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Intelligent Transportation Systems Publications



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Accelerating Intelligent Transportation Systems Deployment: A Report from the United States Department of Transportation

This paper by Christine Johnson, Director of the Intelligent Transportation Systems Joint Program Office, describes the federal, state and local government officials and transportation professionals' roles in deploying and integrating Intelligent Transportation Systems.

Report # FHWA-JPO-96-00 16, November 1995.

Advanced Public Transportation Systems: A Bibliography with Abstracts, 1985-1991

This report by the Federal Transit Administration lists bibliographical information about Advanced Public Transportation Systems research projects that are partially or wholly funded or not funded by the Federal Transit Administration. Report #DOT-T-92- 18, April 1992.

Advanced Public Transportation Systems Benefits

This document by the Federal Transit Administration lists the benefits that transit authorities in the United States and Canada have experienced in deploying various Advanced Public Transportation Systems technologies. March 1996.

Advanced Public Transportation Systems Deployment in the United States

This report by the Volpe National Transportation Systems Center summarizes the deployment of Advanced Public Transportation Systems in the United States in a matrix format.

Report #FHWA-JPO-96-0032. August 1996.

Advanced Public Transportation Systems: Evaluation Guidelines

This report by the Volpe National Transportation Systems Center, describes how evaluation guidelines for the Federal Transit Administration's Advanced Public Transportation Systems Operational Tests are implemented and reported.

Report #DOT-T-94- 10, January 1994.

Advanced Public Transportation Systems: Project Summaries

This document by the Federal Transit Administration summarizes the current status of Advanced Public Transportation Systems Research Projects that are partially or wholly funded by the Federal Transit Administration and Federal Highway Administration. April 1996.

Advanced Public Transportation Systems: State of the Art, Update '96

This report by the Volpe National Transportation Systems Center and EG&G Dynatrend summarizes the state-of-the-art in Traveler Information Systems, Transit Management Systems, Electronic Payment Systems, and Transportation Demand Management Techniques. .

Report #DOT-VNTSC-FTA-95- 13, January 1996.

Advanced Public Transportation Systems (APTS) Technical Assistance Briefs

APTS Brief #1: What are Advanced Public Transportation Systems?

This brief by the Federal Transit Administration provides a detailed overview of the Advanced Public Transportation Systems Program. Spring 1993.

APTS Brief #8: Winston-Salem Mobility Manager

This brief by the Federal Transit Administration provides a detailed overview of the Winston-Salem Mobility Manager. This Operational Test in North Carolina provides transportation services to transit users through a mobility management system that automates the dispatching, reporting, and billing of transit services. September 1994.

APTS Brief #9: Los Angeles Smart Traveler Kiosks

This brief by the Federal Transit Administration provides a detailed overview of the Los Angeles Smart Traveler Kiosks. This Operational Test uses automated, multimedia kiosks in office complexes, shopping malls, and transportation centers to disseminate real-time traffic and transit information, transit schedules, and ridesharing services. December 1994.

APTS Brief #10: Smart Fare Payment Systems for Public Transit

This brief by the Federal Transit Administration provides a detailed overview of Electronic Payment Systems for Public Transit. This brief focuses on early automation efforts, read-only passes and fare cards, automated fare card sales, smart fare cards, contact cards, radio frequency coupled proximity cards, and a future perspective of the technology are discussed. January 1996.

APTS Brief #11: An Intelligent Transportation System for Atlanta for the 1996 Olympics

This brief by the Federal Transit Administration provides a detailed overview of the Atlanta Traveler Information Showcase, ITS MARTA 96 (Intelligent Transportation Systems Metropolitan Atlanta Rapid Transit Authority 1996), and the Georgia Department of Transportation Advanced Transportation Management System. February 1996.

Advanced Traveler Aid Systems for Public Transportation

This report by the Federal Transit Administration describes the concept, structure, technology, and implementation of the Intelligent Transit Mobility System which is an innovative system to improve public transportation information dissemination. Report #DOT-T-95-07, September 1994.

An Integrated Intelligent Transportation Infrastructure for Your Metropolitan Area

This brochure by the Federal Highway Administration and Federal Transit Administration provides a general overview of the nine Intelligent Transportation Infrastructure components-Traffic Signal Control Systems, Freeway Management Systems, Incident Management Systems, Traveler Information Systems, Transit Management Systems, Electronic Payment Systems, Electronic Toll Collection Systems, Railroad Grade Crossing Systems, and Emergency Management Services. Report #FHWA-JPO-96-005, December 1995.



