

# IMPROVING TRANSPORTATION OUTCOMES WITH TECHNOLOGY



Supporting intelligent transportation systems (ITS) and advanced technologies will deliver safer roads, greater return on investment, and better service to the public.



**Improve roadway safety**



**Lower project delivery times**



**Reduce congestion and traffic**



**Strengthen domestic supply chains**



**Help our federal dollars go farther**



**Ensure U.S. leadership in technology**

## OUR CHALLENGE

Each year, the U.S. loses **more than 40,000 lives** to preventable traffic crashes. Americans **lose 54 hours per year** on average stuck in traffic, and our economy loses **over \$224 billion** in productivity. Despite billions invested in transportation infrastructure, we continue to face the same challenges.

## THE SOLUTION

In the surface reauthorization, Congress should **lead with innovation** by supporting ITS programs, dedicating funding to technology projects, integrating technology into all our surface transportation programs through a holistic approach, and elevating our transportation system's digital infrastructure.

Whether it's rural road safety, urban congestion, or freight reliability, **advanced transportation technologies improve performance and safety.**

Across the country, public agencies apply artificial intelligence, connected and automated vehicle technologies, digital twins, data platforms, and other innovative tools to **reduce crashes, improve traffic management and congestion, build smarter, longer lasting infrastructure, and make better use of limited resources.**

## HOW DO WE GET THERE?

Maintaining and expanding federal ITS programs and funding streams will ensure that the **U.S. maintains global leadership in transportation technology** over foreign adversaries and that these tools are developed and implemented domestically. These tools are essential to road safety, lower congestion, higher return on investment, and **a future pipeline of innovation within communities across the country.**

## KEY ACTIONS TO TAKE

- Strongly Support ITS Programs**  
Ensure U.S. leadership in intelligent transportation innovation and R&D by reauthorizing and substantially funding ITS programs at U.S. DOT
- Dedicate Funding for Technology Projects**  
Prioritize and dedicate funding for technology and innovative mobility projects through formula and discretionary grant programs.
- Elevating the Importance of Our Transportation Digital Infrastructure**  
Integrate transportation technology into all federal policy, strategic planning, R&D, and workforce initiatives, placing it on par with physical infrastructure.
- Improve Project Delivery for ITS**  
Encourage outcomes-based procurement and flexible contracting for technology projects, unique from hard infrastructure.

# SHOWING IMPACT ACROSS THE NATION



These recent ITS deployments demonstrate strong, measurable benefits to communities across the nation.

Agencies have **reduced traffic signal maintenance costs by 20%** through instantaneous retiming of signalized intersections with AI.

*Flow Labs*

Digital technologies can improve inventory collection and road inspection processes, resulting in **up to 90% cost savings**.

*Blynscy*

Innovative freight weigh station bypass led to **\$12 billion in operational cost savings** and **136 million driver hours saved**.

*PrePass Safety Alliance*



**Sarasota, Florida** deployed AI-powered technology to improve intersection safety and **experienced a 33% decrease in crashes** year over year.



**Texas** saw a median **11 minute decrease in emergency response times** after deploying automated incident detection technology.



Connected traffic signals in the **City of Detroit reduced travel time by 30%**.



**Virginia** introduced variable speed limits and other ITS tools on highways that contributed to a **22% reduction in fatal and injury crash rates**.



**Connecticut DOT** used digital alerting for its fleets, **lowering the risk of collision with roadside workers by up to 90%**.



**Georgia** saw a **20% reduction in stops on freight routes** using V2X technology, reducing congestion in peak times

Learn more about the importance of supporting transportation technologies.

[LINK](#)

Find more real-world deployment results in the ITS Use Case Library.

[LINK](#)

**SAFE. SMART. CONNECTED.**