DENSO
Crafting the Core

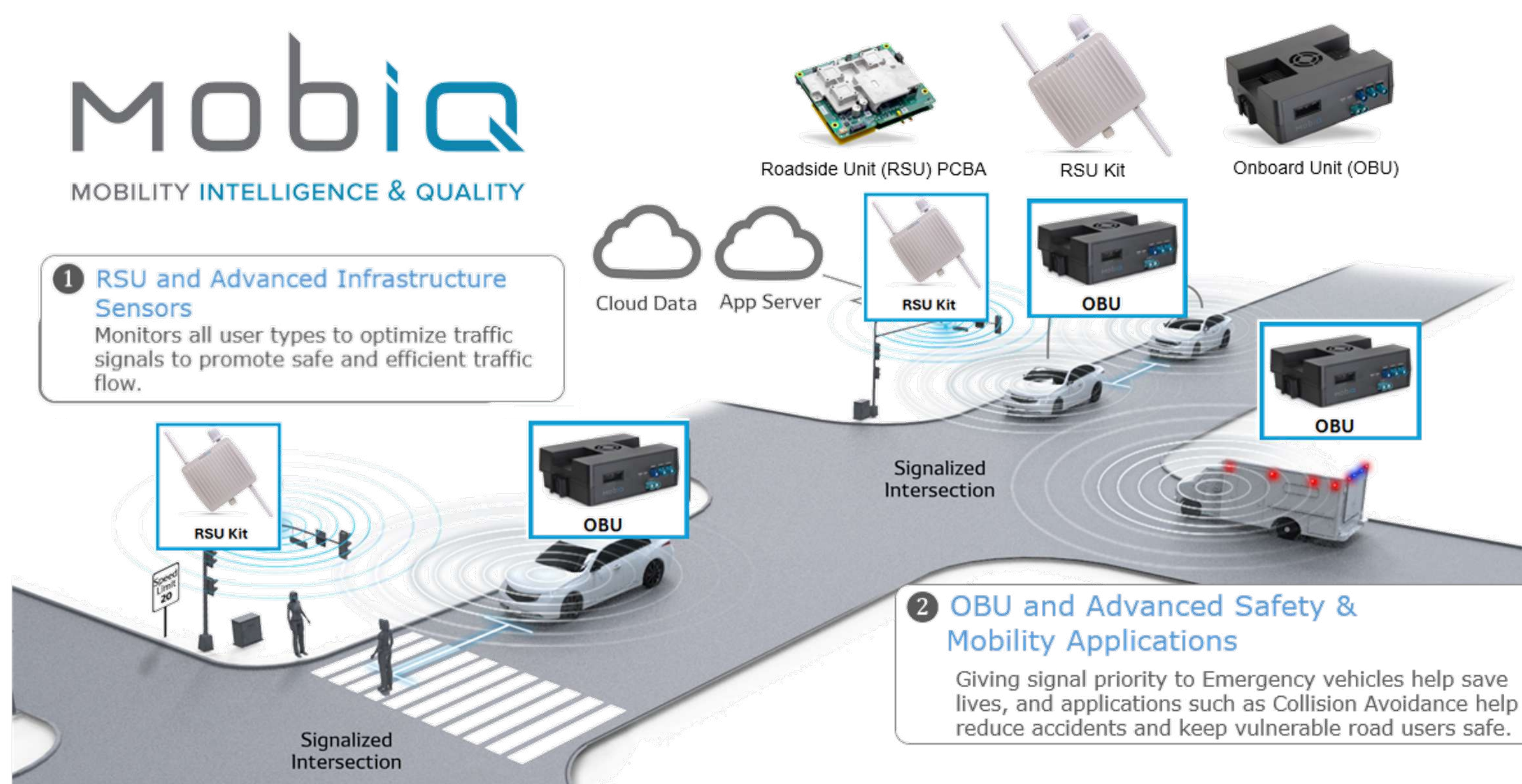# MobiQ RSU and OBU V2X Solutions

Mobility, Intelligence and Quality

Highlights

- MobiQ RSU and OBU platforms are developed based on C-V2X technologies.
- MobiQ leverage over 75 years of experience in the automotive market with a proven track record of strong customer support.
- MobiQ OBU integrates into the vehicle for safety and efficient mobility vehicle while RSU integrates into traffic signal controller, dynamic signage and other traffic infrastructure.
- MobiQ RSU and OBU supports priority applications, traveler information messages and other vehicle-to-vehicle and vehicle-to-infrastructure applications.

MobiQ RSU and OBU

MobiQ's Roadside Unit (RSU) System integrates with traffic signal controllers and government networks to enable communication with vehicles via C-V2X. It detects vulnerable road users using cameras and radars at intersections and delivers real-time alerts to drivers through dynamic roadside signs and heads-up displays.

The MobiQ Onboard Unit supports advanced vehicle safety and mobility by connecting with Vehicle-to-Everything systems, Roadside Units (RSUs), and smart city infrastructure. Built on the Wireless Safety Unit's success, it offers a powerful development platform combining short- and long-range automotive communication. It enables vehicles, RSUs, and infrastructure to exchange critical data for safer and more efficient road use.

Result

- Improved Road Safety: V2X enables vehicles and infrastructure to communicate, reducing collisions and improving driver awareness.
- Fuel Efficiency: V2X reduces fuel use by optimizing routes and minimizing idle time at signals.
- Reduced Traffic Congestion: V2X improves traffic flow through real-time data sharing.