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**UNITED STATES DEPARTMENT OF TRANSPORTATION**

**INTELLIGENT TRANSPORTATION SYSTEMS**  
**PROGRAM COORDINATION**

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**as of January 1998**

## BACKGROUND

The ambitious and challenging Intelligent Transportation Systems (ITS) program compelled the U.S. Department of Transportation to reexamine the way it traditionally does business.

The national ITS program, which aims to use advanced technology to improve the efficiency and safety of our Nation's surface transportation system, addresses both information- and infrastructure-based approaches to achieving its goals. The program also has an intermodal nature -- incorporating highways, transit, and rail -- thus requiring unprecedented cooperation among diverse groups of public and private stakeholders. ITS also has significance beyond transportation, due to its potential to stimulate and revitalize the United States technology base.

To successfully guide this "multi-modal, information- and infrastructure-based" national program, the Department had to evaluate its management approach. During the program's inaugural years (1991 to 1993), the modal administrations were responsible for various aspects of the program -- primarily, the Federal Highway Administration (FHWA) for roadway-based research and testing, the National Highway Traffic Safety Administration (NHTSA) for ITS safety programs, and the Federal Transit Administration (FTA) for transit applications.

During the latter part of 1992, the Department implemented a review of its ITS management approach. The review was undertaken by the Volpe National Transportation Systems Center in Cambridge, Massachusetts. The process involved gathering information from the Office of the Secretary of Transportation, the Department's modal administrations (FHWA, FTA, and NHTSA), the Intelligent Transportation Society of America (ITS America) and stakeholders throughout the ITS community. To promote objectivity, the process involved five individuals with strong management backgrounds but limited prior involvement in the ITS program: Dr. Lewis Branscomb, Director, Science and Technology and Public Policy Program, John F. Kennedy School of Government, Harvard University; Mr. William Bulley, Senior Vice President and Director, H. W. Lochner Inc.; Dr. Jacques Gansler, Senior Vice President and Director, TASC; Ms. Lillian Liburdi, Director, Port Development, Port Authority of New York and New Jersey; and Mr. John Magee, Chairman of the Board, Arthur D. Little, Inc. These professionals were able to take a fresh look at ITS and review the DOT approach from a variety of perspectives.

In its May 1993 report, ***A Review of the DOT Management Approach for Intelligent Vehicle-Highway Systems*** (now referred to as ITS), the Volpe Center proposed creating a joint Departmental ITS office to serve as the "principal architect and executor of ITS leadership." This included providing the "joint" office with the authority to approve Departmental-wide ITS budget requests and expenditures.

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The Department adopted the Volpe Center's recommendation and formally established the Intelligent Transportation Systems Joint Program Office (ITS JPO) in May 1994. The ITS JPO is housed in the FHWA, with Dr. Christine M. Johnson serving as the Director. The objectives of the ITS JPO are to:

- (1) provide strategic leadership for ITS research, development, testing, and deployment,
- (2) guide policy coordination, and
- (3) ensure resource accountability.

The ITS JPO receives policy guidance from the ITS Management Council chaired by Deputy Secretary of Transportation Mortimer L. Downey and planning guidance from the ITS Strategic Planning Group consisting of surface transportation program leaders throughout the Department. The functions of the ITS Joint Program Office, the Management Council, and the Strategic Planning Group are discussed further on the following pages. Offices within the various program administrations -- i.e., FHWA, NHTSA, FTA, the Federal Railroad Administration (FRA), and the Research and Special Programs Administration (RSPA) -- are responsible for the actual implementation of ITS activities.

It is important for you to know that in January 1996, the U.S. Department of Transportation (DOT) unveiled its "Operation Timesaver" initiative. This initiative introduced a National goal to build an intelligent transportation infrastructure across the United States by the year 2005, and challenged State and local transportation officials to "buy smarter" by investing in an arsenal of advanced electronics, information, and communications technologies which have contributed to saving time and lives and to improving the quality of life for all Americans. The intelligent transportation infrastructure consists of nine ITS components: Traffic Signal Control Systems, Freeway Management Systems, Transit Management Systems, Incident Management Programs, Emergency Management Services, Electronic Toll Collection Systems, Electronic Fare Payment Systems, Railroad-Grade Crossing Systems, and Traveler Information Systems.

