

INTELLIGENT TRANSPORTATION INFRASTRUCTURE



The ITI...each successful clone, when integrated, a more powerful system.

TRAVELER INFORMATION SYSTEMS: AVAILABLE INFORMATION ALLOWS BETTER CHOICES

In January 1996, the U.S. Department of Transportation announced the "Operation TimeSaver" initiative, challenging local and State officials to plan and buy "smart". The initiative also introduced a National goal-to build an integrated Intelligent Transportation Infrastructure (ITI). The ITI consists of the nine components and is represented by the icons shown above (from left to right): Electronic Payment, Traffic Signal Control, Freeway Management, Transit Management, Incident Management, Electronic Toll Collection, Railroad Grade Crossing, Emergency Response Management Services, and Traveler Information. While some cities and rural areas are using one or more of these components, most components cannot communicate with one another. The goal of Operation Timesaver is to promote installation and integration of ITI components so that cities and rural areas within regions can exchange information, ultimately reducing operating costs, improving mobility; and more importantly saving lives. This flier addresses Traveler Information Systems



- How Long Will It Take To Get There

Ever wish you knew about a traffic jam before getting caught in it? Ever waited wondering when the next train or bus would arrive? Then Traveler Information Systems are for you.

It's a fact! Travelers want transportation information!

In surveys performed in Seattle and Boston, results indicated that

30-40% of travelers frequently adjusted their travel patterns based on transportation information. Of those who adjusted their travel patterns, 45% changed their travel routes, 45% altered their travel times, and 5-10% switched their mode of transportation.

The most frequent complaint from travelers-information is not current or reliable. By integrating Traveler Information Systems with other ITI components, maximum benefits can be achieved. Travelers receive up-to-the-minute, accurate transportation information. When Traveler Information and Transit Management Systems are linked, travelers can receive "real-time" transit information on arrivals, departures, and delays.



U.S. Department of Transportation

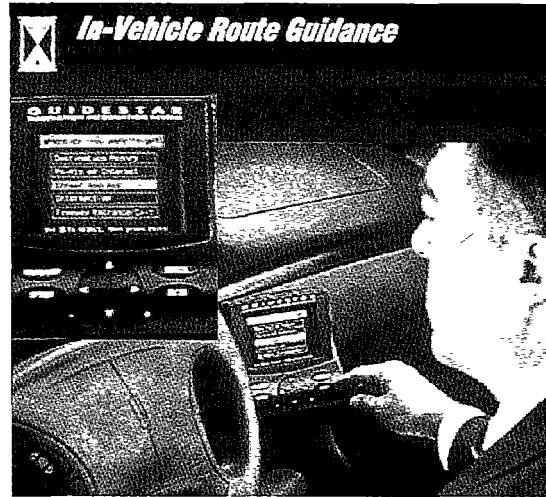


Similarly, when Traveler Information and Freeway Management Systems are linked, travelers can receive current information on traffic flows, delays, and incidents.

“Real-time” transportation information can be obtained by travelers at home, work, at the shopping mall, bus stop, subway station, and other locations. Travelers can receive information via various media-telephone, Internet and on-line services, television, in-vehicle displays and on-vehicle announcements, variable message signs, highway advisory radio, kiosks, personal digital assistants, and pagers.

- Two Kinds of Traveler Information Systems: Pre-Trip and En-Route

Pre-trip Information Systems help travelers plan their trips prior to departure and before a mode of transportation has been selected. These systems allow travelers to determine the best mode of transportation or route in order to reach their final destination. Pre-trip Information Systems encourage the use of high occupancy vehicle alternatives, such as transit and ridesharing, in place of travel by single occupancy vehicles. Significant benefits have been realized by transportation agencies that have installed Pre-trip Information Systems. New Jersey Transit’s automated transit information system experienced a reduction in caller wait time from an



average of 85 seconds to 27 seconds, and a reduction in caller hang-up rate from 10% to 3%, even though the estimated number of callers increased by 40,000 from the previous year. From October 1994 to October 1995, The Boston Smart Traveler, one of the few multimodal

Traveler Information Systems, experienced a 138% increase in usage, partly due to a partnership with a local cellular telephone service provider.

En-route Information Systems help travelers make informed decisions and itinerary changes while a trip is underway. When an incident or delay occurs, En-route Information Systems help travelers determine the best travel option- seek an alternate route, use another transportation mode, or use the original travel itinerary. Passengers have benefited significantly from transportation agencies that have decided to use En-route Information Systems. In Orlando, Florida, TravTek, an advanced in-vehicle navigation information system for drivers, reduced travel time by 19% and resulted in fewer accidents.

Want To Learn More About Traveler Information Systems?

Contact the IT1 Peer-to-Peer Network at (301) 589-4826. This flier and additional ITI information are available at: <http://www.its.dot.gov>