

# ***Wisconsin Transportation Network Infrastructure Study Committee***



*Wisconsin Department of Transportation*

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***October 7, 2004***

# Transportation Infrastructure Planning Efforts



➤ Airports



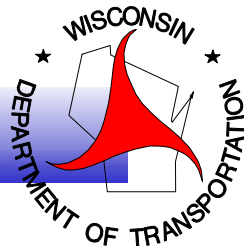
➤ Freight and passenger rail



➤ Harbors

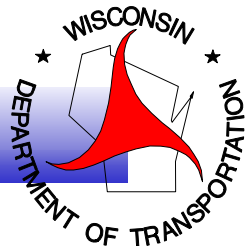
# Connections 2030

- Emphasizes linkages between modes
  - highways
  - air
  - rail
  - harbors
- Sets priorities
- Considers best ways to move



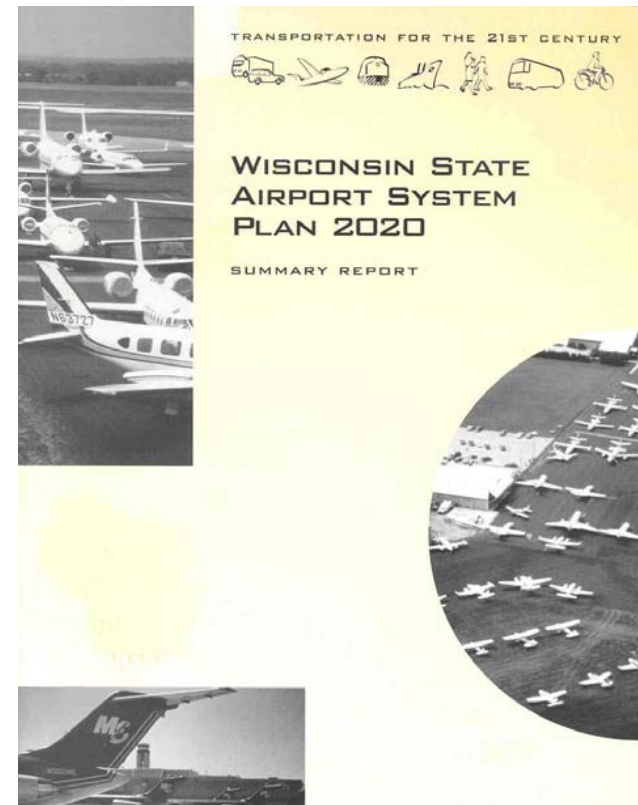
# Connections 2030

- Analysis and trends
- Extensive public outreach
  - citizens
  - businesses
  - local governments
  - private carriers
- Timeline



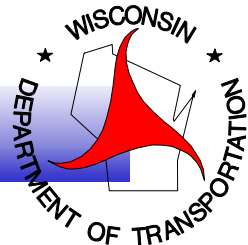
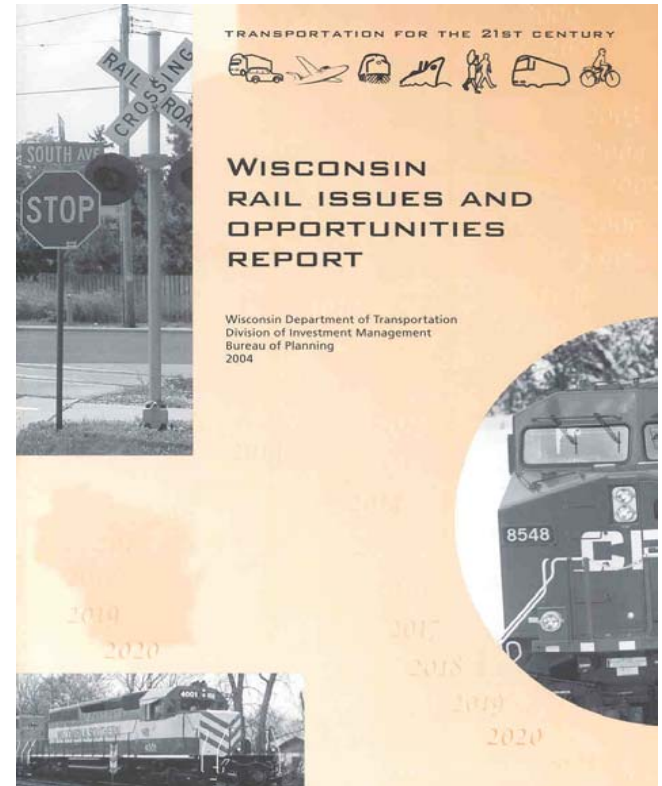
# WI Airport System Plan

- Provides a framework for development
- Determines future number and type of aviation facilities
- Defines state airport system



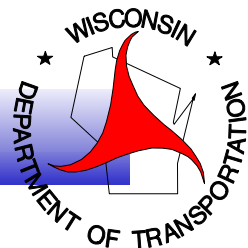
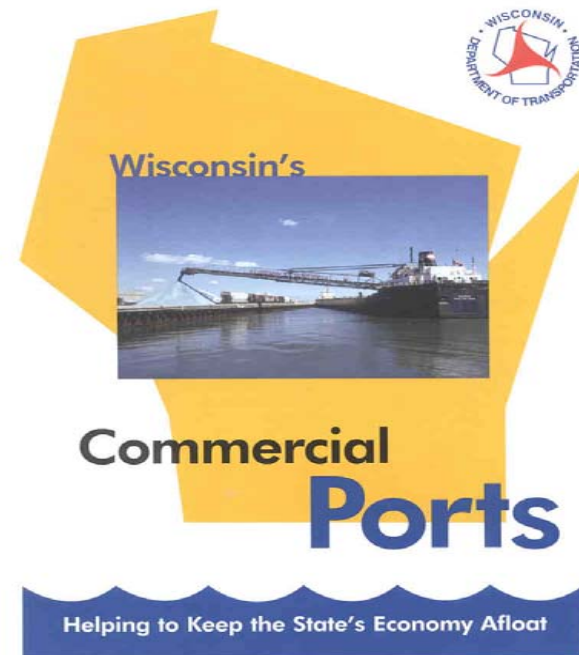
# Rail Issues and Opportunities Report