To date, DOT is being reexamined to develop a more streamlined, cost-effective means of directing the Nation's transportation programs. This organizational overview bulletin will be revised periodically to reflect changes in the management of the National ITS program.

## **INTELLIGENT TRANSPORTATION SYSTEMS MANAGEMENT COUNCIL**

*Senior officials from each of the modal administrations with active ITS programs.*

### **MISSION**

Provides overall policy guidance on the national Intelligent Transportation Systems (ITS) program.

### **FUNCTIONS**

- Decides on major policy issues and reviews the budget and annual program recommendations of the Intelligent Transportation Systems Joint Program Office (ITS JPO).
- Ensures that there are adequate resources and finances to accomplish ITS objectives.
- Generates strategies and performance measures for the national ITS program.
- Reviews budgets and program plans.
- Resolves major issues that cannot be resolved by the ITS Joint Program Office or at the operating administration level (i.e., National Highway Traffic Safety Administration, Federal Transit Administration, Federal Highway Administration, Federal Railroad Administration, and Research and Special Programs Administration).

### **MEMBERS**

Chair, Deputy Secretary of Transportation	Mortimer L. Downey
Associate Deputy Secretary and Director, Office of Intermodalism	John Horsley
Assistant Secretary for Transportation Policy	Frank E. Kruesi
Assistant Secretary/Chief Financial Officer for Budget and Programs	(Vacant)
Federal Highway Administrator	Kenneth R. Wykle
Federal Railroad Administrator	Jolene M. Molitoris
Federal Transit Administrator	Gordon J. Linton
National Highway Traffic Safety Administrator	Ricardo Martinez
Research and Special Programs Administrator	(Vacant)

# INTELLIGENT TRANSPORTATION SYSTEMS STRATEGIC PLANNING GROUP

*Office Directors from all of the program areas that plan and carry out ITS activities.*

## MISSION

Provides strategic planning and program guidance on the national Intelligent Transportation Systems program.

## FUNCTIONS

- Provides recommendations to the ITS Joint Program Office on budget and program direction.
- Ensures that Departmental program objectives are met, i.e., research, development, testing, and deployment activities.
- Provides expertise and advice on specific ITS programs -- e.g., commercial vehicle operations, traveler information, traffic management, safety, public transportation and intermodal activities.

## MEMBERS

Director of the Intelligent Transportation Systems Joint Program Office	Christine M. Johnson
Associate Administrator for Planning, Federal Transit Administration <i>- planning</i>	Charlotte M. Adams
Associate Administrator for Research and Development, Federal Highway Administration <i>- traffic management, traveler information, commercial vehicle operations R&amp;D - automated highway system</i>	Robert J. Betsold
Associate Administrator for Port, Intermodal, and Environmental Activities, Maritime Administration <i>- intermodal development</i>	Margaret D. Blum
Associate Administrator for Safety and Systems Applications, Federal Highway Administration <i>- traffic management, traveler information, congestion management, traffic analyses</i>	Dennis C. Judycki
Associate Administrator for Research and Development, National Highway Traffic Safety Administration <i>- crash avoidance research and testing</i>	Raymond P. Owings
Associate Administrator for Program Development, Federal Highway Administration <i>- engineering, environment and planning</i>	Thomas J. Ptak
Associate Administrator for Motor Carriers, Federal Highway Administration <i>- commercial vehicle operations research and testing</i>	George L. Reagle
Associate Administrator for Research, Demonstration, and Innovation, Federal Transit Administration <i>- advanced public transportation systems research and testing</i>	Edward L. Thomas
Associate Administrator for Policy, Federal Railroad Administration <i>- intermodal rail interface</i>	(Vacant)
Region 3 Administrator, Federal Highway Administration (Baltimore) Region VIII Administrator, Federal Transit Administration (Denver)	David S. Gendell Louis F. Mraz, Jr.

