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| OA: | INITIATIVE ID: | FY-2000: | FY-2001: | FY-2002: |
| FHWA | FHWAO002 | \$7,037 | \$7,127 | \$7,222 |

TITLE:

MOTOR CARRIER INFORMATION SYSTEMS

DESCRIPTION:

The FHWA Office of Motor Carriers (OMC), due to its nationwide responsibilities for regulation and enforcement of the safety of about 450,000 interstate motor carriers, has extensive, mission-critical information system requirements. FHWA's Motor Carrier Management Information System (MCMIS) is a national census of interstate carriers containing extensive safety-related data on each carrier, including safety fitness rating, roadside inspection, accident, compliance review, and enforcement information. These data are accessible by 73 FHWA field offices and 55 MCSAP State offices, D.C., and territories, as well as the Department of Defense, and the industry and the public.

SAFETYNET is the distributed component of the information system, operating in State and federal field offices both as local management information systems and to communicate data, such as inspections, accidents, and safety reviews, electronically to and from MCMIS.

The SAFER (safety and fitness electronic records) system provides motor carrier safety records instantly and electronically to roadside clearance sites under the Intelligent Transportation System/Commercial Vehicle Operations program (ITS/CVO). The national federal/state cooperative motor carrier safety program, the ITS/CVO program and the PRISM program are vitally dependent on the operation of these key systems. MCMIS also provides for the efficient use of federal and state staff through the targeting of unsafe carriers both for compliance reviews and for roadside inspections.

CONTACT: Michael Curtis, (202) 366-4023

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| OA: | INITIATIVE ID: | FY-2000: | FY-2001: | FY-2002: |
| FHWA | FHWAO003 | \$3,174 | \$3,224 | \$3,278 |

TITLE:

FEDERAL LANDS HIGHWAY PROGRAM

DESCRIPTION:

The Federal Lands Highway engineering program provides technical assistance to government agencies (federal, state, local) in planning and location studies, engineering studies, design, contract administration construction, emergency repair and maintenance of transportation facilities which serve Federal lands. The FHWA continues to enhance the information technology capabilities of its field Federal Lands Highway (FLH) divisions by updating its

automated engineering systems (CADD), program management applications, and office automation infrastructure.

CONTACT: Vicki Miller (202) 366-2173

| OA: | INITIATIVE ID: | FY-2000: | FY-2001: | FY-2002: |
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| FHWA | FHWAO005 | \$5,255 | \$5,535 | \$6,078 |

TITLE:
RESEARCH AND TECHNOLOGY SUPPORT

DESCRIPTION:

This initiative includes information technology support of research, development and technology (RD&T) projects for safety, structures, pavement, intelligent transportation systems, environment and other program areas that will improve research data collection and analysis techniques and result in better allocation of resources, and the safer, more efficient and effective use of the nation's highways. It encompasses on- and off-site contractor I.T. support of Turner Fairbank Highway Research Center operations, maintenance of systems such as the pavement research database under the Long Term Pavement Program, Geometric Design, Highway Safety Information System, and I.T. services and equipment associated with development of RD&T projects.

CONTACT: ROBERT ELLINGTON (202) 493-3181

| OA: | INITIATIVE ID: | FY-2000: | FY-2001: | FY-2002: |
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| FHWA | FHWAO007 | \$1,446 | \$1,461 | \$1,363 |

TITLE:
INTELLIGENT TRANSPORTATION SYSTEM PROGRAM MANAGEMENT & OPERATIONS CBU SUPPORT

DESCRIPTION:

The ISTEA legislation of 1991 launched a program of research and testing of intelligent transportation systems with a charge to investigate their effectiveness in solving congestion and safety problems, operating inefficiencies in transit and commercial vehicles and reducing the environmental impact of growing travel demand. By late 1995, early results of that research were shown to be cost-effective, and if implemented in an integrated system, could form a powerful platform for management of transit and traffic systems now and support a series of in-vehicle private products coming on line in a second generation of ITS. Thus, in January of 1996, U.S. DOT Secretary Pena set a national goal to build within a decade an intelligent transportation infrastructure (ITI) that would support rural and metropolitan travel management and safety needs as well as streamline the regulatory transactions associated with commercial vehicle operations within states and across our international borders.