- Product of extensive public input
- Growth of intermodal movements
- “Rationalization” trend
- Low density rail lines



# Economic Impact of Harbors

- Economic role and contributions of harbors
- Cost effective mode



# Historical and Future Trends

➤ Rail



➤ Truck



➤ Water

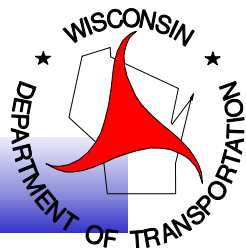
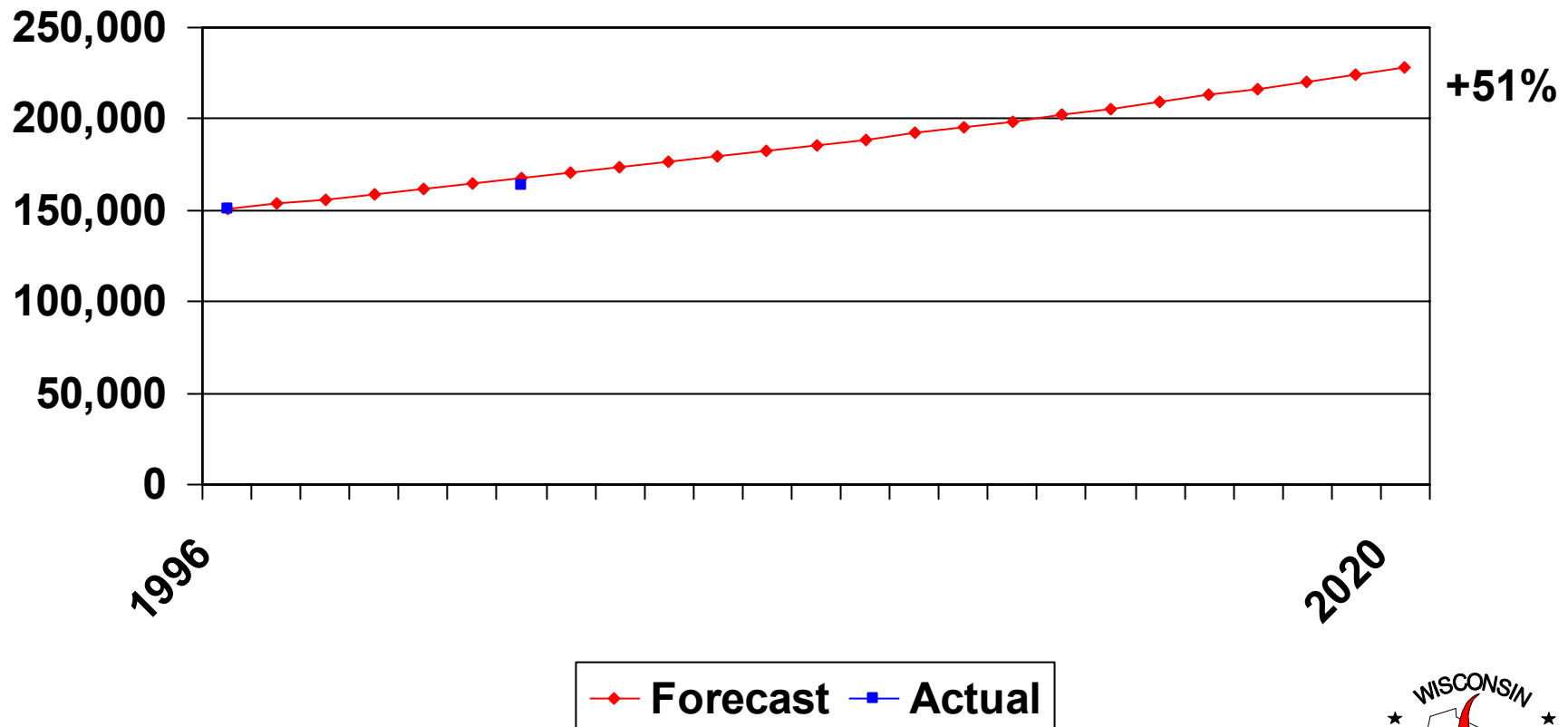


