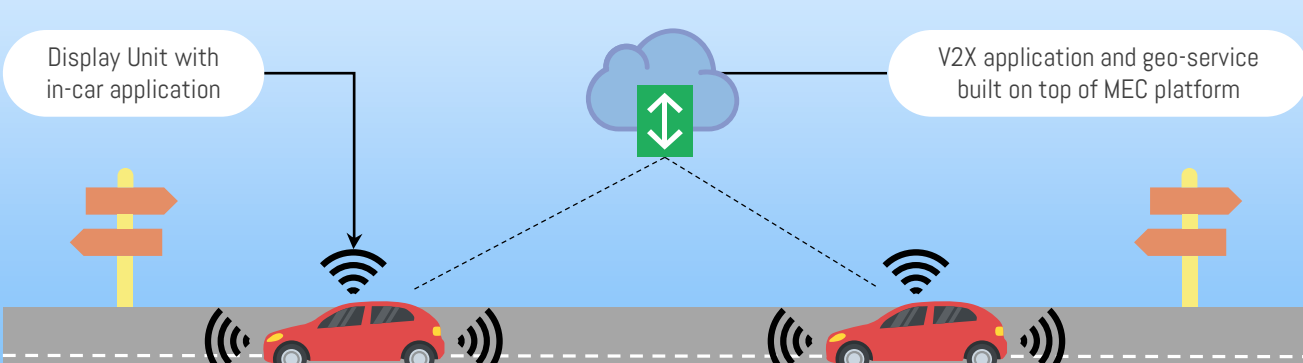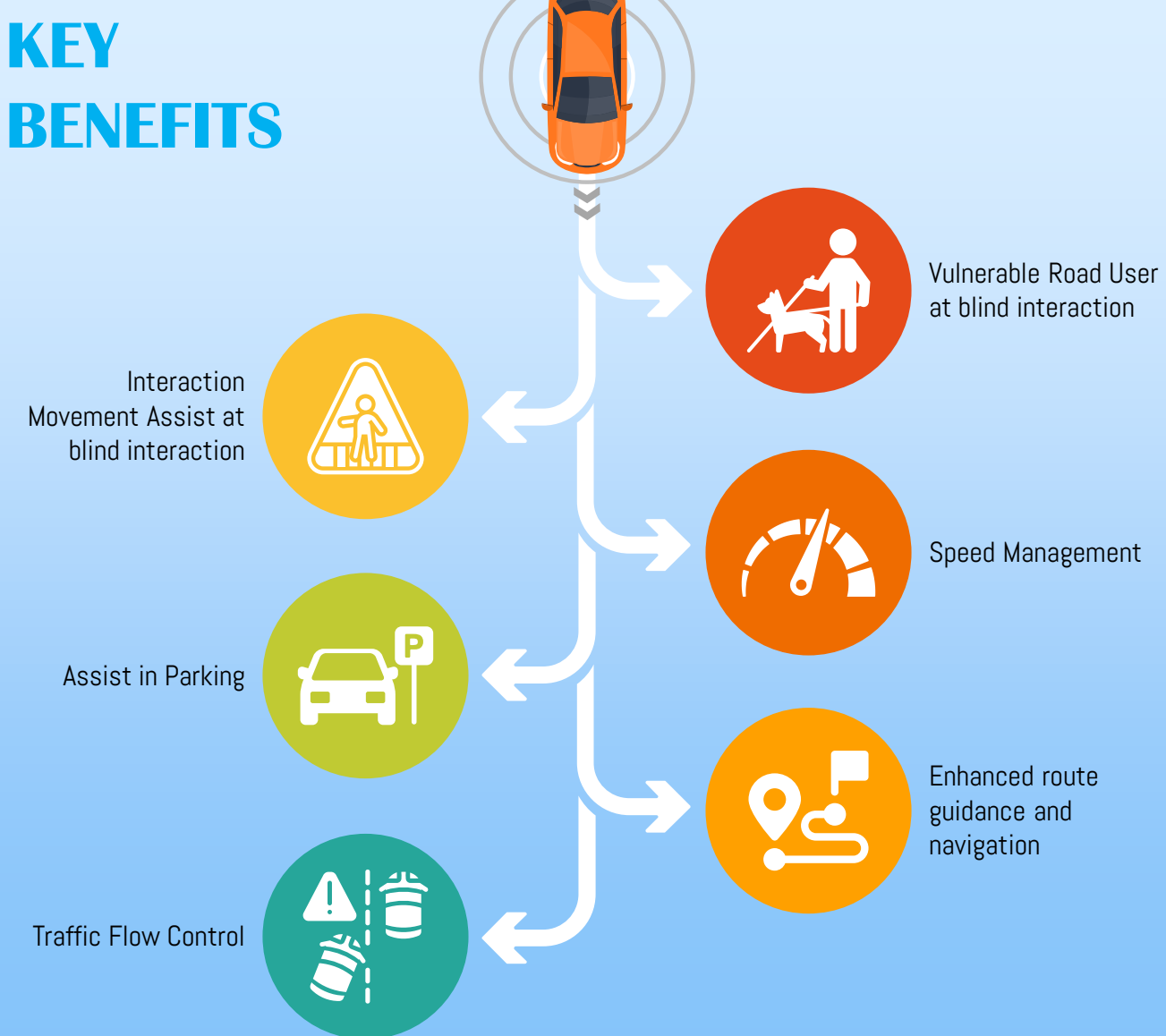# VEHICLE-TO-EVERYTHING

