

PLANNING, AIR QUALITY, AND ENVIRONMENT



FY 09 Planning, Air Quality, and Environment Menu of Technical Assistance, Training, and Peer Review Offerings

This document serves as a "Menu of Options" for technical assistance, peer review, and training offerings in the disciplines of planning, environment, and air quality. It is offered as a resource to FHWA Division Offices and partner agencies and is organized by subject areas. Technical assistance and training offerings listed are available from a variety of FHWA offices (including the National Highway Institute (NHI)) as well as the National Transit Institute (NTI).

The "Menu" includes offerings that may be coordinated or delivered through different FHWA units. However, the listing below attempts to provide an overall summary of what is currently available, with the goal of enhancing awareness of these resources and building professional capacity. Included in the menu are brief overviews of each technical assistance or training offering. These include formal courses, workshops and seminars that are delivered in person as well as online training and technical assistance opportunities. Online training or "webinars" may be self-paced or led by an instructor, and allow participants the opportunity to access training and technical assistance without incurring travel costs. In addition to formal training offerings, please note that on-going, general technical assistance by topic will continue to be provided to the FHWA division offices and partner agencies as requested. For both training and technical assistance, a subject specialist name is provided for further information. The FHWA Points of Contact by Office is also included.

In considering menu selections, please note that NHI/NTI courses will generally offer a comprehensive overview of a particular topic. Workshops (often offered through the FHWA Resource Center) are often shorter in length, and depending on the topic can provide either a more summary view of a subject or a more in-depth discussion of an element of a broader NHI/NTI course. In many cases, these



workshops can also be tailored to the needs/ issues of a specific State or MPO. Workshops may also include facilitated discussions on particular topics and development of action plans.

FHWA Points of Contact by Office

FHWA Resource Center Planning Technical Service Team
Lisa Randall (720) 963-3209

FHWA Resource Center Air Quality Team
Bob O'Loughlin (415) 744-3823

FHWA Resource Center Environment Team
Don Cote (720) 963-3210
Mary Ann Rondinella (720) 963-3207

HEPP, Transportation Planning Capacity Building Program (TPCB) **Robert Ritter** (202) 493-2139

HEPP, Planning Oversight and Stewardship Team
Harlan Miller (202) 366-0847

HEPP, Travel Demand Forecasting, TRANSIMS, and TMIP
Fred Ducca (202) 366-5843

HEPI, Border Planning and GIS
Roger Petzold (202) 366-4074

HEPE, Environmental Training
Lamar Smith (202) 366-8994

HEPN, Transportation Conformity & Air Quality
Cecilia Ho (202) 366-9862
Mike Savonis (202) 366-2080

HOFM, Freight Professional Development
Carol Keenan (202) 366-6993
Kate Quinn (202) 366-4241

HOFM, Commercial Vehicle Size and Weight
Tom Kearney (518) 431-4125 x218
John Nicholas (202) 366-2317

HPPI, Policy Information
David Winter (202) 366-0175

HOTM, Planning and Operations
Richard Backlund (202) 366-8333

HOS, Safety
Tamiko Burnell (202) 366-1200

<p>Technical Assistance & Training Specialty Areas</p>	<p>Environment (Continued)</p>
<p>Air Quality</p>	<ul style="list-style-type: none"> • Beyond Compliance: Historic Preservation in Transportation Project Development • Biological Assessments • Context Sensitive Solutions Course • Context Sensitive Solutions Workshop • Design and Implementation of Erosion and Sediment Control • Functional Assessment of Wetlands Course • Fundamentals and Abatement of Highway Traffic Noise • Highway Traffic Noise Workshop • Indirect and Cumulative Effects Analysis Workshop • National Environmental Policy Act (NEPA) Executive Briefing • NEPA and Transportation Decision-making • Soil Erosion/Sediment Control • Water Quality Management of Highway Runoff • Wetland Delineation
<ul style="list-style-type: none"> • CMAQ Program: Purpose And Practice • Estimating Regional Mobile Source Emissions • Implications of Air Quality Planning for Transportation • Introduction to Transportation/Air Quality Conformity • Mobile Source Air Toxics Course • Specialized Air Quality Workshops/Seminars 	<p>Environmental Justice</p>
<p>Border Planning</p>	<ul style="list-style-type: none"> • Environmental Justice and Project Development • Environmental Justice for MPOs Seminar • EJ/Title VI Technical Assistance • Fundamentals of Title VI/Environmental Justice Course
<ul style="list-style-type: none"> • Border Planning Technical Assistance 	<p>Financial Planning/Fiscal Constraint</p>
<p>Community Impact Assessment</p>	<ul style="list-style-type: none"> • Cost Estimation for Transportation Planning and Programming Seminar/Webinar • Financial Planning in Transportation Course • Fiscal Constraint/Financial Planning Technical Assistance • Fiscal Constraint Process Review Assistance • Fiscal Constraint Seminar/Webinar • Highway Program Financing Course • Specialized Innovative Finance Workshops/Seminars • Transportation Revenues 101 Seminar/Webinar
<ul style="list-style-type: none"> • Community Impact Assessment Course • Community Impact Assessment Seminar 	<p>Freight Planning</p>
<p>Congestion Management Process</p>	<ul style="list-style-type: none"> • Advanced Freight Planning Course • Engaging the Private Sector in Freight Planning Workshop and Webinar • Freight Analysis Framework (FAF II) Webinar • Freight Planning Technical Assistance • Freight Security Awareness Workshop and Self-Paced Web Primer • Integrating Freight in the Transportation Planning Process Self-Paced Web Course • Linking Freight to Planning and the Environment Course • Quick Response Freight Manual Technical Assistance • Transportation Planning for the Private Sector Webinar/Presentation • New Freight Courses/Workshops and Technical Assistance • Uses of Multimodal Freight Forecasting in Transportation Planning Course
<ul style="list-style-type: none"> • Congestion Management Process Technical Assistance • Congestion Management Process Workshop 	
<p>Data Products, Reporting and Applications</p>	
<ul style="list-style-type: none"> • Comprehensive Census Transportation Planning Products • Development and Implementation of Travel Surveys • Driver's License and Motor Vehicle Registration Workshop • Federal-aid Financing—Highway Information and Apportionment Factors, Understanding Your State's Fair Share • Financial Analysis System – Highways (FASH) Workshop • Highway Information Seminar • 2010 HPMS Reassessment Implementation • HPMS Software Training • HPMS Understanding its Purpose and Place • HPMS Workshop • Motor Fuel Workshop • National Household Travel Survey (NHTS) Technical Assistance • Planning Data Assistance • Traffic Data for HPMS Reporting • Traffic Monitoring: An Introduction • Traffic Monitoring Analysis System (TMAS) • Traffic Monitoring Guide Training Course • VTRIS and TVT Data, Understanding and Using 	
<p>Environment</p>	
<ul style="list-style-type: none"> • Section 4(f) Workshop • Section 7 Basic - Endangered Species Act • Section 7 Advanced—Interagency Coordination • Section 106 Historic Preservation Workshop • Section 10/404 - Clean Water Act • American Indian Best Practices 	