➤ Air

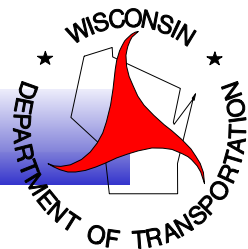
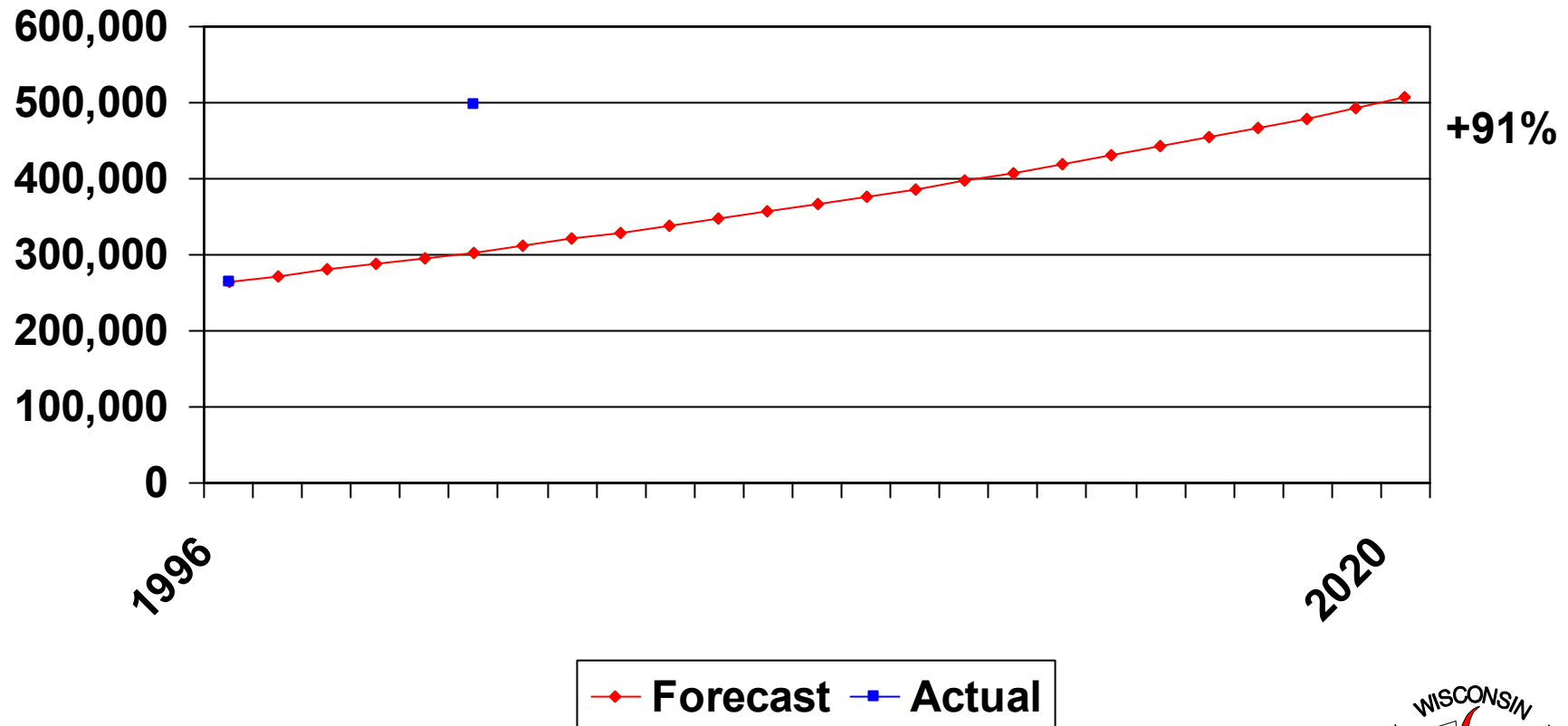




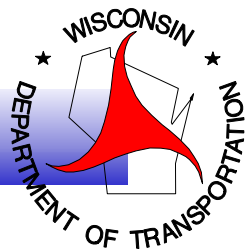
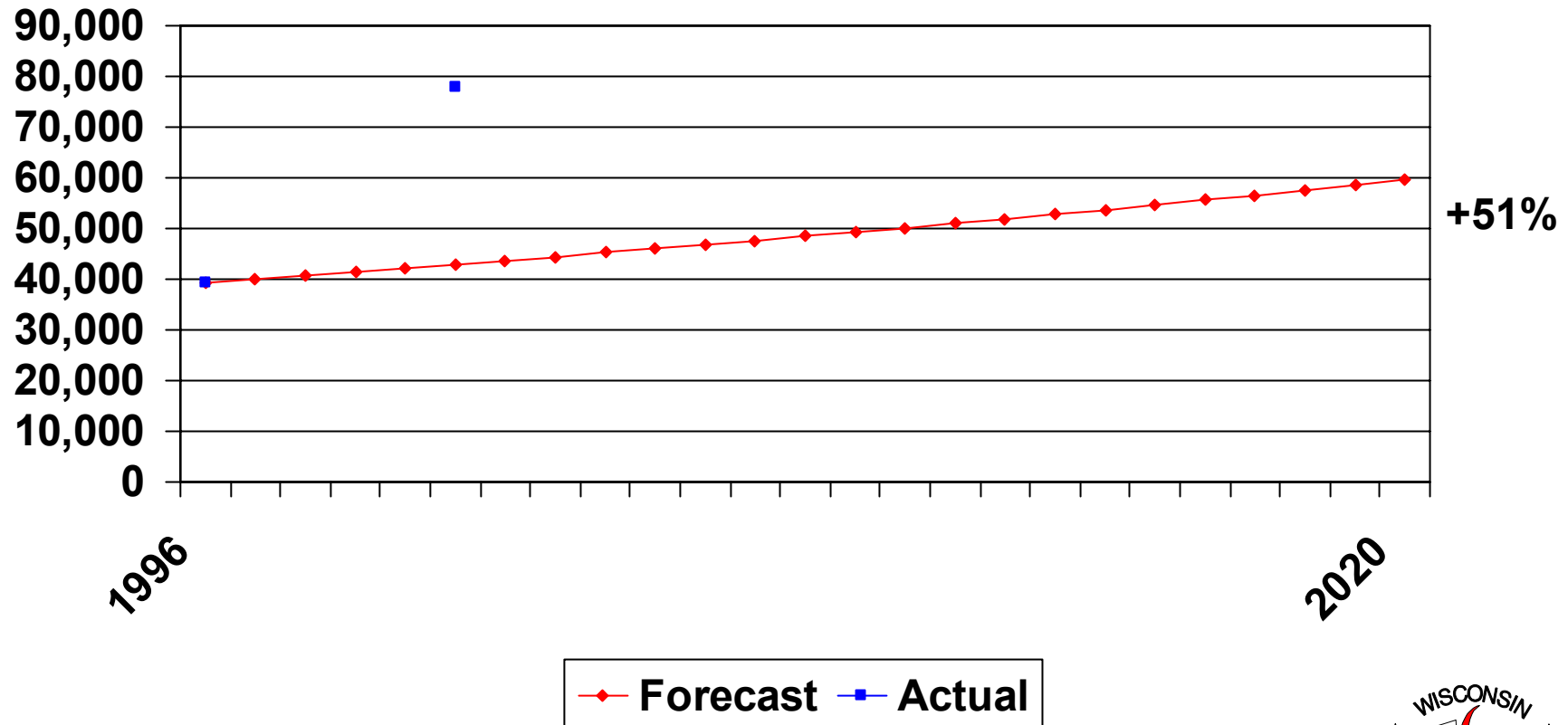
# WI Rail Tonnage (Thousands)



# WI Truck Tonnage (Thousands)



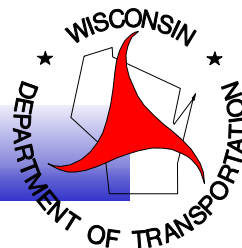
# WI Water Tonnage (Thousands)



