



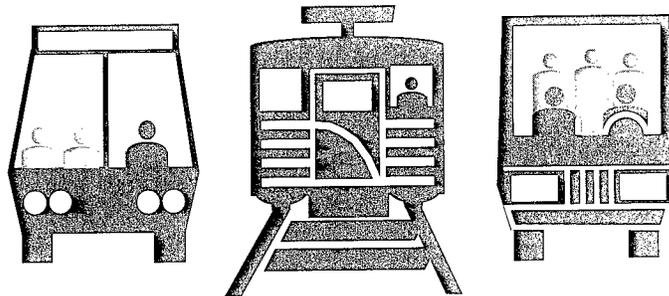
U.S. Department
of Transportation

TRANSIT PLANNING AND RESEARCH PROGRAMS

FISCAL YEAR 1997
PROJECT DIRECTORY
April 1998



PB98-135973



Federal Transit
Administration

Office of Research, Demonstration and Innovation



U.S. Department
of Transportation

**Federal Transit
Administration**

Administrator

400 Seventh St., S.W.
Washington, D.C. 20590

APR 14 1998

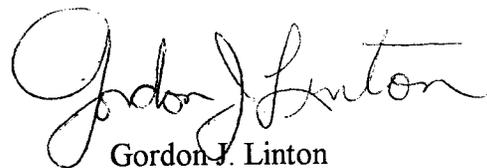
A Message from the Federal Transit Administrator:

To address our country's needs for the 21st century, communities across America have been called upon to help us in our efforts to create a world-class transportation network. This effort includes putting people first and helping to make communities livable. The Federal Transit Administration (FTA) has taken this direction by expanding the role of transit in serving people and the diverse communities they call home, as well as in advancing transit systems which take people from where they are to where they want to go, when they want to go, at a price they can afford, and do so safely and securely. These principles are the basis for FTA policies and programs and are embodied in the programs and projects described in this directory.

The programs and projects funded by FTA in fiscal year 1997 and documented in this directory are designed to promote customer-friendly, community-oriented transit facilities and services that not only provide personal mobility, but also enhance the quality of life in communities and help ensure America's economic vitality. They also reflect FTA's commitments to ensure that all transit riders have secure and safe rides, and to develop and demonstrate new and innovative technologies including applications of advanced navigation, vehicle design, information, and communication technologies that most benefit public transportation.

In addition, having recognized the global importance of electronic information networks, FTA has established a Home Page (site) on the World Wide Web of the Internet -- the road that is leading us into the Information Age of the 21st century. The Home Page provides the transportation community rapid access to large quantities of electronic data and information, and direct communication links with other transit-related programs and systems. We encourage you to visit the FTA Home Page on the World Wide Web at the following address: <http://www.fta.dot.gov>.

I am proud to share with you this report on how the FTA is translating its commitments to a new vision and new philosophy for public transportation in America into specific transportation research, technology, planning and safety projects.



Gordon J. Linton



U.S. Department
of Transportation
Federal Transit
Administration

TRANSIT PLANNING AND RESEARCH PROGRAMS

FISCAL YEAR 1997 PROJECT DIRECTORY

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Prepared for

Federal Transit Administration

U.S. Department of Transportation

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Transit Planning & Research Programs - FY 1997

FOREWORD

This annual directory contains brief descriptions of the transit research, technology, planning and safety projects initiated during fiscal year 1997 by the Federal Transit Administration (FTA) of the U.S. Department of Transportation. Its purpose is to inform the transit community and the general public of the nature and scope of work currently underway to assist state and local agencies in improving services and reducing the cost of public transit.

The projects listed in the directory reflect the implementation of FTA's Strategic Plan, which includes a mission statement that brings a new vision to public transportation in America ... *"safe, technologically advanced public transportation which enhances all citizens mobility and accessibility, improves America's communities and natural environment, and strengthens the national economy."*

In this report, each project entry is profiled separately and consists of the following information: project title and number; grantee/contractor name and address; principal investigator name and telephone number; FTA project manager name and telephone number; funding source and funding dollar amount; start and completion dates; and a summary description of the project.

The 81 projects recorded in this FY 1997 directory are organized within the following transit subject areas: *Safety and Security*; *Fleet Operations* - ITS/Advanced Public Transportation Systems; *Equipment and Infrastructure* - Bus Technology and Infrastructure, Advanced Bus Propulsion Systems, Rail Systems and Infrastructure; *Specialized Transit Services* - Welfare to Work and Service Coordination, Accessibility for Disabled Persons, Rural and Specialized Services; *Professional Capacity Building* - Human Resources, Information Management and Technology; *Policy and Planning* - Metropolitan/Rural Policy Development, Planning and Project Development, and Livable Communities Initiative. The FTA Regional Offices are listed in the final section along with their street address, telephone and fax numbers.

Recognizing that electronic information networks are contemporary and important ways of sharing information with the community, we intend to continue making this type of reference material available to our customers through the FTA Home Page on the World Wide Web (<http://www.fta.dot.gov>.)

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Safety and Security

Project Title: Active Train Coming/Second Train Coming Sign Demonstration
Project Number: CA-26-7017 **Funding:** \$200,000
Start Date: April 1997 **Estimated Completion:** April 1999
Grantee/Contractor: Los Angeles County Metropolitan Transit Authority (LACMTA)
One Gateway Plaza
Los Angeles, California 90012
Principal Investigator: Vijay Khawani, LACMTA **Phone:** 213/922-7275 **Fax:** 213/922-7138
and
Project Number: MD-26-7024 **Funding:** \$200,000
Start Date: February 1997 **Estimated Completion:** February 1999
Grantee/Contractor: Mass Transit Administration, MTA
6 St. Paul Street
Baltimore, Maryland 21202
Principal Investigator: Harold Edris, MTA **Phone:** 410/767-3323 **Fax:** 410-333-4810
FTA Project Monitor: Rhonda M. Crawley, TRI-20 **Phone:** 202/366-4035 **Fax:** 202/366-3765

Description: When motorists and pedestrians are stopped at highway-rail transit grade crossings, they naturally expect to see a passing train. After the (first) train passes, one perceives that the danger has passed and will proceed to enter the crossing the moment that the gates begin their ascent. However, the unseen approach of a second train from the opposite direction will cause the gates to come back down. Motor vehicles and pedestrians can become trapped on the other side of the falling gates. This places them dangerously close to the fouling envelope of the rail vehicle. As a result of recommendations contained in Transit Cooperative Research Program (TCRP) Report Number 17, *Integration of Light Rail Transit Into City Streets*, the FTA funded this demonstration project with two separate light rail transit operators. Rail transit systems in California and Maryland were selected as sites for this TCRP Project A-5a(1), namely -- the Los Angeles County Metropolitan Transportation Authority and the Mass Transit Administration, respectively. The objective of this project is (1) to develop one or more prototype second train coming warning signs applicable to rail transit grade crossings with high train frequency and train operations generally at speeds in excess of 35 mph, and (2) to evaluate the impact of the prototype sign in operation. This project will evaluate the application of an active second train coming warning sign under diverse operational conditions.

Project Title: Child Safety Conference
Project Number: DC-26-9031 **Funding:** \$25,000
Start Date: October 1996 **Estimated Completion:** September 1997
Grantee/Contractor: U.S. Department of Transportation
Office of the Secretary of Transportation
Washington, DC 20590
FTA Project Monitor: Carole Ferguson, TPM-30 **Phone:** 202/366-0219 **Fax:** 202/366-7951

Description: The Office of the Secretary of Transportation (OST), the National Highway Traffic Safety Administration (NHTSA), FTA, and others have launched a Department-wide program to promote child safety. This project supports the preparation and conduct of the *Moving Kids Safely '97: Building Safe Communities* conference. This national conference focuses on issues relating to children

Safety and Security

under age 16 and provides information on how to build a safe transportation environment at the community level. Project support includes conference preparation, meetings and regional seminars.

Project Title: Design and Operational Standards for Four-Quadrant Gates on the New Old Colony Commuter Railroad: Demonstration and Evaluation

Project Number: MA-03-0001 **Funding:** \$300,000

Start Date: October 1997 **Estimated Completion:** September 1999

Grantee/Contractor: Massachusetts Bay Transportation Authority
10 Park Plaza
Boston, Massachusetts 02116

Principal Investigator: Lorraine Pacocha **Phone:** 617/222-1668 **Fax:** 617/222-1557

FTA Project Monitor: Rhonda Crawley, TRI-20 **Phone:** 202/366-0196 **Fax:** 202/366-3765

Description: This project enables the Massachusetts Bay Transportation Authority (MBTA) to conduct a grade crossing demonstration project that will improve the safety at grade crossings on the New Old Colony Commuter Railroad. The objective of the project is to demonstrate and evaluate the application of four-quadrant gated grade crossing technologies on the New Old Colony Commuter Railroad's Middleborough and Plymouth lines along with the evaluation of vehicle intrusion detection systems. The research team will test and evaluate the effectiveness of four-quadrant gates with a track area vehicle detection system under various environmental conditions. A corridor analysis of the New Old Colony Commuter Railroad will be conducted, and design and operational standards for four-quadrant gates with a vehicle intrusion detection system will be developed and implemented on the two lines. Recommendations will be made for the safest grade crossing treatments applicable to rail transit operations. This project will last for approximately 24 months to ensure that all seasonal weather conditions are reviewed. Findings and results are intended to enhance the safety of light rail and commuter rail for transit employees and the riding public and will be shared with the transit industry. This project supports FTA efforts under the US DOT Highway-Rail Grade Crossing Action Plan and US DOT's strategic goal to promote the public health and safety by working toward the elimination of transportation-related deaths, injuries, and property damages.

Project Title: Drug and Alcohol Testing Compliance Audits

Project Number: MA-90-9006 **Funding:** \$1,150,000

Start Date: October 1996 **Estimated Completion:** September 1997

Grantee/Contractor: Volpe National Transportation Systems Center
Kendall Square
Cambridge, Massachusetts 02142

Principal Investigator: William T. Hathaway **Phone:** 617/494-2081 **Fax:** 617/494-2684

FTA Project Monitor: Jerry Fisher, TPM-30 **Phone:** 202/366-1651 **Fax:** 202/366-7951

Description: Five years of experience by other DOT operating administrations, which use formal and frequent site visits by inspectors to regulated employers, have revealed numerous and serious instances of drug and alcohol rule compliance failures. FTA has a statutory mandate to withhold funds from

Safety and Security

grantees for failure to comply with its drug and alcohol rules. This project will conduct extensive onsite reviews of grantees' drug and alcohol programs. Compliance audits will be conducted based on an oversight process designed to identify transit systems with programs that may be deficient. FTA's Congressional mandate requiring grantees to implement drug and alcohol testing stipulates that FTA funds should support only the grantee's implementation efforts and FTA oversight responsibilities.

Project Title: Drug and Alcohol Management Information Systems
Project Number: MA-18-X020 **Funding:** \$600,000
Start Date: October 1996 **Estimated Completion:** September 1997
Grantee/Contractor: Volpe National Transportation Systems Center
Kendall Square
Cambridge, Massachusetts 02142
Principal Investigator: William T. Hathaway **Phone:** 617/494-2081 **Fax:** 617/494-2684
FTA Project Monitor: Carol Ferguson, TPM-30 **Phone:** 202/366-0219 **Fax:** 202/366-7951

Description: Recipients of federal funds are required to implement drug and alcohol testing programs for safety-sensitive employees. The FTA drug and alcohol rules also require grantees to submit annual reports on their testing programs for inclusion in a management information system. These reports serve as a primary tool to evaluate the effectiveness of the regulations and to support future modifications. This project provides for the collection, maintenance, and analysis of the grantees' annual reports summarizing their test results and producing a final report on the effectiveness of the implementation of these rules by the transit industry.

Project Title: Safety and Security Training Program
Project Number: OK-26-7003 **Funding:** \$700,000
Start Date: May 1996 **Estimated Completion:** April 1997
Grantee/Contractor: Transportation Safety Institute
Transit Safety and Security Division, DTI-80
PO Box 25082
Oklahoma City, Oklahoma 73125-5050
Principal Investigator: Cheryl A. Ogren **Phone:** 405/954-3682 **Fax:** 405/954-0367
FTA Project Monitor: Edith Rodano, TPM-30 **Phone:** 202/366-0191 **Fax:** 202/366-7951

Description: The Transportation Safety Institute (TSI), located on the campus of the Monroney Aeronautical Center in Oklahoma City, was founded in 1971. Sponsored by FTA, this tuition-free training includes such courses as bus and rail accident investigation, rail system safety, transit security, emergency management planning, industrial safety, train-the-trainer, explosives incident management, and alternative fuels. Since it began in 1976, the transit program has trained over 60,000 students. This project provides continuing support to the Transit Safety and Security Division of the Transportation Safety Institute to provide safety and security training for more than 4,000 transit professionals annually. For additional information visit the FTA Home Page on the Internet at the following address: www.fta.dot.gov/office/program.

Safety and Security

Project Title: Safety Management Information System/SAMIS
Project Number: MA-90-9008 **Funding:** \$75,000
Start Date: June 1997 **Estimated Completion:** September 1998
Grantee/Contractor: Volpe National Transportation Systems Center
Kendall Square
Cambridge, Massachusetts 02142
Principal Investigator: William T. Hathaway **Phone:** 617/494-2081 **Fax:** 617/494-2684
FTA Project Monitor: Carole Ferguson, TPM-30 **Phone:** 202/366-0219 **Fax:** 202/366-7951

Description: The Safety Management Information Statistics (SAMIS) project has been funded since 1990 when FTA converted from a voluntary safety reporting system, known as SIRAS, to a mandatory reporting requirement under the National Transit Database (NTD). This project provides continued support to the development and maintenance of SAMIS, a reporting system containing mass transit safety and security data reported by the nation's transit systems under the NTD reporting system. Transit safety and security data are collected in four basic categories: collisions, derailments/left roadway, personal casualties, and fires. SAMIS data collection was expanded in 1994 to include highway-rail grade crossing accidents, cost and security data. In addition to compiling safety and security data on rapid rail operations, FTA publishes a separate SAMIS report which analyzes and displays the NTD data in a special report. The report includes normalized and trend data in addition to transit accident, casualty and crime statistics for motor bus, automated guideway transit, commuter rail, heavy rail, light rail, demand responsive, and vanpool systems.