GIS and Planning/GIS and Environment	Public Involvement
<ul style="list-style-type: none"> • Applying GIS and Spatial Data Technologies to Transportation • GIS and Transportation Planning Technical Assistance • Linking Conservation and Transportation Planning • Transportation Planning Applications of Google Earth • Use of GIS within Environmental Streamlining & Stewardship • Using Visualization in Transportation Planning 	<ul style="list-style-type: none"> • Public Involvement in Transportation Decisionmaking Course • Public Involvement Workshop • Public Participation Plans Seminar/Webinar • Public Participation Plans Technical Assistance
Land Use and Transportation	Scenario Planning
<ul style="list-style-type: none"> • Forecasting Land Use Activity Seminar • Land Use and Transportation Planning Technical Assistance • Land Use and Transportation Planning Seminar/Webinar • Transportation and Land Use Course 	<ul style="list-style-type: none"> • Scenario Planning Technical Assistance • Scenario Planning Workshop
Performance Measures	Transportation Safety Planning
<ul style="list-style-type: none"> • Performance Measures for Transportation Planning Workshop/Webinar 	<ul style="list-style-type: none"> • Introduction to Transportation Safety Planning • Transportation Safety Planning Seminar/Webinar • Transportation Safety Planning Technical Assistance
Planning and Environment Linkages	Travel Demand Forecasting
<ul style="list-style-type: none"> • Linking Conservation and Transportation Planning 	<ul style="list-style-type: none"> • Introduction to Urban Travel Demand Forecasting Course • Introduction to Travel Demand Forecasting: A Webinar for FHWA Planners • Introduction to Travel Demand Forecasting: A Webinar for MPOS and DOTs • Multimodal Travel Forecasting Course • Statewide Travel Forecasting Workshop • Travel Demand Forecasting Seminar • Travel Demand Forecasting Technical Assistance • Travel Model Improvement Program (TMIP) Seminars and Webinars • Uses of Multimodal Freight Forecasting in Transportation Planning
Planning Fundamentals	Tribal Transportation Planning and Historic Preservation
<ul style="list-style-type: none"> • Administration of FHWA Planning Grants • General Planning Technical Assistance Introduction to Metropolitan Transportation Planning • Introduction to Statewide Transportation Planning • Metropolitan/Statewide Planning 101 Seminar/Webinar • Overview of Metropolitan Planning for MPO Board Members • State and Metropolitan Transportation Programming 	<ul style="list-style-type: none"> • Tribal Transportation Planning and Historic Preservation Technical Assistance
Planning and Operations	Peer Exchanges
<ul style="list-style-type: none"> • Advancing Regional Transportation Systems Management and Operations Course and Executive Session • Executive Session on Advancing Regional Transportation Systems Management and Operations • Congestion Management Process Workshop/Webinar • Congestion Management Process Technical Assistance • ITS Deployment Analysis System Course • Traffic Analysis Tools/Technical Support 	<ul style="list-style-type: none"> • Freight Peer-to-Peer Program • HPMS & Highway Inventory Data Peer-to-Peer • Transportation Planning Capacity Building Peer Program • Travel Model Improvement Program (TMIP) Peer • Reviews and TMIP Technical Roundtables
Planning Oversight and Stewardship	
<ul style="list-style-type: none"> • Planning Oversight and Stewardship Program Assistance 	

Technical Assistance & Training Descriptions

Air Quality

CMAQ Program: Purpose And Practice (NHI 142043) This NHI course explains the underlying principles and eligibility requirements of the Congestion Mitigation and Air Quality (CMAQ) program and provides an overview of project evaluation and selection practices. Length: 2 days. For more Information, go to www.nhi.fhwa.dot.gov.

Estimating Regional Mobile Source Emissions (NHI 152071) This NHI course provides an overview of travel demand forecasting models, emission factor models and travel related data requirements, travel model and emission factor model interactions and assessing transportation control measure (TCM) effectiveness and impacts on emissions. Length: 3.5 days. For more Information, go to www.nhi.fhwa.dot.gov or tmip.dot.gov.

Implications of Air Quality Planning for Transportation (NHI 142044) This NHI course explains how the integrated transportation and air quality planning process has been defined and reinforced over the past decade by regulations, guidance, and litigation. It provides a context for the various statutory and regulatory requirements, including a comprehensive review of the 1990 CAAA requirements, EPA policies related to transportation, and the process of developing SIPs. Length: 3 days. For more Information, go to www.nhi.fhwa.dot.gov.

Introduction to Transportation/Air Quality Conformity (NTI) Provides basic information about conformity requirements and the relationship of the transportation and air quality planning processes. Also highlights the roles and responsibilities in inter-agency coordination on air quality issues. Length: 3 days. For more Information, go to www.ntionline.com.

Mobile Source Air Toxics Course This course is for practitioners and managers who will be responsible for analyzing and modeling the mobile source air toxic impacts of transportation projects in the NEPA process. Length: 2 days. For more Information, contact robert.o'loughlin@dot.gov.

Specialized Air Quality Workshops/ Noise Workshops/Seminars Several workshops and seminars, of varying lengths, are available from the Resource Center's Air Quality Team, including: Introduction to Air Quality Analysis (AQ101), Mobile Source Emissions Modeling (MOBILE6.2, Introduction to MOVES), Micro-Scale Air Pollution Dispersion Modeling (Project Level Hot Spot Air Quality Modeling), Modeling Mobile Source Emissions Inventory (SIP Air Quality Analyses Methodologies), MSAT (Mobile Source Air Toxics) Evaluation Methodologies, PM Modeling Practices (including AP42

Methodologies), Air Quality Analyses for NEPA (National Environmental Policy Act) Projects, CMAQ (Congestion Mitigation and Air Quality) Program Overview, Estimating Air Quality Benefits from CMAQ Projects, Transportation Conformity 101, Modeling Mobile Source Energy/GHG (Greenhouse Gases), and Highway Traffic Noise Analysis. For more information, contact robert.o'loughlin@dot.gov.

Border Planning

Border Planning Technical Assistance Tailored to customer requirements (length and topics), Resource Center specialists provide technical assistance on border data and border planning issues. Length: Depends on customer needs. For more Information, contact lisa.randall@dot.gov.

Community Impact Assessment

Community Impact Assessment Course A how-to companion to FHWA's "Community Impact Assessment: A Quick Reference for Transportation" (the CIA small purple book). The course uses everyday projects as examples and includes an extensive reference of resources. Length: 2.5 days. For more information, contact brenda.kragh@dot.gov or HEP-TPCB Program (planning.dot.gov).

Community Impact Assessment Seminar Provides an overview of CIA, as an iterative process focusing on understanding the potential impacts of proposed transportation activities on affected communities and populations. Assessments focus on socio-economic and cultural impacts. Length: 2 days. For more information, contact klynn.berry@dot.gov.

Congestion Management Process

Congestion Management Process Technical Assistance Tailored to customer requirements (length and topics), Resource Center specialists provide technical assistance and reviews on a range of Congestion Management Process topics and issues. Length: Depends on customer needs. For more Information, contact ben.williams@dot.gov or brian.betlyon@dot.gov.