Support activities associated with the research and development and architecture/standards areas of ITS are covered in project FHWAO005 (Research and Technology Support). This initiative is concerned with IT hardware, software and support services for its program management and outreach activities, and with web site development and operation services for the ITS Joint Program Office.

Also supported is web site development and operation services for the Operations Core Business Unit.

CONTACT: H.A. (WHITEY) METHENY (202) 366-2835

| OA: | INITIATIVE ID: | FY-2000: | FY-2001: | FY-2002: |
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| FHWA | FHWAO009 | \$4,082 | \$3,344 | \$3,413 |

TITLE:

HUMAN RESOURCES & ADMINISTRATIVE SYSTEMS SUPPORT

DESCRIPTION:

This initiative encompasses information systems and applications which streamline and improve delivery of human resources services to FHWA staff, and systems for managing this initiative encompasses information systems and applications which streamline and improve delivery of human resources services to FHWA staff, and systems for managing agency acquisitions and providing legal support. Among the short and long range strategies are the following: <P>

- Conversion of the agency's personnel data to a web accessible Oracle database server environment. <p>
- Provide a single login interface to access agencywide systems to be accessible via the web. <P>
- Enhance access to and management of agency training and staff development through replacement of the current FHWA training management system with the web-accessible Learning and Development System (LADS).<P>
- Enhancements to the National Highway Institute's Course Management and Training System, including an E-commerce functionality for ordering and inventory control.
- A distance learning initiative to provide courses via the web.

CONTACT: LAWRENCE I. NEFF (202) 366-9011

| OA: | INITIATIVE ID: | FY-2000: | FY-2001: | FY-2002: |
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| FHWA | FHWAO011 | \$0 | \$7,641 | \$4,397 |

TITLE:

FHWA IT INFRASTRUCTURE INITIATIVES

DESCRIPTION:

This initiative includes investments in information technology which result in more effective and efficient support of agency mission operations. Included are:<p>

- Upgrade of FHWA's PC and Local and Wide Area Network infrastructure<P>
- Application servers for agencywide systems

- Agencywide contract site licenses for continued use of FHWA's standard local area network operating system and our office automation software (word processing, e-mail, spreadsheets, etc.). All software will be upgraded as part of the planned agencywide it infrastructure upgrade. Annual agencywide site licenses are the most economical way to use commercial software and provide all upgrades issued by the company, as well as call-in telephone support.<p>
- Replacement of the agency's video conferencing room-based and set top units.<p>
- Enhancement of FHWA web site security by upgrade of servers in the DMZ.<p>
- Support of FHWA's disaster recovery site at Turner - Fairbank Highway Research Center, McLean, VA

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| OA: | INITIATIVE ID: | FY-2000: | FY-2001: | FY-2002: |
| FHWA | FHWAO012 | \$4,679 | \$5,660 | \$5,748 |

TITLE:

TELECOMMUNICATIONS WITH STATE DOTs AND INTERNAL STAFF

DESCRIPTION:

This initiative covers the range of data, e-mail, video, internet, and network communications in support of program and administrative operations within FHWA and with State DOT partners and other external customers. Included are the following:<P>

- Continued operations of the FHWA wide area network, which enables FHWA field staff to access and use our nationwide information systems and provide nationwide data links among all FHWA offices for office automation and electronic mail.

<P>

- Connectivity between FHWA's nationwide information systems and the State DOTs for electronic data sharing and electronic signatures, e.g., for direct electronic transmission of program and financial data and requests for Federal-aid reimbursement, Federal-aid project authorizations and agreements, and to provide access to each other's local project and program management databases and e-mail.

<P>

- Support of FHWA's video-conferencing system.

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- FHWA's share of the DOT intermodal data network (IDN) for e-mail links to other dot modal administrations' e-mail systems.

