



NORTH CAROLINA

Department of Transportation



NCDOT Autonomous Vehicle Roadmap Policy

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Autonomous Vehicles are Coming Soon



Big Change to Many Aspects of Society

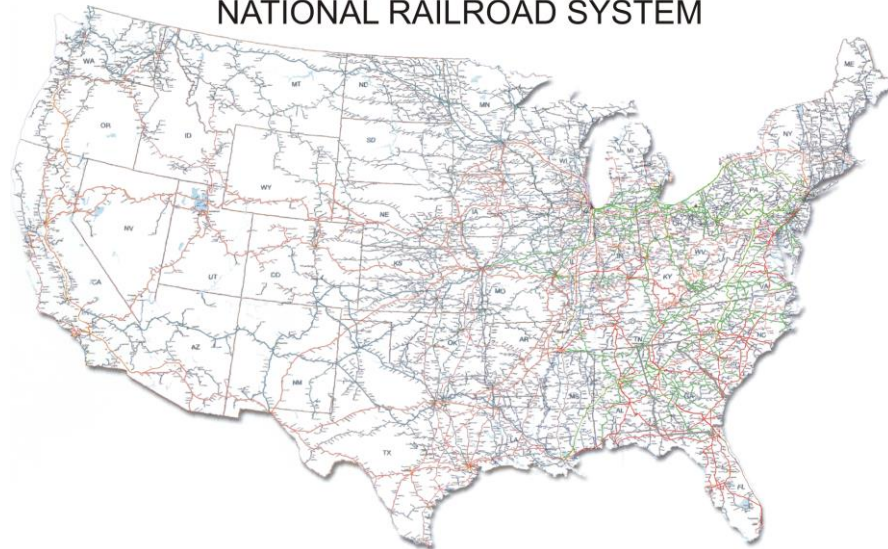
- Roads
- Transit
- Trucking
- Delivery
- Housing
- Retail
- Auto business
- Parking
- Tourism
- Younger people
- Older people
- Disabled people
- Advertising
- Utilities
- Schools
- Etc.

As Big a Change As...

- Jet airplane?
- Interstate system?
- Model T?
- Railroads?
- Steamships?



NATIONAL RAILROAD SYSTEM



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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