes and road works with customization of detection parameters.

Localization
Global coverage with regional models for greater specificity of detections, since both signage and driving environments differ based on regional differences.

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 **360.here.com** and **www.here.com**.

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