Project Title: State Safety Oversight Compliance Monitoring
Project Number: MA-90-9007 **Funding:** \$200,000
Start Date: October 1996 **Estimated Completion:** September 1997
Grantee/Contractor: Volpe National Transportation Systems Center
Kendall Square
Cambridge, Massachusetts 02142
Principal Investigator: William T. Hathaway **Phone:** 617/494-2081 **Fax:** 617/494-2684
FTA Project Monitor: Roy Field, TPM-30 **Phone:** 202/366-0197 **Fax:** 202/366-7951

Description: To assess the effectiveness of the State Safety Oversight Regulation, FTA staff needs timely and accurate information on activities of State safety oversight agencies and their respective fixed guideway rail systems. This project will assess the effectiveness of State Safety Oversight Regulations and enable FTA to determine the information needed from the oversight agencies to make such an assessment. Data collection instruments will be developed for use by state oversight agencies and an automated system for storing and analyzing the information. The automated system will have the capability to report on the status of a single oversight agency as well as provide summary information for all or selected agencies.

Safety and Security

Project Title: Transit Security Audits
Project Number: CA-90-7002-01 **Funding:** \$250,000
Start Date: January 1997 **Estimated Completion:** September 1997
Grantee/Contractor: AEGIR Corporation
Los Angeles Regional Office
800 Wilshire Boulevard, Suite 350
Los Angeles, California 90017
Principal Investigator: David Blakeman **Phone:** 213/362-6930 **Fax:** 213/892-0361
FTA Project Monitor: Carole Ferguson, TPM-30 **Phone:** 202/366-2896 **Fax:** 202/366-7951

Description: In February 1997, the FTA Office of Safety and Security initiated a voluntary transit security audit program for all sizes and types of transit systems. To date, pilot audits have been conducted at San Diego Transit, Washington Metropolitan Area Transit Authority (WMATA), Southeastern Pennsylvania Transportation Authority (SEPTA), Metro-Dade Transit Agency, Denver Regional Transportation District, and San Francisco Bay Area Rapid Transit District (BART). Once a transit agency volunteers for this program, the audit process begins with a pilot audit followed in six months by the first audit, with the second and third audits conducted after 12-month intervals. This project provides for the conduct of site specific transit security audits of transit agencies. The audits will (1) assist in developing measures to enhance the security of patrons, employees, and facilities; (2) assist in implementing a security program that best suits the individual needs of each agency; (3) help transit agencies prepare for the security phase of the state safety oversight regulation; and (4) identify industry-wide concerns and trends.

Fleet Operations - ITS/Advanced Public Transportation Systems

Project Title: APTS Program Technical Support
Project Number: MA-26-7007-03 **Funding:** \$1,475,000
Start Date: May 1997 **Estimated Completion:** May 1998
Grantee/Contractor: Volpe National Transportation Systems Center
Kendall Square
Cambridge, Massachusetts 02142
Principal Investigator: Robert Ow **Phone:** 617/494-2411 **Fax:** 617/494-3670
FTA Project Monitor: Denis J. Symes, TRI-11 **Phone:** 202/366-0232 **Fax:** 202/366-3765

Description: This project continues support for the Advanced Public Transportation Systems (APTS) program, the transit component of the Department's Intelligent Transportation Systems (ITS) initiative. Support includes new research for advanced bus maintenance diagnostic systems, route deviation, demand responsive systems, bus priority services, and traveler information systems. These advanced systems offer great potential for increasing the ability of integrated transit and bus fleet operations to compete efficiently with the private automobile. The project also builds upon operational tests to improve interface of home-office information services and next generation kiosks for traveler information systems. Program management, course development and delivery will be provided for the ITS Professional Capacity Building effort. Support will continue for the evaluation of APTS operational tests as well as the development and maintenance of various outreach mechanisms such as brochures, videos, technical briefs, conferences, and other activities that promote APTS technologies and share information about APTS research and demonstration activities. Technical staff support will be provided to review, analyze, and coordinate technical information in support of the APTS program.

Project Title: Autonomous Dial-A-Ride Transit (ADART) Planning Model. Phase 3
Project Number: TX-26-7006 **Funding:** \$325,000
Start Date: September 1997 **Estimated Completion:** April 2000
Grantee/Contractor: Corpus Christi Regional Transportation Authority
812 Alameda
Corpus Christi, Texas 78404-2933
Principal Investigator: Carol Hailey **Phone:** 512/883-2287 **Fax:** 512/883-9938
FTA Project Monitor: Charlene Wilder, TRI-11 **Phone:** 202/366-1077 **Fax:** 202/366-3765

Description: This project enables Corpus Christi Regional Transportation Authority (RTA) to develop an autonomous dial-a-ride (ADART) planning tool that will assist in planning for ADART-like service in Corpus Christi, Texas and elsewhere. The project includes development of a peer review group consisting of transit operators and transportation experts to review the implementation of ADART in Corpus Christi. A controlled service experiment will be conducted in Corpus Christi involving three vehicles operating in a low density area without regular transit service. Key project components include software development and deployment, as well as evaluation of the experiment. ADART holds the promise of providing better service than conventional dial-a-ride and at lower operating costs, increasing driver productivity, redeploying vehicles from one service area to another almost without cost, and reducing total manpower needs. A summary report of key findings and discussion points will be produced at the conclusion of the peer review project.

Fleet Operations - ITS/Advanced Public Transportation Systems

Project Title: CALSTART - ITS at Los Angeles World Airports
Project Number: CA-26-0021-08 **Funding:** \$300,000
Start Date: July 1997 **Estimated Completion:** January 1999
Grantee/Contractor: CALSTART, Inc.
3601 Empire Avenue
Burbank, California 91505
Principal Investigator: Michael Gage **Phone:** 818/565-5600 **Fax:** 818/565-5610
FTA Project Monitor: Ronald E. Boenau, TRI-11 **Phone:** 202/366-0195 **Fax:** 202/366-3765

Description: This project enables CALSTART to implement, operationally test, and evaluate an innovative intelligent transportation systems (ITS) fleet management system for an intermodal traffic management system at the Los Angeles World Airports. The ITS fleet management system will provide real-time information on transportation links to travelers, transit operators, and traffic managers. It will facilitate the identification and selection of transportation alternatives for travelers, reduce traffic congestion, and improve transportation efficiency and reliability through the use of an automated vehicle identification system. This project builds upon previous efforts moving on to becoming a model for other cities implementing and integrating ITS technologies. Los Angeles is the largest origination/destination airport in the country and provides an excellent opportunity for this type of operational test.

Project Title: Montgomery County Parking/Rideshare Information System
Project Number: MD-26-7021 **Funding:** \$333,000
Start Date: March 1997 **Estimated Completion:** May 1999
Grantee/Contractor: Montgomery County of Public Works and Transportation
Division of Traffic & Parking Services
161 Monroe Street
Rockville, Maryland 20850-2589
Principal Investigator: Emil Wolanin **Phone:** 301/217-2190 **Fax:** 301/217-2637
FTA Project Monitor: W. Raymond Keng, TRI-11 **Phone:** 202/366-6667 **Fax:** 202/366-3765

Description: Montgomery County is currently integrating its traffic and transit management systems. Once completed, the County's system will be one of the most Advanced Transportation Management Systems (ATMS) in the country. To encourage transit and high-occupancy-vehicle (HOV) usage, the County will four-phase an operational test to determine whether an advanced parking/rideshare information system will persuade customers to change modes. Phase 1 will evaluate the effectiveness of providing real-time parking information to travelers and to ATMS operators with the intent of promoting a modal shift to transit. Traveler parking information will be disseminated through variable message and electronic signs. The Phase 2 effort will evaluate the effectiveness of providing real-time information dissemination to increase rideshare and HOV usage. The Phase 3 objective is to evaluate automated scheduling technologies in providing flexible route and demand scheduled paratransit to increase transit use. Paratransit vehicles will orbit in selected neighborhoods and respond to traveler requests. Phase 4 aims to enhance the ATMS with additional features. This project advances a multimodal approach to transportation.

Fleet Operations - ITS/Advanced Public Transportation Systems

Project Title: National Transit Geographic Information System
Project Number: MA-26-7020-02 **Funding:** \$200,000
Start Date: April 1997 **Estimated Completion:** April 1998
Grantee/Contractor: Bridgewater State College
Bridgewater, Massachusetts 02325
Principal Investigator: Bonnie Troupe **Phone:** 508/697-1242 **Fax:** 508/279-6121
FTA Project Monitor: William E. Wiggins, TRI-11 **Phone:** 202/366-0255 **Fax:** 202/366-3765

Description: An electronic-based Transit Geographic Information System (GIS) is needed to analyze and depict transit system inventories, fixed-guideway networks, public transit systems and FTA program information, according to geographic location, in a quick and easy manner. This project provides continuing support for the development and use of the National Transit GIS as an analytical and decision support tool for management. It will provide technical expertise to complement the database development work completed in previous phases of the National Transit GIS. Information on transit agency level of service and performance will be collected and reviewed and incorporated into a database. Databases such as GIS county and state boundaries, metropolitan statistical areas, railroads, and highways will be installed into the systems. Development of a national database on transit agency level of service will provide information regarding the impact of FTA funding and support the Department's goal of developing a National Transportation Atlas.

Project Title: National Transit Geographic Information System - Performance Measures Project
Project Number: MA-26-7020-03 **Funding:** \$50,000
Start Date: July 1997 **Estimated Completion:** August 1998
Grantee/Contractor: Bridgewater State College
Moakley Center
Bridgewater, Massachusetts 02325
Principal Investigator: Bonnie Troupe **Phone:** 508/697-1242 **Fax:** 508/279-6121
FTA Project Monitor: William E. Wiggins, TRI-11 **Phone:** 202/366-0255 **Fax:** 202/366-3765

Description: This project supports the continuing efforts of the Moakley Center at Bridgewater State College to develop and maintain the FTA National Transit GIS Database. The objective of this project is to compile data and link FTA's budget with performance measures in the transit industry. Three performance measures will be developed and tested: (1) access to transit service - number of people living within one-half mile of transit routes; (2) amount of high quality transit service - revenue vehicle hours providing service with frequency of 15 minutes or less; and (3) access to quality transit service - number of people living within a quarter mile of transit routes having service frequency of 15 minutes or less. Moakley Center will continue development and maintenance of the Transit GIS website which contains databases for over 550 bus systems with fixed-route service. The Transit GIS website can be accessed at URL: www.geolab.moakley.bridgew.edu. This electronic-based transit spatial data system is a tool for measuring and understanding the extent, use, performance, and consequence of the nation's transit inventory.

Fleet Operations - ITS/Advanced Public Transportation Systems

Project Title: Regional Application of Rural ITS in Florida's Coordinated Transportation System

Project Number: FL-26-7006 **Funding:** \$200,000

Start Date: September 1997 **Estimated Completion:** March 1999

Grantee/Contractor: Florida Commission for the Transportation Disadvantaged
605 Suwannee Street, MS-49
Tallahassee, Florida 32399-0450

Principal Investigator: Jennifer Bowers **Phone:** 904/488-6036 **Fax:** 904/922-7278

FTA Project Monitor: Ronald E. Boenau, TRI-11 **Phone:** 202/366-0195 **Fax:** 202/366-3765

Description: This project supports the efforts of the Florida Commission for the Transportation Disadvantaged to provide regional, multiagency application of ITS technologies to selected rural areas of Florida's coordinated transportation system. This coordination provides transit service for the public needing transportation for job training, employment, medical service, nutrition purposes, rehabilitation, and other life-sustaining functions. The project will be a model for initiating a regional, electronically coordinated transit service in rural areas involving several transit organizations. Looking ahead, coordination of regionalized service is expected to cover a much larger geographic area and eventually include multiple states. Although ITS technologies are effective in improving the management and reliability of transit services and increasing customer satisfaction, these technologies still require a fully-coordinated institutional arrangement to be in place. Since 1989, the institutional infrastructure has been in place for coordinated transportation service in all of Florida's 67 counties.

Project Title: Rural Advanced Intermodal Transportation System for Cape Cod

Project Number: MA-26-7031 **Funding:** \$200,000

Start Date: September 1997 **Estimated Completion:** December 1998

Grantee/Contractor: Cape Cod Regional Transit Authority
585 Main Street, Old Dennis Court
PO Box 2006
Dennis, Massachusetts 02638

Principal Investigator: Lawrence Harman **Phone:** 508/279-1244 **Fax:** 518/279-6121

FTA Project Monitor: William E. Wiggins, TRI-11 **Phone:** 202/366-0255 **Fax:** 202/366-3765

Description: The Cape Cod region has been an innovator in providing passenger transportation services in a tourist economy. This project offers an opportunity to the Cape Cod Regional Transit Authority (RTA) to develop an intermodal transportation network that incorporates intelligent transportation systems (ITS) technologies to address the rural transportation needs of the Cape Cod region, including year-round residents and summer visitors. Automatic vehicle location (AVL) equipment will be installed on the fixed-route, shuttles, paratransit fleet and vehicles serving elderly persons. A customer information system will be developed with multimodal fixed-route service information and tested for real-time dissemination mechanisms. Existing computer-aided dispatching will be upgraded. The Cape Cod RTA project will apply the advantages that advanced public transportation systems offer to the transportation needs of the area. Project outcome will enhance personal and regional mobility and demonstrate how to effectively incorporate ITS technologies into a rural, intermodal and tourism environment.

Equipment & Infrastructure - Bus Technology & Infrastructure

Project Title: Advanced Technology Transit Bus
Project Number: CA-26-7002-04 **Funding:** \$9,673,000
Start Date: October 1996 **Estimated Completion:** September 1999
Grantee/Contractor: Los Angeles County Metropolitan Transportation Authority (LACMTA)
PO Box 194
Los Angeles, California 90053
Principal Investigator: Arthur Crabtree **Phone:** 213/922-5856 **Fax:** 213/922-5724
FTA Project Monitor: Ronald Kangas, TRI-20 **Phone:** 202/366-0212 **Fax:** 202/366-3765

Description: FTA's Advanced Technology Transit Bus (ATTB) program was initiated in 1992 with the objective of developing a lightweight, low-floor, low-emissions, user-friendly transit bus using proven and advanced technologies developed in the aerospace industries. The ATTB is being designed to meet federal, state and local axle weight and clean air requirements. This 40-foot transit bus will meet or exceed Americans With Disabilities Act (ADA) requirements through the use of a low, flat floor and a simple ramp system that is more reliable than current wheelchair lift technology. In addition, the ATTB will have a longer life-span and lower life-cycle costs than existing buses as well as improved performance, fuel-efficiency gains, and less brake and tire wear. This project enables LACMTA to continue Phase 3, Prototype Design and Fabrication, which consists of finalizing the design and construction of six prototype vehicles. All six prototypes are scheduled for field testing through 1998. The Advanced Technology Transit Bus is the nation's newest advancement in heavy-duty public transportation. For additional information, visit the FTA Website at <http://www.fta.dot.gov/office/research/>.

