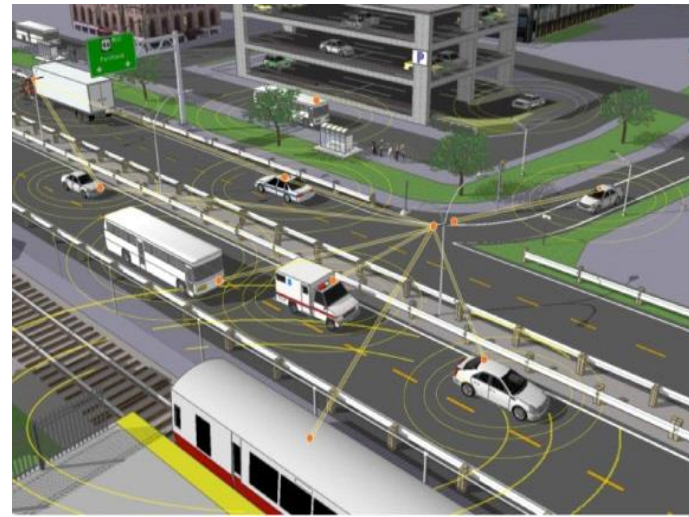
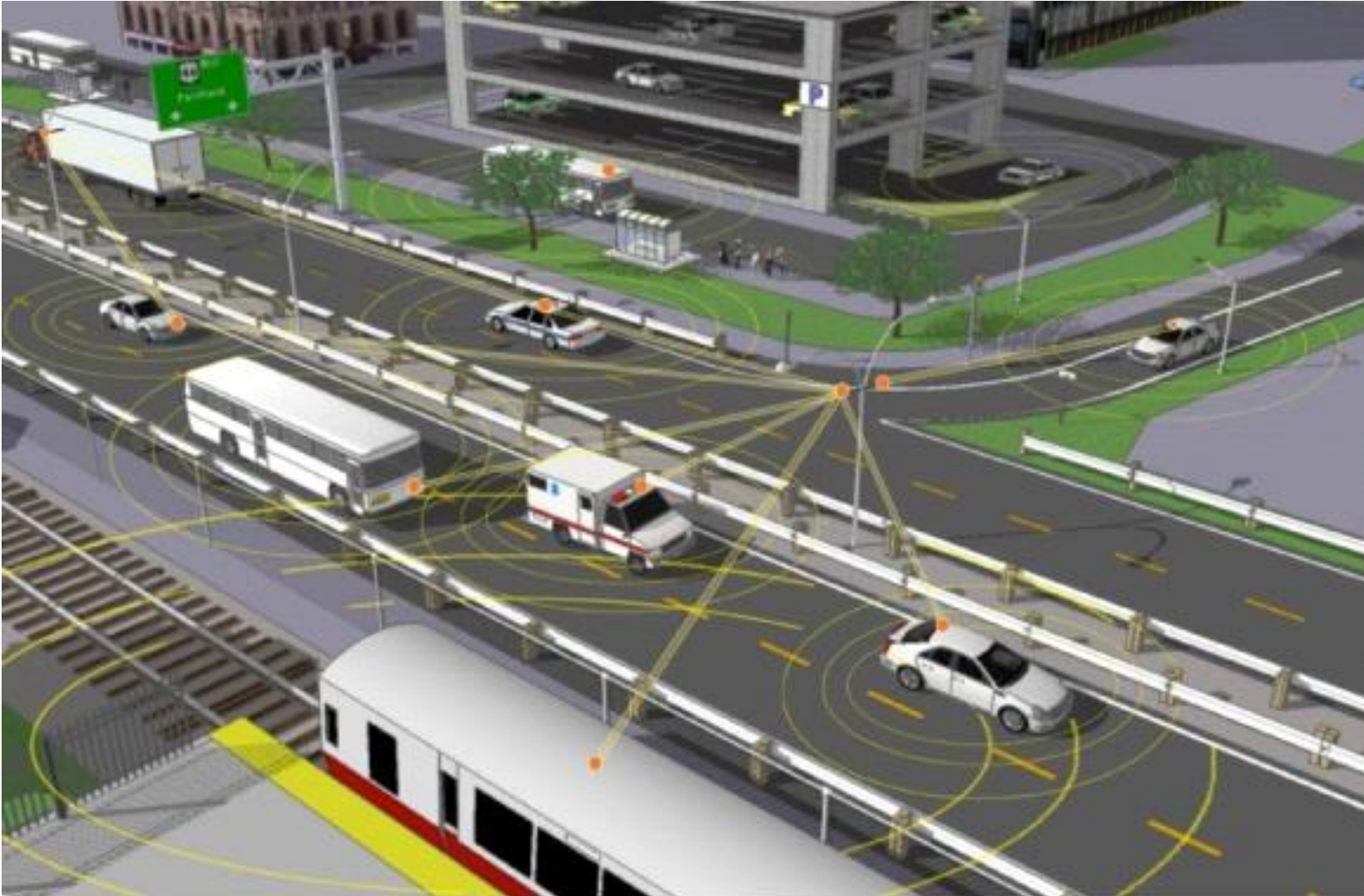