Region 6 Administrator, Federal Highway Administration (Fort Worth) Edward A. Wueste  
- *implementation, field issues*

**INTELLIGENT TRANSPORTATION SYSTEMS  
STRATEGIC PLANNING GROUP (contd.)**

Director, Office of Research and Development, Federal Railroad Administration	Steven R. Ditmeyer
Director, Office of Environment and Planning, Federal Highway Administration	Kevin E. Heanue
Director, Volpe National Transportation Systems Center	Dr. Richard R. John
Director, Office of Crash Avoidance Research, National Highway Traffic Safety Administration	Joseph N. Kianianthra
Director, Office of Mobility Innovation, Federal Transit Administration	Walter Kulyk
Director, Office of Traffic Management and ITS Applications, Federal Highway Administration	Susan B. Lauffer
Director, Office of Highway Information, Federal Highway Administration	Gary E. Maring
Director, Office of Motor Carrier Safety and Technology, Federal Highway Administration	Rose A. McMurray
Director, Office of Safety and Traffic Operations Research and Development, Federal Highway Administration	A. George Ostensen
Director, Office of Ports and Domestic Shipping, Maritime Administration	John M. Pisani
Assistant Director for Geographic Information Systems, Bureau of Transportation Statistics	Bruce Spear
Minnesota Division Administrator, Federal Highway Administration	Alan R. Steger
Director, Office of Planning Operations, Federal Transit Administration	Robert Stout
Director, Office of Technology Applications, Federal Highway Administration	Joseph S. Toole
Director, Office of Highway Safety, Federal Highway Administration	Michael F. Trentacoste
Assistant Director for Information Technology, Bureau of Transportation Statistics	Robert C. Zarnetske III

**INTELLIGENT TRANSPORTATION SYSTEMS  
JOINT PROGRAM OFFICE (ITS JPO)**

*Staff office of the Federal Highway Administration, with direct accountability to the  
Office of the Secretary of Transportation*

**MISSION**

Provides strategic leadership for the national ITS program including the areas of

- program planning, assessment and budgeting
- outreach and communications,
- program policy,
- ITS architecture and standards development, and
- financial management.

**Contacts**

Director	Christine M. Johnson Mary White, personal assistant	202-366-9536 202-366-9536
Deputy Director	Jeff Paniati DeVelle Simms	202-366-2196 202-366-2196
Budget and Financial Management	Whitey Metheny	202-366-2835
Program Information Manager, and Administrative Coordinator	Donna Kelly Rockwell	202-366-675 1
Program Assessment	Joe Peters	202-366-2202
Outreach and Communications Team Leader	Susan Slye	202-366-9682
Information Outreach Coordinator	Daniel Berler	202-366-6363
Regulatory and Legislative Coordinator	Mary Pigott	202-366-9230
Advanced Traveler Information/ Traffic Management Systems Coordinator	Shelley Lynch	202-366-8028
Advanced Public Transportation Systems Coordinator	Mac Lister	202-366-9292
Commercial Vehicle Operations Program Coordinator	Michael Onder	202-366-2639
Rural Program Coordinator	Michael Freitas	703-285-2421
Advanced Vehicle Control Safety Systems Program Coordinator	Ray Resendes	202-366-2182
Technical Director	William Jones	202-366-2128
ITS Standards Coordinator	Michael Schagrin	202-366-2180
ITS Architecture Coordinator	Lee Simmons	202-366-8048

**System Integration**

**(Vacant)**

**202-366-6111**

**FEDERAL HIGHWAY ADMINISTRATION**  
**OFFICE OF TRAFFIC MANAGEMENT AND INTELLIGENT TRANSPORTATION**  
**SYSTEMS (ITS) APPLICATIONS**

**MISSION**

Guides, supports, and facilitates the advancement and implementation of traffic management and traveler information services and strategies for enhancing the operations of national highways and local roads.