Project Title: Advanced Technology Transit Bus Program Management Oversight
Project Number: CA-90-7003 **Funding:** \$300,000
Start Date: March 1997 **Estimated Completion:** September 1999
Grantee/Contractor: Aegir Systems Incorporated
800 Wilshire Boulevard, Suite 350
Los Angeles, California 90017
Principal Investigator: Thomas Tanke **Phone:** 213/362-6930 **Fax:** 213/892-0361
FTA Project Monitor: Ronald Kangas, TRI-20 **Phone:** 202/366-0212 **Fax:** 202/366-3765

Description: The Advanced Technology Transit Bus (ATTB) is the nation's newest advancement in heavy-duty public transportation. This project provides program management oversight and technical support for the ATTB Program, a large, complex development effort. It provides FTA with the needed management oversight and technical support to monitor and review ATTB deliverables, perform site visits and analyses in support of federal program objectives and requirements, and other support activities. The ATTB Program was initiated in September 1992 with two simultaneous and separate projects: one with the Los Angeles County Metropolitan Transportation Authority (LACMTA), and the other with the Metropolitan Transit Authority of Harris County, Texas. In December 1994, LACMTA and Metro formed a partnership, integrating their projects into a single cohesive effort to develop and demonstrate six ATTB prototype vehicles. The ATTB will demonstrate the following features in a single integrated transit vehicle: lightweight, low-floor, ultra-low/zero emissions, and user-friendly.

Equipment & Infrastructure - Bus Technology & Infrastructure

Project Title: Altoona Bus Testing Management Oversight
Project Number: MA-90-7018 **Funding:** \$200,000
Start Date: March 1997 **Estimated Completion:** March 1998
Grantee/Contractor: Volpe National Transportation Systems Center
Kendall Square
Cambridge, Massachusetts 02142
Principal Investigator: David Spiewak **Phone:** 617/494-2771 **Fax:** 617/494-2961
FTA Project Monitor: Dwayne Gardner, TRI-20 **Phone:** 202/366-0194 **Fax:** 202/366-3765

Description: This project provides management oversight to the FTA Office of Technology in all areas of the bus testing program. Management oversight will be performed in two phases. Phase 1 includes, but is not limited to, a review of bus acquisition procedures to ensure that the FTA recipients received either a final test report, or a manufacturer's certification that the vehicle was not subject to testing. If a test report was received, the audit will examine the recipient's new model bus against the test report. If a test report was not received, the audit will inspect and verify the manufacturer's certification and the reasons for not testing the vehicle. Phase 2 of this audit will review a recipient's response to deficiencies in design or construction identified in the test report. Phase 2 will note whether the recommendations noted in the test report were addressed by the recipient prior to final acceptance of the first vehicle, and whether any corrective actions were implemented by the manufacturer prior to delivery of the vehicle to the recipient. The Bus Testing Program is intended to ensure that FTA grantees purchase safe vehicles able to withstand the rigors of transit service.

Project Title: New Bus Model Testing: Fee Supplement
Project Number: PA-03-0238-06 **Funding:** \$2,997,000
Start Date: September 1996
Grantee/Contractor: Pennsylvania Transportation Institute
248 Calder Way, Suite 300
University Park, Pennsylvania 16801
Principal Investigator: Bohdan T. Kulakowski **Phone:** 814/863-1893 **Fax:** 814/865-3039
FTA Project Monitor: Dwayne Gardner, TRI-20 **Phone:** 202/366-0194 **Fax:** 202/366-3765

Description: The Bus Testing Program is designed to promote the production of better transit vehicles and components and to ensure that FTA customers purchase safe vehicles able to withstand the rigors of transit service. Testing is required on all new model buses before they can be purchased with federal funds. This project enables FTA to pay 80 percent of the fee for bus testing directly to the Pennsylvania Transportation Institute, the operator of the Bus Research and Testing Center in Altoona, Pennsylvania, on a reimbursable basis for tests performed. The remaining 20 percent is paid by the bus manufacturer or entity having the vehicle tested. Payment is made to the Center at the time of vehicle delivery. The 80 percent subsidy applies only to standard fee schedule which includes the normal costs for testing, inspecting, vehicle servicing, routine maintenance, and fuel. The Federal share payment of the bus testing fee was authorized under ISTEA. This project lessens the financial burden on those transit systems required to have their vehicles tested at the Center. It also provides the Center's users with information on vehicle durability, performance, handling, fuel economy, noise and other elements. By identifying serious design problems before buses are placed in revenue service, many costly fleet failures have been averted.

Equipment & Infrastructure - Advanced Bus Propulsion Systems

Project Title: Advanced Lead Acid Battery Consortium Program
Project Number: NC-26-0003-03 **Funding:** \$750,000
Start Date: December 1996 **Estimated Completion:** December 1998
Grantee/Contractor: International Lead Zinc Research Organization
(Advanced Lead Acid Battery Consortium)
PO Box 12036
Research Triangle Park, North Carolina 27709
Principal Investigator: Dr. Patrick T. Moseley **Phone:** 919/361-4647 **Fax:** 919/361-19577
FTA Project Monitor: Shang Q. Hsiung, TRI-20 **Phone:** 202/366-0241 **Fax:** 202/366-3765

Description: This project enables the Advanced Lead Acid Battery Consortium to continue to develop and demonstrate supporting technology and hardware in the areas of rapid recharging and battery management as they apply to lead-acid battery systems. The project has successfully developed the technology and hardware required for the safe, rapid recharging of batteries along with the battery monitoring and control equipment to enhance performance and to extend the useful life of batteries. This project will demonstrate the application of the developed rapid recharge technology to enhance the range of electric transit vehicles. The Consortium will install the developed battery monitoring and control system on an electric transit vehicle, and will install a system of rapid recharging for demonstration. An evaluation of the demonstration will be conducted on the performance of the bus battery and the range extension. Information from the evaluation will be used to develop improved bus batteries for demonstration and deployment.

Project Title: Alternative Fuels Safety
Project Number: MA-90-7015 **Funding:** \$250,000
Start Date: May 1997 **Estimated Completion:** September 1998
Grantee/Contractor: Volpe National Transportation Systems Center
Kendall Square
Cambridge, Massachusetts 02142
Principal Investigator: William T. Hathaway **Phone:** 617/494-2081 **Fax:** 617/494-2684
FTA Project Monitor: Jeffrey G. Mora TRI-20 **Phone:** 202/366-0215 **Fax:** 202/366-3765

Description: Alternative fuel buses are widely used in transit today. Although cities are buying alternative fuel buses to improve air quality, some cities are still holding back purchases until safety and cost issues are successfully resolved. This project addresses issues designed to improve the safety of alternative fuel buses. It provides safety and management oversight of the special problems of alternative fuel equipment and facilities. Project activities include site assessments of selected alternative fuel bus operators regarding the fueling, tank handling, facility design, and of various alternative fuels (CNG, LNG, and fuel cell/hydrogen) in relation to industry standards and FTA Facilities Guidelines; participation in industry standards development and revision; and analyses and support related to federal requirements such as NHTSA's Federal Motor Vehicle Safety Standard 304 which apply to alternative fuel buses. Project results will be useful to manufacturers and buyers of alternative fuel buses, as well as transit system employees, and the riding public.

Equipment & Infrastructure - Advanced Bus Propulsion Systems

Project Title: CALSTART Consortium Electric Vehicle Program
Project Number: CA-26-0021-07 **Funding:** \$1,467,000
Start Date: April 1997 **Estimated Completion:** January 2001
Grantee/Contractor: CALSTART, Inc.
3601 Empire Avenue
Burbank, California
Principal Investigator: Paul Helliker **Phone:** 818/565-5600 **Fax:** 818/565-5610
FTA Project Monitor: Shang Q. Hsiung, TRI-20 **Phone:** 202/366-0241 **Fax:** 202/366-3765

Description: This project provides continued support for CALSTART to develop and demonstrate electric vehicle technologies that improve transportation services and operations. CALSTART will continue its role as a catalyst for the development of a globally competitive United States-based advanced transportation technology industry. It will provide clean vehicle information, conduct outreach efforts, and assist fleet operators and airports with programs to incorporate clean fuel vehicles into their fleets. CALSTART will continue development efforts on three promising zinc-air battery technologies, initiate the development of ultracapacitor technology for hybrid electric vehicle applications, coordinate a demonstration and deployment program of advanced technology clean fuel transit buses in the San Francisco Bay Area, and demonstrate and deploy hybrid-electric shuttle buses. In addition, technical assistance will be provided to Yosemite National Park to develop transportation plans. Information on alternative fuel vehicle technologies, case studies and other information will be developed and disseminated by CALSTART through their website (<http://www.CALSTART.org>), industry conferences and publications. Ultimately, this project aims to research and develop prototypes that will lead to production models.

Project Title: Domestic Fuel Cell Transit Bus Development Program
Project Number: DC-26-7002-06 **Funding:** \$7,336,000
Start Date: January 1997 **Estimated Completion:** December 1998
Grantee/Contractor: Georgetown University
3700 "O" Street, NW
Washington, DC 20057
Principal Investigator: James Larkins **Phone:** 202/687-7361 **Fax:** 202/687-4507
FTA Project Monitor: Shang Q. Hsiung, TRI-20 **Phone:** 202/366-0241 **Fax:** 202/366-3765

Description: This project supports the efforts of Georgetown University to continue to conduct a program for the development of a United States produced fuel cell propulsion system for transit buses. The program will provide the preliminary engineering and development activities necessary for the domestic and commercial production of fuel-cell powered, full-sized transit buses. The program supports development of a domestic industry for the production of these fuel efficient and environmentally acceptable vehicles. Both the phosphoric acid fuel cell and proton exchange membrane fuel cell (PEMFC) technologies will be developed for bus propulsion systems operating on liquid fuels. This amendment supports the evaluation of alternative fuel processors capable of generating acceptable quantities of hydrogen rich gas from either diesel, JP-8, or light petroleum distillate fuels to meet PEMFC purity requirements. This effort will also design, develop, and test laboratory scale hardware of promising fuel processor technology to be used with a membrane hydrogen clean-up technology.

Equipment & Infrastructure - Advanced Bus Propulsion Systems

The project is a multi-year fuel cell program and includes support from the Defense Advanced Research Projects Agency (DARPA).

Project Title: Joint Partnership Program for Deployment of Innovation
Project Number: MA-26-7034 **Funding:** \$25,000
Start Date: May 1997 **Estimated Completion:** May 1998
Grantee/Contractor: Volpe National Transportation Systems Center
Kendall Square
Cambridge, Massachusetts 02142
Principal Investigator: Philip vander Wilden **Phone:** 617/494-3420 **Fax:** 617/494-3260
FTA Project Monitor: Tony Yen, TRI-2 **Phone:** 202/366-4047 **Fax:** 202/366-3765

Description: This project supports FTA effort to develop the *Joint Partnership Program for Deployment of Innovation (JPP)*. It is intended to serve as an implementation mechanism for the activities of the FTA National Research and Technology Program. JPP seeks to deploy innovations in partnership with transit agencies, system suppliers, and other federal agencies. Such a partnership will enable FTA to conduct innovative research in partnership with others on much needed research initiatives that are too risky and costly for one organization to undertake. It will enable the industry to respond to changes in transportation technologies and needs by making cost beneficial investments in innovative research and development. This is the first step in establishing the program.

Project Title: Santa Barbara Electric Transportation Institute
Project Number: CA-26-7018 **Funding:** \$500,000
Start Date: March 1997 **Estimated Completion:** January 1999
Grantee/Contractor: Santa Barbara Electric Transportation Institute
P.O. Box 957
Santa Barbara, California 93192
Principal Investigator: Paul Griffith **Phone:** 805/568-0985 **Fax:** 805/962-4794
FTA Project Monitor: Shang Q. Hsiung, TRI-20 **Phone:** 202/366-0241 **Fax:** 202/366-3765
Internet URL: <http://www.sbmtd.santa-barbara.ca.us>

Description: The emphasis of this project is toward further development, enhancement, and documentation of ongoing efforts at the Santa Barbara Electric Transportation (ET) Institute for the successful applications of electric transit vehicles to other transit agencies. This project enables the Santa Barbara ET Institute to develop and disseminate technical and "real world" information on their experiences with electric bus operation and maintenance. It includes conducting training courses for electric bus operators and mechanics, developing strategies to maximize operational capability of electric buses in transit applications, developing instrumentation for in-service monitoring of electric buses, documenting performance of existing electric buses in operation nationwide, evaluating refinements to current electric bus design and fabrication, as well as developing electric bus instrumentation for enhanced driver performance and ease of maintenance. The 1995 report, *Four-Year Report on Battery-Electric Transit Vehicle Operation at the Santa Barbara Metropolitan Transit District (MTD)*, will also be updated.

Equipment & Infrastructure - Rail Systems & Infrastructure

Project Title: Event Recorders for Rail Rapid Transit
Project Number: VA-26-7004 **Funding:** \$100,000
Start Date: October 1997 **Estimated Completion:** May 1998
Grantee/Contractor: Applied Techno-Management Systems
7700 Leesburg Pike, Suite 405
Falls Church, Virginia 22043
Principal Investigator: Dev R. Chaudhari **Phone:** 703/448-0500 **Fax:** 703/442-9882
FTA Project Monitor: Jeffrey G. Mora, TRI-20 **Phone:** 202/366-0215 **Fax:** 202/366-3765

Description: The purpose of this study is to gather information on event recorders used in various transportation industries; to determine the feasibility of the universal use of event recorders on rail rapid transit cars; to identify passenger safety enhancements resulting from the correct identification of contributing causes of accidents; and to identify technical requirements for these devices which could be adopted as part of an ongoing Institute of Electrical and Electronics Engineers (IEEE) standards development effort. In addition, the study will provide a cost-benefit analysis of event recorders, including ancillary advantages, such as combining the event recorder with an equipment condition monitoring system.