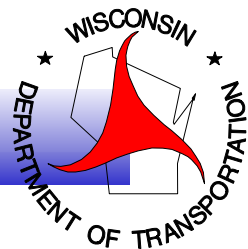
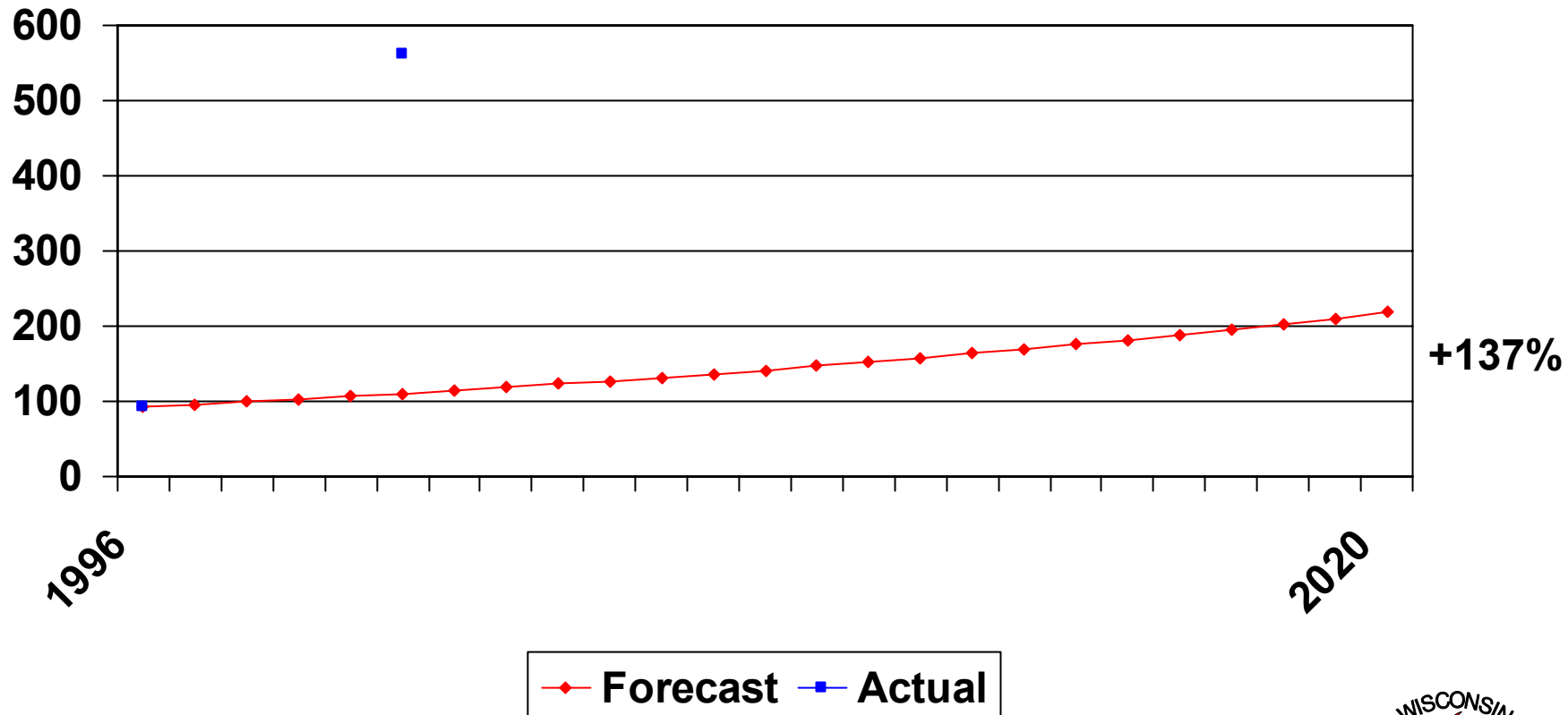
# WI Air Passenger Enplanements

## 1993 - 2020

<b><i>City</i></b>	<b><i>Airport</i></b>	<b><i>Growth</i></b>
Appleton	Outagamie County	62%
Eau Claire	Chippewa Valley	192%
Green Bay	Austin Straubel Intl.	115%
La Crosse	La Crosse Municipal	108%
Madison	Dane County Regional	115%
Milwaukee	General Mitchell Intl.	202%
Mosinee	Central WI	132%
Rhineland	Rhineland-Oneida Cty.	100%