V2X allows vehicles to communicate with other vehicles within the traffic system as well as the infrastructure around them for road safety

Vehicle-To-Everything (V2X) Communications System

V2X is an intelligent transport system where all vehicles and infrastructure systems are interconnected with each other
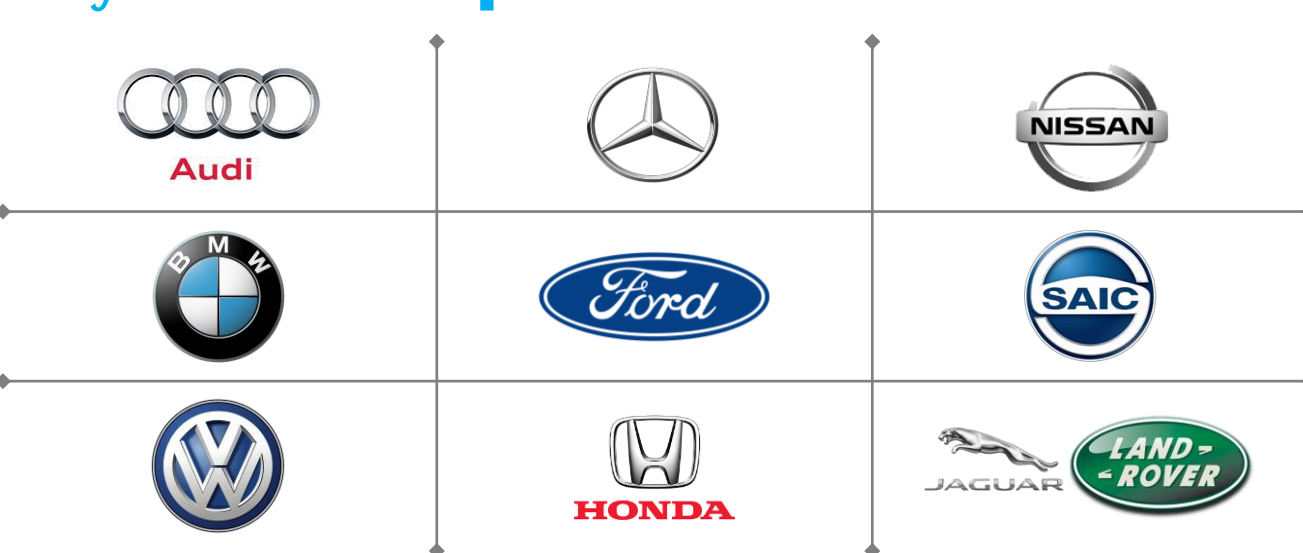
Display Unit with in-car application

V2X application and geo-service built on top of MEC platform

Vehicle-to-Everything

- **V2V** Vehicle-to-Vehicle
- **V2G** Vehicle-to-Grid
- **V2P** Vehicle-to-Pedestrian
- **V2D** Vehicle-to-Device
- **V2I** Vehicle-to-Infrastructure

KEY BENEFITS

- Vulnerable Road User at blind interaction
- Interaction Movement Assist at blind interaction
- Speed Management
- Assist in Parking
- Enhanced route guidance and navigation
- Traffic Flow Control

GROWTH DRIVERS

- Demand for Autonomous Vehicles and improved technological advancements such as 5G
- Growing requirement for secured roads and reduced traffic congestion
- Growing economy, expansion in disposable income, rapid growth rate of urbanization, as well as industrialization
- Favorable government policies regarding traffic management, due to increasing environmental concerns and need for lower fuel wastage

Several new car models, especially luxury brands, use some form of V2X technology; going forward the technology is expected to be included in lower-priced vehicles as well

Key Active Proponents

Audi | Mercedes-Benz | NISSAN
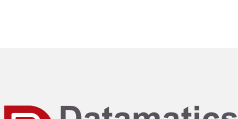BMW | Ford | SAIC
VW | HONDA | JAGUAR / LAND-ROVER

Recent Development

- **Audi** — Testing of C-V2X technology for connected vehicles with Audi was done by Qualcomm – a US-based wireless telecommunication product and service provider
- **Ford** — Ford plans to launch its first C-V2X vehicle for China by 2021; also the technology will be implemented for all its vehicles sold in the US from 2022 onwards
- **HONDA** — Revealed its 'Smart Interaction' technology for V2X communication for reduction of traffic and collusion; the technology allows cars to virtually see through around buildings

Key Insights

- The market for V2X is still in a nascent stage; the technology is expected to see high adoption over the coming decade, as several companies are supporting the technological advancement
- Over the next 5–10 years, adoption of 5G technology is expected to provide major push for the adoption of V2X technologies
- V2X technology in low-budget cars will provide a high impetus for large scale adoption

e: marketing@datamaticsbpm.com   w: www.datamaticsbpm.com