Connected Vehicle Ecosystem

The Future is Now
Connected vehicles

Transportation systems are becoming information systems

Roadways are influenced by digital messages, not just physical infrastructure

Connectivity can improve safety and mobility

Can serve as a basis for road usage charging
Today’s cars have a lot to say...

- Lane departure system
- Night vision
- Front object CCD camera
- ASCD
- Pedestrian warning
- Airbag sensors
- INFOTAINMENT SYSTEM
- Front object laser radar
- Nighttime pedestrian warning IR sensor
- Active park assist
- Tire pressure sensor
- Rear object monitor
- CCD camera
- Side curtain sensor
- Rear camera
- Blind spot detection
- Cross traffic alert
- Rear object laser radar
- Wheel speed sensor
- Central computer
- Collision sensor
- Side airbag SRS
- Steering angle sensor
- Adaptive cruise control
- Automatic brake actuator
- Wheel speed sensor
Connected vehicle ecosystem – enabling V2X
Connected vehicle ecosystem - OReGO
Possible ITS Applications

Weather incident reporting/Curve warning

Connected traffic signals
Active traffic management

• Provide traveler information
• Better traffic operations
• Improve system efficiency