Project Title: Hudson-Bergen Light Rail Turnkey Project Demonstration
Project Number: MA-90-7017 **Funding:** \$450,000
Start Date: May 1997 **Estimated Completion:** May 1998
Grantee/Contractor: Volpe National Transportation Systems Center
Kendall Square
Cambridge, Massachusetts 02142
Principal Investigator: Terry Sheehan **Phone:** 617/494-3047 **Fax:** 617/494-2684
FTA Project Monitor: Mary L. Anderson, TRI **Phone:** 202/366-0222 **Fax:** 202/366-3765

Description: This project provides project management oversight for the Hudson-Bergen Light Rail Turnkey project. Management oversight activities include project development and management control of each phase of the project. Major turnkey (phase) special spot reports will be produced along with spot reports on technology sharing activities and assistance in the preparation of various turnkey documents and publications. In addition, the project team will also monitor work being performed by the contractors for the San Juan Tren Urbano and Baltimore Light Rail Extension projects. Final and spot reports will also be produced and made available to the transit industry. The FTA Turnkey Demonstration Program is authorized by ISTEA and will determine if the turnkey procurement method can advance new technologies and produce cost savings on new transit projects through enhanced project management and control.

Equipment & Infrastructure - Rail Systems & Infrastructure

Project Title: Turnkey Demonstration Program Evaluation Report
Project Number: MA-26-7032 **Funding:** \$50,000
Start Date: May 1997 **Estimated Completion:** May 1998
Grantee/Contractor: Volpe National Transportation Systems Center
Kendall Square
Cambridge, Massachusetts 02142
Principal Investigator: Terry Sheehan **Phone:** 617/494-3047 **Fax:** 617/494-2684
FTA Project Monitor: Mary L. Anderson, TRI **Phone:** 202/366-0222 **Fax:** 202/366-3765

Description: The Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA) provided the impetus for the FTA Turnkey Demonstration Program. Emphasis is on the Design-Build aspects of turnkey. The program is intended to advance new technologies and to explore how to lower the cost of constructing new fixed-guideway transit systems. This project enables the Volpe Center to assist FTA in the preparation of an interim turnkey evaluation report that will be submitted to the U.S. Congress. Data will be collected, analyzed, and assembled into a usable format for the final report. Emphasis is on providing information on the lessons-learned from the five turnkey demonstration projects currently in-progress, namely: Baltimore Light Rail Extension, San Juan Tren Urbano Rail Transit, El Segundo del Norte (Green Line) Station in Los Angeles, New Jersey Hudson-Bergen Line, and the San Francisco BART Airport Extension.

Project Title: Turnkey Demonstration Program Oversight
Project Number: MA-90-7017 **Funding:** \$ 500,000
Start Date: May 1997 **Estimated Completion:** September 1999
Grantee/Contractor: Volpe National Transportation Systems Center
Kendall Square
Cambridge, Massachusetts 02142
Principal Investigator: Terry Sheehan **Phone:** 617/494-3047 **Fax:** 617/494-2684
FTA Project Monitor: Mary L. Anderson, TRI **Phone:** 202/366-0222 **Fax:** 202/366-3765

Description: This project provides continuing support for the implementation and management of the FTA Turnkey Demonstration Program. It is an effort to assist the FTA in evaluating the efficiencies of the turnkey procurement method compared to traditional methods. The project will help determine if the turnkey method can advance new technologies and produce cost savings in development of new transit projects through improved project management and control. This project enables the Volpe Center team to undertake project management and procurement oversight for three of the five turnkey demonstration projects currently underway: San Juan Tren Urbano Demonstration Project, New Jersey Hudson-Bergen LRT Demonstration Project Oversight, and Baltimore Light Rail Extension Projects. Oversight activities include identification of problem areas, monitoring and reporting on project management practices and procedures, engineering, construction financing, scheduling, cost controls, and other elements. Any reduction in cost or schedule duration attributable to using the turnkey procurement method will be documented. Project reports will be made available to the transit community as part of the program effort to advance new technologies and to lower the cost of constructing new fixed guideway transit systems.

Equipment & Infrastructure - Rail Systems & Infrastructure

Project Title: Turnkey Demonstration Program Oversight
Project Number: CA-90-8004/MA-90-8009 **Funding:** \$600,000
Start Date: August 1996 **Estimated Completion:** September 1998
Grantee/Contractor: Gardner Consulting Planners, Inc.
22010 S. Wilmington Avenue, Suite 300
Carson, California 90745,
and
Planners Collaborative, Inc.
273 Summer Street
Boston, Massachusetts 02210
Principal Investigator: Joseph Brevard **Phone:** 617/338-0018 **Fax:** 617/338-4228
FTA Project Monitor: Mary L. Anderson, TRI **Phone:** 202/366-0222 **Fax:** 202/366-3765

Description: The objective of the FTA Turnkey Demonstration Program is to comply with the requirements of ISTEA for monitoring and reporting on the comparative costs and schedule differences of turnkey and conventional projects. This project provides contractor oversight services for the implementation and management of two turnkey demonstration projects -- the Los Angeles Union Station Gateway Project, and the Bay Area Rapid Transit Airport Extension Turnkey Project. Oversight support services will focus on developing the cost and schedule characteristics of the two turnkey projects through monitoring project activities and reporting on significant situations and issues. Services also include identification of problem areas and measures to maintain project time and cost schedules. This project will assist FTA in monitoring and reporting on turnkey projects/issues and evaluating the efficiencies of the turnkey procurement method to promote advanced technologies and decrease the delivery cost of new fixed-guideway transit systems through improved project management and control.

Project Title: Turnkey Demonstration Program Support
Project Number: MA-26-8002 **Funding:** \$50,000
Start Date: October 1997 **Estimated Completion:** October 1998
Grantee/Contractor: Planners Collaborative, Inc.
273 Summer Street
Boston, Massachusetts 02210
Principal Investigator: Joseph Brevard **Phone:** 617/338-0018 **Fax:** 617/338-4228
FTA Project Monitor: Mary L. Anderson, TRI **Phone:** 202/366-0222 **Fax:** 202/366-3765

Description: This project provides continuing support for the implementation and management of the FTA Turnkey Demonstration Program. The project will assist FTA in managing and evaluating the turnkey procurement method and comparing it with traditional procurement methods in terms of cost effectiveness, risk and project management, and other factors. Project outreach tasks include conducting conferences and seminars/workshops with the transit industry, providing evaluation support and expert technical assistance to demonstration sites. This national demonstration program also requires presentations for or documentation of various events, research efforts, and project oversight activities. Typical examples include developing workshop papers, conference presentations, project fact sheets, technical briefs and other aids. The project will also assist with the arrangements of the International Turnkey Workshop.

Specialized Transit Services - Welfare to Work & Service Coordination

Project Title: Assessment of Workfare Transportation Options in Alaskan Communities
Project Number: AK-80-X006 **Funding:** \$20,000
Start Date: October 1997 **Estimated Completion:** September 1998
Grantee/Contractor: Alaska Department of Transportation and Public Facilities
3132 Channel Drive, Room 200
Juneau, Alaska 99801-7898
Principal Investigator: Bruce Wells **Phone:** 907/465-6991 **Fax:** 907/465-6984
FTA Project Monitor: Therese Morse, Region X **Phone:** 206/220-7964 **Fax:** 206/220-7959

Description: This project enables the Alaska Department of Transportation and Public Affairs (Alaska DOT) to develop an assessment tool that provides favorable transportation options for clients of the Alaska Workfare program. Several agencies such as the United Way, Community Transportation Association of America, Alaska Mental Health Trust, and Alaska Department of Health and Social Services Division of Public Assistance are working together on this project. Three typical Alaskan communities will be studied: Mat-Su Borough outside Anchorage, Kodiak Island Borough, and a yet to be determined village. Research activities include exploring the social, economic and environmental impacts of transportation alternatives on public assistance clients, their community, and service providers. If successful, this assessment tool will be used to assess transportation options in similar communities in Alaska and other states in the nation.

Project Title: DOT/DHHS Joint Coordinating Council - Technical Support
Project Number: DC-26-7063 **Funding:** \$75,000
Start Date: September 1997 **Estimated Completion:** September 1998
Grantee/Contractor: American Public Works Association
1301 Pennsylvania Avenue, NW
Suite 501
Washington, DC 20004
Principal Investigator: Beth Denniston **Phone:** 202/393-2792 **Fax:** 202/737-9153
FTA Project Monitor: Douglas Birnie, TRI-30 **Phone:** 202/366-1666 **Fax:** 202/366-3765

Description: The Department of Transportation (DOT) and Department of Health and Human Services (DHHS) have been working through the Joint Coordinating Council to develop innovative transportation strategies for services provided by their programs, such as promoting coordination of ADA and human service paratransit services and development of coordinated health care transportation services. This project enables the American Public Works Association (APWA) and the DOT/DHHS Joint Coordinating Council on Human Service Transportation to promote coordination of transportation services at state and local levels of government. Coordination issues include welfare to work transportation, Medicaid and health care services, elderly and disabled transportation, rural services and other forms of specialized transportation service. APWA will conduct research and other needed support activities including short term research projects, preparation of background issue papers, outreach materials, and other coordination activities.

Specialized Transit Services - Welfare to Work & Service Coordination

Project Title: Job Access Planning Challenge Grants
Project Numbers: PA-26-0012; GA-80-X007-02; MI-26-8001;
CA-26-0033; AK-80-X006-01
Funding: \$100,000 (\$20,000 Each Recipient)
Start Date: September 1997 **Estimated Completion:** August 1998
Grantees: Pennsylvania Department of Transportation
Georgia Department of Transportation
Flint Mass Transportation Authority
San Luis Obispo Council of Governments
and Alaska Department of Transportation.
FTA Project Monitor: Sean Liberton, TPL-20 **Phone:** 202/366-0055 **Fax:** 202/493-2478

Description: Transportation is critical to the success of welfare reform. FTA is raising national awareness about the importance of transportation to successful welfare reform, in part, by promoting state and local collaborative planning partnerships to develop new services that connect welfare recipients to jobs and support services. This project activates five pilot projects that address welfare reform planning. The grants are intended to support transportation planning efforts in five metropolitan areas to improve access to jobs for current welfare recipients and low income residents. The research effort will address the planning needs and issues associated with job access/welfare to work, such as market identification, service provision, financing, institution arrangements, and other issues. This project will help grant recipients to leverage existing resources and document their job access planning experience in a final report. The planning reports will be disseminated and shared with a broad national audience.

Project Title: Welfare Reform Transportation Issues and Model Legislation
Project Number: CO-26-7001 **Funding:** \$50,000
Start Date: September 1997 **Estimated Completion:** September 1998
Grantee/Contractor: National Conference of State Legislatures
1560 Broadway, Suite 700
Denver, Colorado 80202
Principal Investigator: Jack Tweedie **Phone:** 303/830-2200 **Fax:** 303/863-0242
FTA Project Monitor: Elizabeth Solomon, TRI-30 **Phone:** 202/366-0242 **Fax:** 202/366-3765

Description: This project enables the National Conference of State Legislatures (NCSL) to develop information about welfare reform transportation issues and to identify state policies and model legislation useful to state legislatures when addressing the transportation problem of getting people from welfare to work. Policies may include state transportation assistance and human service strategies. This research effort includes not only tracking state legislative efforts to develop transportation policies supporting welfare reform, but also writing a magazine article for *State Legislatures*, preparing a State Legislative Report on transportation issues/actions in welfare reform,

Specialized Transit Services - Welfare to Work & Service Coordination

and maintaining an information clearinghouse on the subject. This project is designed to help state legislatures and other policy officials more fully understand the transportation issues involved with the welfare reform transitioning period. States must begin to grapple with the implementation of their Temporary Assistance For Needy Family (TANF) plans (which rarely mention transportation issues) and the federal time limits imposed by the new welfare reform legislation. Most individuals transitioning from welfare to work depend upon public transportation to get them to jobs and support services like child care facilities.

Project Title: Welfare Reform Transportation Pilot Program
Project Number: DC-26-7057-01 **Funding:** \$105,000
Start Date: July 1997 **Estimated Completion:** July 1998
Grantee/Contractor: National Governors' Association
444 North Capitol Street, NW
Washington, DC 20418
Principal Investigator: Jay Kane **Phone:** 202/624-5320 **Fax:** 202/624-5313
FTA Project Monitor: Douglas Birnie, TRI-30 **Phone:** 202/366-9157 **Fax:** 202/366-3765

Description: To move forward and effectively, welfare reform programs need a transportation component. The objective of this cooperative agreement is to develop with the National Governors' Association welfare reform transportation programs which integrate transportation services into welfare reform planning under the leadership of a Governor's office. This will be accomplished through the coordinated delivery of transportation services providers and financial support. The intent is to continue to support state welfare reform programs by ensuring transportation access and adequate funding through the coordinated delivery of transportation resources. This project provides support for the National Governors' Association to develop a welfare reform transportation component in 24 states and one territory. The project includes state transportation and human services agencies along with local agencies in the development and implementation of the plan.

Specialized Transit Services - Accessibility for Disabled Persons

Project Title: Paratransit Feeder Service for Jefferson and Orleans Parishes
Project Number: LA-26-7000 **Funding:** \$240,000
Start Date: May 1997 **Estimated Completion:** September 2000
Grantee/Contractor: Regional Transit Authority for Jefferson and Orleans Parishes
6700 Plaza Drive
New Orleans, Louisiana 70126
Principal Investigator: LeRoy Bailey **Phone:** 504/248-3830 **Fax:** 504/248-3637
FTA Project Monitor: Pauline A. D'Antignac, TRI-30 **Phone:** 202/366-0234 **Fax:** 202/366-3765

Description: This project enables the Regional Transit Authority for Jefferson and Orleans Parishes (RTA) to explore and test the best combination of policies and operational practices for feeder service from the point of view of the transit operator and rider that would be in compliance with the requirements of the Americans with Disabilities Act (ADA). The service would transport individuals with disabilities on paratransit vehicles to and from a fixed-route bus stop or streetcar line. The RTA will also develop draft guidelines designating which trips are appropriate for feeder service. An evaluation will be conducted to determine the benefits and costs of such service. This project is part of the Transit Cooperative Research Program (TCRP) and a continuation of TCRP Project B-1, *Transit Operations for People With Disabilities*.

