



U.S. Department of Transportation  
**Federal Highway Administration**

**ADVANCED TRANSPORTATION AND CONGESTION MANAGEMENT  
TECHNOLOGIES DEPLOYMENT (ATCMTD) PROGRAM**

# **NORTH CAROLINA**

## **Multimodal Connected Vehicle Pilot**

**ATCMTD FY 2019 Grant Award: \$2,117,750**

**Recipient: North Carolina Department of Transportation**

### **Project Description**

The North Carolina Department of Transportation Multimodal Connected Vehicle Pilot project aims to create a connected environment that can be used to evaluate the impact of connected vehicle (CV) technology and applications on driver and pedestrian safety. This connected environment will include an application delivering safety notifications to all of its users, including pedestrians, cyclists, transit riders and motorists. The CV applications will use a hybrid Dedicated Short Range Communication and cellular communication system with in-vehicle and roadside components. The pilot will also focus heavily on improvements to the North Carolina State University bus system. To improve transit vehicle efficiency, a new intelligent traffic signal system will be deployed to implement transit signal priority and collect and analyze high-resolution data.

### **About ATCMTD**

The Advanced Transportation and Congestion Management Technologies Deployment program funds model deployments of cutting-edge transportation technologies that improve mobility and safety for the nation's travelers and enhance performance of the highway system. ATCMTD was established under the "Fixing America's Surface Transportation" (FAST) Act to fund innovative projects that prepare America for a transportation system of the future.