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| OA: | INITIATIVE ID: | FY-2000: | FY-2001: | FY-2002: |
| FHWA | FHWAO013 | \$5,730 | \$7,050 | \$5,708 |

TITLE:

INFORMATION RESOURCES AND END USER SUPPORT

DESCRIPTION:

This initiative includes contract support for ongoing operation, maintenance and upgrading of FHWA's network infrastructure, ongoing operation of the FHWA help desk, field office LAN and WAN support, and development of local computer applications. This contract also provides ongoing technical support for the electronic recordkeeping systems already installed. Also included are:

- A pilot program to evaluate use of Seat Management for support of the FHWA PC/LAN infrastructure.

- Ongoing use of other contract IT services, such as WESTLAW, LEXIS/NEXIS access, Elite Forms, Fedlink, and WAN and e-mail expert consultant services.

- Equipment maintenance services and emergency replacement for FHWA's installed base of PCs, LAN file servers, and data communications hardware. Maintenance is acquired on an on-call, time and materials basis. Emergency replacement is sometimes required where it is no longer cost effective to repair equipment.

- computer training for the agency's standard PC software packages.

- IT-related supplies (memory, NICs, drives, etc.)

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| OA: | INITIATIVE ID: | FY-2000: | FY-2001: | FY-2002: |
| FHWA | FHWAO021 | \$331 | \$414 | \$428 |
| TITLE: | | | | |
| TRAFFIC VOLUME TRENDS SYSTEM | | | | |

DESCRIPTION:

Vehicle miles of travel (VMT) have been identified in the FHWA Performance Plan as a significant component of performance measurement. Continuous automatic traffic recorder (ATR) data reported by the States to prepare the monthly Traffic Volume Trends (TVT) report is used to provide the early estimate of VMT for performance monitoring.

The Traffic Volume Trends (TVT) system develops monthly estimates of travel change based on monitoring at continuous traffic data recorders. These changes are applied to the travel data provided for the previous year through the HPMS. The primary purpose of the process is to develop national level rural and urban travel estimates for the Interstate System, other arterials, and all remaining other types of highways.

Guidelines and formats for collecting and submitting the ATR data are included in the Traffic Monitoring Guide. Efforts are underway to redesign the TVT report to improve its quality and better reflect monthly travel at the State level. The TVT system will be distributed to the States in 2000 in order to process their ATR data, generate their own monthly traffic trends report, and

prepare the data for submittal to the FHWA

CONTACT: Ed Kashuba, (202) 366-0160

| OA: | INITIATIVE ID: | FY-2000: | FY-2001: | FY-2002: |
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| FHWA | FHWAO022 | \$691 | \$719 | \$1,168 |

TITLE:
HIGHWAY PERFORMANCE MONITORING SYSTEM

DESCRIPTION:

The HPMS was developed in 1978 as a national highway transportation system database. It includes limited data on all public roads, more detailed data for a sample of the arterial and collector functional systems, and certain summary information for urbanized, small urban and rural areas. A major purpose of the HPMS is to provide data that reflects the extent, condition, performance, use, and operating characteristics of the Nation's highways. The HPMS data form the basis of the analyses that support the biennial Condition and Performance Reports to Congress, a major, Congressionally-mandated, FHWA stewardship responsibility. <P>

These data are used for assessing highway system performance under FHWA's strategic planning process and for apportioning Federal-aid funds under TEA-21. HPMS serves needs of the States, MPOs and local government and other customers in assessing highway condition, performance, air quality trends, and future investment requirements. In addition, these data are the source of a large portion of information made available to a varied world-wide customer base through our annual Highway Statistics Series and other FHWA publication media. <P>

The proposed IT activities directly support the FHWA-adopted HPMS objectives from the recently completed HPMS reassessment. These include: a) providing a publicly accessible national data base; b) providing a data base, analytical process, and technical support for State,

CONTACT: Jim Getzewich (202) 366-0175

| OA: | INITIATIVE ID: | FY-2000: | FY-2001: | FY-2002: |
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| FHWA | FHWAO023 | \$630 | \$374 | \$382 |

TITLE:
HIGHWAY STATISTICS

DESCRIPTION:

This initiative supports FHWA policy analysis and development, strategic planning and apportionment of Federal funds in four data series: 1) highway finance; 2) motor fuel; 3) vehicle registration; and, 4) driver's license data. These data programs provide important support for decision-makers in FHWA and elsewhere.

