Autonomous Vehicles are Coming Soon
Big Change to Many Aspects of Society

- Roads
- Transit
- Trucking
- Delivery
- Housing
- Retail
- Auto business
- Parking

- Tourism
- Younger people
- Older people
- Disabled people
- Advertising
- Utilities
- Schools
- Etc.
As Big a Change As…

- Jet airplane?
- Interstate system?
- Model T?
- Railroads?
- Steamships?
NCDOT Encourages Autonomous Vehicle Adoption

• SAFETY!
  – Reduce the 1,500 fatal victims per year
  – Reduce the 125,000 injury victims per year
  – Reduce the billions in economic damage

• Mobility for more citizens

• Reduce or eliminate congestion
  – Greater access to jobs
  – Faster goods movement
NCDOT and NC Government Will Play a Big Role in AV Adoption

- We build and operate roadways
- We license drivers
- We register vehicles
- We establish and enforce driving and vehicle laws and ordinances
- Tort cases are heard in our courts
Road Map Commissioned

• Sponsored by NCDOT
• Two primary goals:
  – Identify the wide range of questions raised by AV technology
  – Define an approach, or Activities Roadmap, for how NC should prepare for AV technology
Road Map Process

• Stakeholder involvement
  – DOT units, State agencies, cities, companies, universities, non-profits
• Research
• Review of best practices
• Conducted by Kimley-Horn
• Completed November 2016
• Documents at http://www.ncav.org
Program Manager

• NC needs an AV Program Manager
  – Where to house?
  – How to fund?
• Central focus
• Gain expertise and experience
• Maintain momentum
• Communicate to public, Legislature, media
• Guided by executive leadership team
Working Groups

• Law and policies
  – Needed changes or additions

• Infrastructure
  – Physical
  – But not just roads

• Business
  – Make sure AV is good for NC economy
Broad Initiatives

A. Group structure and organization
B. Political leadership engagement
C. Changes to laws and vehicle codes
D. Long-range transportation plans
E. Mobility and access improvements
F. Pilot projects and research
G. Outreach/in-reach strategy
Activities

• 27 described
  – At least three under each initiative
• Owner identified
  – Program manager, DMV, TPB, others
• Schedule and budget
  – Most within one year
  – Most under $200k
Some Activities Need to Start Soon

- Bills before Legislature now
- Over 200 NC laws identified as needing change
- We already have much planning and designing in place for 2040
- Companies already interested in testing AV on NC roads
Down the Line

• Laws and institutions in place
• Stable and reliable DOT funding source
• Smooth pavement
• Good quality pavement markings
• Good communication between state agencies and vehicle companies
A Hopeful Future

• With AV, travel could be...
  – Much safer
  – Cheaper
  – Quicker
  – More available for more people
  – Less stressful
  – Better for the environment
  – Better for business
  – Creating more jobs
Thank You!

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