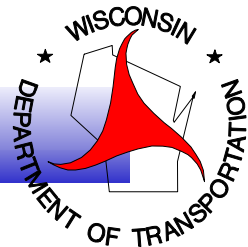
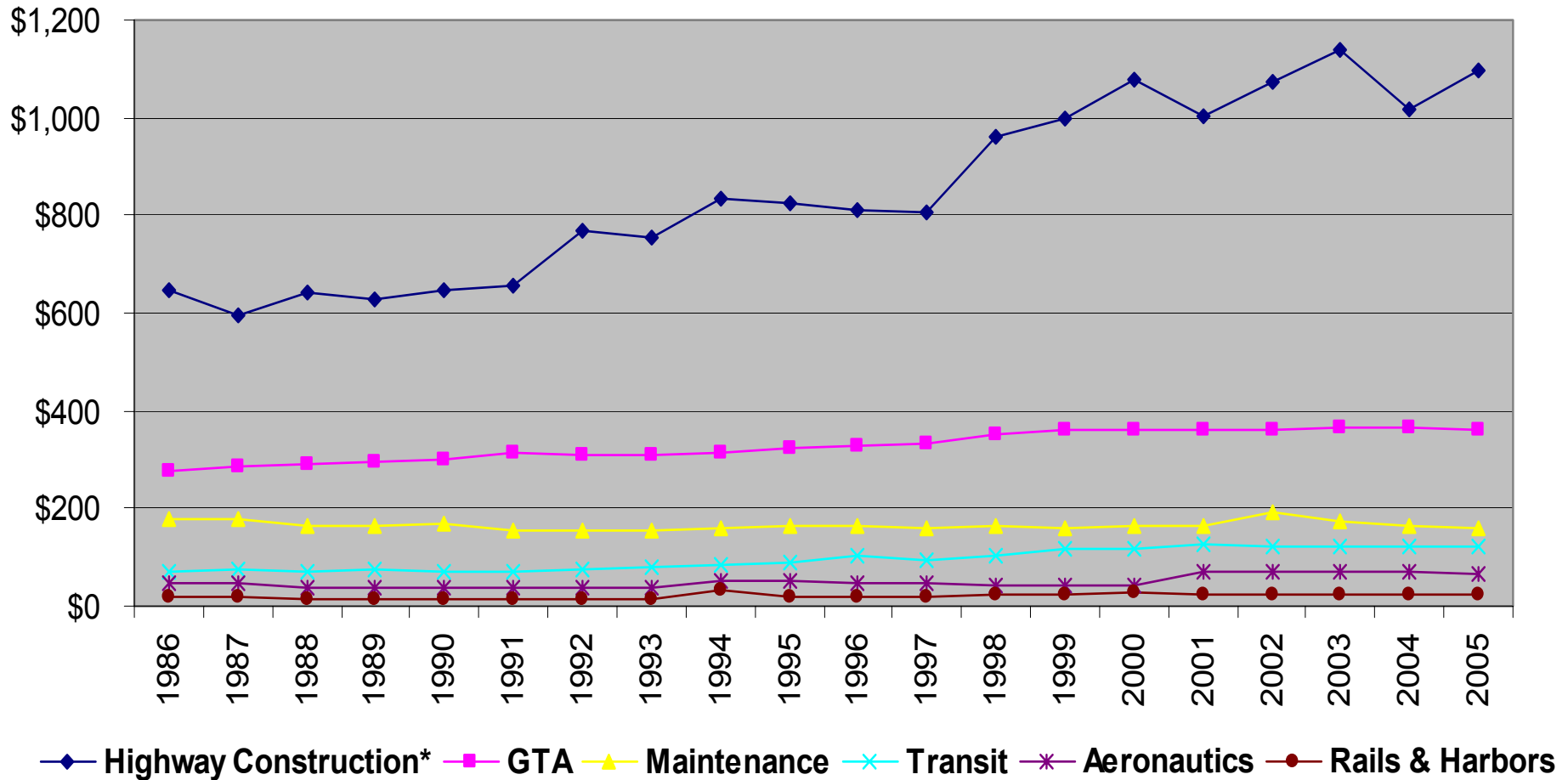


# WI Air Tonnage (Thousands)



# Modal Program Funding

All Funds - Millions of '03 \$

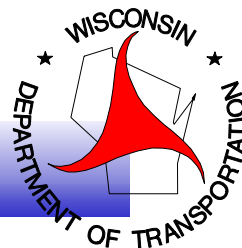


# Modal Program Funding

## 1986 - 2005

<i><b>Modal Program</b></i>	<i><b>Real \$ Growth</b></i>
Highway Construction*	70%
General Transportation Aids	30%
Highway Maintenance	-11%
Transit Assistance	76%
Aeronautics	40%
Rail and Harbor Assistance	12%

\*State and Local Programs



# *Wisconsin Aviation Infrastructure*



**David Greene, Director  
Bureau of Aeronautics**





# Department of Transportation

## **Bureau of Aeronautics**

- Promote aviation safety
- Oversee projects and provide technical assistance
- Help plan, prioritize and fund airport improvements



# Airport Projects

## *Land Acquisition*



# Airport Projects

## *Terminal Buildings*



LaCrosse Municipal Airport

# Airport Projects

## *Runway Reconstruction*



Dane County Regional Airport - Madison

# Airport Projects

## *New Runways*

Waupaca Municipal Airport





# Airport Projects

## *Heavy Equipment*



# Airport Projects

## *Sealcoat*

Fort Atkinson Municipal Airport



Hartford Municipal Airport

# Airport Projects

## *Pavement Rehabilitation*



Southern Wisconsin  
Regional Airport - Janesville



# Airport Projects

## *Aprons*



Ephraim - Fish  
Creek Airport



Outagamie County Regional Airport - Appleton

# Airport Projects

## *Navigational Aids*





# Airport Projects

## *Fencing*



Richard I. Bong  
Airport - Superior

Southern Wisconsin Regional Airport - Janesville

# Aviation Safety

## Security Partnerships

- Federal Security Directors at 3 Wisconsin Airports
  - General Mitchell International, Milwaukee
  - Dane County Regional, Madison
  - Austin Straubel International, Green Bay
- TSA General Aviation Airport Security Guidelines
- AOPA Airport Watch Program
- OJA Projects
- DOT security awareness presentations



# Aviation Safety Security Monitor



Rice Lake Regional Airport

# Aviation Safety

## Security Baggage Screening



Chippewa Valley Regional Airport - Eau Claire



# Aviation Safety

## Safety Seminars



- Flight Instructor Refresher Course
- Aircraft Mechanic Training
- Pilot Certificate Renewal Continuing Education



