

Indiana Local Road Infrastructure

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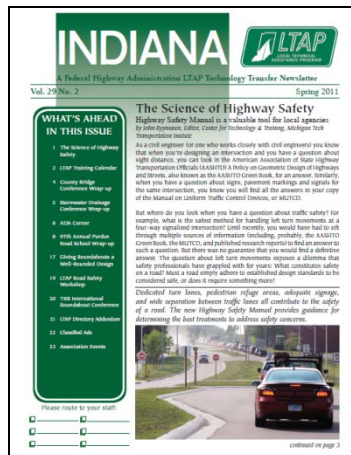
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Indiana LTAP

- Improve the skills and knowledge of local transportation providers
- Provide training through conferences, workshops and site visits
- Provide newsletters, directory, and publications and serve as an information clearinghouse



Local Roads

- Lifeline for state and local economies
- Farms and businesses move products
- Enable truck transportation to provide goods at reasonable prices
- Provide access to employment, recreation, medical and other services



Local Roadway Inventory

- Cities and towns maintain over 18,000 miles of roadway
- Counties maintain over 66,000 miles of roadway
75% paved, 25% unpaved



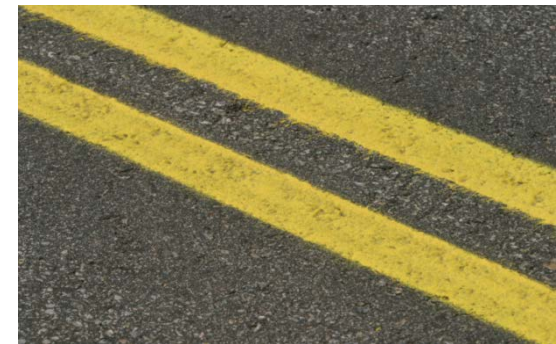
Local Roadway Maintenance

- Cost to rehabilitate and maintain roadways varies
 - Traffic
 - Material cost (can vary by 30%)
 - Labor cost



Local Roadway Maintenance

- 25% of counties surveyed in 2012 had converted some asphalt roads to gravel
- Estimate of annual cost to maintain road surface on a local two-lane road
 - Gravel, \$5,500 per mile
 - Chip seal, \$8,500 per mile
 - Asphalt pavement, \$12,500 per mile



Pavement Condition Assessment



- Eight counties sample
- Road condition assessment based
- Pavement Surface Evaluation and Rating System(PASER)
- International Roughness Index (IRI)

Pavement Condition Assessment

County	Paved Miles Surveyed	PASER		IRI	
		Ave.	Paser <=4	Ave.	IRI>200
A	411	5.7	7%	172	28%
B	269	3.5	77%	257	93%
C	258	4.7	50%	182	27%
D	256	4.1	59%	190	40%
E	693	5.5	31%	141	11%
F	570	3.3	83%	258	80%
G	147	4.2	56%	209	39%
H	528	4.3	58%	211	56%
Total/Average	3,132	4.5	51%	199	46%

