Overview

• Structure of the USDOT
  – Research and Innovative Technology Administration (RITA),
    • ITS Joint Program Office (ITS JPO)
  – ITS Management Council
  – ITS Strategic Planning Group
  – ITS Advisory Group (FACA)

• ITS Program Plan
• Overview of Current ITS Program
• Strategic Direction
Research and Innovative Technology Administration (RITA)

- Coordinates the U.S. DOT research programs and is charged with advancing the deployment of cross-cutting technologies to improve our Nation’s transportation system. As directed by Congress in its founding legislation, RITA leads DOT in:
  - Coordinating, facilitating and reviewing the Department’s research and development programs and activities
  - Advancing innovative technologies, including intelligent transportation systems
  - Performing comprehensive transportation statistics research, analysis and reporting
  - Providing education and training in transportation and transportation-related fields
ITS Joint Program Office (ITS JPO)

- Responsible for ITS Program strategic leadership, coordination, and oversight
ITS Management Council

• The U.S. DOT “Board of Directors”
• Purpose: to guide and direct Federal ITS program
• Role: to ensure the overall effectiveness of ITS program and to provide connection between ITS program and Modal Administrations.
• Chair: RITA Administrator
• Members:
  – U.S. DOT Deputy Secretary
  – Under Secretary for Policy
  – Assistant Secretary for Transportation Policy
  – Modal Administrators from operating administrations
ITS Strategic Planning Group

• Role: provides ITS program internal management coordination and programmatic advice to ITS Management Council and ITS Joint Program Office
• Chair: ITS Joint Program Office Director
• Members: Modal Associate Administrators
Federal Advisory Committee Act (FACA)

- **ITS Program Advisory Committee** (ITSPAC) created to serve the FACA role to USDOT on ITS issues.

- **Scope and Objectives:**
  - Function of advisory committee is advisory only
  - ITSPAC is expected to:
    - Provide input into development of ITS aspects of Surface Transportation Research and Technology Development Strategic Plan, and, specifically, into Five-Year ITS Program Plan
    - Review, at least annually, areas of ITS research being considered for U.S. DOT funding to determine:

- **U.S. DOT Secretary Report to Congress on ITSPAC recommendations annually.**
ITS Program Plan

• SAFETEA-LU directs that the Secretary of Transportation develop a 5-year National ITS program plan that shall:
  – Specify goals, objectives, and milestones for research and deployment of ITS
  – Specify the manner in which specific programs and projects will achieve goals, objectives, and milestones in the context of:
    • Major metropolitan areas
    • Smaller metropolitan and rural areas
    • Commercial vehicle operations
ITS Program Plan (cont)

- The ITS program plan shall be submitted and biennially updated as part of the transportation research and development strategic plan. 2008 update milestones:
  - Final draft: June 2008
  - Submission to Congress: August 2008
- The Five-Year ITS Program Plan is available on line in the ITS Electronic Document Library (http://www.its.dot.gov/library.htm), document # 14289
Overview of Current ITS Program

• ITS Research Program
  – R&D Initiatives
  – Technology Transfer
Overview of Current ITS Program (cont)

- ITS major research initiatives are centerpiece of ITS Program
- Focus on innovative combinations of technologies to solve critical transportation problems related to safety, mobility, and global connectivity
- Consistent with Congressional goals, purposes, and research objectives outlined in SAFETEA-LU and also with U.S. DOT goals of:
  - Safety
  - Congestion reduction
  - Productivity/global connectivity
Overview of Current ITS Program (cont)

• Each initiative is:
  – Partnership that includes:
    • U.S. DOT Modal Administrations
    • Private-sector organizations
    • State and local transportation agencies
    • Professional associations
    • Other public-sector interests
  – Oriented to focus on fewer, larger, higher-risk, high-payoff “major initiatives”

• Nine major initiatives were approved by the Management Council
• Congestion Initiative was added this year
Major Initiatives

Safety
- Integrated Vehicle-Based Safety Systems
  - Cooperative Intersection Collision Avoidance Systems
  - Next Generation 911

Mobility
- Congestion Initiative
  - Integrated Corridor Management Systems
- Mobility Services for All Americans
  - Clarus
  - Emergency Transportation Operations

Global Connectivity
- Universal Electronic Freight Management

Crosscutting:
- Vehicle Infrastructure Integration
**Congestion Initiative**

- Secretary’s Signature Congestion Program
- More than $1B total funding (most from transit)
- $100M ITS funds: $20M ’07, $40M ’08, $40M ’09
- ITS funds for:
  - Technology components for operational tests
  - Evaluation & Oversight ($5M)
- Developing evaluation and oversight plan

Urban Partners: Minneapolis, Seattle, San Francisco, Miami, New York City
Technology Transfer

• Information Dissemination

• Professional Capacity Building

• Architecture & Standards
  – National ITS Architecture Version 6.0
  – 105 ITS standards
    • 88 published
    • 13 in final process
    • 4 in development

• Benefits & Costs, Lessons Learned, Deployment Statistics
FHWA Operations – Rural

- Clarus Initiative
- Rural Interstate Corridor Communications Study
- Traffic and Event Management
- Tourism and Travel Information
Strategic Direction

Time for a Fresh Look at our Strategic Direction and Vision
Strategic Direction (cont)

The Conundrum:

Big Transportation Problems
- Congestion
- Safety
- Productivity
Strategic Direction (cont)

Traditional Solution:
• Public investment through
  – Federal-Aid Program
  – State and Local Funds

BUT
  – Trust Fund is Going Broke (2009)
  – Funding is Insufficient for Basic Needs
    • Technology Investments Typically are Low Priority
Strategic Direction (cont)

At the Same Time:

- Information Technology Explosion
  - Small
  - Fast
  - Ubiquitous Connectivity
  - Person-to-person Networking

![Bar chart showing device statistics: Mobile Wireless Devices (2B), TVs (1.5B), PCs (820M), Game Boys (190M), iPods (50+M), PDAs (50M).]
Strategic Direction (cont)

Information Technology Explosion is:

- Market Driven
- Enabled by Open Access Internet
- Based on Industry Set Standards
Strategic Direction (cont)

Federal Research & Technology Transfer

Information Technology

System Performance
Time For a New Vision

- Reauthorization
- Major Initiatives Ending
- Program Plan
- ITS Advisory Committee

Common, Clear, Concise Vision
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