



Mileage-Based User Fees Symposium: Nexus of Road User Fees and In-Vehicle Technologies

Future Vehicle Technologies

Jeremy Salinger

Innovation Program Manger

GM R & D Center

Warren, MI



GM

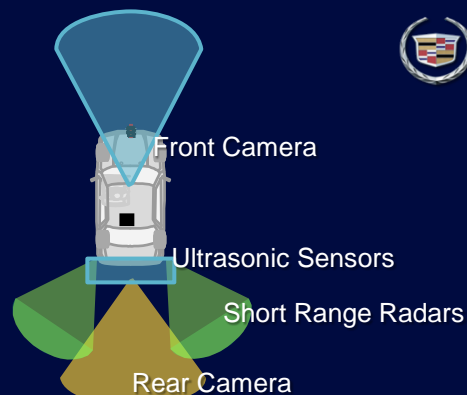
VEHICLE ELECTRONICS AND SENSORS



CADILLAC DRIVER ASSISTANCE / ACTIVE SAFETY

Package 1 – “Driver Awareness Package”

Cadillac ATS
Cadillac XTS
Cadillac SRX



Safety Alert Seat

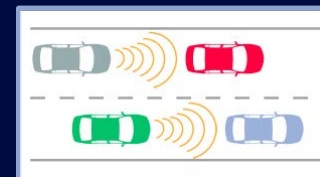
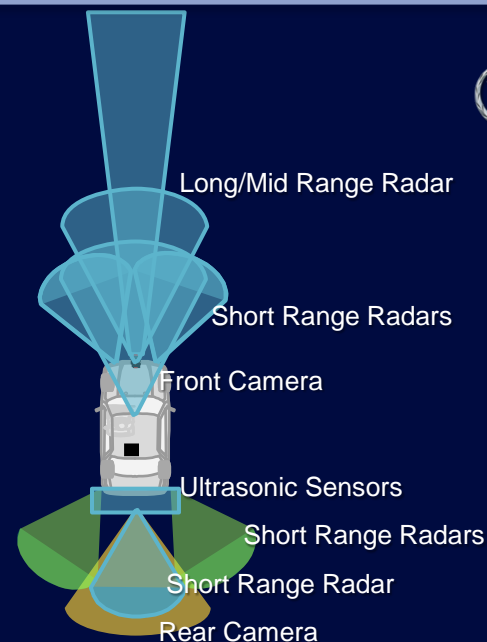
- Lane Departure Warning
- Forward Collision Alert
- Side Blind-Zone Alert
- Rear Cross-Traffic Alert
- Haptic Safety Alert Seat Feedback

Also includes:

- Rear Vision Camera
- Front & Rear Park Assist

Package 2 – “Driver Assist Package”

Cadillac ATS
Cadillac XTS
Cadillac SRX



Package 1 plus:

- Full Speed-Range ACC (Stop w/Go Notifier)
- Auto Collision Preparation (includes Collision Imminent Braking)
- Low-Speed Front/Rear Automatic Braking (Emergency Braking to Avoid Contact)

CARS THAT DON'T CRASH



VEHICLES THAT DRIVE THEMSELVES



V2X TRANSPONDER INTEGRATION

APPLICATIONS

Forward Collision Warning

– Detected



– Caution



– Warning



Intersection Collision Warning



Hard Braking Vehicle Ahead



V2X SMARTPHONE INTEGRATION

APPLICATIONS

🚧 Construction Zone



🚧 Pothole Ahead



🚲 Cyclist



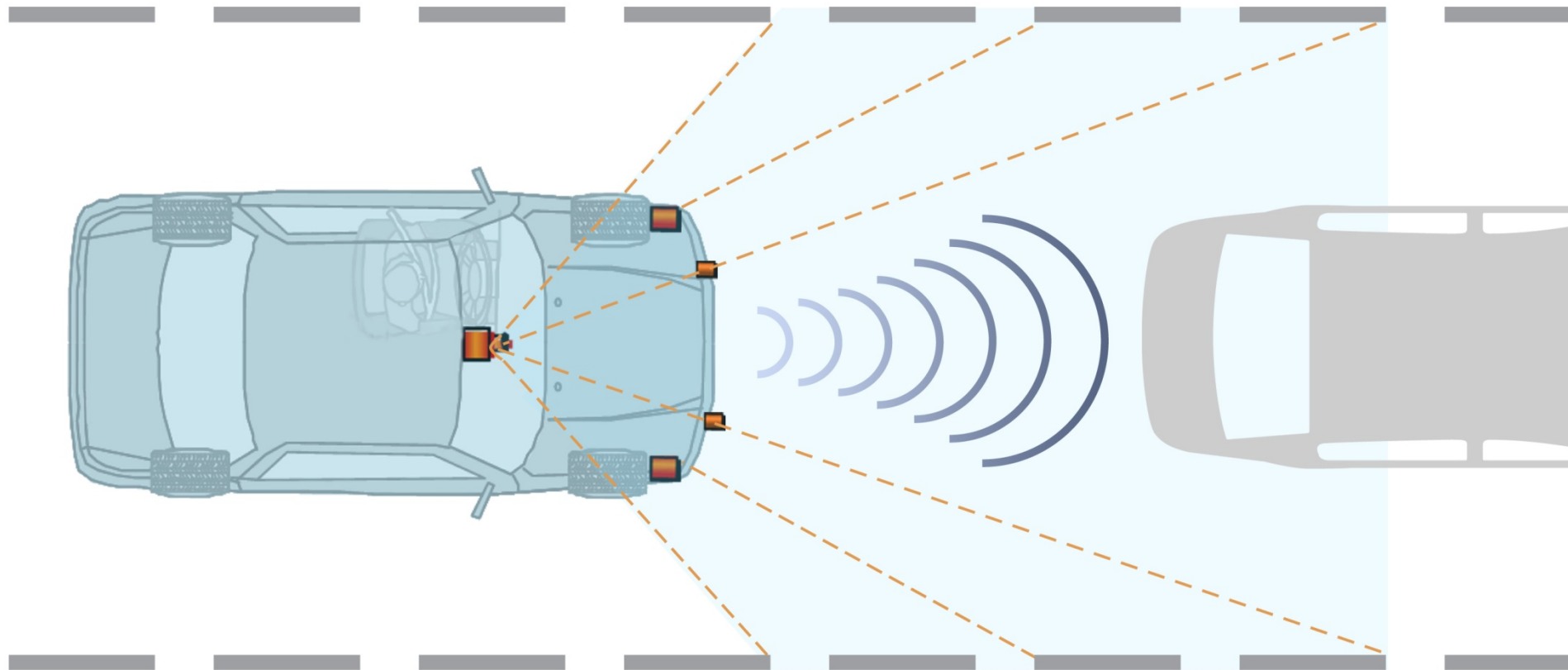
🚗 Slow Vehicle Ahead





CADILLAC DEVELOPING “SUPER CRUISE”

“Super Cruise” does full-speed range adaptive cruise control and lane centering, using cameras and other sensors to automatically steer and brake in highway driving.



ELECTRIC, CONNECTED, AUTONOMOUS

