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2016

- Building a Transportation Infrastructure for Tomorrow's Economy

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Milwaukee, Wisconsin

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Connected and Autonomous Vehicles

- **Executive Leadership Team (ELT)**

AASHTO, State DOTs, IBTTA, **NACO**, NACTO, the automobile manufacturers, and USDOT

- The ELT has been guided by the Executive Leadership Team Partnership and Operating Policy, which was finalized April 5, 2006

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Connected and Autonomous Vehicles

- **Executive Leadership Team (ELT)**

The Partnership and Operating Policy explains that the ELT is expected to address executive leadership issues and ultimately determine if the expected value of Connected Vehicles warrants an investment for national deployment.

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Base Definitions

- Connected Vehicles (CV)
- Autonomus Vehicles (AV)
- Driverless Cars
- Vehicle to Vehicle (V2V)
- Vehicle to Infrastructure (V2I)
- Level 3,4,5,Deployment



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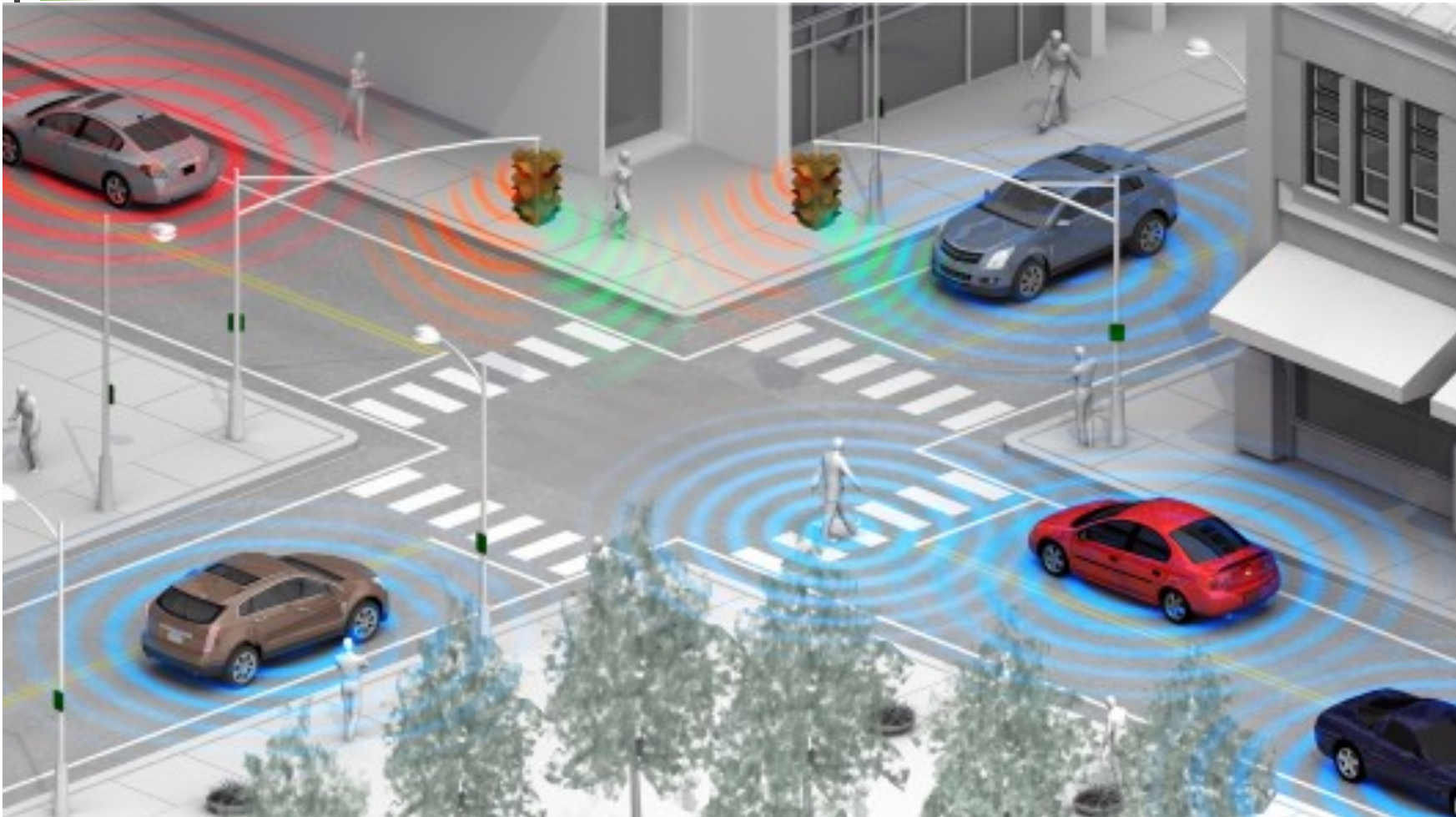
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- V2V Applications
- V2I Applications Focus (as set by the ELT)
- To help accelerate deployment of V2I applications related to:
 - Intersections (signalized & non-signalized)
 - End of queue warnings
 - Work zone management
 - Curve warning system

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Drivers of AV deployment

- Government agencies see overall benefits to society and do not want to unduly impede the technology
- Safety agencies (NHTSA) will “require” certain automated features
- Driverless technology will not be required, and is likely to be subject to performance or design standards

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Drivers of AV deployment

- The extent to which driverless technology is regulated will affect deployment efforts and time frames
- The USDOT has indicated a large AV effort: \$3.8 B and 10 years

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Today's Transportation Challenges

Safety

- **32,675 highway deaths in 2014**
- **35,092 highway deaths in 2015**
- **6.1 million crashes in 2014**
- **Leading cause of death for ages 11, 16-24**



Data Sources: Quick Facts: 2014 Data, National Highway Traffic Safety Administration (January 2016); 2015 Annual Urban Mobility Report, Texas Transportation Institute (Aug 2015); Centers for Disease Control

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Today's Transportation Challenges

Mobility

- 6.9 billion hours of travel delay
- \$160 billion cost of urban congestion

Environment

- 3.1 billion gallons of wasted fuel
- 56 billion lbs of additional CO₂



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The Future is today!!

- What do Counties Need to be aware of?
- Regulatory Framework (Federal, State, Local)
- Data Management
- Seamless System of Communication
- Infrastructure Investment
- Public Demand
- Economic Development

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- Driverless Cars are the Future and the Future is now



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U.S. DOT ISSUES FEDERAL POLICY FOR SAFE TESTING AND DEPLOYMENT OF AUTOMATED VEHICLES

- *Four-Part Policy Lays the Foundation for the Next Revolution in Roadway Safety.* - September 20, 2016
- WASHINGTON—The U.S. Department of Transportation is issuing Federal policy for automated vehicles, laying a path for the safe testing and deployment of new auto technologies that have enormous potential for improving safety and mobility for Americans on the road.
- “Automated vehicles have the potential to save thousands of lives, driving the single biggest leap in road safety that our country has ever taken,” said U.S. Transportation Secretary Anthony Foxx. “This policy is an unprecedented step by the federal government to harness the benefits of transformative technology by providing a framework for how to do it safely.”

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- Questions ?????
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