Project Title: Project ACTION (Accessible Community Transportation in Our Nation)
Project Number: DC-26-7059 **Funding:** \$2,000,000
Start Date: March 1997 **Estimated Completion:** September 1999
Grantee/Contractor: National Easter Seals Society, Inc.
700 13th Street, NW, Suite 200
Washington, DC 20005
Principal Investigator: Robert Carlson **Phone:** 202/347-3066 **Fax:** 202/347-4157
FTA Project Monitor: Pauline A. D'Antignac, TRI-30 **Phone:** 202/366-0234 **Fax:** 202/366-3765
Email: projaction@aol.com **URL:** www.projaction.org

Description: Project ACTION, Accessible Community Transportation in Our Nation, is now in its seventh year of operation. The program's mission is to provide technical assistance to the transit industry regarding accessibility and to serve as a liaison between the transit industry and the disability community promoting and encouraging cooperation nationwide. This project enables Project ACTION to continue the development of a national research, demonstration, and technical assistance program that increases mobility for individuals with disabilities. Transit accessibility demonstration projects will identify the transport needs of the disability community, train and encourage use of public transit, educate consumers of their rights and responsibilities under the Americans With Disabilities Act (ADA), as well as sensitize transit operators of their needs. National technical assistance conferences will focus on serving the customer and the local transit system, assisting passengers with service animals or cognitive impairments, and transitioning riders from paratransit to fixed-route transit service. Project ACTION will also enhance the National Institute for Accessible Transportation (NIAT) -- a national resource center and publishing clearinghouse.

Specialized Transit Services - Rural & Specialized Services

Project Title: African-American Mobility Issues Symposium
Project Number: FL-26-7007 **Funding:** \$25,000
Start Date: March 1997 **Estimated Completion:** June 1997
Grantee/Contractor: University of South Florida
4202 E. Fowler Avenue
Tampa, Florida 33620-5350
Principal Investigator: Eric Hill **Phone:** 813/974-9845 **Fax:** 813/974-5168
FTA Project Monitor: Pauline A. D'Antignac, TRI-30 **Phone:** 202/366-0234 **Fax:** 202/366-3765

Description: This project enabled the Center for Urban Transportation Research (CUTR) at the University of South Florida to conduct the African-American Mobility Issues Symposium. The purpose of this three-day gathering was to discuss and to disseminate information on the most current issues affecting the mobility of African-Americans and other minority groups. The symposium brought together transportation officials and community leaders from across the country and provided an opportunity for African-Americans to be included in the decisionmaking process by providing a forum for the exchange of ideas and information and the development of transportation planning and program priorities for the African-American population. The symposium was expected to provide a better understanding of the transportation issues that confront the African-American community and other minority groups and to enable policymakers to make more informed decisions.

Project Title: Autonomous Dial-A-Ride Transit (ADART) Planning Model. Phase 3
Project Number: TX-26-7006 **Funding:** \$325,000
Start Date: September 1997 **Estimated Completion:** April 2000
Grantee/Contractor: Corpus Christi Regional Transportation Authority
812 Alameda
Corpus Christi, Texas 78404-2933
Principal Investigator: Carol Hailey **Phone:** 512/883-2287 **Fax:** 512/883-9938
FTA Project Monitor: Charlene Wilder, TRI-11 **Phone:** 202/366-1077 **Fax:** 202/366-3765

Description: This project enables Corpus Christi Regional Transportation Authority (RTA) to develop an autonomous dial-a-ride (ADART) planning tool that will assist in planning for ADART-like service in Corpus Christi, Texas and elsewhere. The project includes development of a peer review group consisting of transit operators and transportation experts that will review the ADART project's application in Corpus Christi and elsewhere. A controlled service experiment will be conducted in Corpus Christi involving three vehicles operating in a low density area without regular transit service. Key project components include software development and deployment, as well as evaluation of the experiment. ADART holds the promise of providing better service than conventional dial-a-ride and at lower operating costs, increasing driver productivity, redeploying vehicles from one service area to another almost without cost, and reducing total manpower needs. A summary report of key findings and discussion points will be produced at the conclusion of the peer review project.

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Project Title: Computer Integrated Transit Maintenance Environment
Project Number: OH-26-7000 **Funding:** \$1,000,000
Start Date: May 1997 **Estimated Completion:** June 1998
Grantee/Contractor: The Greater Cleveland Regional Transit Authority
615 Superior Avenue, W
Cleveland, Ohio 44113-1878
Principal Investigator: James Zingale **Phone:** 216/566-5269 **Fax:** 216/781-4480
FTA Project Monitor: Stewart McKeown, TRI-12 **Phone:** 202/366-0244 **Fax:** 202/366-3765

Description: Transit agencies lack a model, or a roadmap, that can be followed to implement new technologies in a fully integrated manner, lower operating costs and improve customer service. One potential solution is a Computer-Integrated Transit Maintenance Environment (CITME) -- a fully-integrated computer hardware and software system aimed at linking the functional areas of a transit authority, such as operations, finance, accounting, inventory, procurement, and human resources. Such a system provides real-time information for the purpose of initiating actions in one or more of these collateral functions. This project will assist transit agencies in modernizing their maintenance operations. The research will develop, implement, and demonstrate a maintenance system for inventory control, i.e., an integrated computerized system designed to re-engineer the processes of material forecasting, warehousing, and distribution of materials to accommodate the requirements of a multimodal transit agency. The prototype for this system will be developed by a research team led by South Carolina Research Associates (SCRA) and installed at the Greater Cleveland Regional Transit Authority's bus and rail maintenance facilities. CITME is expected to reduce the costs of transit maintenance by 15-25 percent.

Project Title: Community Works Program of Hennepin County, Minnesota
Project Number: MN-26-7002 **Funding:** \$500,000
Start Date: January 1997 **Estimated Completion:** February 1998
Grantee/Contractor: Hennepin County Training and Employment Assistance
300 South Sixth Street
Minneapolis, Minnesota 55487-0012
Principal Investigator: Larry Blackstad **Phone:** 612/348-5859 **Fax:** 612/348-3932
FTA Project Monitor: Stewart McKeown, TRI-12 **Phone:** 202/366-0244 **Fax:** 202/366-3765

Description: The *Hennepin Community Works Program (HCWP)* is an ongoing intergovernmental planning framework. It is managed by the Hennepin Community Planning Committee to coordinate strategic public infrastructure investments being developed by Hennepin County, the City of Minneapolis, the Minneapolis Park and Recreation Board, the Suburban Hennepin Regional Park District, and the Minneapolis School District. The purpose of the program is to pool resources and projects of member agencies to reverse economic deterioration in urban and suburban areas. This cooperative agreement enables Hennepin County and the Humphrey Institute of Public Affairs at the University of Minnesota to evaluate the planning, design, and implementation of specific transit-related infrastructure investments. This information, combined with other research relating to community

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development issues, will be the basis for developing a national model for cities interested in infrastructure-led community revitalization. The multi-jurisdictional Hennepin Community Planning Committee has identified four project sites for coordination of infrastructure planning and investment. These infrastructure investments are the main focus of the study and designed to stimulate development of long-term private sector employment opportunities for the economically disadvantaged, stabilize and enhance the property tax base, and connect neighborhoods and communities to each other. This program is being developed as a solution to the growing problem of economic deterioration in urban neighborhoods and suburban municipalities.

Project Title: Independent Transportation Network Evaluation
Project Number: ME-03-4001-01 **Funding:** \$700,000
Start Date: August 1997 **Estimated Completion:** October 1998
Grantee/Contractor: Southern Maine Area Agency on Aging
309 Cumberland Avenue
Portland, Maine 04101
Principal Investigator: Kathy Freund **Phone:** 207/772-2077 **Fax:** 207/772-2204
FTA Project Monitor: Stewart McKeown, TRI-12 **Phone:** 202/366-0244 **Fax:** 202/366-3765

Description: This project enables the Southern Maine Area Agency on Aging to continue development of the innovative Independent Transportation Network (ITN) project in Portland, Maine, and to determine its effectiveness and transferability to other areas. The ITN is designed to be a financially self-sufficient transportation program that provides transportation services for elderly citizens who can no longer safely drive their own automobiles. The ITN focuses primarily on shared-ride transportation for the elderly who own and operate their own vehicles, but because of diminished capacity, prefer to drive only at specific times or specific locations or can no longer safely drive their own automobiles. Service is provided using demand-responsive, standard sedans to match the convenience of private cars. The project offers a variety of payment options including credits earned from trading-in unused vehicles, payments debited from an individual's ITN account, and gift certificates. Development of the ITN has been funded by FTA and the American Association of Retired Persons. This project helps elderly citizens meet their transportation needs with independence and safety.

Project Title: Oversight of Fare Collection
Project Number: MA-90-7016-01 **Funding:** \$200,000
Start Date: May 1997 **Estimated Completion:** May 1999
Grantee/Contractor: Harvard Design & Mapping Company, Inc.
30 Spinelli Place
Cambridge, Massachusetts 02138
Principal Investigator: Kija Kim **Phone:** 617/354-0100 **Fax:** 617/868-6855
FTA Project Monitor: Joseph Goodman, TRI-12 **Phone:** 202/366-0240 **Fax:** 202/366-3765

Specialized Transit Services - Rural & Specialized Services

Description: The FTA Financial Management Oversight (FMO) initiative provides for conducting studies to review transit agencies' accounting and internal audit systems and procedures and to determine compliance with federal government requirements. This project will identify and undertake an oversight of the fare collection procedures of several transit agencies representative of the industry. The research is designed to investigate practices currently in use in the transit industry and to evaluate the impact of farebox revenue collection and control issues as they relate to the development and implementation of revenue fare structures, fare instruments, and fare media design. Site visits will be made to several selected transit agencies representative of the industry. The focus is on expanding the activities and findings of an earlier task (2) which reviewed various transit organizations' fare/passenger revenue collection process and identified several aspects of the fare collection process that could be improved, such as fare policy development and fare collection design, internal fare collection controls, and control of paper transfers. The study will examine the ways that transit agencies collect, account for, transport, and assure the security of passenger revenues.

Project Title: Rural and Specialized Transit Directory
Project Number: MD-26-9000 **Funding:** \$62,500
Start Date: September 1997 **Estimated Completion:** September 1998
Grantee/Contractor: The Institute for Economic and Social Measurement, Inc.
4715 Cordell Avenue
Bethesda, Maryland 20814
Principal Investigator: Jon E. Burkhardt **Phone:** 301/652-2640 **Fax:** 301/907-8952
FTA Project Monitor: M.M. Churchman, TPM-10 **Phone:** 202/366-2053 **Fax:** 202/366-7951

Description: This project reflects FTA's continuing commitment to the collection and dissemination of research information within the transit community. The project will enable states, transit operators, and others in identifying and locating individual specialized and rural transit providers in a one-stop source directory. It provides a comprehensive listing of agencies providing transportation to elderly persons and persons with disabilities through the FTA Section 5310 capital assistance program, and agencies providing transportation in areas with less than 50,000 population under the FTA Section 5311 rural program. The database underlying the directory is the only source of ridership statistics and operational characteristics of rural and specialized transit systems. Knowledge about these systems is useful to federal, state, and local decisionmakers and planners in helping to ensure mobility for all Americans. The directory has always been important to coordination efforts and assumes even greater value in light of welfare reform. This effort includes updating and improving the rural transit database.

Project Title: Rural Transit Assistance Program
Project Number: MO-26-9001 **Funding:** \$437,500
Start Date: September 1997 **Estimated Completion:** September 1998
Grantee/Contractor: American Public Works Association
1301 Pennsylvania Avenue, NW
Washington, DC 20004
Principal Investigator: Beth Denniston **Phone:** 202/393-0137 **Fax:** 202/737-9153
FTA Project Monitor: M. M. Churchman, TPM-10 **Phone:** 202/366-2053 **Fax:** 202/366-7951

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Description: The American Public Works Association (APWA) will continue to provide technical support to the FTA National Rural Transit Assistance Program (RTAP), the RTAP Review Board, and the State RTAP Program. The RTAP National Program provides a variety of quality technical assistance products and training services. The project supports the FTA goal of promoting the development of intermodal transportation resources at federal, state, and local levels. This project continues to pursue this goal by expanding the training, technical assistance, and research to improve the delivery of transit services in rural areas. APWA, in partnership with the Community Transportation Association of America (CTAA), will continue to administer the program's outreach activities, namely: the RTAP National Resource Center and peer-to-peer technical assistance to state, local, and rural transit operators. Overall, the program supports the state RTAP managers by developing training modules, conducting periodic conference calls, holding regional train-the-trainer sessions, and performing liaison and outreach functions.

Project Title: **Small Business Innovation Research Program**
Project Number: MA-26-7030/7016-02 **Funding:** \$300,000
Start Date: December 1997 **Estimated Completion:** December 1998
Grantee/Contractor: Volpe National Transportation Systems Center
Kendall Square
Cambridge, Massachusetts 02142
Principal Investigator: Joseph Henebury **Phone:** 617/494-2712 **Fax:** 617/494-2370
FTA Project Monitor: Stewart McKeown, TRI-12 **Phone:** 202/366-0244 **Fax:** 202/366-3765

Description: FTA is an active participant in the Small Business Innovations Research (SBIR) Program of the U.S. Department of Transportation (US DOT). The program supports research projects that enhance the innovative capacity of small businesses in the United States, as well as meet FTA research needs. It provides an opportunity for small firms to commercialize innovations developed from federal R&D and provides FTA with an effective resource for transit research. The SBIR program is an annual statutory program, coordinated by the Small Business Administration, that conducts research of interest to the US DOT through small businesses, thereby stimulating technological innovation and commercialization in that sector. Research projects are selected based on a competitive procedure and a determination that funding them will enable the firm to validate the feasibility of the particular concept or technology in question. Additional funds are awarded to help develop the concept or technology to the point where it is commercially viable. Overall, the program promotes the growth and development of small businesses and technology firms. It offers small businesses in the United States an opportunity to participate in FTA research and enhance their innovative capacity.

