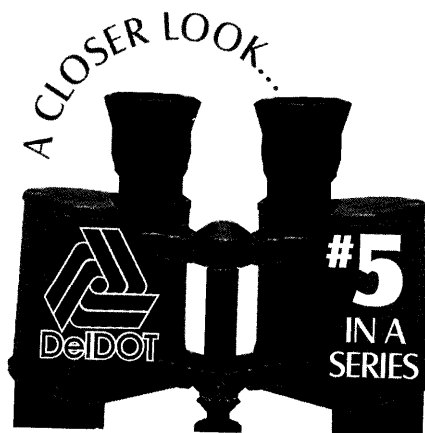


**DeIDOT**

# The Integrated Transportation Management System

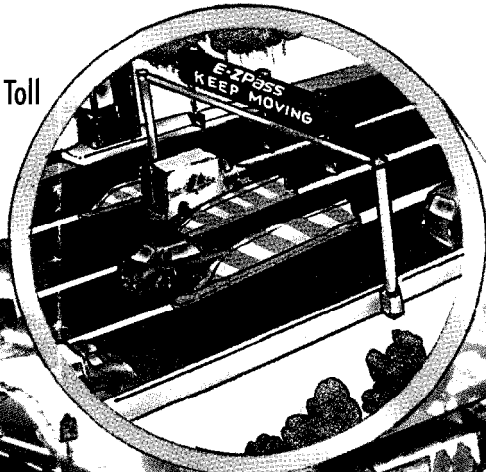
A tool for reducing congestion.



DOT/FHWA  
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# The ITMS Saves Time... Saves Money... Saves Lives

**A**  
Electronic Toll  
Collection



**B**  
On-road  
Weighing, Permitting

**C**  
Transportation  
Management  
Center



**E**  
Traffic-responsive  
Signal Systems

**D**  
Real-time  
Traveler  
Information



**F**  
Coordinating  
Incident  
Management



**A Electronic Toll Collection** - Moves traffic along by collecting tolls without stopping.

**B On-road Commercial Vehicle Tracking, Weighing & Permitting** - Cuts unnecessary delays for trucks. Speeds deliveries.

**C Transportation Management Center** - Control center integrates many separate transit and traffic operations. Coordinates with police, fire, rescue, natural resources and emergency management.

**H Real-time Traveler Information Systems** - Traffic advisory radio, signs, etc., keep drivers and riders informed.

**E Traffic-responsive Signal Systems** - Adjust signals to improve traffic flow and reduce travel time.

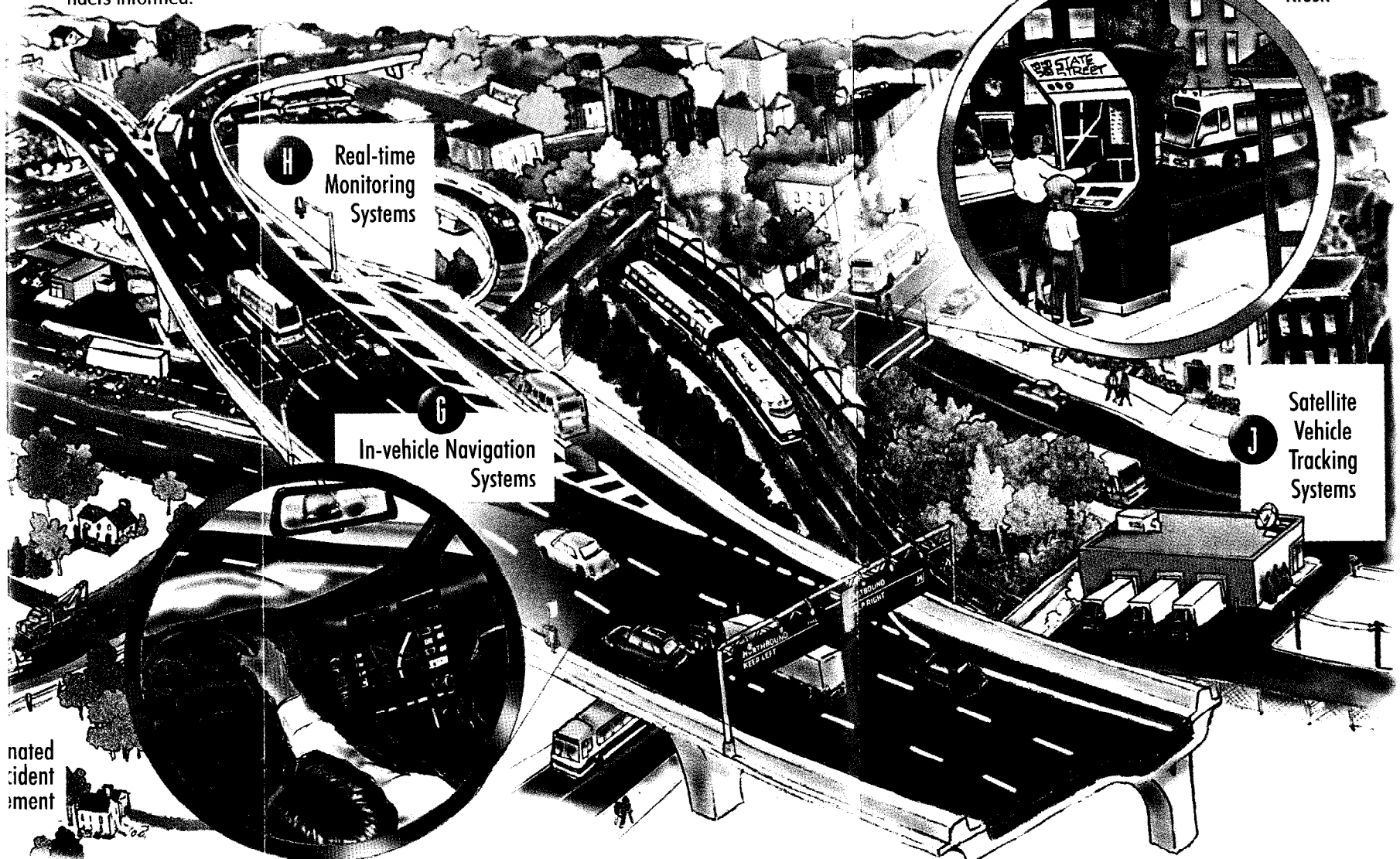
**F Coordinated Incident Management** - Speeds communication and response during incidents or special events.

