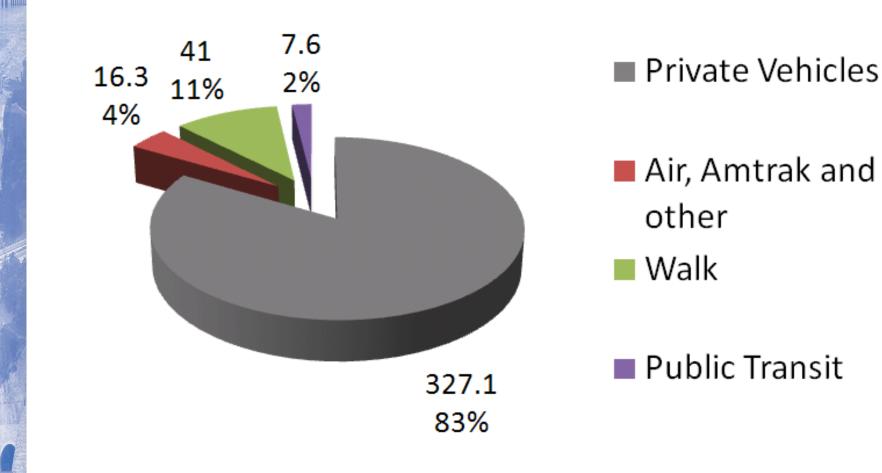
Institutional Aspects of Management in the Transport Sector in the <u>United States of America</u>

International Workshop on Transportation Infrastructure

Ministry of Transport, Brasilia, 8 May 2012

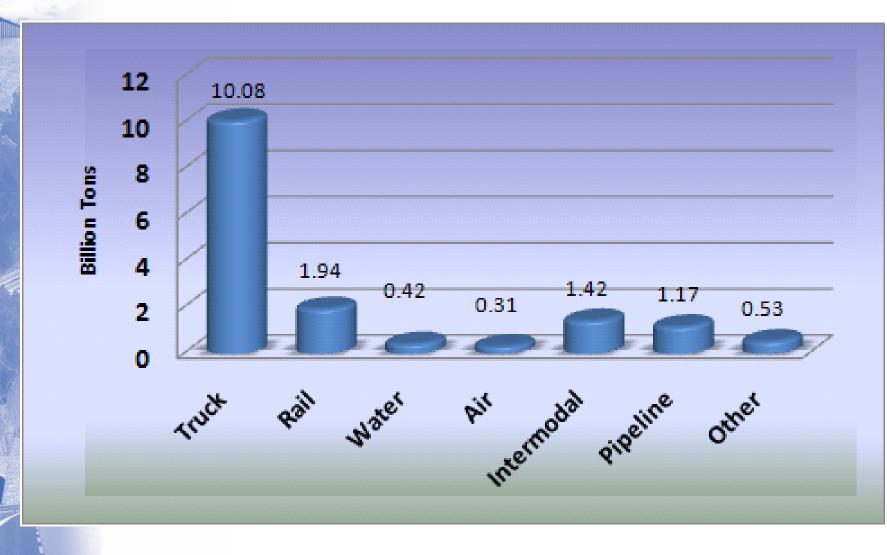
King W. Gee (Retired, U.S. Federal Highway Administration)

Nearly 400 Billion Person Trips In 2008



Data Source: FHWA NHTS

Goods Shipped in 2009



Data Source: FHWA FAF

U.S. Department of Transportation

- Federal Aviation Administration (FAA)
- Saint Lawrence Seaway Corporation (SLSC)
- Federal Highway Administration (FHWA)
- Federal Transit Administration (FTA)
- National Highway Traffic Safety Administration (NHTSA)
- Federal Motor Carrier Safety Administration
- Federal Rail Administration (FRA)
- Maritime Administration (MARAD)
- **Pipeline & Hazardous Materials Safety Administration (PHMSA)**