Local Bridge Inventory

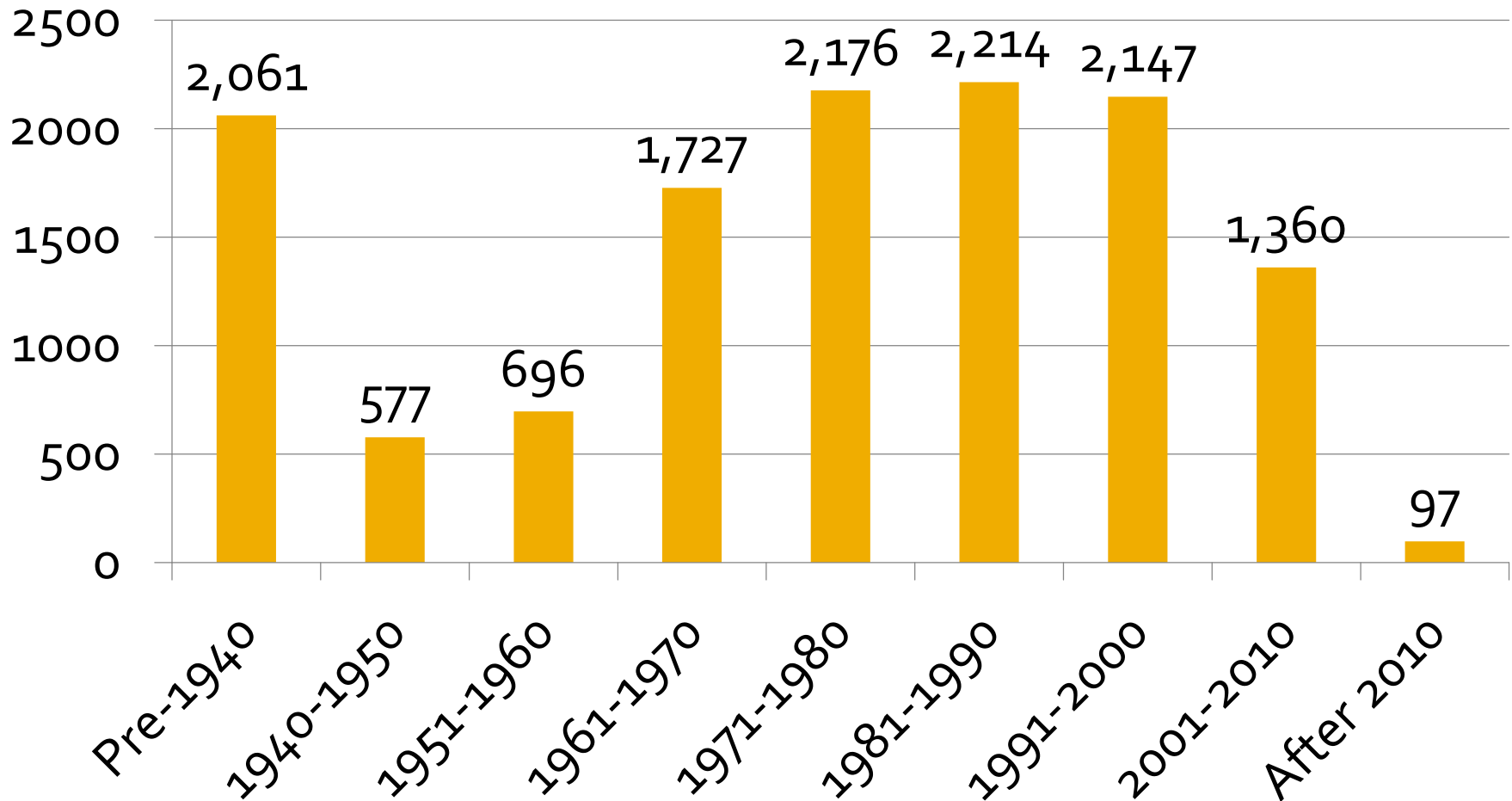
- Indiana Bridges
 - 19,000 bridges in Indiana
 - 13,000 are local (68 percent)
- Most local bridges are county owned and maintained
 - Bridge needs include construction, reconstruction, rehabilitation and maintenance



Local Bridge Inventory

Inventory Item	Number
County Bridges	
Greater than 125 feet	1,549
Less than 125 feet	11,287
Total county Bridges	12,836
County Culverts	
Class 1- Pipes less than 12 square feet	220,000
Class 2- Pipes greater than 12 square feet	40,000
Total county culverts	260,000

