Workshop on
Integrating Transportation Information

U.S. Department
of Transportation

Federal Highway Administration

Purpose of Workshop

Our transportation world is constantly changing. Transportation professionals are being asked to deal with continually changing environments, while taking a more enterprise-level approach. The purpose of this FHWA-sponsored workshop is to introduce transportation professionals, from state and local transportation agencies in particular, to the basic concepts of developing, implementing, and maintaining an Integrated Transportation Information System (ITIS). An ITIS is the fusion of all transportation information systems into a single and comprehensive information system architecture, to best support transportation agency business purposes. In the context of the business functions of a transportation agency, the workshop also presents applications of an ITIS, and the associated enabling technologies.

Workshop Topics

The workshop explains the benefits of integrating information, and practical aspects of building an ITIS. It reviews the changing needs of agencies, and introduces available tools, techniques, methodologies, and frameworks to aid in establishing a more integrated information environment.

Organization of Workshop

There are three distinct sessions to DP 113. The first session is for the Executive Management Team. It consists of a 30 minute Executive Briefing. The second session is a half day workshop for managers. Managers will receive information on the implementation of an ITIS, and on how to evaluate the status of ITIS within an agency. The Executive Briefing will summarize the Managers Workshop, with additional emphasis on the benefits of ITIS to an agency.

Based on the recommendations received in the Managers Workshop, a third session is typically set up at a later date for practitioners. This more technical session consists of a 1 or 2 day workshop to discuss specific information management needs, interests, and opportunities. Each of these sessions will be customized to the host agency's particular needs.

Free Workshop Delivered at Your Agency

This workshop is sponsored by the FHWA Office of Technology Applications (OTA), Washington DC. The workshops will be presented to requesting agencies across the U.S. This workshop will be made available at *no cost* to transportation agencies.

Who Should Attend?

Executive Briefing (30 minutes)

- Transportation Executives, e.g., CEO, DOT Secretary

Managers Workshop (1/2 day)

- Mid-level and Upper Management

Implementation Workshop (2 days)

- Systems Implementors
- Technical Staff
- Transit, Rail, Air, and MPO Professionals

To Host a Workshop, Contact:

Your local Federal Highway Administration Office.

Call and arrange a date for the workshop to be given at your agency.

For Further Information, Contact:

Vinnie Nowakowski
Office of Technology Applications
Federal Highway Administration
(HTA-30)
400 Seventh St. SW, Room 6311
Washington, DC 20590

Phone: (202) 366-8037
Fax: (202) 366-7909

TECHNOLOGY APPLICATIONS

ITIS Workshop

U.S. Department of Transportation

Federal Highway Administration
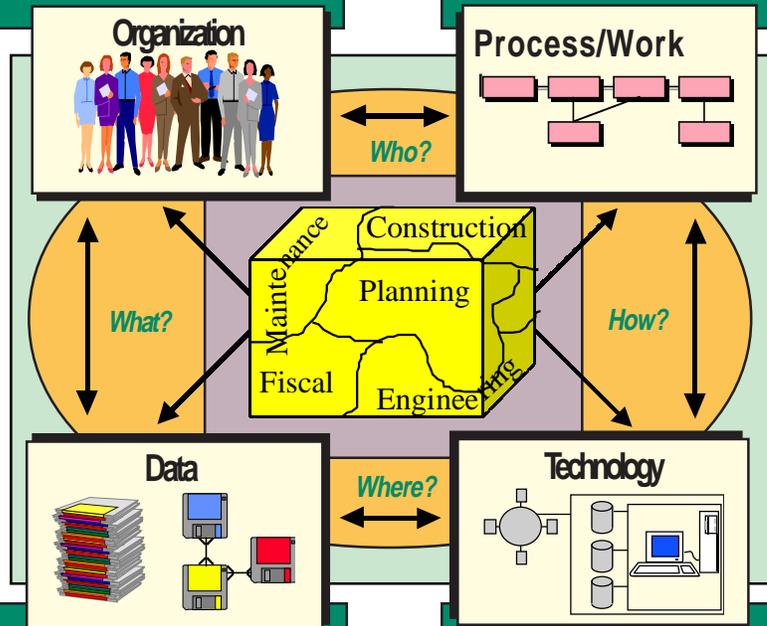
Required Module: What is ITIS?

This module serves as an introduction to ITIS and related concepts. It covers:

- Definition and overview of ITIS
- ITIS components
- ITIS infrastructure
- ITIS fundamentals

Required Module: Change and Responding to Change

This module reviews the effects of change and how they can be dealt with in a transportation agency. Topics include:

- Organizations and change
- Driving forces behind change
- Responding to change
- Approaches to dealing with change

Organization — Who? — Process/Work

What? — Maintenance, Construction, Planning, Fiscal, Engineering — How?

Data — Where? — Technology

Required Module: Approaches to ITIS

The various approaches to building an ITIS are reviewed in this module. These include:

- Business Process Reengineering
- Total Quality Management
- Standards
- Data Warehouse

Required Module: ITIS Costs and Benefits

This module reviews the costs and benefits associated with developing and implementing ITIS. Topics include:

- What does it take to build an ITIS?
- What are the costs associated with ITIS?
- What are the benefits associated with ITIS?

ELECTIVE MODULES

Management Approaches	Business Process Reengineerig (BPR) • Total Quality Management (TQM) • Standards
Case Studies	Department of Transportation (DOT) • Metropolitan Planning Organization (MPO) • Transit Agencies
Implementation Technologies	Computer Aided Software Engineering (CASE) • Joint Application Development (JAD) • Rapid Application Development (RAD) • Information Engineering (IE) • Software Engineering
Information Technology	Client - Server Technology • Internet / Intranet • Object-oriented Programming / Modeling
GIS / Data Warehouse	Geographic Information Systems (GIS) • Linear Referencing • Data Warehousing
Data Collection Technologies	Global Positioning System (Overview) • GPS Applications • Pen-based Computers • Digital Cameras / Voice Recognition

Agencies may select 4, 8, or 12 elective modules depending upon the length of their workshop.