# Blind Spot Detection

# What is Blind Spot Detection

#### What:

A system that provide drivers with warnings when there is a vehicle in the "Blind Spot" that could cause an accident if a lane change is attempted. Video: <u>https://youtu.be/B93tfG4ZydY</u>

#### Why:

To improve passenger safety by providing warnings and / or intervention to potentially tired or distracted drivers.

#### **Benefits:**

Decrease in accidents / injuries / deaths caused by tired or distracted drivers

Pathway to autonomous vehicles

Increased traffic flow

#### How:

Utilization of cameras and electronically controlled systems can interpret and react to changing conditions faster than a human driver in many situations reacts. System can be "Passive" (Provide audio, visual or haptic feedback) to notify driver of a pending situation or can be "Active" (Intervention with steering) as the situation dictates.

### Blind Spot Detection Operation

Radar to sense other vehicles Notify driver when cars near by Turn signal use key operational factor May have correction capability



### Blind Spot Detection Components

Radar sensors (Some use ultrasonic or cameras) Module(s) Control Switch Steering Visual Indicators Audio Haptic feedback (Steering wheel shake)

### Blind Spot Detection Diagnosis

Visual inspection Damage to bumper Damage to sensor Fault codes OEM SAE **Electrical testing** Power Ground Signals **BUS** Communications

## Blind Spot Detection Service / Calibration

Mechanical

Targets

Some sensors hard mounted, some may be adjustable

Non-related repairs and services can require calibration

Alignment Collision

Self / Auto Driving