- ***Wisconsin Aviation System***

- ***Airport Development***

- ***Aviation Safety***

- ***Airport Funding***

- ***Investment Strategy***





# Wisconsin Aviation System

## Types of Airports

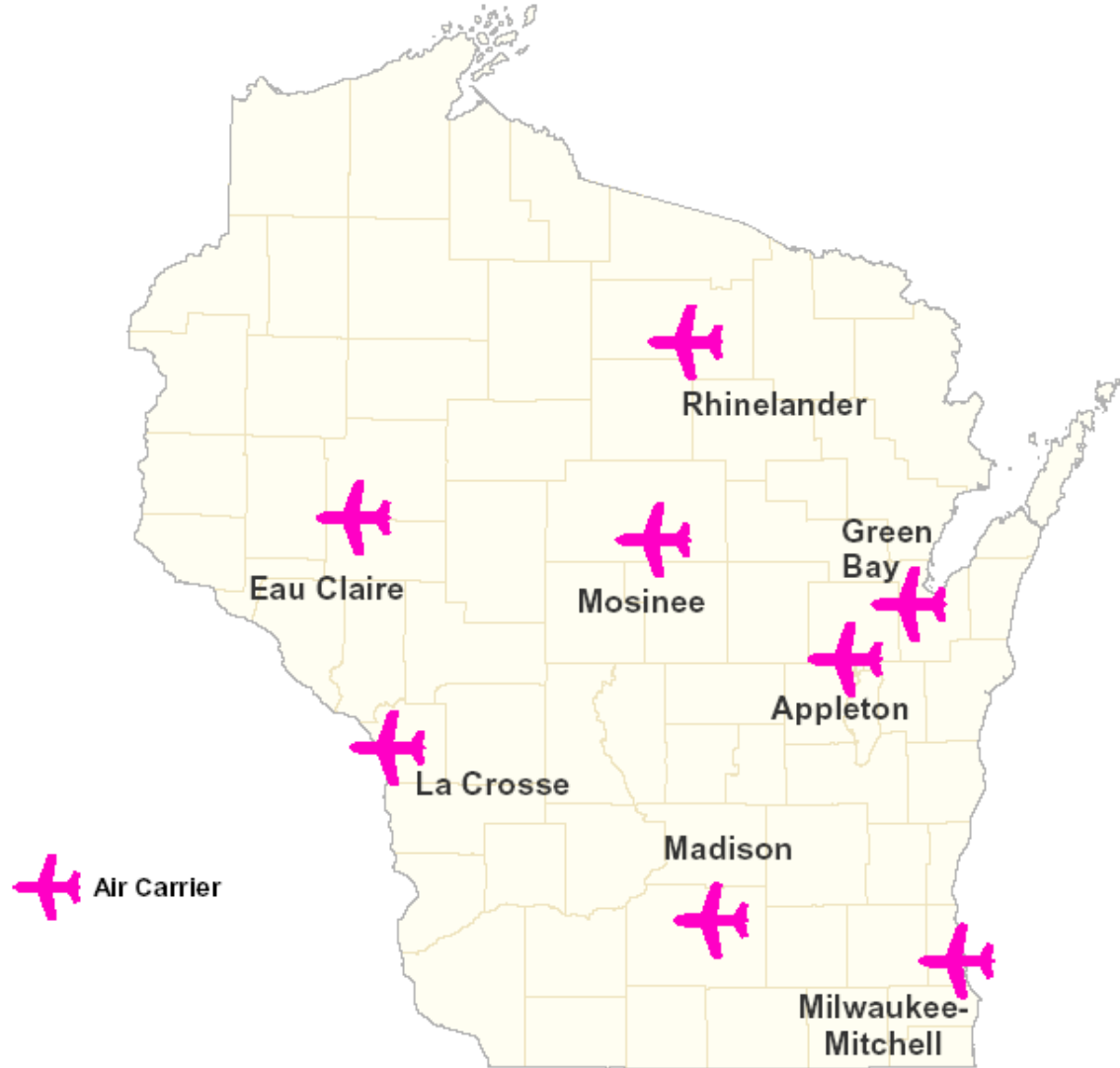
- 97 System Airports (eligible for funding)
  - 8 Air Carrier
  - 89 General Aviation
- 608 Non-System Airports
  - 447 Airports
  - 136 Heliports
  - 25 Sea Plane Bases
- **705 Total Facilities**



Austin Straubel International

# Wisconsin Aviation System

## *Primary Airports*



# Wisconsin Aviation System

## *General Aviation Airports*



# Wisconsin Aviation System

## Airport Value

- Agriculture
- Business
- Environmental
- Fire Control
- Freight
- Law Enforcement
- Medical – EVAC
- Military
- Passenger Service
- Tourism
- Recreation
- Search – Disaster
- Training



# Wisconsin Aviation System Airport Operations

- Total at General Aviation Airports (89)
  - **2,222,964**
- Total at Air Carrier Airports (8)
  - **630,592**



# Wisconsin Aviation System

## People & Planes

• Based Aircraft	5,199
• Active Pilots	10,301
• Aviation Mechanics	3,119
• Airlines	27
• Airlines Daily Departures	434
• Airline Passengers per Year	4.85 M
• Freight (Pounds per Year)	122.2 M



# Airport Funding

## System Development

- State Airport System Plan identifies statewide needs
- Airports request projects
- Projects are prioritized
  - Type of work
  - Airport activity
  - SASP-identified needs
- 5-Year Airport Program published
- Program adjusted based on expected funds (fluctuating discretionary)