**FUNCTIONS**

- Develops national goals, policies, legislation, and guidance for the deployment of traffic management and traveler information systems and services.
- Works with and provides support to the ITS Joint Program Office, other FHWA offices, and other DOT offices on issues related to the deployment and mainstreaming of ITS services and strategies.
- Delivers guidance, technical assistance, training, and outreach to our customers in FHWA field offices, State and local public agencies, and the private sector.
- Administers, manages, and evaluates major ITS and traffic management grant programs including Operational Tests, Priority Corridors, and Early Deployment Planning.
- Provides leadership and policy guidance in planning, implementing and evaluating traffic management and traveler information systems and services that foster intermodal connectivity and mobility.
- In support of our mission, provides technical leadership and liaison with partner organizations both within the U.S. and internationally.

**ORGANIZATION**

Director	Susan Lauffer Joan Gaines, secretary	
202-366-0372		
Team Coordinator/Division Chief	George Schoene	202-366-2197
East Program Delivery Team Regions 1,3,4	Bob Rupert (Team Leader) Chung Eng	202-366-2194
202-366-8043	Marti Hron Jeff Van Ness Angela Price, Secretary	202-366-2217 202-366-6479 202-366-1 993
Midwest Program Delivery Team Regions 5,6,7	Toni Wilbur (Team Leader) Lisa Dignazio	202-366-2199
202-366-2 160	Dave Helman Pam Crenshaw	202-366-8042
202-366-1 482	Judy Cooper, Secretary	202-366-6726
West Program Delivery Team Regions 8,9,10	Mark Kehrli (Team Leader) Jon Obenberger Dale Thompson Dan Schierer Angela Price, Secretary	202-366-5465 202-366-222 1 202-366-0640 202-366-4672 202-366-1 993
Planning, Policy and Program Development Team	Wayne Berman (Team Leader) Morris Oliver Hal Lunenfeld Larry Swartzlander Barry Zimmer	202-366-4069 202-366-2251 202-366-6598 202-366-6066 202-366-4082

**Laurie Radow**  
**Judy Cooper, Secretary**

**202-366-2855**  
**202-366-6726**

The Office of Traffic Management and ITS Applications is organized into a matrix-based team structure. The staff members listed above also participate on additional teams which are focused on crosscutting issues, such as congestion management, technology evaluation, traffic analysis, training, outreach, and technical expertise/assistance.

**FEDERAL HIGHWAY ADMINISTRATION**  
**OFFICE OF SAFETY AND TRAFFIC OPERATIONS RESEARCH AND DEVELOPMENT**

**MISSION**

To plan and conduct research and development on all aspects of intelligent transportation systems, traffic operations, driver-vehicle interface, design of highway geometrics and roadside appurtenances and related highway and traffic safety considerations in cooperation with State highway agencies, other Departmental offices, Federal agencies, universities, consortiums, private industry and others.

**FUNCTIONS**

- Develops advanced techniques, control strategies, and designs for traffic management and control systems including signal, freeway, and corridor systems.
- Develops and applies new traffic simulation models for accurately representing and evaluating advanced control system operation, including dynamic routing for traffic.
- Develops systems and techniques for improving driver guidance, orientation, and safety by means of in-vehicle motorist information and communication systems.
- Develops improved techniques and/or systems of vehicle detection, communications, instrumentation and other electronic type highway devices and control hardware.
- Develops and evaluates electronic systems to promote the safety and efficiency of commercial vehicle operations (CVO).
- Develops design and operational guidelines on weather, safety, operations, maintenance, and driver information systems for rural highway users.
- Develops the required highway-based counterparts to advance vehicle control systems.
- Develops and analyzes advanced electronic system concepts and designs aimed at future highway transportation needs.
- Participates in the sponsorship and conduct of cooperative engineering research programs with industrial, governmental, consortiums, university researchers, and with other national and international organizations.
- Maintains and operates in-house laboratories including: (1) an electronics laboratory which provides electronic support services to other elements within R&D and FHWA and (2) a traffic software laboratory.
- Applies human-centered principles to the design of traffic management centers and driver-vehicle information systems for all Intelligent Vehicle Initiative (IVI) vehicle platforms.