Specialized Transit Services - Rural & Specialized Services

Project Title: Southeast Iowa Commuter Feasibility Study
Project Number: IA-26-7002 ***Funding:*** \$50,000
Start Date: September 1997 ***Estimated Completion:*** September 1998
Grantee/Contractor: Southeast Iowa Regional Planning Commission
214 North Fourth Street
Peterson Building, Suite 3A
Burlington, Iowa 52601
Principal Investigator: Beth Danowsky ***Phone:*** 319/775-5107 ***Fax:*** 319/754-4763
FTA Project Monitor: Charlene Wilder, TRI-11 ***Phone:*** 202/366-1077 ***Fax:*** 202/366-3765

Description: This project enables the Southeast Iowa Regional Planning Commission to undertake a study to determine the feasibility of establishing a commuter service that would transport employees to and from the Mt. Pleasant employment center. The need for the study was initially identified by the Mt. Pleasant Manufacturers' Association which has experienced long-term problems with attrition and absenteeism due to the lack of reliable and affordable transportation for employees. Meetings will be conducted to identify businesses experiencing employee absenteeism and to encourage their participation in the project. Surveys tools will be developed and administered to obtain information regarding employer participation, employee travel needs, transit operator interests, and basic information regarding the affordability of the service to the Mt. Pleasant employment center. This project may lead to a commuter demonstration project that will improve employee attendance, the productivity of Henry County manufacturers, as well as the ability of welfare recipients to transfer to work.

Professional Capacity Building

Project Title: National Transit Institute
Project Number: NJ-26-2901-06 **Funding:** \$3,000,000
Start Date: July 1997 **Estimated Completion:** July 1998
Grantee/Contractor: Rutgers, The State University of New Jersey
National Transit Institute
120 Albany Street, Suite 705
New Brunswick, New Jersey 08901
Principal Investigator: Alan J. Gibbs **Phone:** 908/932-1700 **Fax:** 908/932-1700
FTA Project Monitor: Charles Morison, TRI-30 **Phone:** 202/366-0245 **Fax:** 202/366-3765

Description: This is the sixth year of federal support for the National Transit Institute (NTI), a project established under the Intermodal Surface Transportation Efficiency Act of 1991 with a mission to promote, develop, and deliver high quality education and training for persons engaged in federal-aid transit work in order to improve public transit in the United States. Rutgers University established the NTI to serve the training and development needs of the transit industry. NTI, in cooperation with the FTA, develops and conducts training for state and local transit employees on a variety of topics relevant to the industry.

The sixth year effort continues activities in a number of areas of service including federal program training, advanced technologies, multimodal planning, and industry defined training. NTI will hold its third annual Transit Trainers Workshop bringing together trainers and human resources specialists from the industry to learn the latest techniques in training and share training experiences on the job. This effort also supports the Transit Fellows Program which began in 1996. It is a competitive program that identifies technical experts in the industry and supports presentation of their expertise at industry meetings and conferences. The Transit Academy, started in 1995, will be conducted annually in cooperation with the New Jersey Transit Corporation. The academy is designed to give new transit professionals a first hand look at all elements of transit service from the perspective of the provider. This is a residential program and is presented in a lecture/study/tour format.

In addition, NTI and FTA are working together to develop and present a variety of workshops and seminars designed to assist the transit industry in understanding and implementing advanced public transportation systems (APTS). Programs on geographic information systems, automatic vehicle locator, smartcard and innovative technologies are just a few of the topics under development for future presentation.

Visit NTI website at URL: <http://policy.rutgers.edu/nti>;
Email: stparker@rci.rutgers.edu.

Professional Capacity Building

Project Title: Transit Cooperative Research Program
Project Number: DC-26-7058 **Funding:** \$8,250,000
Start Date: March 1997 **Estimated Completion:** March 1998
Grantee/Contractor: National Academy of Sciences
Transportation Research Board
2101 Constitution Avenue, NW
Washington, DC 20418
Principal Investigator: Robert J. Reilly **Phone:** 202/334-3225 **Fax:** 202/334-2006
FTA Project Monitor: Gwendolyn Cooper, TRI-30 **Phone:** 202/366-0198 **Fax:** 202/366-3765

Description: This project provides for the selection and management of projects under the sixth annual agenda of the Transit Cooperative Research Program (TCRP). The TCRP focuses on issues significant to the transit industry with emphasis on local problem solving research. The scope of TCRP includes a variety of transit research fields including: planning, service concepts, equipment, facilities, operations, human resources, maintenance, policy, and administrative practices. TCRP reports have made significant contributions to understanding what the transit industry needs to do to keep up with constantly evolving challenges. Sharing among transit operators of information that addresses common problems builds up professional capacity, reduces costs and avoids wasting time re-analyzing problems as they occur throughout the industry. TCRP synthesis reports summarize best transit industry practices and have been useful to transit operators.

TCRP was established under FTA sponsorship in July 1992. It was proposed by the U.S. Department of Transportation and authorized as part of the Intermodal Surface Transportation Efficiency Act (ISTEA). On May 13, 1992, a memorandum agreement outlining TCRP operating procedures was executed by three organizations: FTA; the National Academy of Sciences, acting through the Transportation Research Board (TRB); and the Transit Development Corporation, a nonprofit educational and research organization of the American Public Transit Association (APTA).

Research problem statements are solicited annually but may be submitted to TRB by anyone at anytime. The **deadline** for submission of research problem statements is April 30 each year.

Contact - To submit a research problem statement or to request further information on TCRP, write or call:

Stephen J. Andrie, Manager
Transit Cooperative Research Program
Transportation Research Board
2101 Constitution Avenue, NW
Washington, DC 20418

Phone: 202/334-3502

Program information, project status and requests for proposals are available on TRB's World Wide Website at <http://www2.nas.edu/trbcrp>. APTA also disseminates TCRP products and information through its Website: <http://www.apta.com/tcrp>. See also FTA Website: <http://www.fta.dot.gov>

Professional Capacity Building

Project Title: University Transportation Centers Program
Project Number: DC-11-1108 **Funding:** \$6,000,000
Start Date: July 1997 **Estimated Completion:** Ongoing
Grantee/Contractor: United States Department of Transportation
Research and Special Programs Administration
Office of University Programs, Room 8417
Washington, DC 20590
Principal Investigator: Elaine E. Joost, DRT-2 **Phone:** 202/366-4993 **Fax:** 202/366-3272
FTA Project Monitor: Charles Morison, TRI-30 **Phone:** 202/366-0245 **Fax:** 202/366-3765

Description: This is an interagency agreement with the Research and Special Programs Administration (RSPA) of the U.S. Department of Transportation to continue administering the University Transportation Center Program (UTCP). UTCP is in its 10th year of operation and has involved 14 Centers and 64 universities in more than 1,300 projects. UTCP research concerns focus on finding ways to make more efficient use of fuel, protecting the environment, enhancing mobility, and ensuring the safety and security of the traveling public, as well as attracting, educating and training the next generation of transportation professionals to design, operate, and maintain the nation's technologically complex transportation system.

Overall, there are 14 Centers in the UTCP, one in each of the ten standard federal regions and four National Centers (Mack-Blackwell National Rural Transportation Study Center at University of Arkansas in Fayetteville; National Center for Management, Research, and Development at Morgan State University in Baltimore; National Center for Transportation and Industrial Productivity at New Jersey Institute of Technology in Newark; and National Center for Advanced Transportation Technology at the University of Idaho in Moscow). These Centers of Excellence provide a link to the academic community and a forum to address transit industry issues at a regional level.

The UTCP is a valuable and ongoing resource that contributes to transportation education, research, and technology transfer. To reach its goal of attracting the best students to the transportation field, the UTCP promotes transportation study among groups underrepresented in the field. UTCP's education component reflects the needs of the transportation industry for more inter- and multi-disciplinary professionals in the field.

For more information, contact:

Office of University Programs
Research and Special Programs Administration
400 7th Street, SW, Room 8417
Washington, DC 20590
Phone: 202/366-5442 **Fax:** 202/366-3671

Professional Capacity Building - Human Resources

Project Title: Cardozo High School TransTech Academy
Project Number: DC-26-2009-03 **Funding:** \$75,000
Start Date: June 1997 **Estimated Completion:** August 1998
Grantee/Contractor: District of Columbia Public Schools
415 12th Street
Washington, DC 20044
Principal Investigator: Shirley McCall **Phone:** 202/673-7753 **Fax:** 202/673-7753
FTA Project Monitor: Linda W. King, TCR **Phone:** 202/366-0816 **Fax:** 202/366-3475

Description: This project introduces innercity students at Cardozo Senior High School to careers in the transit industry. The TransTech Academy for the 1997-98 school term will provide the following activities: after-school work study internships at US DOT and the transportation industry; educational field trips; development and offering of transit course; and, counseling and information to students regarding career and educational opportunities in transit. This project represents FTA support of the November 1993 Declaration of Partnership and Memorandum of Understanding between the U.S. Department of Transportation, the Federal Transit Administration, the Federal Highway Administration, and the Superintendent of the D.C. Public Schools (DCPS). This partnership alliance was formed by DCPS to obtain financial, technical, and staffing resources to aid and support the continued operation of the DCPS system's first TransTech Academy.

Project Title: Pathways to Freedom Project
Project Number: MI-26-8001 **Funding:** \$ 50,000
Start Date: August 1997 **Estimated Completion:** August 1998
Grantee/Contractor: Rosa & Raymond Parks Institute for Self Development
65 Cadillac Square, Suite 3200
Detroit, Michigan 48226
Principal Investigator: Addie Richburg **Phone:** 919/778-4831 **Fax:** 919/778-4854
FTA Project Monitor: Charles T. Morison, TRI-30 **Phone:** 202/366-0245 **Fax:** 202/366-3765

Description: The Rosa and Raymond Parks Institute for Self Development has established a leadership role in the field of civil rights education. This project enables the Rosa and Raymond Parks Institute for Self Development to develop and test an educational public transportation curriculum for students in grades K through 12. The educational material is intended to increase student awareness and learning experience about the importance of transportation in making their community and other communities more livable. It will introduce students to the various job opportunities available in the transportation industry as well as the new public transportation systems and advanced technologies. Programs will be targeted for inner city youth as part of the Department's effort to promote math and science education at all levels.

Professional Capacity Building - Human Resources

Project Title: Performance of Civil Rights Related Compliance Reviews of DOT/FTA Grant Recipients
Project Number: VA-90-8003 **Funding:** \$220,340
Start Date: August 1997 **Estimated Completion:** August 1998
Grantee/Contractor: CompuCon, Inc.
1800 Diagonal Road, Suite 600
Alexandria, Virginia 22314
Principal Investigator: Saundra Davis **Phone:** 703/684-7619 **Fax:** 703/548-9446
FTA Project Monitor: Beverly E. Sligh, TCR **Phone:** 202/366-0816 **Fax:** 202/366-3475

Description: The FTA Office of Civil Rights is responsible for monitoring and enforcing the compliance requirements of the civil rights-related laws and affirmative action initiatives subject to the financial assistance programs of the FTA. Compliance reviews, which focus on civil rights-related activities, are performed to monitor and enforce grantee compliance with the laws and authorities which apply to the financial assistance provided by US DOT/FTA programs. The objective of this project is to acquire assistance and advisory services in the performance of civil rights-related compliance reviews of the US DOT/FTA grant recipients. This project will enable the Office of Civil Rights, the Regional Civil Rights Officers and the FTA Program Oversight staff to improve coordination and management of the oversight reviews identified in the FTA Risk Assessment Program.

Project Title: Performance of Civil Rights Related Compliance Reviews of DOT/FTA Grant Recipients
Project Number: IL-90-8002 **Funding:** \$434,000
Start Date: June 1997 **Estimated Completion:** June 1999
Grantee/Contractor: Ralph G. Moore & Associates, Inc.
211 West Wacker Drive, Suite 900
Chicago, Illinois 60606
Principal Investigator: Lancer Foster **Phone:** 312/419-1911 **Fax:** 312/419-1918
FTA Project Monitor: Beverly E. Sligh, TCR **Phone:** 202/366-0816 **Fax:** 202/366-3475

Description: The FTA Office of Civil Rights is responsible for monitoring and enforcing the compliance requirements of the civil rights-related laws and affirmative action initiatives subject to the financial assistance programs of the FTA. Compliance reviews, which focus on civil rights-related activities, are performed to monitor and enforce grantee compliance with the laws and authorities which apply to the financial assistance provided by US DOT/FTA programs. The objective of this project is to acquire assistance and advisory services in the performance of civil rights-related compliance reviews of the US DOT/FTA grant recipients. This project will enable the Office of Civil Rights, the Regional Civil Rights Officers and the FTA Program Oversight staff to improve coordination and management of the oversight reviews identified in the FTA Risk Assessment Program.

Professional Capacity Building - Human Resources

Project Title: Summer Transportation Internship Program for Diverse Groups
Project Number: DC-26-2013 **Funding:** \$25,000
Start Date: June 1997 **Estimated Completion:** November 1997
Grantee/Contractor: Federal Highway Administration
Personnel Operations Division, HPT-22
Washington, DC 20590
Principal Investigator: Lorraine Day, HPT-22 **Phone:** 202/366-4336 **Fax:** 202/366-3749
FTA Project Monitor: Linda W. King, TCR **Phone:** 202/366-0816 **Fax:** 202/366-3475

Description: Summer Transportation Internship Program for Diverse Groups is funded by the various administrations of the U.S. Department of Transportation, namely, FHWA, FTA, FRA, and RSPA. The training program is designed to introduce women, persons with disabilities, and persons representing diverse backgrounds to the professions, disciplines, and employment opportunities in the transportation sector. The program goals are to ensure equal opportunity in all US DOT-assisted programs and to promote diversity in the workforce, the transportation industry and supporting professions. The recruitment effort targets college students at the sophomore level and above. This project will help to draw a larger pool of trained personnel from diverse groups into the Nation's transit industry through a transportation agenda of research, work experience, and travel.

Project Title: Transportation Career Academies
Project Number: CA-26-2001-03 **Funding:** \$25,000
Start Date: September 1997 **Estimated Completion:** June 1998
Grantee/Contractor: Los Angeles County Metropolitan Transit Authority
818 West 7th Street, Suite 300
Los Angeles, California 90017
Principal Investigator: Carolyn Drummond **Phone:** 213/922-2454 **Fax:** 213/922-1702
FTA Project Monitor: Linda W. King, TCR **Phone:** 202/366-0816 **Fax:** 202/366-3475

Description: This project enables the Transportation Career Academies to continue to develop transportation-related education courses at innercity high schools in Los Angeles, namely, Locke, North Hollywood, and Wilson High Schools. The academies will help prepare students for transportation-related occupations and technical careers.