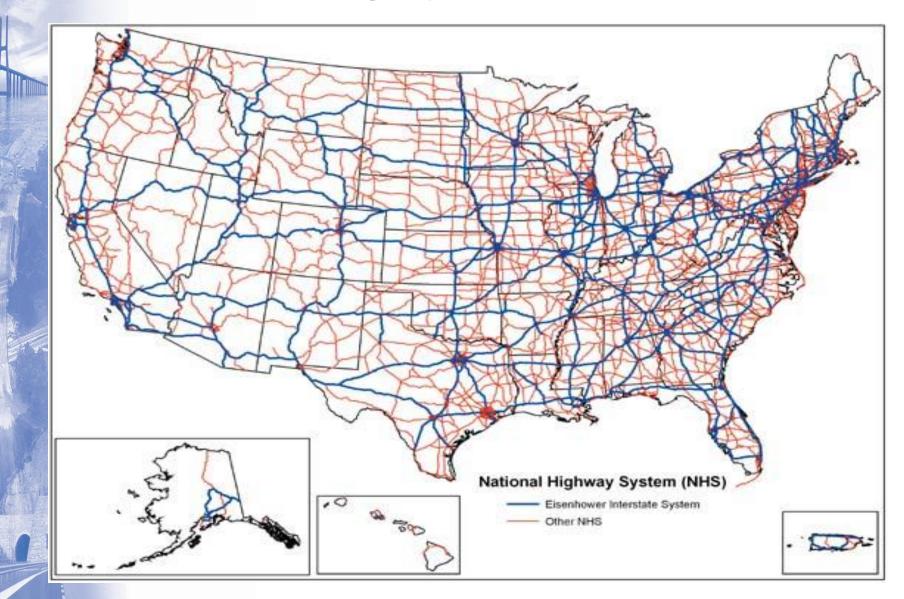
Research, Innovation and Technology Administration (RITA)

USA's Highway System

Public Roads: 4,059,352 miles Federal Eligible Roads: 994,517 miles National Highway System: 164,094 miles Interstate: 47,013 miles **Bridges: 604,493**



Interstates - Legacy of 50 Years of Growth

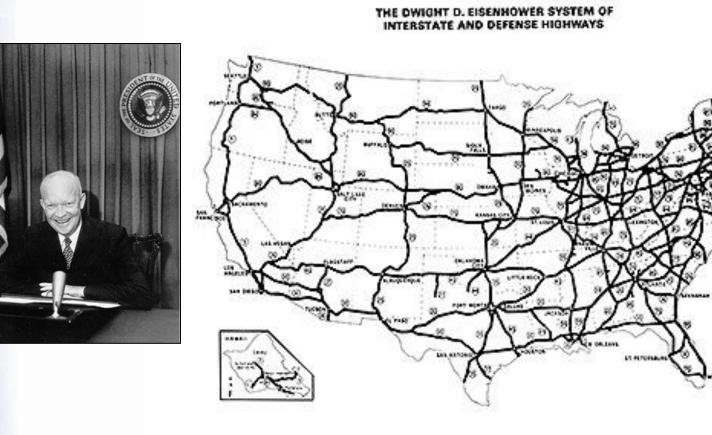




1916 FEDERAL-AID HIGHWAY PROGRAM

- **1. Federal-State partnership.**
- 2. Each State must have a highway agency.
- 3. 50-50 Federal-State funding for projects.
- 4. Limited system eligibility.
- 5. Federal review of each project.

Federal Aid Highway Act of 1956



Federal Aid Highway Act of 1956

- National Commitment to Build 40,000 Mile Interstate Highway System.
- Retained Federal-State Partnership.
 vs. Federally Owned System
- Funding Source: Highway Trust Fund. vs. Toll Road System
- Cost-to-Complete Guarantee.
- High Design Standards.
- Interregional AND Urban Traffic

Federal – State Partnership

FEDERAL:

- Highway System Designation (IHS & NHS)
- National Standards: Geometric & Signing
- Reimburse IHS Construction Cost
- Administer Funds & Oversee Processes

STATE (& LOCAL):

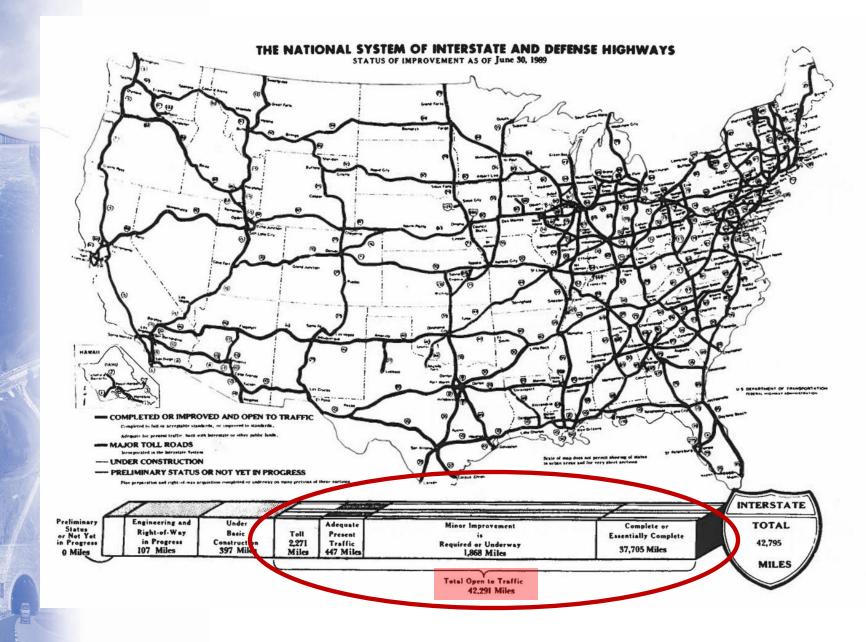
- Suitably Equipped & Staffed State Agency
- Planning & Selection of Projects
- State Processes for Execution of Works
- Maintenance & Operation of System