Congestion Management Process Workshop/Webinar This offering has been newly updated for SAFTEA-LU and the new CMP Guidebook. Tailored to audience requirements (length and topics), it provides an overview of the requirements and components of a Congestion Management Process, including the development of performance measures, identifying alternative solutions to manage congestion, prioritizing funding strategies, and highlighting noteworthy practices. Length: Varies. Full workshop is 1 day. Webinar 2-4 hours. For more Information, contact ben.williams@dot.gov or brian.betlyon@fwha.dot.gov.

Data Products, Reporting, and Applications

Comprehensive Census Transportation Planning Products (CTPP) Assistance. A wide variety of technical assistance and training opportunities are available on Census data products that can be used for transportation needs. Under this element a program of activities exists that can address any Census Data question or need. Be it a simple clarification of a data issue to an executive briefing on the program, or a multi-day workshop with hands on exercises, the CTPP staff can help. For more information, contact ed.christopher@dot.gov or elaine.murakami@dot.gov.

Development and Implementation of Travel Surveys (NHI 151034) Provides an overview of the development and implementation of the most common types of travel surveys, including: household travel and activity, vehicle intercept, transit on-board, commercial vehicle, work place and establishment, special generator, hotel/visitor, and parking surveys. Length: 3 days. Available: Course under Revision. For more information, go to www.nhi.fhwa.dot.gov

Driver's License and Motor Vehicle Registration Workshop Tailored to Federal, State and local finance data providers and users to describe the fundamentals for collecting, processing and using these data sets for the Federal-aid program. With increasing emphasis on data quality, proper review techniques and best practices, will be presented. Length: 1 day. Available: To be announced. For more information, contact gloria.williams@dot.gov.

Federal-aid Financing – Highway Information and Apportionment Factors, Understanding Your State's Fair Share Annually each State is apportioned Federal-aid funds for the various programs authorized within that State. Such apportionments cannot be distributed without the appropriate data reported by the States. The FHWA division staff play an important role in ensuring that State-reported data is of apportionment quality. Learn how you can ensure that your State's data and resulting share of Federal-aid are correct and accurate. Length: 5 days. For more information, contact ralph.erickson@dot.gov.

Financial Analysis System – Highways (FASH) Workshop Tailored to Federal, State, and local finance data providers and users to demonstrate data entry and the submittal process. The tool is used by data providers for data quality initiatives for use by FHWA, Congress and the public. FASH is a data base management system that captures the overall financial status of a state's highway program. Length: 1.5 days. For more information, contact clarissa.smith@dot.gov.

Highway Information Seminar Tailored to Federal, State, and local data providers and users to inform and discuss critical data issues including the reauthorized Federal-aid highway program,

data quality, data quality initiatives, and software improvements. Data areas include HPMS, travel monitoring, motor fuel, highway finance, drivers' licenses, vehicle registrations, and NHTS. Length: 4 days. For more information, contact marsha.reynolds@dot.gov.

Highway Performance Monitoring System (HPMS) Software Training Provide in depth technical training for the HPMS Software. This may be either hands-on training or through web conferencing. Topics include the HPMS submittal and review process using the HPMS Software as a tool. The intended audience is FHWA Division Planners, State HPMS coordinators, and MPOs. Length: 2-4 hours web conferencing or 1-2 days. For more information, contact tom.roff@dot.gov.

Highway Performance Monitoring System (HPMS) Workshop Discusses the latest issues in HPMS focusing on methods, procedures, and processes used for collection, coding, analyzing, and reporting annually highway-related data items. Each year, a new theme highlights the sessions chosen for that year's workshop. Previous workshops targeted data collection, partnering, and data quality, to name a few. Federal, State, and local applications and uses of HPMS data are also discussed. Audience is FHWA Division Planners, State HPMS Coordinators and Data Program Managers, MPOs/local agencies, and consultants. Length: 2-3 days. Available: Annually - February/March. For more information, contact david.winter@dot.gov.

2010 HPMS Reassessment Implementation Technical assistance is available to State and local agencies in implementing the changes in HPMS resulting from the 2010 HPMS Reassessment. This includes but is not limited to the new Data Model, data collection and reporting requirements, submittal procedures, data reviews and edits, and establishing and coordinating databases for HPMS submittals. This will be tailored to the specific request and can be provided in webinars, on site visits, or in conjunction with other training activities. For more information, contact fred.orloski@dot.gov

HPMS: Understanding its Purpose and Place Otherwise known as "HPMS 101," this session provides a basic overview of the HPMS program to those new to using highway system performance data at either the technical or management level. The requirements, needs, applications, structure, and quality assurance aspects of the HPMS will be discussed to provide an understanding of the program and to gain additional support and emphasis for quality data. Length: 4 hours to 1.5 days. For more information, contact david.winter@dot.gov.

Motor Fuel Workshop Tailored to Federal, State, and local motor fuel data providers and users to inform and discuss critical issues in data accuracy and attribution. Length: 1.5 days. For more information, contact ralph.erickson@dot.gov.

National Household Travel Survey (NHTS) Technical Assistance On-going training, technical assistance and user support is offered for the NHTS data. Training includes a tutorial on how to use the on-line analysis engine at <http://nhts.ornl.gov> to access the data from this valuable household travel data resource. Length: Self-paced or up-to 2 days. For more information, contact heather.contrino@dot.gov.

Planning Data Technical Assistance Data for transportation planning is a broad and vast area, and responding to individual needs can be very specific. Resource Center specialists provide tailored technical assistance (by topic and length) on a range of major data sources (including the American Community Survey), their current availability and future plans, and how they can be used for transportation planning. Specific assistance provided could be as simple as pointing to some more popular data sources to hosting a seminar on the best practices for doing a customized travel survey. Length: Depends on customer requirements. For more information, contact ed.christopher@dot.gov.

Traffic Data for HPMS Reporting Webinar Developed for FHWA Division staff and State DOT/MPO staff responsible for HPMS and Traffic Monitoring. Session outlines the importance of improved traffic monitoring and to promote an interaction between the HPMS and traffic professionals. Length: ½ day web conferencing. For more information, contact harshad.desai@dot.gov.

Traffic Monitoring, An Introduction Designed for those that are looking for a basic understanding of the various bits of information collected on highway traffic (i.e. traffic volume, vehicle classification, and truck weight). This course can either be offered as a web cast or delivered in person and is available for Federal, State, and MPO participants. Length: ½ day. For more information, contact harshad.desai@dot.gov.

Travel Monitoring Analysis System (TMAS) Assistance Technical Assistance provided to states using TMAS software. TMAS training will be most helpful to people involved with traffic data collection at the State who submit data for the monthly Traffic Volume Trends report. Length: Varies; Depends on customer requirements. For more information, contact steven.jessberger@dot.gov.

Traffic Monitoring Guide Training Course (NHI 151018) This NHI course provides an overview of the collection and application of traffic data including traffic volume, vehicle classification, and truck weight, and is available for state DOT, MPO, FHWA and consultant participants. In FY09, the course will be held at 2-3 locations yet to be determined. Length: 2 days. For more information, go to www.nhi.fhwa.dot.gov or contact harshad.desai@dot.gov.

Vehicle Travel Information System (VTRIS) and Traffic Volume Trends (TVT) Data, Understanding and Using This course presents an overview and hands-on tutorial of using these systems to better understand and use traffic volume, vehicle classification,

and truck weight data. The intended audience is State DOT traffic data providers, as well as FHWA Division contacts with oversight for traffic data. Length: ½- 1 day. For more information, contact david.jones@dot.gov.

