

Sub Working Group Outline on Smart Traffic and Transit Technologies

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Technology Overview

- Systems- security, intelligence, monitoring, management
- Hardware- traffic signals, cameras, sensors, off-road equipment, drones, EV charging equipment
- Software- route planning
- Connectivity- Cellular Vehicle to Everything (C-V2X), 5G
- Edge Computing- Artificial Intelligence

Opportunities and Benefits

- Safety Applications
- Congestion mitigation/environmental
- Commerce/trade
- Support Functions- food and medicine delivery

Barriers

- Policy/regulations
- Accessibility/inclusion
- Education/training and resources
- Interoperability
- Cybersecurity
- Funding

Industry Experts

- Selected State DOTs
- Vision Zero Network
- Highway Engineering Exchange Program
- Smart Cities Experts
- Research firm that talks about grid impacts associated with increased Electric Vehicles
- Security risks associated with transportation

Other references

- Federal Agencies (NHTSA, US DOT)
- State and local jurisdictions
- Smart City examples
- Studies on the growth of the EV market