California Smart Traveler System

This report by Aegis Transportation Information Systems describes how audiotex and videotex terminals can be used to develop parataxis and carpools and how they can be integrated with conventional transit, paratransit, and ridesharing to reduce traffic congestion, gasoline consumption, air pollution and mobility problems at a low cost to the taxpayer. Report #DOT-T-92- 16, February 1992.

Commercial Vehicle Information Systems Network - Statement of Direction

This executive summary by the John Hopkins University Applied Physics Laboratory provides an overview of the Commercial Vehicle Information Systems Network initiative. Report #FHWA-JPO-96-0006, November 1995.

Cost Estimates for Selected California Smart Traveler Operational Tests

This supplemental report to **California Smart Traveler System** by the Aegis Transportation Information Systems estimates the cost of conducting the California Smart Traveler Operational Tests in San Ramon/Pleasanton, University of California at Los Angeles, and Northern San Diego. A cost comparison of implementing Smart Traveler concepts versus the expansion of conventional transit services is included. Report #DOT-T-93-3 1, March 1993.

Driver Acceptance of Commercial Vehicle Operations Technology in the Motor Carrier Environment

This executive summary examines and addresses the important issues relating to driver acceptance of Commercial Vehicle Operations services. January 1996.

Evaluation of Performance-Based Brake Testing Technologies: Interim Report

This report covers the first year of the field testing phase of a research program on the feasibility of the use of performance-based testing technologies for commercial vehicle safety inspections. December 1995.

German "Smart-Bus" Systems: Potential for Application in Portland, Oregon, Volume 1, Technical Report

This report by the Aegis Transportation Information Systems describes how new telephone-based information services can be used to enhance the cost-effectiveness of Germany's Flexible Operations Command and Control System, a bus route deviation system. Report #DOT-T-93 -25, January 1993.

German "Smart-Bus" Systems: Potential for Application in Portland, Oregon, Volume 2, Appendices

This supplemental report to **German "Smart-Bus" Systems: Potential for Application in Portland, Oregon, Volume 1, Technical Report** by the Aegis Transportation Information Systems estimates the cost of conducting the German "Smart Bus" System Operational Test in Portland, Oregon. Report #DOT-T-93-26, January 1993.

Implementation of the National Intelligent Transportation Systems Program: A Report to Congress

This report by the Federal Highway Administration summarizes the Intelligent Transportation Systems Program status since the June 1994 Report, including accomplishments, challenges and associated implications for future directions, and assumes an understanding of information presented in that Report. Report #FHWA-JPO-96-004, January 1996.

National Intelligent Transportation Systems Architecture: Transit Issues and Recommendations

This white paper by the Sandia National Laboratories examines a number of issues relating to the transit aspects of the National Intelligent Transportation Systems Architecture. October 1995.

Operation Timesaver: Building the Intelligent Transportation Infrastructure (Rollout)

This brochure by the U.S. Department of Transportation provides a general overview of Operation Timesaver-secretary Pena's National Intelligent Transportation Systems Deployment Goal.

Report #FHWA-JPO-96-0007, January 1996.

Operation Timesaver: Intelligent Transportation Infrastructure Benefits Expected and Experienced

This report by Mitre documents the benefits of implementing an Intelligent Transportation Infrastructure.

Report #FHWA-JPO-96-0008, January 1996.

Operation Timesaver: Intelligent Transportation Infrastructure Transit Components

This flyer by the Federal Transit Administration summarizes Operation Timesaver and lists specific benefits and costs of the Intelligent Transportation Infrastructure transit components. May 1996.

Operation Timesaver: Secretary Pena's Remarks

This flyer by the U.S. Department of Transportation is a transcription of the Secretary's speech at the 1996 Transportation Research Board Annual Meeting in Washington, D.C.

Report #FHWA-JPO-96-00 17, May 1996.

Review and Assessment of En-Route Transit Information Systems

This report by EG&G Dynatrend reviews the current efforts to design, develop, and implement en-route transit information systems, and includes a discussion of the state-of-the-art in en-route transit information systems with respect to the User Service Development Plan identified in the **National Program for ITS: Volume 2**. Report #DOT-T-96-03, July 1995.

Review of and Preliminary Guidelines for Integrating Transit into Transportation Management Centers

This report by EG&G Dynatrend investigates the integration of traffic and transit operations at several Transportation Management Centers in the United States. Report #DOT-T-94-25, July 1994.