Project Title: United Cerebral Palsy High School/High Tech
Project Number: MD-26-2002-01 **Funding:** \$25,000
Start Date: June 1997 **Estimated Completion:** November 1997
Grantee/Contractor: United Cerebral Palsy of Prince George's and Montgomery Counties
Wm. Irwin Buck Center
3901 Woodhaven Lane
Bowie, Maryland 20715-1299
Principal Investigator: Dr. Charles McNelly **Phone:** 301/262-4993 **Fax:** 301/262-4982
FTA Project Monitor: Linda W. King, TCR-1 **Phone:** 202/366-0816 **Fax:** 202/366-3475

Professional Capacity Building - Human Resources

Description: This is a continuation of a program funded since 1994 that provides young adults with disabilities attending high schools in Prince George's and Montgomery Counties with exposure to careers in transportation and technology. The program is designed to introduce students to the professions, disciplines, and summer employment opportunities in the transportation sector. Students have the opportunity to attend and participate in workshops at the Department and to test their interests and abilities in a real working environment. Career counseling and information will be provided to the young adults regarding career and educational opportunities in transportation sector. This program helps to ensure equal opportunity in DOT-assisted programs and to promote diversity in the workforce, the transportation industry and supporting professions.

Professional Capacity Building - Information Management & Technology

Project Title: FTA Internet Home Page
Project Number: DC-26-7054 **Funding:** \$100,000
Start Date: June 1997 **Estimated Completion:** June 1998
Grantee/Contractor: Bureau of Transportation Statistics
U.S. Department of Transportation
Washington, DC 20590
Principal Investigator: Robert Owens, TBP-10 **Phone:** 202/366-1689 **Fax:** 202/366-7116
FTA Project Monitor: W. Raymond Keng, TRI-11 **Phone:** 202/366-6667 **Fax:** 202/366-3765

Description: This project continues the development, operation, maintenance, and evolution of the FTA Home Page on the World Wide Web of the Internet. The website provides extensive information about FTA to the transit community. Information about FTA regulations, circulars, policies, and initiatives; reports, announcements, notices, events, speeches, job vacancies, and other items is posted. There are also external website links to transit operators, state and local governments, research and planning organizations, and other groups that provide information relevant to FTA and the transit community. Tasks performed under this project include operating and maintaining the FTA Internet Server; obtaining, formatting, and organizing files and documents for the Internet; responding to inquiries from users; assessing and incorporating new Internet software and technologies; and assisting FTA staff in the development and presentation of information on the Internet. The FTA website address/URL is <http://www.fta.dot.gov>.

Project Title: National Transit Database
Project Number: VA-26-9007/MA-23-7001 **Funding:** \$2,500,000
Start Date: September 1997 **Estimated Completion:** October 1998
Grantee/Contractor: Signal Corporation (Data Collection)
3040 William Drive
Fairfax, Virginia 22031
and
Volpe National Transportation Systems Center (Technical Support)
Kendall Square
Cambridge, Massachusetts 02142
Principal Investigator: William Lyons, Volpe Center **Phone:** 617/494-2579 **Fax:** 617/494-3260
FTA Project Monitor: Linda M. Barnes, TPM-20 **Phone:** 202/366-6161 **Fax:** 202/366-7951

Description: The National Transit Database provides for the establishment of a uniform system of transit accounts and records and for a reporting system for the collection and dissemination of public transit financial and operating data by uniform categories. Approximately 600 transit agencies submit detailed summaries of their financial and operating data to the FTA National Transit Database reporting system (formerly the Section 15 Program). The statistical data is reviewed and entered into a computer database from which the following annual reports are prepared: *Transit Profiles Report*, *National Transit Summaries and Trends*, and *Data Tables*. Information from the National Transit Database reporting system is used for the planning of public transportation services and making public sector investment decisions at all levels of government. It is also used as a management tool and assists in planning, designing, and evaluating transit related projects. This project provides for continuing technical and administrative support to the management and operation of the National Transit Database

Professional Capacity Building - Information Management & Technology

in terms of data collection and validation, maintenance, software development, and annual report production. Visit the FTA website on the Internet World Wide Web at the following URL/address: <http://www.fta.dot.gov>.

Project Title: Technology Sharing and Information Dissemination Through the Transportation Research Board

Project Number: DC-26-7060 **Funding:** \$150,000

Start Date: September 1997 **Estimated Completion:** September 1998

Grantee/Contractor: National Academy of Sciences
2101 Constitution Avenue, NW
Washington, DC 20418

Principal Investigator: Peter Shaw **Phone:** 202/334-2966 **Fax:** 202/334-2003

FTA Project Monitor: Elizabeth Solomon, TRI-30 **Phone:** 202/366-0242 **Fax:** 202/366-3765

Description: The Transportation Research Board (TRB) of the National Academy of Sciences is a unique source of independent, highly regarded expertise which develops and disseminates new information addressing transit issues. The efforts of TRB to focus on transit problems and get them resolved on a cooperative basis are unique and have been of long-standing value to the transit industry. This project enables TRB to maintain an extensive network of transit experts in research, operations, and academia to work cooperatively on commonly held critical transit needs and to resolve these issues through the application of appropriate research. It also provides for the maintenance, evolution, and ongoing research dissemination through the computerized, online Transportation Research Information Service (TRIS) bibliographic database on worldwide transportation.

Policy & Planning - Metropolitan Policy Development

Project Title: Conditions and Performance Report to Congress
Project Number: VA-26-6003-07 ***Funding:*** \$100,000
Start Date: March 1997 ***Estimated Completion:*** March 1998
Grantee/Contractor: Booz Allen & Hamilton
8238 Greensboro Drive
McLean, Virginia 22102
Principal Investigator: Donald Schneck ***Phone:*** 215/496-8403 ***Fax:*** 215/496-6801
FTA Project Monitor: Matthew Welbes, TBP-10 ***Phone:*** 202/366-1668 ***Fax:*** 202/366-7116

Description: This project enables the FTA Policy Development Office to develop *the Conditions and Performance Report to the United States Congress*. Booz Allen & Hamilton maintains and updates the National Transit Inventory of transit assets and has developed the Transit Economic Requirements Model to identify future transit investment needs required to maintain and improve public transit. Federal statute requires FTA to prepare a biennial report to Congress on the condition and performance of mass transit in the United States. The report provides information about the physical conditions of the nation's transit vehicles and infrastructure, and the future investments required to maintain and improve public transit facilities and service. The report, titled *Status of the Nation's Surface Transportation System: Condition and Performance*, is published jointly by FTA and FHWA.

Project Title: Innovative Finance Services
Project Number: MD-26-6003-02 ***Funding:*** \$99,978
Start Date: September 1997 ***Estimated Completion:*** September 1998
Grantee/Contractor: Marlaw Systems Technology, Inc.
8121 Georgia Avenue, Suite 801
Silver Spring, Maryland 20910
Principal Investigator: Gloria Lawlah-Walker ***Phone:*** 301/588-9781 ***Fax:*** 301/588-9785
FTA Project Monitor: Paul L. Marx, TBP-10 ***Phone:*** 202/366-1675 ***Fax:*** 202/366-7116

Description: This project supports the FTA Innovative Financing Initiative. The research team will develop analyses of the implications of alternative financing techniques for transit investments. This will include an assessment of how usable the techniques would be for various transit systems by size, type of organization, or type of transit investment. The investment may involve new fixed guideway systems, rail modernization, rolling stock acquisitions, or facilities to serve multiple transportation modes. Expert assistance will be provided to transit systems that propose innovative financing or asset management techniques. Expert assistance will also be provided to states that establish State Infrastructure Banks, pursuant to authority granted in the National Highway System Designation Act of 1995. Tasks will include site visits, meetings with private finance entities and investors, and technical meetings and evaluation of local and federal legal issues, as well as assisting cities and transit systems in the development of appropriate financing techniques.

Policy & Planning - Metropolitan Policy Development

Project Title: World Cities Study of Urban Transport
Project Number: NY-26-6003 ***Funding:*** \$100,000
Start Date: July 1997 ***Estimated Completion:*** December 1997
Grantee/Contractor: Institute of Public Administration
55 West 44th Street
New York, New York 10036
Principal Investigator: John Keith ***Phone:*** 212/730-5178 ***Fax:*** 212/768-9071
FTA Project Monitor: John Day, TBP-10 ***Phone:*** 202/366-1671 ***Fax:*** 202/366-7116

Description: This study is an analysis of the demand for, access to and performance of roadway and public transit in New York City. The analysis is part of a larger, global study of transportation investment in *world class cities*. Increasingly, the world's economies are linked through a number of these world class cities, notably, London, Paris, Tokyo, and New York. In the competition for corporate investment, quality of life and the ability to move people and goods efficiently are critical factors. This global study will evaluate the demand for, access to and performance of roadway and public transit in these cities. This agreement will support the research conducted for New York. The project will reveal the need for plans, capital and an organizational structure to integrate transportation in the New York area (particularly transit) into an internationally competitive metropolitan system. It will study the demographic, land use, and institutional features and environmental imperatives that shape transportation in New York, and highlight improvements needed to meet the worldwide competitive standards and improve the quality of life for the people who live and work there.

Policy & Planning - Planning & Project Development

Project Title: Demonstration of the Intermodal Route Planner in Portland, Oregon
Project Number: OR-03-8001-01 **Funding:** \$1,000,000
Start Date: Fall 1997 **Estimated Completion:** Fall 2000
Grantee/Contractor: Portland Metro
600 NE Grand Avenue
Portland, Oregon 97232-2736
Principal Investigator: Keith Lawton **Phone:** 503/797-1764 **Fax:** 503/797-1764
FTA Project Monitor: Ronald T. Fisher, TPL-21 **Phone:** 202/366-0257 **Fax:** 202/493-2478

Description: This project will demonstrate the application of the Transportation Analysis and Simulation System (TRANSIMS), the next generation of travel models for the Portland region. The demonstration is intended to both test TRANSIMS and provide information that will guide necessary refinements or modifications to the models. Two new components of TRANSIMS will be developed by Los Alamos National Laboratory for this application, the Household and Activity Disaggregation module, and the Intermodal Route Planner. Metro will apply TRANSIMS to two alternatives for the forecast year as well as for current conditions. An assessment will be made of the capabilities of the new modeling system, which will include the level of detail necessary for transit and highway networks and forecast land use data. The results of this application will be used by the Los Alamos National Laboratory to complete a version of TRANSIMS which can be distributed nationally.

Project Title: Financial Assessment Reviews for New Starts Projects
Project Number: DC-90-8002 **Funding:** \$150,000
Start Date: August 1997 **Estimated Completion:** September 1998
Grantee/Contractor: Federal Highway Administration
Office of Environment & Planning
400 7th Street, SW, Room 3232
Washington, DC 20590
Principal Investigator: Sheldon Edner, HEP-21 **Phone:** 202/366-4066 **Fax:** 202/366-3713
FTA Project Monitor: Paul Branch, TPL-20 **Phone:** 202/366-6782 **Fax:** 202/493-2478

Description: This interagency agreement with the FHWA provides contractor support to conduct financial reviews that will improve the management of the New Starts program. Financial reviews will be conducted to support the financial ratings of projects recommended for new funding commitments in the next *Transit New Starts Report to the Congress*. The research team will develop and assess information regarding the financial condition and capacity of transit agencies considering new guideway investments. Capital financial plans and agency resources will be reviewed along with a determination of whether sufficient funds are available to undertake a major capital improvement project while maintaining existing transit service and operations. These financial reviews will be performed on selected grantees with projects approaching a point where a full funding agreement may be considered. ISTEA requires that a number of determinations be made before a grant is awarded for the construction of a New Starts project and that the planning process generate credible information on project costs, ridership, financing and environmental impacts.

Policy & Planning - Planning & Project Development

Project Title: Growing Smart Project
Project Number: DC-26-8001 **Funding:** \$191,000 (FY96)
Start Date: September 1995 **Estimated Completion:** December 1999
Grantee/Contractor: American Planning Association
122 South Michigan Avenue
Suite 1600
Chicago, Illinois 60603
Principal Investigator: Stuart Meck **Phone:** 312/786-6358 **Fax:** 312/431-9985
FTA Project Monitor: Michael Hopson, TPL-20 **Phone:** 202/366-1701 **Fax:** 202/483-2478

Description: The American Planning Association's *Growing Smart Project* is a three phase project designed to produce a legislative guidebook aimed at modernizing America's laws affecting transit planning and the management of change. Producing this guidebook involves many federal agencies with a stake in guiding the future development patterns of urban America, namely: Department of Housing and Urban Development, FTA, FHWA, Environmental Protection Agency, Federal Emergency Management Agency, and the Department of Agriculture. Phase 1 of this project focused on state and regional planning. Phase 2, currently in progress, focuses on local planning, and Phase 3, also in progress, focuses on administrative mechanisms for local planning and the development review process along with tools for managing change.

Project Title: ISTEA Management Oversight
Project Number: MA-90-8008-01 **Funding:** \$250,000
Start Date: September 1997 **Estimated Completion:** September 1998
Grantee/Contractor: Volpe National Transportation Systems Center
Kendall Square
Cambridge, Massachusetts 02142
Principal Investigator: William Lyons **Phone:** 617/494-2579 **Fax:** 617/494-3260
FTA Project Monitor: Deborah Burns, TPL-12 **Phone:** 202/366-1637 **Fax:** 202/493-2478

Description: The Intermodal Surface Transportation Efficiency Act (ISTEA) requires that the Department of Transportation certify, once every three years, that each metropolitan planning organization in each transportation management area is carrying out its responsibilities under applicable provisions of the law. This project enables the Volpe Center to continue providing oversight support to the FTA and the FHWA in implementing the joint planning regulations of ISTEA and in conducting comprehensive technical reviews of transportation planning in major metropolitan areas. The reviews examine the urban transportation planning processes including those which develop regional transportation plans and transportation improvement programs for compliance with the requirements of ISTEA and related federal laws, such as the Clean Air Act Amendments. Formal reports are developed as a result of these reviews.