JOINT

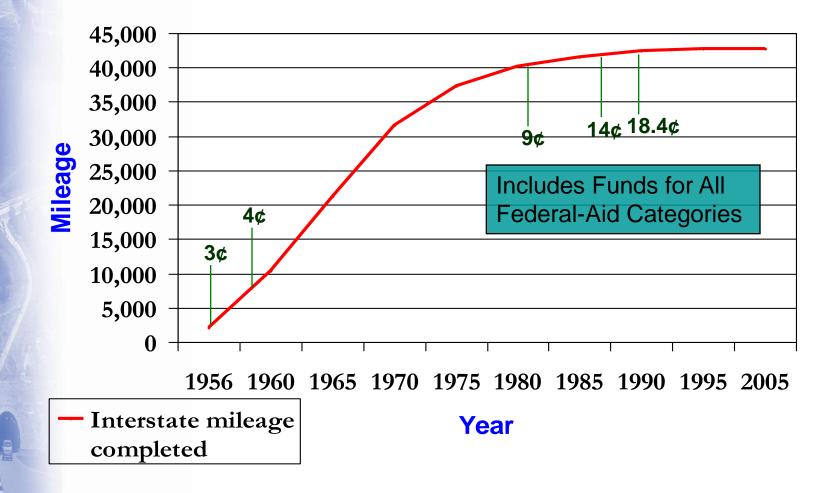
Environmental & Other Federal Requirements

Challenges Overcome

- **Unconnected Continent of 48 States**
- Interstate & National Highway Systems
- Inconsistent Design Standards
 - AASHTO Design Standards
- Stable Funding Source
 - Gas Tax & Highway Trust Fund
 - Inexperienced Technical Corps
 - Federal-State partnership
 - **Driver Expectations**
 - Manual on Uniform Traffic Control Devices (MUTCD)



Federal Gasoline Tax and the Growth of the Interstate Highway System



Highway Trust Fund

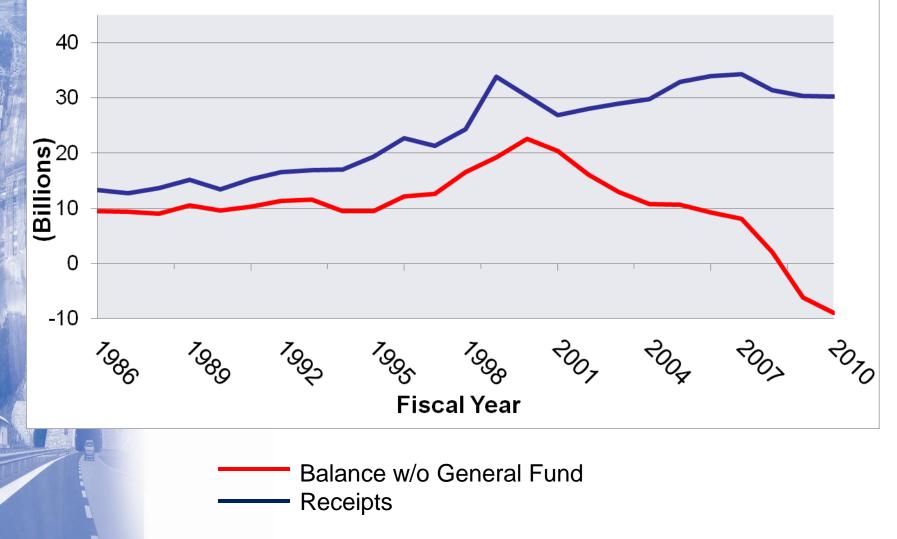
Income Sources:

- **Fuel Taxes** (90%)
- Truck & Trailer Sales (5%)
- Heavy Vehicle Use Tax (4%)

• **Tires** (1%)

User Fee Type	Rate
Motor Fuels Gasoline Gasohol (10% blend) Diesel Fuel Liquified Petroleum Gases	18.4¢ per gallon 13.2¢ per gallon 24.4¢ per gallon 13.6¢ per gallon
Tires	0-40 pounds, no tax over 40-70 pounds, 15¢ per pound in excess of 40 over 70-90 pounds, \$4.50 plus 30¢ per pound in excess of 70 over 90 pounds, \$10.50 plus 50¢ per pound in excess of 90
Truck and Trailer Sales	12% of retailer's sales pricefor trucks over 33,000 pounds gross vehicle weight (GVW) and trailers over 26,000 pounds GVW
Heavy Use Vehicles	Annual Tax: Trucks 55,000-75,000 pounds GVW, \$100 plus \$22 for each 1,000 pounds (or fraction thereof) in excess of 55,000 pounds Trucks over 75,000 pounds GVW, \$550

Highway Trust Fund Highway Account 1986 – 2010



Federal – State Partnership

SUCCESS FACTORS:

- Focused Federal Programs
- Respect for State Ownership/Sovereignty
- Collaboration & Trust
- Mutually Professional & Competent Staff
- Creative Oversight Tension

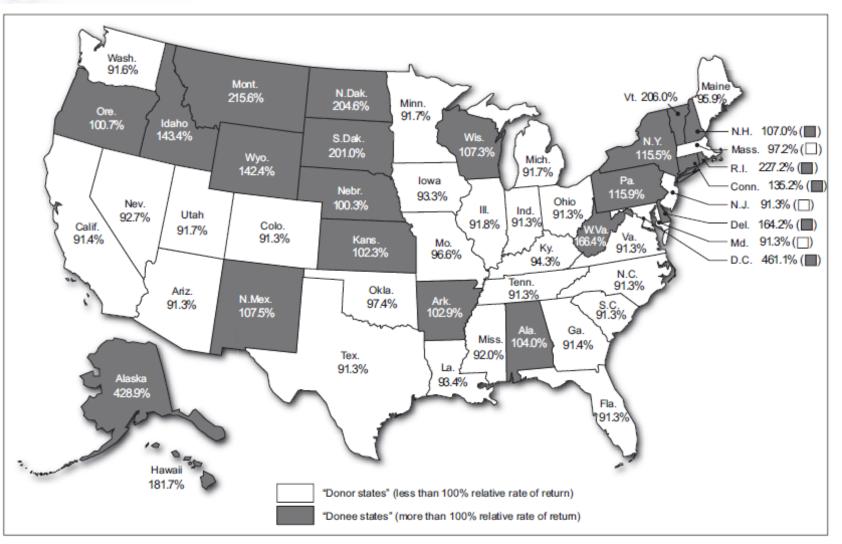
COMPLICATIONS:

- Funding Programs with Weak Objectives
- Conflicting State Objectives
- Unreliable Funding Expectations
- Unfunded Mandates External Goals
- Varied State Roles with Local Agencies
- III-Defined Maintenance & Operation Metrics

Current Challenges & Drivers

- **Daunting Safety Concerns**
- **Growing Congestion**
- Aging Infrastructure
- Funding Shortfall / Competition
 - Multi-Modal Focus
 - **Climate Change / Weather**
 - Energy
 - **Transparency & Accountability**
 - System Performance
 - **State of States and State DOTs**

Donor-Donee Concerns *Return on Gas Tax from Highway Trust Fund*



Sources: GAO analysis of FHWA data; Map Resources (map).

Underway: Re-Framing Our Business

- From Public Works to Transportation
- From Highways to Multi-Modal
- From Stand-Alone Government Agency to "Business" Enterprise
 - From Infrastructure Outputs to Outcomes & Broader Societal Goals
 - From Public Sector Ownership to Private Investments Too
- And Re-Defining the Partnership

Definition of Success

From: **On-Time**, **On-Budget**, Within Specifications To: System & Program **Performance Measures** (Safety, Travel, Infrastructure Condition)





Stewardship – Four Levels

- **Transportation Stewardship**
 - Highways → <u>Transportation</u> System
 - Role in Society & Economy
- **Program Stewardship**
 - Return on Investment
- **Process Stewardship**
 - Efficient & Effective and Legal
 - **Project Stewardship**
 - Schedule, Budget, Quality, Safety