# Airport Funding

## Project Development

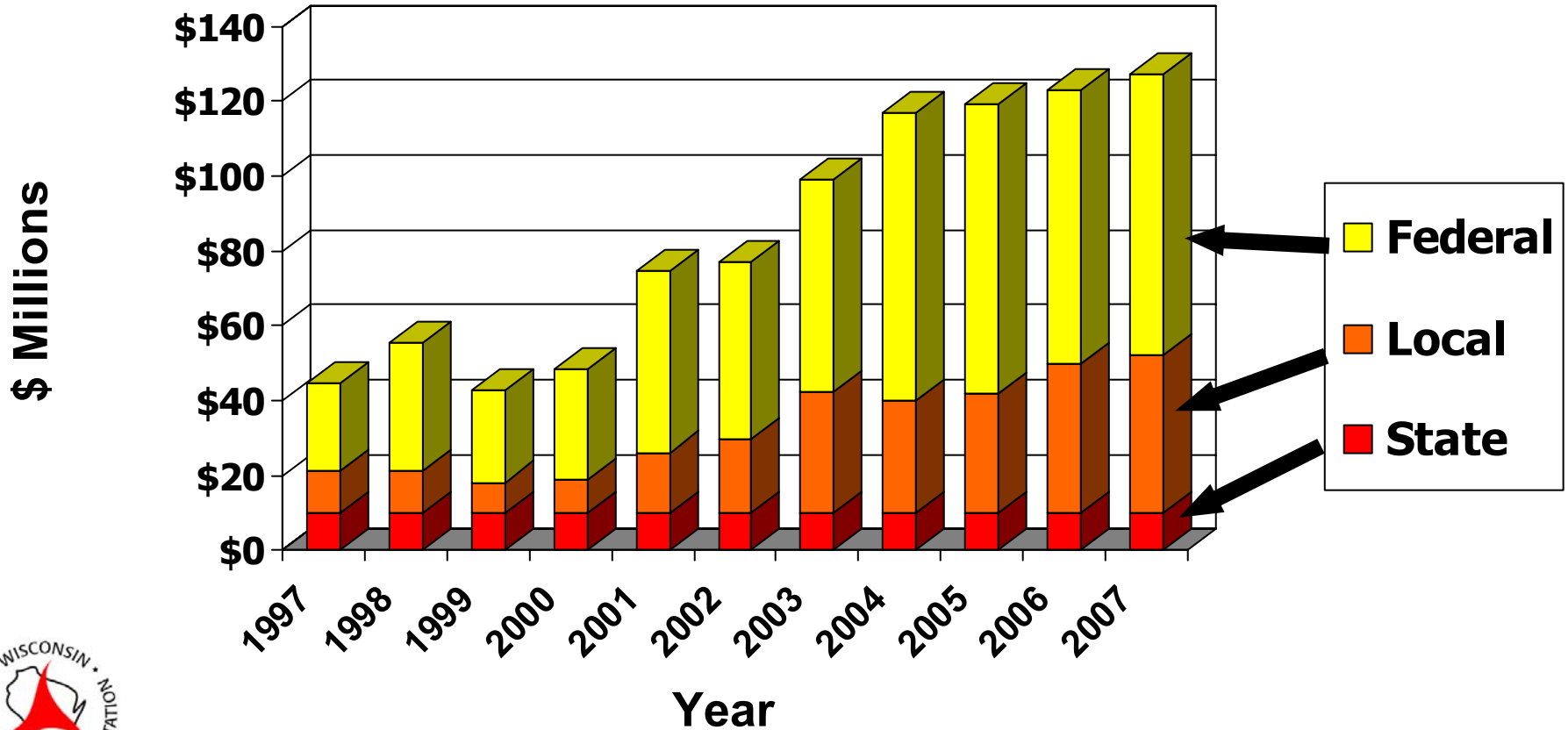
- Continuous Bureau & Sponsor communication
- Airports submit their 5-year plans every 2 years
- Airport petitions DOT for project
- DOT evaluates eligibility of work
- DOT determines funding availability
- Project begins
  - Planning
  - Design
  - Construction





# Airport Funding

## WI Airport Improvement Program Funding Trend 1997 – 2007



# Airport Funding

## 2004 Improvement Project Funding

- Federal \$ 69 million
  - Funded by user fees
- State \$ 10 million
  - Funded by user fees
- Local \$ 42 million
  - Funded by user fees and local taxes

**2004 Total Program \$ 121 million**

**Primary airports also collect  
Passenger Facilities Charges**



# **Investment Strategy Wisconsin Aviation System Economic Impact**

- Supports over 41,000 jobs statewide
- \$2.1 Billion total impact annually
- \$775 Million personal income annually



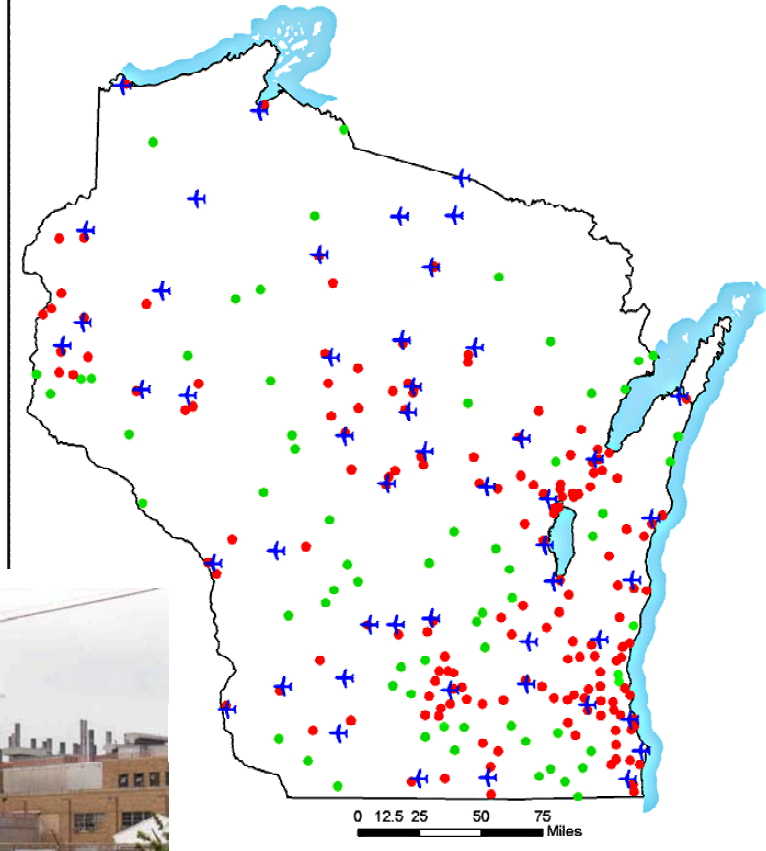
# Investment Strategy

## Economic Impact

- Nearly 75% of new or expanding businesses in WI locate within 10 miles of a public use airport capable of handling corporate jet aircraft.