Bridge Distribution by Age



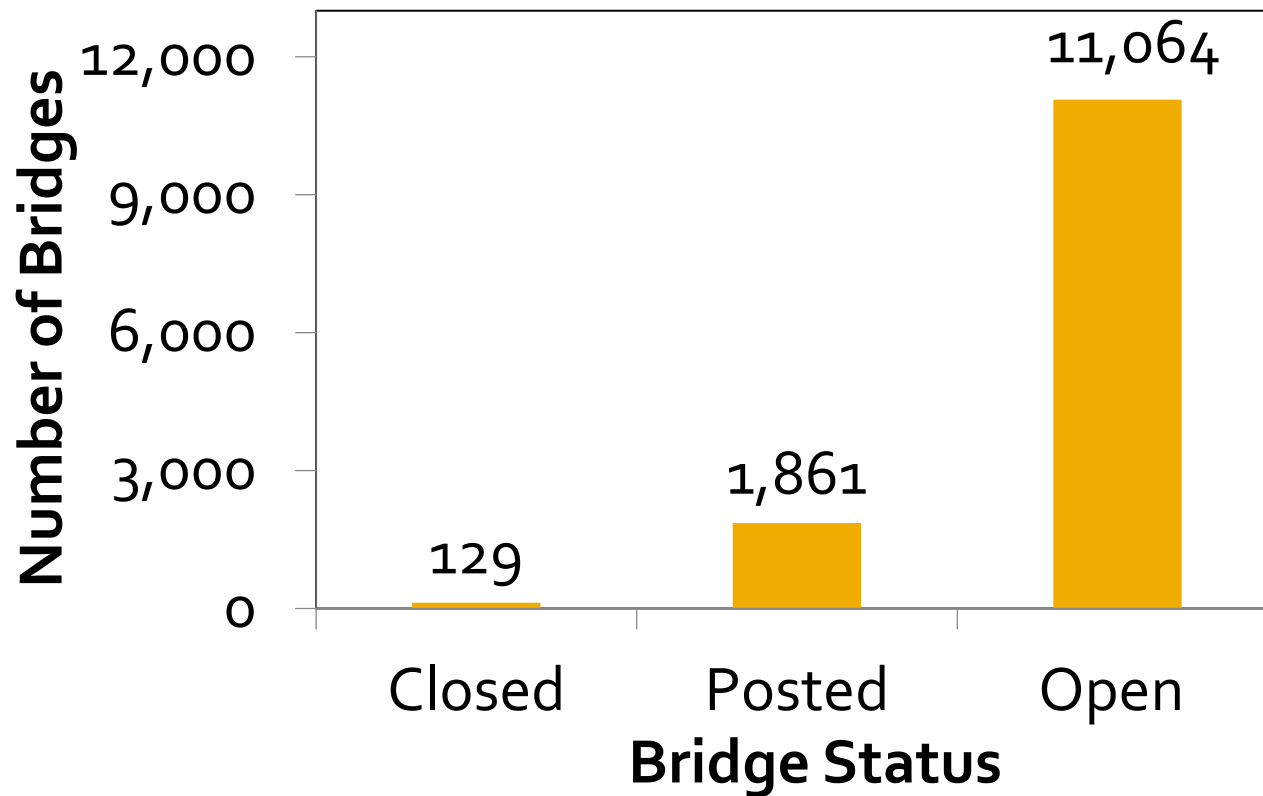
Bridge Condition Assessment

- Bridge Deficiency
 - Structurally deficient
 - Restricted loads due to component deterioration
 - Functionally obsolete
 - Does not meet current standards; deficiencies may include inadequate width, reduced load capacity, or alignment that does not meet the standard of the connecting roadway

Bridge Sufficiency Rating

County Type	Number of Bridges	Average Deficient Bridges, %	Average Sufficiency Rating
Urban	212	18.9	80.0
Rural/Mixed	137	18.5	82.3
Rural	118	25.0	76.5

