Highly Automated Vehicles (HAV)
The Pennsylvania Perspective
July 10, 2017
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 HAV’s

- 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

Private Sector Organizations
- AAA
- ATA
- AMERICAN TRUCKING ASSOCIATIONS
- SAE INTERNATIONAL
- PMTA
- Pennsylvania Motor Truck Association
- PENNSYLVANIA ASSOCIATION FOR JUSTICE
- ifP

State Government
- pennsylvania DEPARTMENT OF TRANSPORTATION
- TURNPIKE
- pennsylvania STATE POLICE
- pennsylvania INSURANCE DEPARTMENT
- The General Assembly
- pennsylvania DEPARTMENT OF COMMUNITY & ECONOMIC DEVELOPMENT
- PUC

Academia
- Carnegie Mellon University
- PennState
- University of Pittsburgh

Local Government
- CITY OF PITTSBURGH

Private Sector Business
- UBER
- GM
- Global Automakers

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

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Pennsylvania Proving Grounds

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

Multiple Facilities

- City Streets
- Closed Test Track
- Interstate 99
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

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For More Information
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