

# Applying Technology to Improve Mobility!



## Let's make travel safer and more reliable!

Every day millions of vehicles move people and goods in, around, and out of the greater Charlotte region. The region's transportation system is under pressure to provide safe, efficient, and reliable mobility with the reality of additional vehicles, aging and under-sized infrastructure, changing vehicle technologies and digital connectivity gaps. **A safe, efficient, and reliable transportation system is absolutely critical to the region's economy and quality of life.**

### Improving How the Transportation System Functions

#### Intelligent Transportation Systems (ITS)

ITS is an operational system of various technologies that, when combined and managed, improve the operating capabilities of the overall system. ITS improves safety and mobility by integrating advanced communications-based information and electronic technologies into the transportation infrastructure and vehicles.

#### Traffic Incident Management System (TIM)

TIM is a planned and coordinated program process to detect, respond to, and remove traffic incidents and restore traffic capacity as safely and quickly as possible. TIM improves the productivity and safety of the transportation system through improved training and coordination of public and private sector responders.

ECONOMIC VITALITY

CONNECTED VEHICLES

REDUCING CONGESTION

IMPROVING RELIABILITY

SAVING LIVES

ENHANCING PRODUCTIVITY

LIVABLE COMMUNITIES

### Improving the Safety, Efficiency, & Reliability of the Transportation System

ITS and TIM have the potential to significantly improve the efficiency of the current transportation system by integrating communication and information technology across jurisdictions, while costing significantly less than infrastructure improvements. These are two recommendations from the 2016 Greater Charlotte Regional Freight Mobility Plan and are viable options for mitigating congestion, and thus, are critical to the safety and reliability of our region's mobility.

It's time for the greater Charlotte region to update its 2001 Strategic ITS Plan. Technology and vehicles have evolved and our expectations for connectivity and demand for information continues to increase.



## Developing A Regional, Bi-state Transportation Systems Management and Operations Vision and ITS Strategic Deployment Plan

The primary purpose of a regional, bi-state initiative is to develop a plan focused on transportation systems management and operations (TSMO) and to create a road map for the implementation of an integrated system of ITS strategies that enhance the safety, efficiency, and reliability of the transportation system.

The plan will build on the efforts of the North Carolina and South Carolina Departments of Transportation, the City of Charlotte, and other jurisdictions who operate and maintain ITS and TIM systems in the region. The plan will identify priorities to direct ITS investments and TIM strategies for ongoing, coordinated multi-agency efforts to ensure systems and procedures are integrated and complementary.

### How We Do It

The creation of a responsive, coordinated, and innovative regional, bi-state TSMO and ITS system must first be supported by elected officials; local, regional and state government staff; and other stakeholders in the greater Charlotte region.



#### Commit

Support allocation of resources to develop a regional, bi-state ITS & TIM Strategic Action Plan.



#### Engage

Participate in planning committee and identify regional needs and goals.



#### Innovate

Imagine future transportation and mobility needs that these systems could support.



#### Plan

Collaborate with regional partners to develop a robust, integrated ITS & TIM plan.



#### Execute

Cooperate and coordinate with regional partners to act on recommended strategies.



Centralina Council of Governments

### To learn more about ITS and TIM, please contact:

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