COMMONWEALTH of VIRGINIA

Office of the

SECRETARY of TRANSPORTATION

Virginia Automated 20xx
Council of State Governments

Ronique Day, Assistant Secretary
June 13, 2017
Overview

- Background
- Notable Legislation
- What’s the deal? ... How is Virginia preparing
- Q & A
Background: The McAuliffe Administration

• Virginia code
  – § 46.2 - 100 Code of Virginia “operator" or "driver" means every person who either (i) drives or is in actual physical control of a motor vehicle on a highway or (ii) is exercising control over or steering a vehicle being towed by a motor vehicle.

• Our Administration is all in
  – New Virginia Economy
  – Business-friendly regulatory environment
  – Cybersecurity is a top priority and key component

• 2015 Proclamation affirming the Commonwealth’s support for research and deployment of automated technologies on Virginia road

• 2015 Governor McAuliffe signed Executive Order 43 establishing the Unmanned Systems Commission
  – Identify the state of unmanned systems industries in Virginia, challenges, explore economic development opportunities and make recommendations to the Governor
Background: Infrastructure

- **Most recent – Atlantic Gateway Project**
  - FASTLANE grant of $165 million
  - Component of project incorporates improvements to pavements for autonomous vehicle deployment; partnership with Transurban

- **2015 Virginia Automated (VAC) and Connected Corridors (VCC) announced**
  - Partnership between VDOT, DMV, Virginia Tech Transportation Institute, Transurban and HERE—Nokia’s mapping business
  - Initiative to facilitate connectivity of Virginia roads and state-of-the-art facilities for automated vehicle testing
  - Connected vehicle infrastructure deployment along designated facilities
  - Over 50 roadside equipment units installed by VDOT
  - 30 connected vehicle applications that can be used by a wide range of vehicles (e.g., passenger, transit, emergency vehicles, motorcycles) to provide a variety of information, including traveler information, lane closure alerts, work zone alerts, incident management and merge management
  - Virginia Smart Road and Virginia International Raceway are closed test tracks
Virginia is preparing – this is how: Administration and Legislature

- **General Assembly 2016: SB286 /HB454**
  - Enrolled: allows the display of moving images to be viewed while an automated driving system is performing the driving task.

- **General Assembly 2017: SB1282**
  - Enrolled: 5G legislation that creates footprint for wireless networks accelerates deployment of “small cell” infrastructure that will support next-generation 5G wireless networks and allow states to more quickly roll out “smart” infrastructure.

- **Center of Excellence established**
  - Launched May 2017
  - the Center serves as a "one-stop-shop" for information and assistance related to the unmanned systems landscape in Virginia
  - encourage economic growth across the Commonwealth via Autonomous emergent business activities
  - continue to position Virginia as a leader of the Autonomous Systems community
Virginia is preparing – this is how:
Secretariat Initiatives

• **Commonwealth Transportation Board**
  – CTB sets transportation policy, allocates funds and oversee Virginia’s transportation program
  – Innovation and Technology subcommittee
  – Dedicated innovation funding (ITTF) used solely for the purposes of funding pilot programs and fully developed initiatives pertaining to high-tech infrastructure improvements
  – ~ $100M over six year program

• **Virginia Department of Transportation Data portal**
  – Provide all relevant VDOT data at one portal site
  – Intended to accelerate connected and autonomous vehicle development
  – Will launch June 30th

• **Virginia Automated 20xx Strategic Plan**
  – Completed before end of summer this year
Agency Initiatives surrounding AV:
Department of Motor Vehicles
Department of Transportation
Department of Rail and Public Transportation

• 2014 Non-Conventional Vehicles Study; report to the General Assembly
  – Examined testing and operation of autonomous vehicles in Virginia
  – The group recommended the General Assembly not pursue any legislation and allow technology to advance; holding steady
  – No changes to licensing or permitting
• DMV staff participated in the NHTSA Model State Policy workgroup
• VDOT Connected Vehicle Program Plan
• DRPT exploring transit technologies Pedestrian Collision Avoidance
To create a strategic policy framework for transitioning autonomous vehicles into the Virginia transportation network, and associated Autonomous Vehicle program, by which Office of the Secretary can position Virginia to be a national leader in the rapidly advancing field of self-driving, connected mobility.
Virginia Automated 20xx: Secretariat Collaboration

Secretary of Transportation

- Virginia Space
- Port of Virginia
- DOAV
- DRPT
- VDOT
- DMV
- Motor Vehicle Dealer Board
- CTB
- Commonwealth Transportation Board
- Virginia State Police
Virginia Automated 20xx: Key Elements of the Plan

- Primary focus is set of robust strategies for implementation in near-term (now), mid-term (within three years) and longer term (between five and seven years)
- Each with owner, a list of agencies supporting the owner, a specific measure of success, and a timeline
- Designed to guide “continued and focused effort in managing the advance of AV”
Virginia Automated 20xx: Key Activities

• **Stakeholder Engagement**
  – Two working groups (internal and external)

• **Workshops**
  – Smart State Policy on Autonomous Vehicles workshop
  – Charrette to Review and Shape Plan

• **Analysis and Plan Development**
  – Assessment of private sector Inputs
  – Develop, Review, and Refine Strategies
  – “State DOTs and Self Driving Cars” White Paper – collaboration with Eno Center for Transportation, informed the Plan
  – Plan Framework Development
Virginia Automated 20xx: State DOT Workshop
Overview

• Virginia is open for business. . . If you aren’t testing here why not?
• Two workshops with the private sector
• Keynote from Secretary Layne, Jr.
  “We’re learning to embrace the unknown. . . .”
• Closing remarks from Governor McAuliffe
  “We are going to bury those other 49 states. . . .”
• Discussions around policy, regulations, research infrastructure
• Virginia well-positioned
Virginia Automated 20xx: Draft Goals of AV Strategic Plan

• The AV Strategic Plan will support the Commonwealth-wide transportation system goals established in VTrans2040.
  – Economic competitiveness and prosperity
  – Accessible and connected places
  – Safety for all users
  – Proactive system management
  – Healthy communities and sustainable transportation communities

• The AV Strategic Plan will result in implementation.

• The AV Strategic Plan will shape development of a successful AV program.
  – AV leading to improvements in quality of life
  – Coordinated management of AV issues
  – Responsive to evolving technology
  – Virginia recognized as a leader
  – Support for partners in AV integration
The Future of AV in Virginia

- Finalizing Virginia Automated 20xx
- Legislative agenda moving forward
- Next steps for the Commonwealth
- Questions?

Thank you!
Ronique Day
Assistant Secretary of Transportation
Ronique.Day@governor.virginia.gov
(804)786-8032