# **ITS for Arterial Roadway Safety**

Safety is U.S. DOT's top priority. The 2022 U.S. DOT's National Roadway Safety

Strategy (https://www.transportation.gov/NRSS) outlines the safe system approach to reduce serious injuries and deaths on our Nation's highways, roads, and streets, with the goal of reaching zero roadway fatalities.

ITS technologies have been shown to **improve arterial roadway safety**. The featured benefits and lessons learned are based on ITS project evaluations contained in the ITS Databases at: <u>www.itsknowledgeresources.its.dot.gov</u>.

# What is a Safe System Approach?

The Safe System approach is the guiding paradigm to address roadway safety adopted by U.S. DOT. It works by building and reinforcing multiple layers of protection to both prevent crashes from happening in the first place and minimize the harm caused to those involved when crashes do occur.<sup>1</sup>



Click on each example to learn more.



### **SAFER ROADS**

Adaptive Signal Control Systems in South Carolina

A crash prediction study in South Carolina showed crash frequency decreased at 9 of 11 corridors equipped with Adaptive Signal Control Systems.



# **SAFER PEOPLE**

#### Crosswalk Enhancement in Utah

High-Intensity Activated Crosswalks (HAWK) were estimated to lower the odds of driver non-compliance by 37.6 times compared to standard marked crosswalks.



# **SAFER VEHICLES**

Connected Vehicle Technology in Florida

The Tampa Connected
Vehicle Pilot showed a 9%
decrease in the rate of
conflicts per vehicle with
Forward Collision Warnings.



# **POST-CRASH CARE**

Advanced Automatic Collision Notification & Trauma Center Care in the United States

A NHTSA analysis estimates that combining the benefits of trauma center care and the benefits of faster crash notifications with Advanced Automatic Collision Notifications could reduce fatalities by 1.6% to 3.3% per year.

# **SAFER SPEEDS**

Speed Cameras in New York

A New York City speed camera program reduced speeding at 91 school speed zones by 73%.