Bridge Condition Assessment



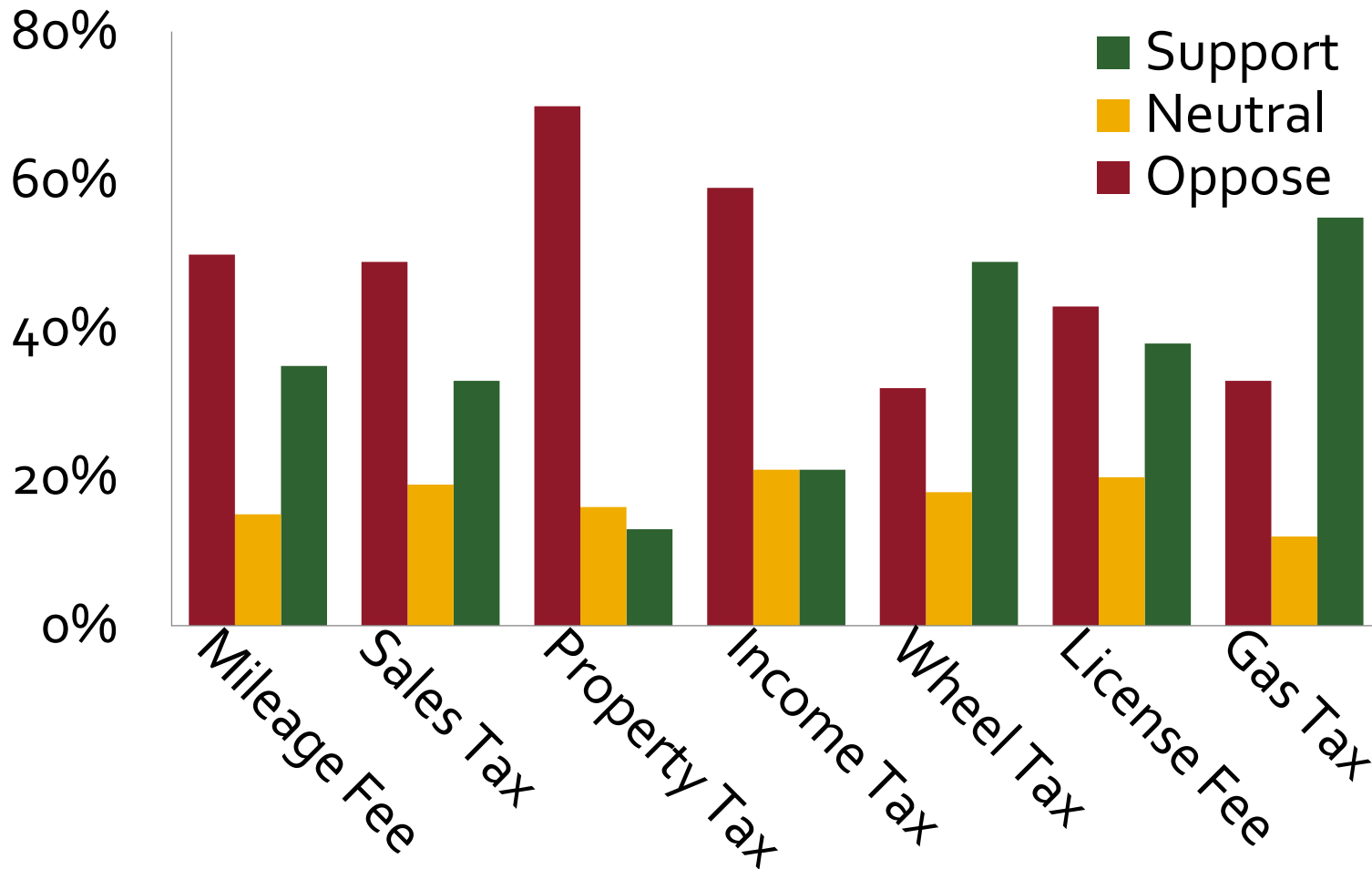
Local Funding Needs

Feature	Short-term (millions)	Long-term (millions)
Roads & Streets	\$3,504	\$715
Bridges & Culverts	\$1,169	\$117
Safety Improvements	\$706	\$26
Total	\$5,379	\$858

Road Funding Survey

- 10 minute video provided information
 - Only 16% of respondents completely understood road funding before presentation
- 18 multiple choice questions regarding funding preferences, driving habits and demographic information
- Responses from around the state

Road Funding Survey



Summary

- Local transportation infrastructure critical to Indiana agriculture and rural communities
 - Approximately half of local roads samples are in poor to fair condition
 - Almost 25% of local bridges are deficient
 - Adequate funding remains a question

Thank You!