These data are currently collected under instructions contained in FHWA's Guide for Reporting Highway Statistics (on FHWA Forms 500-series) and are reported annually, except for motor fuel, by the States to FHWA for publication in Highway Statistics

CONTACT: Ed Kashuba, (202) 366-0160

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| FHWA | FHWAO024 | \$275 | \$421 | \$610 |

TITLE:
VEHICLE TRAVEL INFORMATION SYSTEM

DESCRIPTION:

VTRIS is a Windows-based data base management system for processing vehicle classification and truck weight data. It is based on the FHWA's Traffic Monitoring Guide and includes data conversion, validation, and summarization capabilities. Standard weight tables and other reports and graphs are provided. These may be customized by the user.

This software is used by FHWA to process data submitted for the Truck Weight Study. It is made available for the states to use (but it isn't required). A "ship" function packages data for submission to FHWA.

With the increasing use of permanent automatic vehicle classification (AVC) and weigh-in-motion (WIM) systems, states are struggling to deal with the large amounts of data now available. One WIM station can generate over 100 megabytes of data in a year. An advantage of VTRIS is that many reports can be produced from a one-time summary process.

CONTACT: Ed Kashuba, (202) 366-0160

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| FHWA | FHWAO025 | \$1,634 | \$1,571 | \$1,691 |

TITLE:
HIGHWAY POLICY DEVELOPMENT AND PLANNING SUPPORT

DESCRIPTION:

This initiative supports FHWA policy analysis and development, strategic planning, and technology development in three broad areas: (1) efficient and timely collection, management and dissemination concerning highway transportation and its intermodal connections, (2) highway financing, investment analysis and performance measurement, and (3) enhancing highway program contributions to economic productivity, efficiency, and other national goals.

The support is carried out through projects to meet increasing needs for highway performance data and geographic data analysis, micro-based analysis and reporting systems, Highway Statistics Data Management and Access System, the Census Transportation Planning Package (CTPP), analysis of the results of the 1995 Nationwide Personal Transportation Survey (NPTS), and Motor Vehicle and Driver License Data System.

This initiative also includes support of web pages for the Pan American Institute of Highways, the Nationwide Personal Transportation Survey, and the Office of International Programs.

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| OA: | INITIATIVE ID: | FY-2000: | FY-2001: | FY-2002: |
| FHWA | FHWAO026 | \$1,852 | \$1,458 | \$1,399 |

TITLE:

FEDERAL AID INFRASTRUCTURE INFORMATION SYSTEMS

DESCRIPTION:

The FHWA has a number of automated systems that provide nationwide support of the Federal-aid highway program. These systems support both FHWA and its State DOT partners:

- National Bridge Inventory (NBI). Federal regulations set forth National Bridge Inspection Standards (NBIS) with requirements for inspection procedures, frequency of inspections, qualifications of personnel, inspection reports, and preparation and maintenance of a State bridge inventory. The NBIS apply to all structures defined as bridges located on all public roads. The NBI database is an aggregation of structure inventory and appraisal data collected to fulfill the requirements of the NBIS. Each State prepares and maintains an inventory of all bridges subject to the NBIS. State data as well as data on structures on Federal lands is aggregated into the NBI database.

The NBI system is used to determine Highway Bridge Rehabilitation and Replacement Program (HBRRP) eligibility, run apportionments for the HBRRP and provide an accurate report to the Congress on the number and state of the Nation's bridges. The Guide also provides the data necessary for the Federal Highway Administration (FHWA) and the Military Traffic Management Command to identify and classify the Strategic Highway Corridor Network and its connectors for defense purposes.

The current mainframe-based NBI will be moved to a new server based system incorporating new requirements, a thin-client internet interface and the latest in GUI technology.

- Also included in this project is support for smaller database systems: Bid Opening Reports (FHWA-810), Bid Price Trends (FHWA-45), Materials and Labor Usage Factors (FHWA-47), and the Appalachian Cost Estimate, and support for web sites for FHWA's Infrastructure Core Business Unit.