Proximity of New/Expanded Manufacturers to Jet Capable Airports, 1997-2001

- Communities with New/Expanded Manufacturers Located Within 15 Miles of Jet Capable Airports (702 Firms - 85% of Total)
- Communities With New/Expanded Manufacturers More Than 15 Miles From Jet Capable Airports



# Investment Strategy

## Value of Time

- Drive time to airport
- Number of connections
- Scheduling options
- Reliability of service
- Security screening and check-in time
- Work while traveling
- Inter-modal connections

# Investment Strategy

## Grow Wisconsin Initiative

### *Airport Business Users*

- 3M
- Cardinal Glass
- General Motors
- Johnson Wax
- John Deere
- Kohler Company
- Land's End
- M & I Bank
- Quad Graphics
- Target
- Wal-Mart





# Investment Strategy

## **System Safety**

- Compliance
- Security
- Technologies
  - ILS
- Seminars/Training
- Runway Safety Areas



# Investment Strategy

## Business Jets & Fractional Ownership

- Businesses are purchasing more jets
- Those not purchasing are participating in fractional ownership
- Nationwide fractional ownership fleet of 750, with 1,000 + on order
- Airport infrastructure key to attracting business



# Investment Strategy

## Business Jets

- 5,000-foot runways
- All weather travel
  - Instrument Landing Systems
  - GPS
  - Automatic Weather Observations
- Infrastructure should keep pace with increased fleet
- Provide airport infrastructure to attract business to community



# Investment Strategy

## Transportation Integration



**New Rail Station at General Mitchell  
International Airport - Milwaukee**

- ***Wisconsin Aviation System***

- ***Airport Development***

- ***Aviation Safety***

- ***Airport Funding***

- ***Investment Strategy***

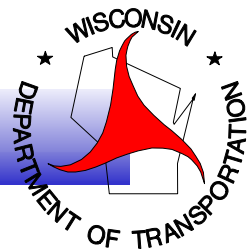


# Railroads and Harbors





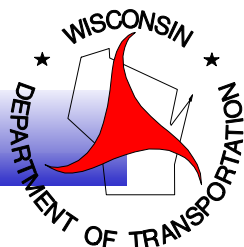
# Freight rail



# Freight rail at a glance...

Wisconsin is home to:

- 12 privately-owned freight railroads
- Over 3,600 route miles of track
- Includes about 600 miles of state-owned track leased to railroads
- About 6,000 rail-grade crossings



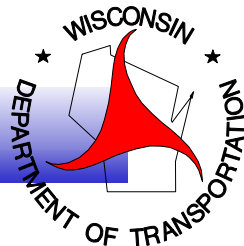
○ Each year, these railroads move approximately 150 million tons of freight including:

- coal, grain, paper, ore, lumber and other freight.



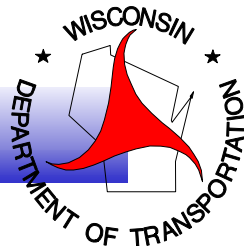
# Freight Rail Infrastructure Improvement Program (FRIIP)

- Loan program - as loans are repaid, the dollars are used to fund new projects
- Improvements to: rail infrastructure, rail crossings, and the construction of new rail-served facilities



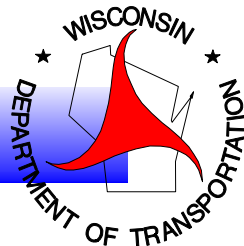
# Freight Rail Infrastructure Improvement Program (FRIIP)

- Applicants include private industries, railroads, and local governments.
- Since the program began in 1993, WisDOT has provided 70 FRIIP loans totaling \$70 million.



# Freight Rail Preservation Program

- Grant program - covers up to 80% of projects that preserve rail service or rehabilitate facilities on publicly-owned rail lines.
- Can be used to purchase abandoned lines in an effort to preserve future freight rail service.





# Freight Rail Preservation Program

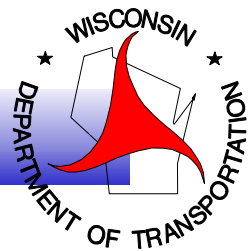
- Applicants include local governments and other public entities.
- Since 1980, under FRPP and related program, some \$80 million in grants awarded.



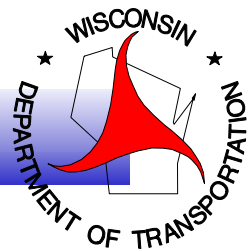
# The bottom line...



## Economic development

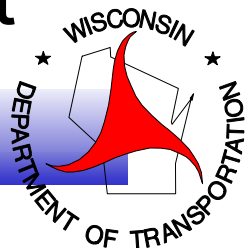


# Passenger rail at a glance...



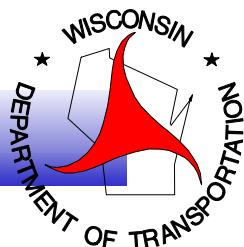
# Amtrak “Hiawatha” service

- Seven daily trips between Milwaukee and Chicago
- Top-notch on-time performance
- Over 430,000 passengers last year – and growing!
- Renovation of Milwaukee Amtrak station/stop at General Mitchell Airport



# Amtrak “Empire Builder” service

- Recently celebrated 75-year anniversary traveling between Chicago and Seattle
- Each year, 75,000 travelers ride the train to and from stations in Milwaukee, Columbus, Portage, Wisconsin Dells, Tomah and La Crosse
- Supports many regional trips between Chicago and St. Paul.



# High speed passenger rail

- WI a leader in Midwest Regional Rail Initiative
- Preliminary work on Milwaukee to Madison corridor done
- Hinges on federal funding



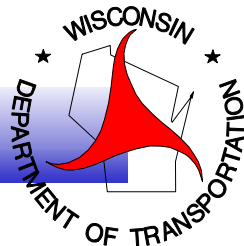


# Harbors at a glance...



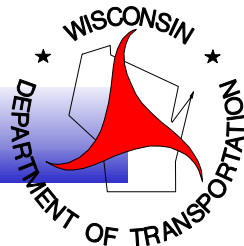
# Harbor overview...

- WI bordered by three navigable waterways
- 15 commercial ports – municipally owned
- Ports are “economic hubs” that move bulk commodities such as...
- Agricultural products, coal, iron ore, wood pulp, cement, and salt.



# Harbor Assistance Program

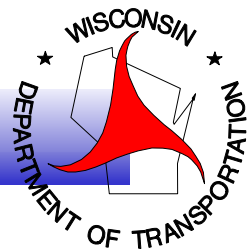
- Assists with projects to maintain and improve waterborne commerce
- Dock reconstruction, mooring structure replacement, and dredging
- Private business/cruise ship expansion



# The bottom line...



Each year, Wisconsin ports handle over 40 million tons of cargo valued at over \$7 billion



# Questions?