Shared Resources: Sharing Right-of-Way for Telecommunications - Guidance on Legal and Institutional Issues

This report by Apogee Research identifies 20 institutional and non-technical issues that figure prominently in shared resource arrangements. This report also describes each issue and outlines the options available, summarized advantages and disadvantages of some of the most salient, and describes the stages in development of a shared resource project. Report #FHWA-JPO-96-00 15, April 1996.

Shared Resources: Sharing Right-of-Way for Telecommunications - Identification, Review, and Analysis of Legal and Institutional Issues

This report by Apogee Research identifies and explores 20 issues associated with implementation of shared resource projects and describes various options for dealing with these issues. This report also presents five case studies to illustrate the types of arrangements that have been implemented to date. Report #FHWA-JPO-96-0014, April 1996.

Telecommunications in Transportation: Key Issues and Best Practices

This report by the Intelligent Transportation Systems Joint Program Office provides an overview of the approaches that have been successfully employed by a number of state and local governments to deal with the need to develop and deploy a sophisticated telecommunications networks to gather and distribute data for Intelligent Transportation Systems. Report #FHWA-JPO-96-0034 September 1996.

The National Architecture for Intelligent Transportation Systems: A Framework for Integrated Transportation into the 21st Century

This executive summary by Mitretek for transportation officials and executives provides a general introduction into the National Architecture. Report #FHWA-JPO-96-0012, January 1996.

Transit Geographical Information Systems

This brochure by the Federal Transit Administration provides a detailed overview of the Transit Geographical Information Systems Program, part of the National Spatial Data Infrastructure. Report #FHWA-JPO-96-0009 August 1995.

Traveling With Success

This booklet by Public Technology Incorporated documents the "success" stories that cities, counties, and metropolitan areas across the United States have experienced in deploying some of the Intelligent Transportation Infrastructure components. January 1995.

U.S. Intermodal Freight Transportation: Opportunities and Obstacles

This final report by the Michigan State University provides a better understanding of the needs and priorities of the various stakeholders, identification of opportunities and obstacles in the implementation of intermodal policies to the fi-eight transportation sector, and the federal government's role in intermodal freight transportation as it relates to Commercial Vehicle Operations technologies. May 1996.

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To receive any of these publications (no charge for shipping), please check the appropriate box(es) and send to the address listed at the bottom of the page. Single underlined document titles are available on the Federal Transit Administration's Internet home page (<http://www.fta.dot.gov/office/research/>). Double underlined document titles are available on the Intelligent Transportation Systems Joint Program Office's Internet home page (<http://www.its.dot.gov/reading/pubs.html>).

Accelerating Intelligent Transportation Systems Deployment: A Report from the United States Department of Transportation
Advanced Public Transportation Systems: A Bibliography with Abstracts, 1985-1991
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APTS Brief #5: Bellevue Smart Traveler
APTS Brief #6: Houston Smart Commuter
APTS Brief #7: Denver Smart Vehicle System
APTS Brief #8: Winston-Salem Mobility Manager
APTS Brief #9: Los Angeles Smart Traveler Kiosks
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APTS Brief #11: An Intelligent Transportation System for Atlanta for the 1996 Olympics
Advanced Traveler Aid Systems for Public Transportation
An Integrated Intelligent Transportation Infrastructure for Your Metropolitan Area
Assessment of Intelligent Transportation Systems Commercial Vehicle Operations User Services: Qualitative Benefits and Costs Analysis
Assessment of Computer Dispatch Technology in the Paratransit Industry
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Benefits Assessment of Advanced Public Transportation Systems
Building the Intelligent Transportation Infrastructure: Putting the National Architecture into Action
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German "Smart-Bus" Systems: Potential for Application in Portland, Oregon, Volume 1, Technical Report
German "Smart-Bus" Systems: Potential for Application in Portland, Oregon, Volume 2, Appendices
Implementation of the National Intelligent Transportation Systems Program: A Report to Congress
International Standards Organization Technical Committee 204 Working Group Transit/Emergency

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OLD ITEMS

Advanced Traveler Information Systems for Rural Areas

This paper by JHK & Associates summarizes the findings of a preliminary study that guides federal programs with respect to Intelligent Transportation Systems technologies in rural and small urban areas and provides guidelines for Advanced Traveler Information Systems implementation by state and local governments to meet rural traveler's needs. January 1995.

Operation Timesaver: Taking Transportation into the 21st Century

This paper provides detailed information about the goals, costs, and benefits of Operation Timesaver. January 1996.

Smart Cards for Transit: Multi-Use Remotely Interrogated Stored-Data Cards for Fare and Toll Payment

This report describes the requirements and differences between electronic fare collection and toll payment systems.

Report #FTA-MA-26-0020-95-1, April 1996.