Environment

Section 4(f) Workshop Provides an overview of section 4(f) focusing on the protection of parklands, recreation areas, wildlife and waterfowl refuges and significant historic sites. Intended for practitioners with some 4(f) experience. Length: ½ to 1 day. For more information, contact dave.gamble@dot.gov or david.grachen@dot.gov.

Section 7 Basic - Endangered Species Act Provides an overview of the Endangered Species Act (ESA) and the procedures and responsibilities associated with the Act. Reviews terms, roles and key sections of the Act. Length: 2 days. For more information, contact kevin.moody@dot.gov or brian.yanchik@dot.gov.

Section 7 Advanced - Interagency Cooperation Tailored to customer requirements, provides an advanced discussion on the Endangered Species Act (ESA), section 7—interagency cooperation. Topics include: ESA definitions, prohibited acts, biological assessments, biological opinions, incidental take statements. Length: 1 to 2 days. For more information, contact brian.yanchik@dot.gov.

Section 106 Historic Preservation Workshop Provides an introduction to the National Historic Preservation Act of 1966. Includes a step-by-step walk through of the Section 106 process when applied to Federal-aid projects. Suitable for staff involved in project development activities as well as planners and project engineers. Length: ½ day to 1 day. For more information, contact deborah.scherkoske@dot.gov or stephanie.stoermer@dot.gov.

Section 10/404 - Clean Water Act Provides a basic overview of the U.S. Army Corps of Engineers permitting process, with a focus on compliance and permitting requirements under the Clean Water Act Section 404 and the Rivers and Harbors Act Section 10. Length: 1 to 2 days. For more information, contact brian.yanchik@dot.gov.

American Indian Best Practices Provides the basic understanding of the need for formal consultation with federally recognized American Indian tribes and how to approach consultation with the tribes. Reviews applicable regulations and executive orders, definition of terms, cultural differences to consider and best practices. Length: 1 day. For more information, contact deborah.scherkoske@dot.gov.

Beyond Compliance: Historic Preservation in Transportation Project Development (NHI 1420049) This course is designed to help transportation professionals meet the new requirements of the Section 106 regulations and take advantage of the greater flexibility and autonomy offered by the recent revisions. The course focuses on the fundamentals of NEPA, Section 106, and Section 4(f) of the Department of Transportation Act, and provides techniques for coordinating transportation planning, project development and compliance with these three laws. The emphasis is on practical approaches for real-world situations and the importance of balancing stewardship and project delivery. Length: 3 days. For more information, go to www.nhi.fhwa.dot.gov.

Biological Assessments Provides biological and regulatory discussions and tips on preparing a Biological Assessment under the Endangered Species Act. Length: 1 day. For more information, contact william.vanpeters@dot.gov or brian.yanchik@dot.gov.

Context Sensitive Solutions Course (NHI 142050) Context sensitive solutions (CSS) – also known as context sensitive design – is a collaborative, interdisciplinary approach to a transportation project that involves stakeholders in the development of a transportation facility that equally addresses safety, mobility, and the preservation of scenic, aesthetic, historic, and environmental resources and community values. Benefits of the CSS process include effective and timely decisions, gaining public trust and support, building positive relationships with resource agencies, delivering safe and financially feasible project solutions, and improving the overall project delivery process. This course will provide participants with tools and techniques to effectively deliver timely and successful transportation projects. Length: 3 days. For more information, go to www.nhi.fhwa.dot.gov.

Context Sensitive Solutions Workshop Provides an overview of Context Sensitive Solutions (CSS) as a collaborative, interdisciplinary approach that involves all stakeholders to develop a transportation facility that fits its physical setting and preserves the scenic, aesthetic, historic and environmental resources while maintaining safety and mobility. Length: ½ day to 1 day. For more information, contact klynn.berry@dot.gov.

Design and Implementation of Erosion and Sediment Control (NHI 134054A) Provides an overview of the components of an erosion and sediment control plan, lists sources for the plan, identifies management practices and measures for typical situations, reviews typical construction and inspection problems and strategies and reviews federal and state regulations in this area. Length: 2 days. For more information, go to www.nhi.fhwa.dot.gov.

Functional Assessment of Wetlands (NHI 142018A) Provides an introduction to assessing wetlands impacts and mitigation planning based on hydro geomorphic principles of wetlands analysis. Length: 4 days. For more information, go to www.nhi.fhwa.dot.gov.

Fundamentals and Abatement of Highway Traffic Noise (NHI 142007) This course covers the requirements of 23 CFR Part 772, Procedures for Abatement of Highway Traffic Noise and Construction Noise, and the noise requirements of the National Environmental Policy Act of 1969. The course provides both technical and policy training. Length: 3 days. For more information, go to www.nhi.fhwa.dot.gov.

Highway Traffic Noise Workshop Provides a basic understanding of highway traffic noise, the FHWA noise regulations, and the noise abatement requirements for FHWA funded or approved transportation projects. Workshop can be tailored. Length: 1 to 2 days. For more information, contact maryann.rondinella@dot.gov or stephanie.stoermer@dot.gov.

Indirect and Cumulative Effects Analysis Workshop This workshop provides an overview of the requirements and methodologies used to analyze the indirect and cumulative effects of transportation projects. Covers terminology, regulations and court cases pertaining to these analyses. The workshop can be tailored to include local case studies. Length: 1 to 2 ½ days. For more information, contact lamar.smith@dot.gov, kevin.moody@dot.gov, or brian.smith@dot.gov.

National Environmental Policy Act (NEPA) Executive Briefing Provides an overview of the FHWA project development process, emphasizing topics such as innovative mitigation and enhancement, significance, streamlining, reasonable alternatives, logical termini, purpose and need, interagency coordination and public involvement. Includes background on NEPA, the processing of environmental documents and a brief overview of the Section 4(f) regulation (if desired). Length: ½ day to 2 days. For more information, contact RC-Environment Team.

NEPA and Transportation Decisionmaking (NHI 142005) This course considers FHWA's policies and procedures for applying the National Environmental Policy Act (NEPA) to the project development and decisionmaking processes related to transportation facilities. The course examines the evolution of environmental policy and the integration of social, environmental and economic factors into the framework of laws, regulations, policies, and guidance, which assist in achieving a decision on a transportation project that is in the best overall public interest. Length: 3 days. For more information, go to www.nhi.fhwa.dot.gov.

Soil Erosion/Sediment Control Provides an overview of soil erosion and sediment processes, planning, site evaluations, laws and regulations. Length: 1 to 2 days. For more information, contact brian.smith@dot.gov or dave.sullivan@dot.gov.

Water Quality Management of Highway Runoff (NHI 142047)

The intent of this course is to provide a basic understanding of water quality parameters, processes, requirements, and best management practices (BMPs) in order to provide the transportation community with guidance on how to mitigate impacts and protect water quality. Length: 2 days. For more information, go to www.nhi.fhwa.dot.gov.

