The Need for HAV’s

- **1,188** Roadway Fatalities in 2016
- **264m** Annual Hours of Delay
- **133m** Gallons of Fuel Wasted Annually
- **950k** Physically Disabled Citizens
- **769k** Licensed Drivers aged 75+
- **983k** Pennsylvanians aged 75+
Challenges of Adopting HAVs

- Public acceptance
- Legislation
- Safe testing and deployment
- Security
- Decision-making with conflicts
- Insurance and liability
- Transition with varying levels of autonomy
- Revenue (Parking & Traffic Violations)
- New Business and Workforce Models
Stakeholder Collaboration: Task Force

Federal Government
- U.S. Department of Transportation
- Federal Highway Administration

State Government
- Pennsylvania Department of Transportation
- Pennsylvania State Police
- Pennsylvania Insurance Department
- Pennsylvania Department of Community & Economic Development

Local Government
- City of Pittsburgh

Private Sector Organizations
- AAA
- ATA
- American Trucking Associations
- SAE International
- Pennsylvania Motor Truck Association
- Pennsylvania Association for Justice
- IP

Academia
- Carnegie Mellon University
- Penn State
- MIT

Private Sector Business
- Uber
- GM

Safe Drivers · Safe Vehicles · Secure Identities · Saving Lives
Current Pennsylvania law: legal, but limited (driver required behind the wheel)

Proposed legislation (SB 427)
- Allow advanced HAV testing on public roads
- Will facilitate platooning and testing and deployment of transit and other types of HAVs
- Testing to be overseen by PennDOT; PA Turnpike

PennDOT will issue testing policies
- Regulations versus Policy
- Flexibility to keep pace with innovation
- Readiness to address safety issues promptly
HAV Statewide Strategic Plan

Living Document
Expand on Existing Research
Actionable Information
Near-term and Long-term

Maintenance & Operations
Planning & Research
IT & Security
Policy & Legal
Design & Construction
Modal Considerations
Workforce Requirements
Outreach & Collaboration
Driver Licensing & Motor Vehicles

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Smart Belt Coalition

Safe Drivers · Safe Vehicles · Secure Identities · Saving Lives
Autonomous Shuttle in Middletown
# Autonomous Vehicle Proving Grounds

### Pennsylvania Proving Grounds

- City of Pittsburgh
- Penn State University
- PennDOT
- Carnegie Mellon

### Multiple Facilities

- City Streets
- Closed Test Track
- Interstate 99

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**Safe Drivers • Safe Vehicles • Secure Identities • Saving Lives**
V2I Deployments

**CURRENT**

- **Cranberry**
  - 11 RSUs

- **Ross Twp.**
  - 11 RSUs

- **Pittsburgh**
  - 24 RSUs

**PLANNED**

- **Pittsburgh**
  - 45 RSUs
  - 726 OBUs

- **iCone**
  - Pilot

- **Harrisburg**
  - 8 RSUs

- **Philadelphia Region**
  - 160 RSUs

- **Autonomous TMA Pilot**
Next Steps

• Shape the legislation

• Task Force representation and mission

• Foster and promote citizen engagement

• Identify and help address critical issues
  • Trial and error
  • Human/automated driver transition
  • Workforce/business impacts
  • Cyber security, data privacy, and ownership
  • Ethics questions
Inaugural HAV Summit

• September 11-12, 2017
• State College Ramada Inn, and Larson Institute Transportation Research Facility Test Track
• Limited to 300 participants
• Two Tracks:
  • Workforce
  • Community and Regional Planning
• Special speakers and HAV demonstrations
• Sponsored by ITSPA and MASITE
  • Intelligent Transportation Society of Pennsylvania
  • Mid-Atlantic Section of the Institute of Transportation Engineers
Questions and Answers
For More Information
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