Overview

• State Highway System
  • Prudent Needs, 2011-20
  • Likely Resources, 2011-20
  • Gap between Needs and Resources

• NOT reviewed
  • Local roads and bridges
  • Transit service
  • Other modes
Data Sources

- Wisconsin State Roadway Inventory, 2010
- National Bridge Inventory, 2009
- State Transportation Improvement Program, 2011-14
- Urbanized Area Plans
- Transportation Commission Projects
Study Focus

State Highway System

- 11,770 miles
- 14,412 ‘roadway’ miles
- 4,885 bridges

Local System NOT Studied:

- 103,073 miles
- 9,015 bridges
Demographic Trends

Fuel use likely to decline
Wisconsin Pavement Condition, 2010

Wisconsin Roadway Mileage By Condition Class

- Good
- Fair
- Poor

Mileage:
- Total 14,412.22

50% Good
44% Fair
Roadway Miles with Potentially Required Pavement Treatment

57% Potentially Require Treatment
Pavement Repair Needs

$8.18 B in Repairs

Roadway Miles

- 14,412
- 8,208
- 6,155
- 0
- 2,000
- 4,000
- 6,000
- 8,000
- 10,000
- 12,000
- 14,000
- 16,000

Roadway Miles

- Potentially Require Treatment
- Needs, 2011-20
Percent of State-Owned Bridges with Poor Deck Condition

WI Average: 2.6%
Bridge Repair Needs

- Total Bridges: 4,885
- Needs, 2011-20: 2,532

$678 M in Repairs
Percent of State Roadways Congested

WI Average: 4.3%
Capacity-Related Widening

$6.15 B in Widening*

615

333

Miles at LOS D-E-F

Needs, 2011-20

* $5.72B without I-43 & I-94 Milwaukee
New Roads, Expansions, Bridges and Interchanges

- Urbanized Areas: $3.83 B
- State Trans Projects Commission & Potential: $3.94 B

Total: $7.77 B
Narrow Lanes

$362 M in Widening

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<th>Narrow Lane-Miles</th>
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Narrow Shoulders

- **Eligible Right Shoulder Miles**: 21,596
- **Miles Below Standard**:
  - $34 M in Widening
  - 4,828
- **Needs, 2011-20**:
  - 1,545

*Roadway Miles*
State Highway System Signal Sites

1,014 Signal Sites

State Maintained Signal Sites
- 0 to 1
- 1 to 10
- 10 to 50
- 50 to 1000

Wisconsin Total - 1014
Maintenance & Operations

- Physical Maintenance  $1.57 B
- Roadside Maintenance $ 685 M
- Winter Maintenance    $ 662 M
- Signals and Lighting  $ 335 M
- Other Needs          $ 314 M

$3.57B

Administration $1.81 B
Summary of Needs, 2011-20

Total Needs = $28.56 B
10-Year Fiscal Resources

Federal $5.82 B
State  $11.58 B
Bond/Debt $1.19 B
Local  $43 M
Total  $18.63 B
Comparison of 10-year Needs and Resources

Billions $

- Resources $18.63
- Needs $28.56
- Gap $ 9.93 B
- Gap/Year $ 993 M

- Federal $5.8
- State $11.6
- Bond/Debt $1.2
- Local $.04
- Admin $1.8
- Rehab $9.3
- Capacity + Expansion $13.9
- Maint + Others $3.6
- Others $3.6
Trends in GAP

GAP of $29 M/yr
GAP of $589 M/yr
GAP of $993 M/yr

Resources
Needs

2000 2006 2011
Billion $
Options

Increase Resources

• More state user revenue to state roads
• Increase user fees
• Bonds
• Public Private Partnerships & tolls
• Congestion pricing
• Increase federal funds
• State infrastructure bank
Options

**Reduce Needs**

- Limit project selection
- Raise criteria for treatment
- Lengthen repair cycles
- Reduce travel demand
- Privatize some functions
- Interim measures
- Access management
- Reduce maintenance
Options

Reduce Needs (continued)

- Shift costs to others
- Speed up road improvements
- Design roads to last longer
- Innovative contracting
Summary

• 10-yr needs $28.56 B
• 10-yr resources $18.63 B
• GAP $9.93 B
• Existing resources cover about 65% of the prudent needs
• Gap between resources & needs is growing
• Issue needs attention