Wetland Delineation Provides a basic overview on the application of the 1987 Wetland Delineation Manual in use by the Army Corps of Engineers. Length: 3 to 5 days. For more information, contact brian.smith@dot.gov or william.vanpeters@dot.gov.

Environmental Justice

Environmental Justice and Project Development

Tailored to audience requirements (length and topics), provides an overview of Title VI and Executive Order 12898 requirements and environmental justice objectives with particular focus on NEPA and the transportation decision-making process. Length: ½ day to 1.5 days. For more information, contact klynn.berry@dot.gov, or katiann.wong-murillo@dot.gov.

Environmental Justice for MPOs Seminar

Tailored to audience requirements (length and topics), provides an overview of Title VI and Executive Order 12898 requirements and environmental justice objectives with particular focus on MPO issues and analytical approaches to assess compliance in metropolitan plans and programs. Length: 2-8 hours. For more information, contact brian.bettyon@dot.gov.

Environmental Justice/Title VI Technical Assistance

Tailored to customer requirements (length and topics), Resource Center specialists provide technical assistance related to EJ/Title VI issues and the transportation planning process. Length: Depends on customer needs. For more information, contact brian.bettyon@dot.gov or jocelyn.jones@dot.gov.

Fundamentals of Title VI/Environmental Justice (NHI 142042)

Provides an overview of Title VI and Executive Order 12898 requirements and a framework for using a variety of approaches and tools for accomplishing environmental justice goals with transportation objectives. Length: 2 days. For more information, go to www.nhi.fhwa.dot.gov.

Financial Planning/ Fiscal Constraint

Cost Estimation for Transportation Planning and Programming Seminar/Webinar

Provides an overview of issues related to cost estimation at the stage of long range planning and program development, and is delivered either as an in-person seminar or as a webinar. Reviews federal fiscal

constrain requirements pertaining to costs and highlights notable MPO and State DOT practice. Length: Varies, depending on format. For more information, contact: ralphj.rizzo@fhwa.dot.gov.

Financial Planning in Transportation Course (NTI)

Provides an overview of financial planning in support of the development of transportation plans and programs as well as information on the process and the types of analyses associated with developing forecasts over the planning horizons. Length: 3 days. For more information, go to www.ntionline.com.

Fiscal Constraint/Financial Planning Technical Assistance

Tailored to customer requirements (length and topics), Resource Center specialists provide technical assistance related to fiscal constraint/financial planning, including topics related to revenues, costs and operations and maintenance. Length: Depends on customer needs. For more information, contact: ralphj.rizzo@fhwa.dot.gov.

Fiscal Constraint Process Review Assistance Customized technical assistance to FHWA Division Offices and FTA Region office partners in assessing compliance with fiscal constraint requirements for transportation plans and programs. Review would focus on the State DOT and development of the Statewide Transportation Improvement Program, multimodal plans, major projects and cost estimation techniques. Additional topics might include cooperative forecasting processes with MPOs and public involvement opportunities. Length: Depends on customer needs. For more information contact ralphj.rizzo@dot.gov or brian.bettyon@dot.gov.

Fiscal Constraint Seminar/Webinar - Provides an overview of practices designed to ensure the development of fiscally-constrained plans and programs for transportation agencies, and is delivered either as an in-person seminar or as a webinar. The session reviews fiscal constraint regulations and highlights revenue forecasting/cost estimation processes and tools; as well as, reviews examples of noteworthy practices. The target audience is FHWA/FTA, MPO and State DOT planners. Length: Varies, depending on format. For more information, contact ralphj.rizzo@dot.gov or brian.bettyon@dot.gov.

Highway Program Financing (NHI 152072) This course covers the various aspects of Federal-aid highway financing unique to the FHWA program. Length: 2 days. For more information, go to www.nhi.fhwa.dot.gov

Specialized Innovative Finance Workshops/Seminars Several workshops and seminars, of varying lengths, are available from the Resource Center's Finance Team focusing on a review of traditional transportation funding sources and discussions of TIFIA, GARVEEs, RVEEs, public-private partnerships, etc. Length: Varies. For more information, contact thay.bishop@dot.gov

Transportation Revenues 101 Seminar/Webinar Provides an overview of federal fiscal constraint requirements pertaining to transportation revenues for both long range plans and programs, and is delivered either as a in-person seminar or as a webinar. Reviews a range of revenue sources including federal, state, local and innovative finance. Discusses notable practices by MPOs and DOTs and highlights effective approaches for revenue documentation. Length: Varies, depending on format.. For more information, contact: ralphj.rizzo@fhwa.dot.gov.

Freight Planning

Advanced Freight Planning (NHI 139003) This course expands on freight topics covered in other FHWA-developed freight planning courses to provide techniques and strategies designed for those individuals directly involved in the implementation of transportation planning, programming and allocation of resources. It provides participants with the skills needed to identify, prioritize, develop and implement freight supportive projects. This is an advanced level course and it focuses heavily on resources and solutions, and how those solutions can be applied to developing plans and programs for public and private sectors. Prerequisite: Integrating Freight in the Transportation Planning Process Self-Paced or Instructor Led NHI Course. Length: 2 days. For more information, go to www.nhi.fhwa.dot.gov.

Engaging the Private Sector in Freight Planning Workshop and Webinar Provides strategies and techniques to initiate private-public sector cooperation, identifies key private sector stakeholders, and suggests ways to improve communication. Successful approaches employed at several State departments of transportation (DOTs) and Metropolitan Planning Organizations (MPOs) are also discussed. Length: 1 day in person workshop or 2 hour webinar. For more information, contact jocelyn.jones@dot.gov

Freight Analysis Framework (FAF/II) Webinar FHWA has released truck flow data over the national highway network as part of the Freight Analysis Framework (version II). These data include the Freight Analysis Framework Highway Network and link specific FAF truck, non FAF truck, AADT, and link specific volume capacity ratio data for year 2002 and 2035. The Freight Analysis Framework also includes Origin-Destination Database estimates of tonnage and value of goods shipped by type of commodity and mode of transportation for 114 domestic and 7 international trading regions and incorporates models to assign the detailed flows to individual highways. This two hour webinar describes the content of the underlying data, along with the strengths and limitations for 'real world' application. For more information, contact eric.pihl@dot.gov.

Freight Planning Technical Assistance Tailored to customer requirements (length and topics), Resource Center specialists provide freight planning technical assistance on a range of issues, including freight studies, private sector involvement,

freight and land use, and data and forecasting. Length: Depends on customer needs. For more information, contact jocelyn.jones@dot.gov, eric.pihl@dot.gov or ralphj.rizzo@fhwa.dot.gov

Freight Security Awareness Workshop and Self-Paced Web Primer

Provides an overview of transportation security and freight security issues and roles, from a planning and operations perspectives. Highlights security initiatives and focuses on how transportation agencies can incorporate security-related issues and programs within their traditional, day-to-day transportation planning and operations activities. A complementary freight security awareness primer is available online. Length: 1 day in person workshop. Primer is self-paced and takes approximately 1 to 2 hours. For more information, contact fawn.thompson@dot.gov, chung.tran@dot.gov; or crystal.jones@dot.gov

Integrating Freight in the Transportation Planning Process Self-Paced Web Course (NHI 139006)

This is the self-paced web version of the NHI course on the same topic that was previously instructor led. This course provides participants with a greater understanding of the various stakeholders, trends, and issues associated with freight transportation. It also addresses a challenge many transportation planners in the public sector face: how to best incorporate varying perspectives on freight in a way that results in safe and efficient transportation system for both people and goods. After completion, participants will be better prepared to incorporate freight considerations into their respective transportation planning processes and programs. Length: Web-based days. For more information, go to www.nhi.fhwa.dot.gov.