CONTACT: Lawrence I. Neff, (202) 366-9011

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| FHWA | FHWAO027 | \$1,543 | \$1,356 | \$1,087 |

TITLE:

PLANNING & ENVIRONMENT CORE BUSINESS UNIT SUPPORT

DESCRIPTION:

Included in this project are:

(1) Congestion Mitigation and Air Quality (CMAQ) Improvement System.

This system will allow States to report electronically to FHWA on the projects, including the anticipated emissions benefits, funded by CMAQ money. The system will be a WEB enabled application. Requirements analysis and proto-typing are underway.

(2) Development and operation of Planning & Environment CBU web sites

CONTACT: Tony Solury, (202) 366-5003

| OA: | INITIATIVE ID: | FY-2000: | FY-2001: | FY-2002: |
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| FHWA | FHWAO028 | \$100 | \$250 | \$400 |

TITLE:

KNOWLEDGE MANAGEMENT

DESCRIPTION:

FHWA is facilitating a knowledge sharing culture by applying knowledge management (KM) principles and practices that enable knowledge to flow across organizational lines to where it is most needed, and can best be applied to meet customer needs. Enhancement of a knowledge sharing environment will help FHWA achieve its corporate management strategies in the areas of leadership, customer/partner focus, human resource development and management, process management, and information analysis. Key activities include operating and growing FHWA's Resource Center (RC) Expertise locator, building and maintaining communities of practice (CoP's), developing a Knowledge Network for integration and

CONTACT: Mike Burk, (202) 3366-8035

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| FHWA | FHWAO029 | \$525 | \$150 | \$156 |

TITLE:

SAFETY CORE BUSINESS UNIT SUPPORT

DESCRIPTION:

The following activities are supported by this project:

- Highway Safety Improvement Program (HSIP) This is a federally mandated software system residing on the TCC mainframe computer. It is designed to gather "before" and "after" accident data in conjunction with implemented highway safety improvement projects. It generates an annual report to Congress specifying a) accident reductions, b) costs per accident reduced, and c) benefit/costs ratios. The current system has been modified to process partially on the mainframe computer and partially on a PC to comply with Y2K requirements. The system is being evaluated by HSA in anticipation of converting to a web based, WINDOWS/NT server environment with enhanced statistical analysis capability.

- Support of HSA web sites

CONTACT: David Smith, (202) 366-6614

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| OA: | INITIATIVE ID: | FY-2000: | FY-2001: | FY-2002: |
| FHWA | FHWAO032 | \$4,794 | \$2,849 | \$3,019 |

TITLE:
FISCAL MANAGEMENT INFORMATION SYSTEM

DESCRIPTION:

The Fiscal Management Information System (FMIS) maintains fiscal and statistical data on all Federally funded highway projects and allows electronic signatures for Authorization, Amendment, Agreement and Modified Agreement documents. Currently, we are working with Washington State to allow the state to electronically send in their Authorization/Modification documents with the State signature attached. Divisions will still have to access FMIS to enter their Electronic Signature. California will also be testing this procedure.

FMIS Win is the graphical user interface for FMIS. Phase 1 was implemented nationwide in August 1996. The next phase will allow users to develop their own reports, called Free Form Reports.

FHWA is currently in the process of re-writing the Fiscal Management Information System to bring it up-to-date with current legislation. The new system will be Web enabled, running on an Oracle database server. Requirements analysis, proto-typing, coding and testing are underway.

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| FHWA | FHWAO033 | \$6,914 | \$4,681 | \$4,864 |

TITLE:
RAPID APPROVAL STATE PAYMENT SYSTEM

DESCRIPTION:

The new Rapid Approval State Payment System, which will replace the existing Current Bill - PR20 Warehouse system is used to reimburse States for the Federal Share of highway construction and highway related projects. The system has been enhanced to link it to the Fiscal Management Information systems so that the bill can be checked to make sure that each project will not go over the agreement amount. Bills that exceed the agreement will be flagged.

Also, these expenditures are sent to DAFIS and to FMIS daily thus eliminating the 2-3 day delay in getting them recorded in FMIS. This mainframe system is currently being re-designed as the Rapid Approval State Payment System, which will be a Web-enabled, server-based system.

Included in this project is funding for the FHWA share of the Departmental accounting system

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