



DELIVERING THE FUTURE OF TRANSPORTATION

THE NATIONAL INTELLIGENT
TRANSPORTATION SYSTEMS PROGRAM PLAN:
A TEN-YEAR VISION

JANUARY 2002



THE VISION > > >

Safer vehicles and roadways, with fewer and less-severe crashes.

A system that uses technology to make travel less stressful and **that works for you** regardless of traveler age, disability or location.

A system that provides **real-time information** to reduce congestion and expand personal travel choices, while improving the environment.

A system that enhances **personal security** on the roads or rail lines and at ports, and knows exactly where freight is as it moves efficiently from ship to rail or truck on its way from manufacturers to retailers.

A system that allows **easy transfers** between rail & bus, auto & transit, auto & parking.

security, mobility, convenience, information, options, safety



THE GOALS > > >

ITS will reduce the number and severity of accidents, saving **5,000-7,000 lives** a year by 2011.

ITS will help operate the transportation system more efficiently, saving at least **\$20 billion** in costs each year.

ITS will save time by reducing congestion, which will save a minimum of **one billion gallons of gasoline** each year, and realize proportionate gains in reducing tailpipe emissions.

ITS will support your travel choices with **current information** available to all.

ITS will create a **secure system** that relies on gathering and sharing real-time information to improve detection and response to national emergencies or dangerous natural events.

ITS Brings Technology to Transportation



THE DECADE AHEAD >>>

A **national network of transportation information** will allow people to choose the best service to meet their travel needs, and fleet operators – truck or transit – to manage their systems better.

Vehicles will alert their drivers to potentially dangerous driving situations using in-vehicle technologies. Other technologies will identify impaired drivers and address reckless driving.

- **13%** reduction in travel time with up-to-date roadway conditions
- **80%** of police reports cite driver error as cause of accident.

security, mobility, convenience, information, options, safety



Faster emergency response will pinpoint an accident, help determine the extent of the injuries, bring emergency vehicles to an accident site more quickly then find the best route to hospitals – all of which will return traffic to normal sooner.

The transportation system will **guide travelers in real-time**, helping them avoid daily congestion, or react to terrorism and natural disasters.

- **20-40%** reduction in accident response time with better interagency cooperation
- **8-10%** reduction in transit travel time with signal priority



SETTING THE STAGE



Transportation will reflect a new professional **culture** where public managers evaluate system performance in terms of customer satisfaction.

Public agencies will be **champions** of using technology and provide innovative funding.

- **13%** reduction in fuel consumption with improved traffic signals
- **10-15%** reduction in truck operating costs with vehicle location

security, mobility, convenience, information, options, safety



Private companies will **partner** with public agencies to provide products and services to consumers, governments and other businesses, and government will provide incentives to consumers that encourage use of technology.

Understanding of driver **behavior** will increase through research on how people interact with new technology systems, and how to encourage the use of technology without distracting the user.

- **85%** reduction in toll plaza delay with electronic toll tags
- **15-40%** reduction in accidents with ramp metering

ITS Brings Technology to Transportation

This document summarizes
The National Intelligent Transportation Systems Program Plan:
A Ten-Year Vision. The full document or an Executive
Summary can be obtained through the
Intelligent Transportation Society of America.



The Intelligent Transportation Society of America
Suite 800
400 Virginia Ave SW
Washington, DC 20024-2730
Tel: 202.484.4847
www.itsa.org

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