**ORGANIZATIONAL CONTACTS**

Director	George Ostensen Elke Lower, secretary 703-285-2021
IST Research Division	C. John MacGowan Nicy Ross, secretary 703-285-2027
Advanced Traffic Management Systems	James Clark 703-285-2681
Automated Highway Systems	Robert Ferlis 703-285-2680
Enabling Technologies	Michael D. Freitas 703-285-242 1
Traffic and Driver Information Systems Division	Samuel C. Tignor, Ph.D., PE Christine Adams,
secretary 703-285-2031	
Advanced Traveler & Rural Information Systems	Vacant, 703-285-2428
Human Factor Requirements	Vacant, 703-285-2404

# **FEDERAL HIGHWAY ADMINISTRATION**

## **OFFICE OF MOTOR CARRIERS**

### **INTELLIGENT TRANSPORTATION SYSTEMS/COMMERCIAL VEHICLE OPERATIONS DIVISION**

The Vision Statement for the ITS/CVO program is: "Assisted by technology, trucks and buses will move safely and freely throughout North America." This vision can be achieved by using cost-effective methods and technology to streamline current State enforcement and motor carrier practices, while increasing levels of safety and productivity for States and carriers.

- The goals of the ITS/CVO program include: Improving highway safety; Increasing motor carrier productivity; and Streamlining regulatory and enforcement procedures.
- CVO User Services - The technology applications for CVO have been categorized into the following user services: Commercial Vehicle Electronic Clearance; Automated Roadside Safety Inspection; On-board Safety Monitoring; Commercial Vehicle Administrative Processes; Hazardous Materials Incident Response; Freight Mobility.

#### **FUNCTIONS**

Advises the ITS Joint Program Office on commercial vehicle operations (CVO) for the development and deployment of federally funded ITS/CVO components and their services.

- Develops and maintains official ITS/CVO standards and protocols in cooperation with the ITS Joint Program Office and standards-setting organizations.
- Develops standards for successfully deploying ITS/CVO user services such as electronic clearance, automated roadside inspections, credentialing, immediate hazardous material incident response, commercial fleet management and other new technologies.
- Plans, develops, coordinates, and provides guidance to FHWA field and State offices regarding institutional and technical aspects of the ITS/CVO program.
- Analyzes and evaluates ITS/CVO programs. Provides input to the Joint Program Office in defining annual program activities and updating the National Program Plan for Intelligent Transportation Systems.
- Facilitates the development and deployment of ITS/CVO technologies and related legal and institutional issues.

#### **MAJOR INITIATIVES**

- Commercial Vehicle Information Systems and Networks (CVISN): The term CVISN refers to the ITS information system elements that support commercial vehicle operations. CVISN is a way for existing systems to electronically exchange information through the use of open standards and the US commercially available communications infrastructure. CVISN includes information systems owned and operated by state/local governments, carriers, and other stakeholders. It does not include the sensor and control elements of ITS/CVO technologies.
- ITS/CVO Mainstreaming and Training Programs: Solving institutional problems and getting agencies, state and industry to work together is critical to CVISN deployment.
- Electronic Clearance for International Borders: Currently, six field operational tests (FOTs) demonstrating the use of ITS technology are underway at international border crossing sites. The overall objective of each of these projects is to develop and demonstrate the use of ITS technology in an integrated International border clearance system which will allow participating vehicles to pass through international border crossings without delay, or with expedited inspections.

#### **ORGANIZATION**

Chief, CVO Division	Steve Crane	
	Gwen Shuler	202-366-0950
CVISN	Douglas McKelvey	202-366-9246
	Jeffrey Secrist	202-366-2963
Architecture Conformity	Steve Keppler	202-366-2978
International Border Program & HM	Lee Jackson	202-366-4415
Mainstreaming/Training	Jeffrey Loftus	202-366-45 16
On-board Safety Monitoring	Katherine Hartman	202-366-2742
Outreach, Marketing	Zeborah English	202-366-0398

# NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION

## OFFICE OF CRASH AVOIDANCE RESEARCH

### MISSION

- Provides leadership for delivering the crash avoidance portion of the DOT ITS program to reduce the nation's health care costs associated with motor vehicle crashes.
- Demonstrates that improved safety can be achieved by enhancing the crash avoidance performance of vehicles through the application of advanced technology.
- Ensures no loss of safety as mobility- and productivity-enhancing systems are introduced into motor vehicles.