Linking Freight to Planning and the Environment (NHI139005)

Provides transportation, environmental, and freight planners and engineers in both the public and private sectors with skills to better integrate freight and environmental considerations throughout the planning, programming, and project development processes. Through case studies and hands-on exercises, the course teaches participants how to incorporate freight and environmental considerations into their existing polices and activities and helps to mainstream freight and environmental elements with State DOTs, MPOs, and other organizations. Length: 2 days. For more information, go to www.nhi.fhwa.dot.gov.

Quick Response Freight Manual Technical Support A

updated version of the QRFM was released in early 2008. This report is a valuable research for those agencies seeking to implement freight analytical procedures that are useful for both planning and project development activities. For more information, contact eric.pihl@fhwa.dot.gov.

Transportation Planning for the Private Sector

Webinar/Presentation Targeted to State DOTs and MPOs, this webinar/presentation provides a high level overview of the public sector transportation planning process for private sector stakeholders with the goal of fostering awareness and encouraging collaboration on freight issues and projects. Length: Up to 2 hours. For more information, contact jocelyn.jones@dot.gov.

Upcoming New Freight Courses/Workshops and Technical Assistance Offerings Several new freight workshops are under development and many of these will be available for delivery in FY09, including: Freight Data Made Simple and a Financing Freight Improvements Seminar. A new NHI course, Commercial Motor Vehicle Size and Weight, will also be available in FY09. Length: Varies.. Available: Varying dates in late calendar year 2008. For specific information on the content and projected timelines for any of these new freight offerings, please check the Office of Freight Management and Operations' website at ops.dot.gov/freight or contact carol.keenan@dot.gov.

Uses of Multimodal Freight Forecasting in Transportation Planning (NHI 139002) Provides an overview of freight forecasting and the techniques for forecasting freight at the metropolitan and state levels, examines the factors that influence economic growth and distribution of freight traffic, and reviews notable practices. Length: 3 days. For more information, go to www.nhi.fhwa.dot.gov.

GIS and Planning/ GIS and Environment

Applying GIS and Spatial Data Technologies to Transportation (NHI - 151039) Provides an overview of transportation applications that can use today's major spatial data technologies and trains participants on how to implement these applications from a planning perspective. Length: 2 days. For more information, go to www.nhi.fhwa.dot.gov.

Linking Conservation and Transportation Planning An opportunity for transportation and conservation planners to develop relationships, learn about each other's processes and data needs, find ways to improve existing processes as they currently exist, and support the integration of environmental considerations into transportation planning process. Included in this workshop is discussion of GIS based tools to aid in linking these two areas. Length: 2 days. For more information, contact rebecca.lupes@dot.gov.

GIS and Transportation Planning Technical Assistance Tailored to audience requirements (topics and length), Resource Center specialists provide technical assistance on spatial data technologies and how these can be used to enhance transportation planning. Length: Depends on customer requirements. For more information, contact ben.williams@dot.gov or brian.betlyon@dot.gov.

Transportation Planning Applications of Google Earth

Tailored to audience requirements (topics and length). Provides technical assistance on using Google Earth for transportation planning. Length: Depends on customer requirements. For more information, contact mark.sarmiento@dot.gov.

Use of GIS within Environmental Streamlining and Stewardship Tailored to audience requirements (topics and length), provides a general overview of spatial data technologies and how these can be used to enhance environmental decision-making and streamlining. Length: 2 hours to 1.5 days. For more information, contact ben.williams@dot.gov or kimberly.majerus@dot.gov.

Using Visualization in Transportation Planning Seminar

Tailored to customer needs, this seminar covers the visualization requirements of SAFETEA-LU, the latest in visualization technology and examples of how States and MPOs are incorporating the technology in their programs. Length: two to four hours. For more information, contact ben.williams@dot.gov.

Land Use and Transportation

Forecasting Land Use Activity Seminar Offered through the Travel Model Improvement Program (TMIP), this seminar explains and demonstrates methods and data sources for forecasting the nature and amount of land using activities, specifically, population, dwelling units, basic employment and services employment. Length: 1 day. For more information, go to tmip.dot.gov.

Land Use and Transportation Planning Seminar/Webinar Provides an overview of key issues related to the interaction of transportation planning and land use and the integration of transportation plans with local and state land use plans, with focus on innovative techniques, approaches and applications. Delivered as an in-person seminar or shorter webinar. Length: Varies. 1 day in person seminar or 2-4 hour webinar. For more information, contact jim.thorne@dot.gov.

Land Use and Transportation Planning Technical Assistance Tailored to audience requirements (topics and length), Resource Center specialists provide technical assistance on land use issues as they relate to transportation planning, including sub-topics such as: transportation characteristics of land use patterns, agency roles and responsibilities, and developing land use and transportation plans. Length: Depends on customer requirements. For more information, contact jim.thorne@dot.gov or brian.betlyon@dot.gov.

Transportation and Land Use Course (NTI/NHI 151043)

Provides an overview of transportation and land use planning and how they can and should interact. The course trains participants to actively participate in the development of transportation systems that support desired land uses, as well as help shape land uses that support the transportation system. Length: 3 days. For more information, go to www.nhi.fhwa.dot.gov or www.ntionline.com.

Performance Measures

Performance Measures for Transportation Planning

Workshop/Webinar With increased public demand for accountability, limited funding for transportation, there is a new emphasis on the use of the performance measurement in the transportation planning process. This workshop/webinar on transportation planning performance measurement is designed primarily for planning and programming personnel at State departments of transportation, metropolitan planning organizations and local planning agencies. Length: 1 day in person workshop or 2 hour webinar. For more information, contact brian.betlyon@dot.gov or ed.christopher@fhwa.dot.gov

Planning and Environmental Linkages

Linking Conservation and Transportation Planning An opportunity for transportation and conservation planners to develop relationships, learn about each other's processes and data needs, find ways to improve existing processes as they currently exist, and support the integration of environmental considerations into transportation planning process. Included in this workshop is discussion of GIS based tools to aid in linking these two areas. Length: 2 days. For more information, contact rebecca.lupes@dot.gov.

Planning Fundamentals

Administration of FHWA Planning Grants (NHI-151021)

Provides an overview of the responsibilities and relationships among Federal, State, and local agencies involved in administration of FHWA planning grants to States and State subgrants to Metropolitan Planning Organizations (MPOs) and local governments. Length: 1.5 days. For more information, go to www.nhi.fhwa.dot.gov.

Introduction to Metropolitan Transportation Planning

(NHI/NTI – 152069) Provides a general introduction and overview of the metropolitan transportation planning process, including basic concepts, products, and federal requirements. Length: 3 days. For more information, go to www.nhi.fhwa.dot.gov or www.ntionline.com.