Making Cities Safer while reducing commute times

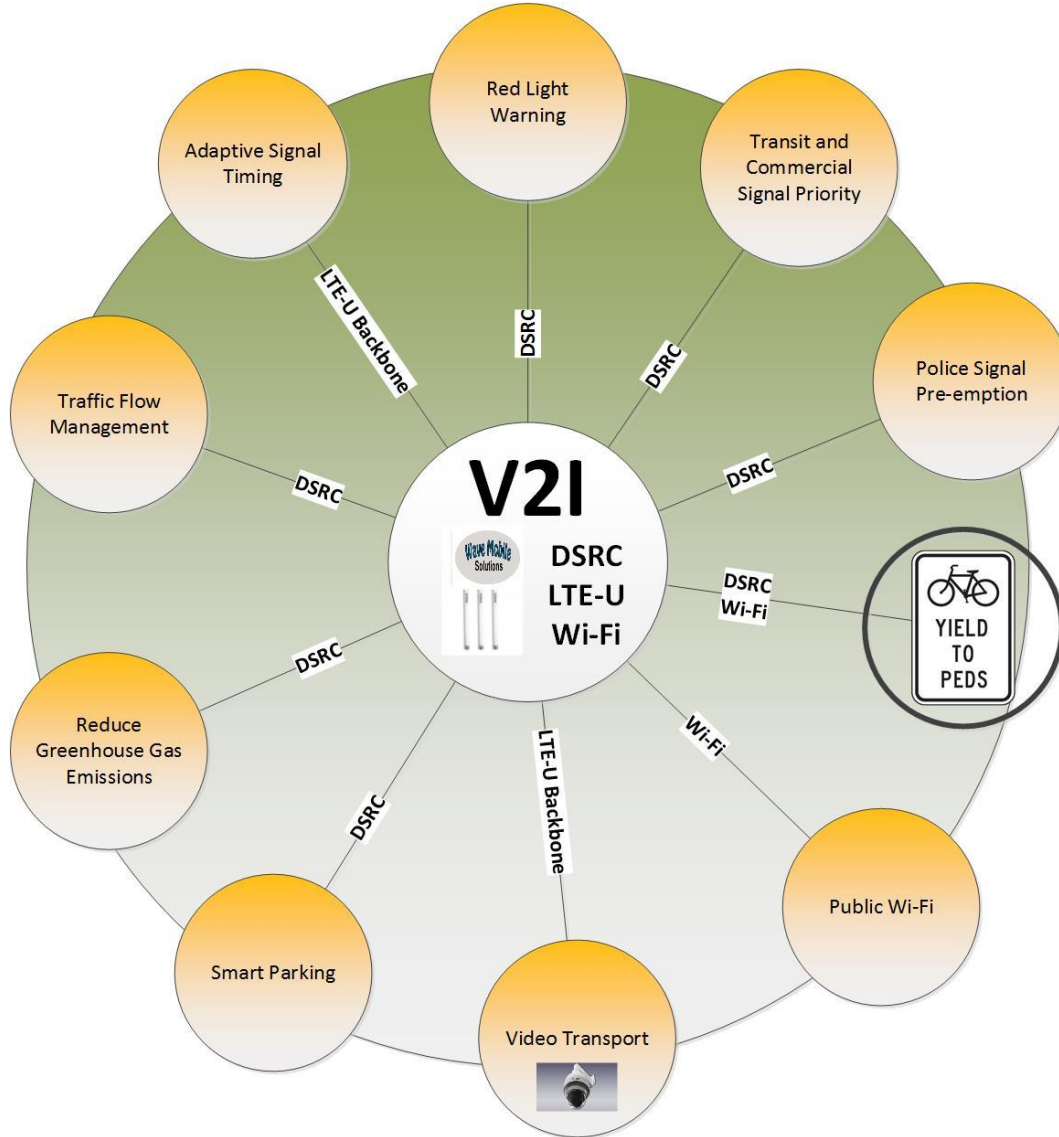


Geoff Smith
Managing Director

DSRC 5.9GHz V2V and V2I Applications for CV & AV



Smart City Challenge





RSU

Fiberwire 8211

- ▶ 3 radios in one:
 - ▶ 300Mbps Fiber capacity license free LTE-U backhaul
 - ▶ 2.4GHz Wi-Fi access
 - ▶ 5.9GHz DSRC
- ▶ 1 installation with 1 federal grant
- ▶ 1 cat 5 cable
- ▶ 1 solution to maintain and manage
- ▶ we also offer a standalone RSU/OBU:

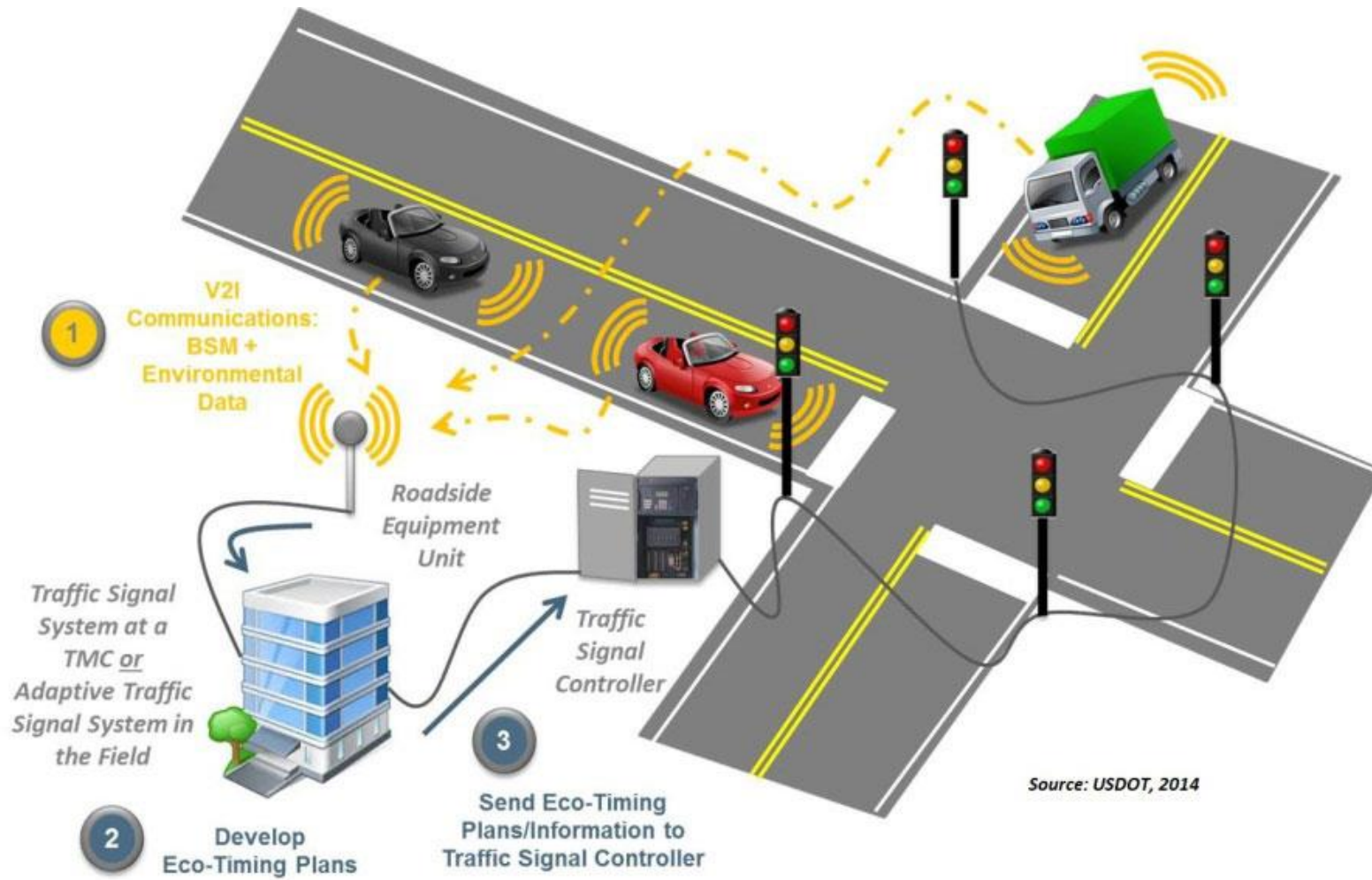


RSU/OBU

Vision Zero



Detecting Pedestrians and Bicyclist and notifying oncoming vehicles to avoid collisions





Test bed for Autonomous and Connected Vehicles

▶ Applications:

- ▶ Collision Avoidance V2V & V2I
- ▶ Traffic Signal priority for Transit & Commercial Fleets
- ▶ Traffic Signal pre-emption for Public Safety Vehicles
- ▶ Intersection Detection
- ▶ In Vehicle Signing - Work Zone; Dangerous Curve; Rail Crossing; Flooded Road; etc.
- ▶ Adaptive signal Control



Technology Evolution

- 1990 - 1999 Fixed Internet
 - Modems became commonplace and the internet boomed
- 2000 - 2009 Mobile Internet
 - Smart Phones & Wi-Fi became the norm and the internet became mobile
- 2010 - 2019 Internet of Cars
 - Tesla launches auto-pilot, Google Car, EZ Mile,...
- 2020 -?