### FUNCTIONS

- Develops research tools for acquiring driver/vehicle performance data and utilize these tools to expand the knowledge base of driver/vehicle performance data needed by product designers.
- Develops descriptions of the specific crash problems to be addressed based upon intensive analysis of the NHTSA crash data bases.
- Develops technology-independent performance guidelines for collision avoidance systems that, if followed by product designers, will maximize safety benefits and ensure that there are no safety problems.
- Works with industrial partners to facilitate the development and early deployment of cost- and safety-effective, user-friendly crash avoidance systems.
- Evaluates the safety impact of introducing mobility- and productivity-enhancing systems into motor vehicles.
- Participates as a member of the DOT management team for the Automated Highway Systems initiative.

### PROGRAM ADMINISTRATION

Director	Joseph Kianianthra Donna J. Stemski, Secretary	202-366-5662
Chief, Light Vehicle Dynamics & Simulation Division	August L. Burgett Connie Marshall, Secretary	202-366-0388
Electronics Engineer	Jack Ference	202-366-0168
Electronics Engineer	Arthur A. Carter	202-366-5669
Research Engineer	Lloyd H. Emery	
202-366-5673		
Sr. Research Engineer	David Smith	202-366-5674
Chief, Driver Vehicle Interaction Division	Duane Perrin Deborah Woolard, Secretary	202-366-5663
Engineering Research Psychologist	Michael Goodman	202-366-5677
Engineering Research Psychologist	Paul Rau	202-366-0418
Research Engineer	Michael Perel	202-366-5675
General Engineer	Jim Britell	202-366-5678

**FEDERAL TRANSIT ADMINISTRATION**  
**OFFICE OF MOBILITY INNOVATION**  
**ADVANCED PUBLIC TRANSPORTATION SYSTEMS DIVISION**

**MISSION**

The mission of the Advanced Public Transportation Systems (APTS) program is to enhance the ability of public transportation systems to satisfy customer needs and contribute to community goals by providing information on innovative applications of available Intelligent Transportation Systems (ITS) technologies from a coordinated research, operational test, and evaluation program.

**FUNCTIONS**

- Advises the FTA Administrator and senior staff on APTS and ITS issues.
- Conducts research, operational tests, and evaluations of innovative applications of advanced navigation, information, communications, electronic fare payment and transportation management technology to improve public transportation systems and high occupancy vehicle facilities.
- Encourages the development and widespread adaptation to Advanced Public Transportation Systems (APTS) technologies to improve customer service, reduce costs, and increase the occupancy levels of vehicles used in work-related trips.
- Provides technical assistance and information dissemination to Federal, State, and local agencies in the adoption of innovations in roadway-based vehicle communication and control, traveler information, and electronic fare payment systems.
- Works closely with Federal, State, and local officials and public/private transportation providers in designing and implementing site-specific operational tests and documenting Federal and non-Federal APTS projects.
- Performs evaluations of operational tests to measure the impacts of the advanced technology being tested and information to State and local agencies contemplating similar projects.
- Participates in the development of ITS Architecture, supporting the public transportation perspective.

**ORGANIZATIONAL CONTACTS**

Director, Office of Mobility Innovation	Walter Kulyk	202-366-4991
Secretary, Office of Mobility Innovation	Aletha Goodine	202-366-4991
Chief, APTS Division	Ronald E. Boenau	202-366-0195
Fleet Management, Model Deployments, IVI	Denis J. Symes	202-366-4995
Inertial Navigation, International Programs	Irving Chambers	202-366-0238
Smart Cards, Professional Capacity Building, Budget	Sean Ricketson	202-366-6678
Rural, GIS, Salt Lake City Olympics	William Wiggins	202-366-0255
Traveler Information, Outreach, Internet	W. Raymond Keng	202-366-6667
Architecture, Standards, Spectrum, Rail	Vacant	
Clerk-Typist, APTS Division	Brenda Royal	202-366-4995