Policy & Planning - Planning & Project Development

Project Title: Major Investment Planning Support
Project Number: DC-26-8007-01 **Funding:** \$350,000
Start Date: September 1997 **Estimated Completion:** December 1998
Grantee/Contractor: Federal Highway Administration
Office of Environment & Planning
400 7th Street, SW, Room 3232
Washington, DC 20590
Principal Investigator: Sheldon Edner, HEP-21 **Phone:** 202/366-4066 **Fax:** 202/366-3713
FTA Project Monitor: Brian Jackson, TPL-20 **Phone:** 202/366-6782 **Fax:** 202/493-2478

Description: The Intermodal Surface Transportation Efficiency Act (ISTEA), as well as FTA/FHWA metropolitan planning regulations require a number of determinations and major investment studies (MIS) before a grant is awarded for the construction of a transit New Starts project. For example, multimodal alternatives must be considered as part of the planning process. Since MIS is still a relatively new aspect of the planning process, there is a need for procedural guidance and technical assistance. This interagency agreement will provide contractor support to the planning staff for major investment planning and project development. Such support will help FTA oversee the major investment studies; preparation of environmental documents, circulars, guidance and training; and the planning aspects of preliminary engineering, particularly as they relate to the transit New Starts criteria. Project support will also include procedural guidance, technical assistance and training to grantees, state DOTs, MPOs and transit operators in major investment studies, travel demand forecasting, engineering and costing, financial planning and environmental assessment. The FHWA contractors will also develop major investment case studies to determine the effect of the MIS process on major transportation investments. Best professional practices in planning analyses are promoted through this type of mechanism.

Project Title: Printing and Distribution of Planning and Research Products
Project Number: DC-26-8010 **Funding:** \$30,000
Start Date: June 1997 **Estimated Completion:** June 1998
Grantee/Contractor: Research and Special Programs Administration
U.S. Department of Transportation
400 7th Street, SW, Room 8417
Washington, DC 20590
FTA Project Monitor: Effie Stallsmith, TPL-20 **Phone:** 202/366-5653 **Fax:** 202/493-2478

Description: The FTA Office of Planning provides technical assistance to projects that explore new and improved planning techniques, multimodal planning, coordinated job access planning, public involvement techniques, major investment planning and training, financial planning, and the Livable Communities Initiative. To make this project information available to the transit community and other interested parties, it is necessary to disseminate the information throughout the country, usually in the form of printed reports. This interagency agreement with the Technology Sharing Program provides for the publication and distribution of FTA planning and research activities and products. The products are intended to enhance the state-of-the-practice in multimodal transportation planning and systems analysis at the metropolitan and state levels.

Policy & Planning - Planning & Project Development

Project Title: Review of Financial Capacity Practices and Procedures
Project Number: MA-90-8006 ***Funding:*** \$75,000
Start Date: July 1997 ***Estimated Completion:*** July 1998
Grantee/Contractor: Harvard Design & Mapping Company, Inc.
30 Spinelli Place
Boston, Massachusetts 02138-1046
Principal Investigator: Kija Kim ***Phone:*** 617/354-0100 ***Fax:*** 617/868-6855
FTA Project Monitor: Nancy Strine, TPL-20 ***Phone:*** 202/366-8051 ***Fax:*** 202/493-2478

Description: The FTA Office of Planning is sponsoring a financial capacity study. The purpose of the study is to review and evaluate FTA grantees' financial capacity planning and procedures as they relate to the FTA Financial Capacity Circular, the Statewide and Metropolitan Planning Rule, and the broader implications and financial constraint requirements of the Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA) and the Clean Air Act Amendments of 1990 (CAAA). This is an effort to review FTA's Financial Capacity Circular to determine whether or not the existing circular is adequate to the new financial constraint requirements of ISTEA and CAAA or whether the FTA circular should be replaced or rewritten. The circular provides for a review of an agency's current financial condition to provide for operation deficits, capital programs to replace and rehabilitate existing equipment and facilities, and new investments. A final report will be published and made available to the transit industry and others interested in the subject.

Project Title: Study of Infrastructure Banking Options
Project Number: DC-08-8004 ***Funding:*** \$100,000
Start Date: September 1997 ***Estimated Completion:*** April 1998
Grantee/Contractor: Federal Highway Administration
Office of Environment & Planning
400 7th Street, SW, Room 3232
Washington, DC 20590
Principal Investigator: Ray Ellis ***Phone:*** 703/917-6726 ***Fax:*** 202/366-3713
FTA Project Monitor: Nancy Strine, TPL-20 ***Phone:*** 202/366-8051 ***Fax:*** 202/493-2478

Description: This interagency agreement provides contractor support to study transit financial options under the new State Infrastructure Banking Pilot Program. The project will provide technical assistance and direct financial and advisory assistance to transit agencies, states, metropolitan planning organizations, and state departments of transportations selected to participate in the Department of Transportation's new State Infrastructure Bank Pilot Program. Assistance will focus on how transit can better use financing alternatives from the State Infrastructure Bank. The study will also assess methods for evaluating funding requests and for developing an investment criteria. This pilot program supports the FTA Innovative Financing Initiative. State Infrastructure Banking is a new and alternative approach to transportation funding that goes beyond traditional federal-aid and state-aid funding.

Policy & Planning - Livable Communities Initiative

Project Title: Livable Communities Initiative - Program Support, Town Meetings and Technical Assistance

Project Number: MA-26-8001 **Funding:** \$105,000

Start Date: August 1997 **Estimated Completion:** October 1998

Grantee/Contractor: Planners Collaborative Inc.
273 Summer Street
Boston, Massachusetts 02210

Principal Investigator: Joseph Brevard **Phone:** 617/338-0018 **Fax:** 617/338-4228

FTA Project Monitor: Effie S. Stallsmith, TPL-21 **Phone:** 202/366-1613 **Fax:** 202/493-2478

Description: The FTA Livable Communities Initiative (LCI) supports transit capital projects that strengthen the relationship between transit and community development, stimulate greater community involvement in the development process, and increase access to community services and jobs. Projects sponsored through this Initiative are improving community livability, increasing transit ridership and access to community services and jobs, and strengthening partnerships nationwide. This project provides continued professional support services and resources to LCI in the areas of general program support and technical assistance for town meetings, local project implementation, special emphasis areas, and information dissemination. Project activities include on-site assistance, advanced technical methods for site planning and urban design, data collection and/or development, dissemination of literature and other program materials.

Project Title: Livable Communities Initiative - Program Support

Project Number: CA-26-8002 **Funding:** \$50,000

Start Date: February 1997 **Estimated Completion:** June 1998

Grantee/Contractor: Gardner Consulting Planners
22010 South Wilmington Avenue
Suite 109
Carson, California 90745

Principal Investigator: Adrienne Sasser-Gardner **Phone:** 310/522-9584 **Fax:** 310/522-9587

FTA Project Monitor: Effie S. Stallsmith, TPL-21 **Phone:** 202/366-1613 **Fax:** 202/493-2478

Description: This project provides continued support to the FTA Livable Communities Initiative in the areas of general program support and continued technical assistance for town meetings, local project implementation, special emphasis areas, and information dissemination. Specific project activities include onsite assistance, advanced technical methods for site planning and urban design, data collection, preparation and dissemination of literature and other program materials relating to legal issues, grantmaking, and technical assistance. The FTA Livable Communities Initiative is designed to strengthen the link between transit and communities by improving personal mobility, transportation system performance, and the quality of life in communities

Policy & Planning - Livable Communities Initiative

Project Title: Livable Communities Initiative - Program Support and Town Meetings
Project Number: CA-26-0025 **Funding:** \$20,000
Start Date: March 1997 **Estimated Completion:** April 1998
Grantee/Contractor: Los Angeles County Metropolitan Transportation Authority
818 West 7th Street, Suite 300
Los Angeles, California 90017
Principal Investigator: Dennis Newjahr **Phone:** 213/922-2461 **Fax:** 213/922-2562
FTA Project Monitor: Effie S. Stallsmith, TPL-21 **Phone:** 202/366-1613 **Fax:** 202/493-2478

Description: The FTA Livable Communities Initiative demonstrates ways to improve linkages between transit and communities. It promotes customer-friendly, community-oriented, well-designed facilities and services. This project provides for professional support services that will assist local agencies in achieving the widest possible public participation in the implementation of the Livable Communities Initiative. Town meetings and community activities will be planned and conducted for the purpose of bringing together FTA staff, state and local government officials, community groups, metropolitan planning organizations, transit agencies, and private organizations to exchange ideas and to advance the implementation of the concept. Specific activities include (1) advanced technical methods for site planning and urban design, (2) data collection of neighborhood demographics, and (3) dissemination of materials developed through the Visual Preference Survey, and visioning sessions at town meeting to implement Phases 2 and 3 of the Livable Communities project.

Project Title: Livable Communities Initiative - Town Meetings
Project Number: OH-08-0189 **Funding:** \$10,000
Start Date: January 1997 **Estimated Completion:** March 1997
Grantee/Contractor: The Greater Cleveland Regional Transit Authority
615 West Superior Street
Cleveland, Ohio 44113
Principal Investigator: Joel Freilich **Phone:** 216/566-5120 **Fax:** 216/781-4488
FTA Project Monitor: Effie S. Stallsmith, TPL-21 **Phone:** 202/366-1613 **Fax:** 202/493-2478

Description: This project is designed to provide the necessary professional support services to FTA staff and local agencies in achieving the widest possible public participation in the implementation of the Windermere Station Livable Communities Project. Town meetings and community activities will be planned and conducted for the purpose of bringing together federal, state and local government officials, community groups, transit agencies, and private organizations to exchange ideas and to advance the implementation of the concept. Specific activities include (1) use of advanced technical methods for site planning and urban design, (2) data collection of neighborhood demographics, and (3) dissemination of materials developed through the Visual Preference Survey and visioning sessions at the town meetings. The Visual Preference Survey is used to create a pattern book that asks community members to evaluate the existing physical environment of a neighborhood as well as alternatives for the future. This process provides input for development of a vision based on integrating transit facilities and neighborhoods, enhancing quality of life for its citizens, and increasing transit use.

Policy & Planning - Livable Communities Initiative

Project Title: Maryland Smart Growth Project
Project Number: MD-26-0004/01 **Funding:** \$228,000
Start Date: August 1997 **Estimated Completion:** September 1998
Grantee/Contractor: Maryland Mass Transit Administration
6 Saint Paul Street
Baltimore, Maryland 21202
Principal Investigator: Dianna Rosborough **Phone:** 410/767-3944 **Fax:** 410/333-0689
FTA Project Monitor: Effie S. Stallsmith, TPL-21 **Phone:** 202/366-5653 **Fax:** 202/493-2478

Description: The State of Maryland is using a new planning technique called Quality Community Surveys (QCS) to bring residents, architects, and merchants together to discuss neighborhood concerns, such as the need to curb sprawling development, grow smarter, and protect natural resources and older communities. The QCS process allows members of a community to develop a consensus vision as to what they would like their community to look like in the future. Participants rank and discuss various styles and features of neighborhood design resulting in patterns of community preference and a consensus vision for their community. This project enables the Maryland Mass Transit Administration (MTA) to initiate a statewide community involvement planning project for the State of Maryland that will assess future transit needs. Ten statewide QCS will be conducted to encourage active community involvement early in the planning process, improve intergovernmental cooperation, provide input for the development of a vision based on integrating transit facilities and neighborhoods, enhancing the quality of life for its citizens, and increasing transit use. A national symposium was conducted for local, federal, state, community, and business leaders entitled *Americans Growing Smarter: A Summit*, June 4, 1997, in Baltimore, Maryland. The symposium brought together national leaders to focus on urban sprawl and demonstrate, through case studies, how local land use and balanced transportation policies reduce auto travel and support pedestrian-friendly, mixed-use, and transit-oriented developments. Using Maryland's Smart Growth Initiative as a foundation, this project will serve as a national model for addressing transportation and land use issues on a statewide basis and for demonstrating the importance of local public involvement input for state planning and land use efforts, as well as for mainstreaming the Livable Communities Initiative concept.

Project Title: Pedestrian Accessibility and Mass Transit: An Advocacy Approach
Project Number: MA-80-X008 **Funding:** \$85,000
Start Date: October 1996 **Estimated Completion:** March 1998
Grantee: Metropolitan Area Planning Council
60 Temple Place
Boston, Massachusetts 02111
Contractor: WalkBoston
156 Milk Street
Boston, Massachusetts 02109
Principal Investigator: Dorothea Haas **Phone:** 617/451-1570 **Fax:** 617/451-6475
FTA Project Monitor: Effie Stallsmith, TPL-20 **Phone:** 202/366-5653 **Fax:** 202/493-2478

Policy & Planning - Livable Communities Initiative

Description: This WalkBoston Livable Communities project is designed to study pedestrian accessibility for selected transit corridors and stations in the Boston Metropolitan Area. WalkBoston is a pedestrian advocacy group experienced in planning transit services. Project activities include selecting key transit facilities, identifying key issues and community efforts needed to design a transit system that supports community development needs and creates a livable community through improved pedestrian access. This project focuses on designing a transit system that meets community goals and identifying the role of the advocacy group in achieving these goals. Case studies to be developed from this research include success stories and lessons learned. This project supports the FTA Livable Communities Initiative, which demonstrates ways to improve the link between transit and communities. It promotes customer-friendly, community-oriented and well-designed facilities and services.

| | | |
|---------------------------------------|---|---|
| <i>Project Title:</i> | Transit-Oriented Joint Development Workshop | |
| <i>Project Number:</i> | DC-26-8009 | <i>Funding:</i> \$240,000 |
| <i>Start Date:</i> | February 1997 | <i>Estimated Completion:</i> June 1998 |
| <i>Grantee/Contractor:</i> | American Public Transit Association 1201 New York Avenue, NW Washington, DC 20005 | |
| <i>Principal Investigator:</i> | Richard Weaver | <i>Phone:</i> 202/898-4109 <i>Fax:</i> 202/898-4049 |
| <i>FTA Project Monitor:</i> | Sharon Pugh, TPL-20 | <i>Phone:</i> 202/366-4984 <i>Fax:</i> 202/493-2478 |

Description: This project enables the American Public Transit Association (APTA) to conduct a series of workshops on the value capture element of transit-oriented joint development -- an FTA innovative financing technique. These workshops will assist transit agencies and others involved in the transportation planning process and economic development to cooperatively develop appropriate transit-oriented development projects and to enhance the leverage of transit-owned property in such projects. Workshops will bring together state and local officials, transit agency representatives, and representatives of metropolitan planning organizations, state departments of transportation, government agencies, and the business community. The workshops are intended to enhance the value capture element of transit-oriented joint development and provide a revenue source to the transit agency; maintain an emphasis on these opportunities at all levels of government, thereby reducing the need for further direct federal involvement; increase transit ridership; and foster transit supportive community development.

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