Introduction to Statewide Transportation Planning

(NHI/NTI - 151038) Provides an overview of the statewide transportation planning process including tools, methods and best practices. Length: 2 days. For more information, go to www.nhi.fhwa.dot.gov or www.ntionline.com.

Metropolitan or Statewide Planning 101 Seminar/Webinar

Tailored to audience requirements (topics and length), provides an overview of the basic concepts, components, and participants in the metropolitan planning and/or statewide planning process. Also highlights innovative and noteworthy practices. Length: Varies. Can be delivered in person or as webinar. For more information, contact RC Planning Team.

Overview of Metropolitan Planning for MPO Board

Members Targeted for MPO Board members, provides an overview of the basic concepts, components, and participants in the metropolitan planning process. Length: 90 minutes. For more information, contact kenneth.petty@dot.gov.

State and Metropolitan Transportation Programming

Course (NTI) Provides an overview of the basic concepts, components, and participants in the transportation programming process. Length: 3 days. For more information, go to www.ntionline.com.

General Planning Technical Assistance

Planning technical assistance in general metropolitan and statewide planning issues as well as planning specialty areas is available to Division Offices and their partner agencies. This will be tailored and targeted to the specific request. Length: Based on customer requirements. For more information, contact the Resource Center Planning Team lisa.randall@dot.gov.

Planning and Operations

Advancing Regional Transportation Systems Management

and Operations (NHI 133098) This NHI course covers important institutional aspects necessary for advancing transportation system management and operations in a regional context, including: (1) regional transportation operations collaboration and coordination activities; (2) enhanced levels of operations considerations in the regional transportation planning process; and (3) improved linkage opportunities between planning and operations. Length: 1 day. For more information, go to www.nhi.fhwa.dot.gov.

Executive Session on Advancing Regional Transportation Systems Management and Operations

Provides an executive level overview to raise awareness of transportation managers and decision-makers on the need for improved levels of regional transportation operations planning and collaboration activities. Length: 1- 2 hours. For more information, contact richard.backlund@dot.gov.

Congestion Management Process Workshop /Webinar

This offering has been newly updated for SAFTEA-LU and the new CMP Guidebook. Tailored to audience requirements (length and topics), it provides an overview of the requirements and components of a Congestion Management Process, including the development of performance measures, identifying alternative solutions to manage congestion, prioritizing funding strategies, and highlighting noteworthy practices. Length: Varies. Full workshop is 1 day. Webinar 2-4 hours. For more information, contact ben.williams@dot.gov or brian.betlyon@fwaha.dot.gov.

Congestion Management Process Technical Assistance

Tailored to customer requirements (length and topics), Resource Center specialists provide technical assistance and reviews on a range of Congestion Management Process topics and issues. Length: Depends on customer needs. For more information, contact ben.williams@dot.gov or brian.betlyon@dot.gov.

ITS Deployment Analysis System (NHI 137041)

This updated course is a hands-on computer training session on the ITS Deployment Analysis System (IDAS) software. IDAS is a sketch-planning analysis tool that transportation practitioners can use to estimate the benefits and costs of ITS and operations investments. IDAS offers the capability for a systematic assessment of ITS and operational improvements with a single analysis tool, and can predict relative costs and benefits for more than 60 types of ITS and operations investments. Length: 2 days. For more information, contact harlan.miller@dot.gov or go to www.nhi.fhwa.dot.gov.

Traffic Analysis Tools/Technical Support The Traffic Analysis Tools Team – comprised of FHWA operations and modeling specialists – is available to support the implementation of both simulation and ‘sketch’ based analytical methods for evaluating the impacts of ITS and traffic operations improvements. Market ready operations planning tools supported by FHWA include DynusT and IDAS. For more information, contact eric.pihl@fhwa.dot.gov.

Planning Oversight and Stewardship

Planning Oversight and Stewardship Program Assistance

Planning program area assistance is available to Division Offices in scoping and/or conducting reviews associated with stewardship and oversight of metropolitan and statewide transportation planning processes/programs (e.g., Transportation Management Area certification reviews, Statewide planning process/program reviews, or other associated process/program reviews). Length: As deemed necessary. For more information, contact harlan.miller@dot.gov.

Public Involvement

Public Involvement in Transportation Decisionmaking

(NHI/NTI - 142036) Provides an in-depth review of the various components of public involvement in transportation decision-making, as well as specific skills, techniques and approaches for enhancing public interaction. Length: 3 days. For more information, go to www.nhi.fhwa.dot.gov and www.ntionline.com

Public Involvement Workshop Provides an overview of the importance of public involvement and reviews multiple public involvement techniques. Addresses the public’s procedural, psychological and substantive needs with a focus on communication styles and barriers to participation. Length: 2 days. For more information, contact klynn.berry@dot.gov.

Public Participation Plans Seminar/Webinar: Public Participation is a fundamental component of effective transportation planning. The focus on this seminar/webinar is on new SAFETEA-LU requirements relating to Public Participation Plans, interested parties, and visualization. Notable practices from State DOTs and MPOs are presented. Length: Varies. Can be delivered in person or as a webinar. For more information, contact jocelyn.jones@dot.gov or fawn.thompson@dot.gov.

Public Participation Plan Technical Assistance Tailored to customer requirements (length and topics), Resource Center specialists provide technical assistance on Public Involvement and Public Participation, including SAFETEA-LU requirements relating to public participation plans and interested parties. Length: Depends on customer needs. For more information, contact jocelyn.jones@dot.gov, brenda.kragh@dot.gov or fawn.thompson@dot.gov.

Scenario Planning

Scenario Planning Technical Assistance Tailored to customer requirements (length and topics), Resource Center specialists provide technical assistance on scenario planning, including an overview of scenario planning and how it provides a framework for developing a shared vision for the future by analyzing various forces (e.g., health, transportation, economic, environmental, land use, etc.) that affect growth. Reviews how different software packages can be used to test various future alternatives that meet state and community needs. Length: Depends on customer needs. For more information, contact brian.betlyon@dot.gov or jim.thorne@dot.gov

Scenario Planning Workshop: Scenario planning is a process in which transportation professionals and citizens work together to analyze and shape the long-term future of their communities. Using a variety of tools and techniques,

participants in scenario planning assess trends in key factors such as transportation and congestion, land use, safety, demographics, health, economic development, and the environment. Workshop presenters include peers who provide participants with an overview of the scenario planning process and share examples of scenario planning efforts. FHWA Headquarters and the Resource Center staff provide an overview of current methods and tools, and information about practices around the country. Length: Varies. For more information, contact brian.betlyon@dot.gov, jim.thorne@dot.gov or frederick.bowers@dot.gov.

Transportation Safety Planning

Introduction to Transportation Safety Planning – Planning it Safe (NTI/NHI 151042) This course is designed to identify opportunities for improving the manner in which safety is integrated as a key planning factor and performance measure in all transportation plans and projects. Length: 2 days. For more information go to www.nhi.fhwa.dot.gov or www.ntionline.com.

Transportation Safety Planning Seminar/Webinar Tailored to audience requirements (topics and length), provides an overview of innovative techniques and approaches for successfully integrating safety in the transportation planning process. Length: 1 day in person seminar. Webinar 2-4 hours. For more information, contact jim.thorne@dot.gov.