**G In-vehicle Navigation Systems** - Assist drivers in plotting routes and in finding best ways around congestion.

**I Real-time Monitoring Systems** - Centralized, minute-by-minute monitoring of traffic flow.

**I Real-time Commuter Information Kiosks** - Make it easy for travelers to get up-to-date information on bus and train schedules.

**J Satellite Vehicle Tracking Systems** - Allows centralized tracking of transit and commercial vehicles.



**H** Real-time Monitoring Systems

**G** In-vehicle Navigation Systems



**I** Real-time Commuter Information Kiosk

**J** Satellite Vehicle Tracking Systems

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# 10 Ways the ITMS Benefits Delaware:

## 1 Safer Travel

The ITMS can make travel safer. For example, new traffic-responsive systems can reduce the number of accidents by reducing vehicle stops, minimizing changes in vehicle speeds and improving traffic flow.

## 2 Fewer Traffic Jams

Transportation Management Centers reduce traffic jams, travel time and stress by continuously monitoring current conditions and automatically adjusting speed limits, traffic signals, freeway ramp access, lane use and transit schedules in response to actual demand.

## 3 Improved Travel Flow

Drivers with toll debit cards attached to their vehicles can travel through toll plazas without stopping. Toll charges are deducted automatically from a prepaid account. Future "Smartcards" will allow bus, ferry and train fares, transfers, parking and other fees to be charged on one card.

## 4 Better Travel Information

At home, en-route, when shopping or at work, travelers have access to real-time, accurate information about transit, train and flight schedules, roadway conditions and other travel information.

## 5 Improved Real-time Communication

Schedule, fare and congestion information provided in real-time makes deciding how to get to a destination easier. For example, someone who usually drives to work may decide to take a bus or train if construction or an accident is slowing traffic.

## 6 Easier Travel

In-vehicle navigation systems tell car, truck and transit drivers how to best reach their destinations and provide alternate routing choices during congestion or incidents.

## 7 Quicker Emergency Response

A Transportation Management Center with monitoring equipment will detect, verify and respond more quickly to incidents on the state's transportation system. Together with emergency response partners, incidents are cleared more quickly, reducing congestion and increasing safety. Cellular call-in programs will also be used to facilitate emergency response.

## 8 Improved Passenger and Freight Management

Bus, freight and emergency vehicle tracking systems allow companies to track vehicles and communicate directly with drivers.

## 9 Faster Freight Deliveries

Automatic tracking of containers, in-motion electronic weighing, inspecting and permitting of commercial vehicles-all will help speed deliveries.

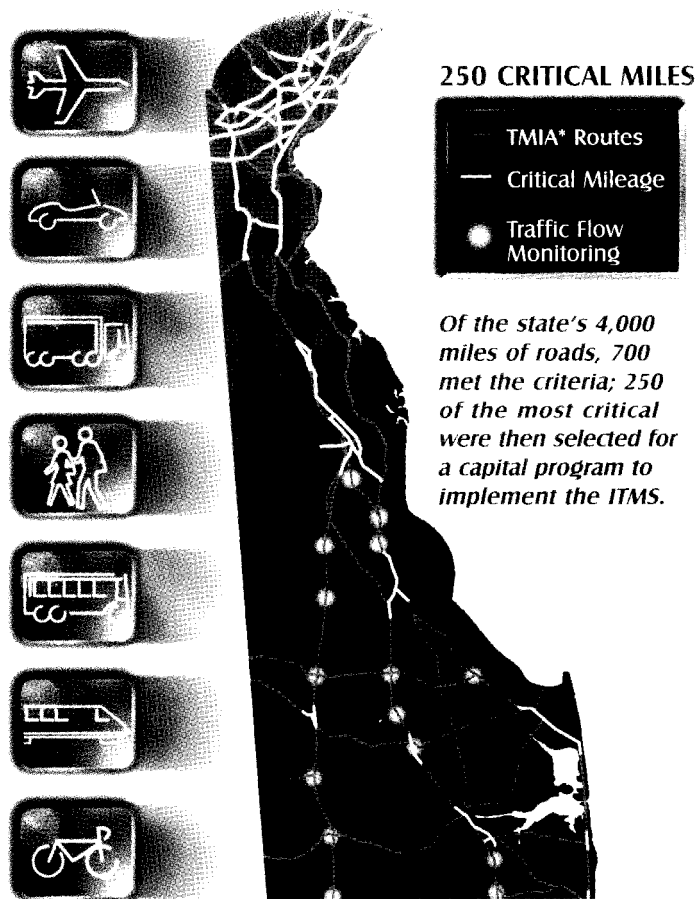
## 10 Reduced Costs

Transportation management technologies allow DelDOT to make more efficient use of existing resources by automating functions, sharing real-time information and improving safety. Private companies save money through improved freight delivery, and consumers save money through more efficient travel.

# What is the "Integrated Transportation Management System?"

Our transportation system is made up of many parts: roadways, buses, trains, ships, airports, bike and pedestrian paths, park-and-rides, etc. The Integrated Transportation Management System (ITMS) looks at transportation as a whole and uses modern technologies to blend many different types of transportation

services into a seamless, integrated Transportation System. Input from commuters, freight movement providers, the tourism industry, other transportation-related agencies and DelDOT staff was used in developing Delaware's ITMS strategy. See side 2 for specifics of the ITMS.



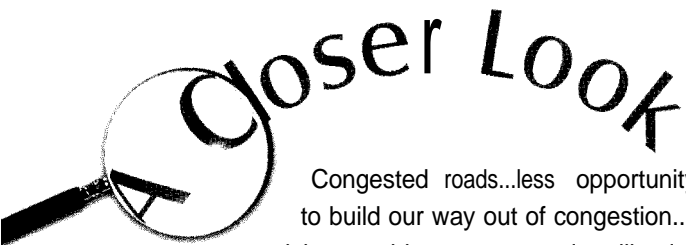
\*TMIS=Transportation Management Investment Area

Given limited resources, transportation investments will be made in areas where transportation needs are greatest and where the strongest foundations for future, expanded transportation management strategies can be built.

Six factors were used to determine investment areas: 1) congestion, 2) traffic volumes, 3) presence of transit routes, 4) extent of goods movement activity, 5) seasonal and recreational travel demands and 6) use as an alternate or bypass route. A fiscal year 1999-2004 Capital Improvement Program will implement major components of the ITMS in three priority areas by January 1, 2000. The priority areas include:

- I-95 Corridor (New Castle County, Wilmington, Newark)
- Dover (Kent County)
- Resorts (Sussex County)

# The ITMS Saves Time... Saves Money...Saves lives



## A Closer Look

Congested roads...less opportunity to build our way out of congestion...

rising accident rates...underutilized

public transit. These are some of the problems the Integrated Transportation Management System (ITMS) will address. This brochure will tell you more about how ITMS tools and partnerships are being put in place in Delaware to ease congestion and help save time, money and lives.



Sometimes congestion is simply a matter of demand exceeding capacity. However, non-recurring congestion – caused by disabled vehicles, accidents, construction, weather, and special events -contribute to nearly 60% of delays. Old solutions don't work anymore. High costs, environmental impacts and

### Anatomy of Delaware's Congestion

**There are 658,862 registered vehicles in Delaware.**

**Millions of passenger & commercial vehicles pass through daily.**

**In 1996, there were 20,465 reported accidents.**

**Between 1980 and 1994, annual vehicle miles traveled increased 66%.**

**Between 1980 and 1994, the number of roads increased by only 7%.**

### ITMS Cost vs. Road Building

**2 miles of road = \$30 million**

**ITMS 6-year, 250 miles = \$30 million**

reduced land availability make it impossible to continue to build our way out of these problems.

As called for in Delaware's Statewide Long-Range Transportation Plan, DelDOT is pursuing the ITMS as a means for reducing congestion and enhancing the efficient movement of people and goods in and through our state.

#5 in a series of informational brochures  
from the Delaware Department of Transportation.

For more information please contact:

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Delaware Department  
of Transportation