Transportation Safety Planning Technical Assistance Resource Center specialists provide technical assistance on transportation safety planning and work with state, MPO and Division staff to explore opportunities for enhancing consideration of safety in the planning process. Length: Depends on customer requirements. For more information, contact jim.thorne@dot.gov.

Travel Demand Forecasting/Modeling

Introduction to Travel Demand Forecasting: A Webinar for FHWA Planners A two hour web-based version of the one-day workshop on travel forecasting targeted to the needs of FHWA field planners. The Field Planners Travel Demand Modeling Workshop is organized around the “Checklist for Travel Forecasting Methods” used in federal certifications reviews. This interactive session will help field planners understand: why travel demand modeling is important, how to assess the health of a model, and how to assure a healthy model is properly applied. Length: 2 hours For more information contact eric.pihl@dot.gov

Introduction to Travel Demand Forecasting: A Webinar for MPOs and DOTs A 2- hour web-based version of the one-day workshop on travel forecasting targeted to “customers” of travel forecasts at state and local agencies. The webinar discusses the key properties and characteristics of models – including attributes of models considered by federal certifications reviews. The overall focus is on applications of models, data needs, and steps taken to evaluate model outputs used for a variety of planning needs. Length: 2 hours For more information contact eric.pihl@dot.gov

Introduction to Urban Travel Demand Forecasting (NHI - 152054) Provides an overview of the traditional four-step planning process of trip generation, trip distribution, mode choice and traffic assignment. Also reviews the development of land use forecasts, network and zone structures and use of Geographic Information Systems. Length: 4 days. For more information, go to www.nhi.fhwa.dot.gov and tmjp.dot.gov.

Multimodal Travel Forecasting Course (NTI) Provides an overview of multimodal travel forecasting, techniques and approaches. Reviews available data and procedures. Length: 3 days. For more information, go to www.ntionline.com.

Statewide Travel Forecasting Workshop Provides State DOT, MPO, and other transportation planning practitioners an overview of statewide travel demand forecasting models, how these models are used to analyze transportation issues and policies at the State level and the interaction with MPO travel demand models. This workshop also provides information and insight to State DOTs that are considering the development or revision of these models. Length: 1 day. For more information, contact eric.pihl@dot.gov.

Travel Demand Forecasting Seminar Tailored to audience requirements (topics and length), provides a general overview of travel demand forecasting, especially the traditional four-step model. Reviews the uses and applications of forecasts for planning purposes and highlights noteworthy practices and techniques. Length: 1 day. For more information, contact eric.pihl@dot.gov or brian.betlyon@fhwa.dot.gov.

Travel Forecasting Technical Assistance Tailored to customer requirements (length and topics), Resource Center staff are available for technical support on issues related to the application of travel forecasting methods. Assistance provided to state, regional and local agencies on the incorporation of model QA/QC procedures, model validation, data collection efforts, and analytical reporting of model outputs. RC staff are also available to review technical workplans and can provide recommendations on appropriate analytical methods for planning studies ranging from traditional 4-step models to sketch planning-based methodologies. For more information, contact eric.pihl@fhwa.dot.gov, brian.betlyon@dot.gov or jim.thorne@dot.gov.

Travel Model Improvement Program Seminars and Webinars The Travel Model Improvement Program (TMIP) periodically hosts seminar and webinars on topics relevant to transportation planners and modelers. Previous webinar offerings have focused on data needs, trip distribution techniques, and a case study of the Transims regional simulation model. TMIP Seminars include: Activity and Tour Based Forecasting Seminar (reviews activity and tour-based modeling procedures developed around the U.S. and abroad and identifies key areas of research interest); Forecasting Land Use Activity (describes land use models and land-use allocation procedures used in standard practice – including a discussion of advanced and emerging practices); Model Calibration, Validation and Reasonableness Checking (describes procedures for estimating, calibrating and validating travel models). TMIP also provide funding and assistance for peer reviews of models for those agencies seeking suggestions on how to improve their models. For more information, go to tmip.dot.gov or contact sarah.sun@dot.gov.

Uses of Multimodal Freight Forecasting in Transportation Planning (NHI 139002) See Freight Section for description.

Tribal Transportation Planning and Historic Preservation

Tribal Transportation Planning and Historic Preservation Technical Assistance Tribal technical assistance related to Tribal consultation requirements and notable practice is available at both the transportation planning- and project-levels. Specific areas include statewide and metropolitan transportation planning and programming and historic preservation related to Section 106 of the National Historic Preservation Act. In addition to technical assistance, presentations and other resource materials are also available. For more information, contact theresa.hutchins@dot.gov, lorrie.lau@dot.gov, maryann.naber@dot.gov, kenneth.petty@dot.gov, ralphj.rizzo@dot.gov, deborah.scherkoske@dot.gov, or fawn.thompson@dot.gov.

Peer Exchange Descriptions

Peer Exchanges are available through the following programs: Travel Model Improvement Program (TMIP), Freight, HPMS, and Other Planning Areas (through the Transportation Planning Capacity Building Program). The Peer Exchange provides transportation agencies a forum to share ideas and noteworthy practices not only to strengthen transportation planning practices, but also to build relationships and reinforce cooperation between agencies.

Freight Peer-to-Peer Program--Facilitates information sharing between public sector freight transportation professionals and provides an opportunity for public sector freight professionals to learn from their peers, the Freight P2P Program identifies and

expands State and regional noteworthy practices in the freight transportation field and builds relationships, understanding, and cooperation among key stakeholders. The Freight P2P Program provides targeted, customized technical assistance on a wide variety of freight issues related to planning and operations. Length: Varies. For more information, contact Kate.Quinn@dot.gov or 202-366-4241.

HPMS and Highway Inventory Data Peer-to-Peer Program

--Provides a forum for the exchange of expertise and experiences from practitioners and experts on these subjects and specific issues. Highway inventory and other databases that traditionally support HPMS, including relationships, integration, and quality assurance issues will be the focus of these sessions. Other topics may include building effective partnerships, sharing resources for data collection, and management support. Travel resources to facilitate face-to-face meetings and support to help organize and facilitate meaningful sessions may be available. Length: Varies. For more information, contact Fred.Orloski@fhwa.dot.gov.

Transportation Planning Capacity Building Peer Program

--Designed to bring together practitioners from a variety of experiences and levels of expertise in a spirit of partnership and teamwork. This program can be viewed on the web at www.planning.dot.gov. The website contains information on how to apply as well as a summary of prior Peer Exchange activities. Length: varies. For more information, contact HEP-TPCB Program (planning.dot.gov).

TMIP Peer Review Program and TMIP Technical Roundtables

--The Travel Model Improvement Program (TMIP) offers a peer review program focused on forecasting and data collection procedures to assist with model development and improvement efforts. TMIP supports peer reviews by funding travel, lodging and per diem for site visit(s) by peer review panel members. TMIP can also assist in the selection of peer review panel members and can help document the review, if requested, by the sponsoring agency. TMIP also periodically holds forums where experts in a particular area share ideas and discuss an emerging technical issue. Discussion results are disseminated via the TMIP website. Length: Varies. For more information, go to tmip.dot.gov or contact sarah.sun@fhwa.dot.gov.