

Transportation Infrastructure Revenue Subcommittee (TIRS)

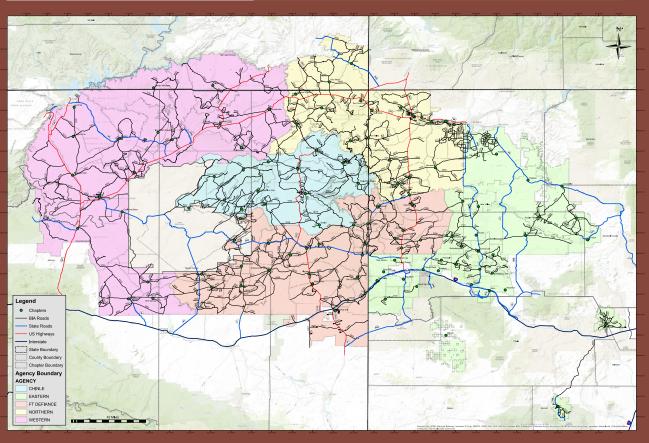
New Mexico Highways on the Navajo Nation and Rural Road Needs

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The Navajo Nation has 14,733 miles of roadway



Navajo DOT's Mission:

 Plan, implement, improve and maintain a safe transportation infrastructure for the Navajo
 Nation through innovation and partnership



Navajo Nation's Long Range Transportation Plan goals

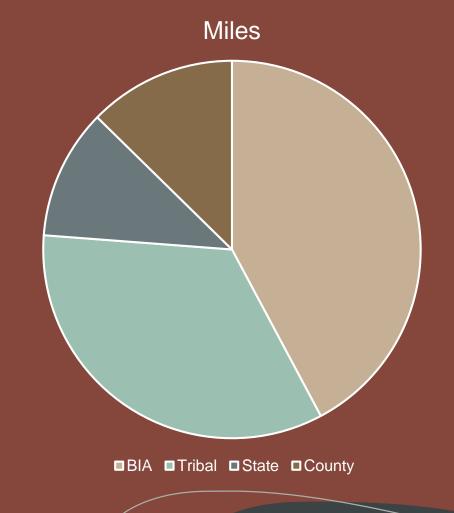
Navajo Nation Long Range Transportation Plan

- Take care of the system
- Enhance existing partnerships and create new partnerships
- Maximize transportation investment effectiveness
- Enhance safety
- Create connections
- Provide options
- Promote economic development



Roadway Ownership

- 6,217 miles of BIA Roads
- 5,010 miles of Tribal Roads
- 1,642 miles of State Routes
- 1,864 miles of County Roads





Roadway Surface

86% (12,760 miles) of the
 Navajo Nation roads are earthen dirt

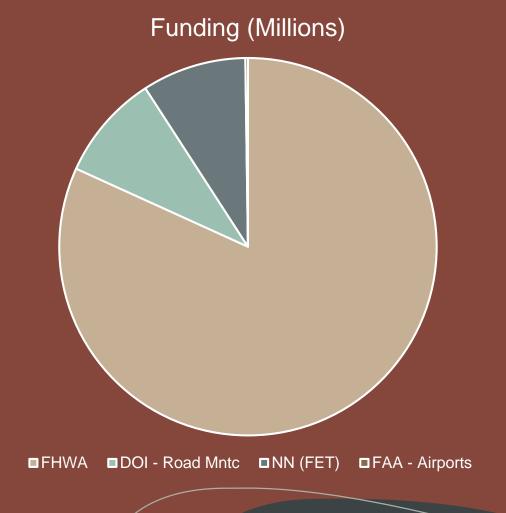


N11 in Mariano Lake Chapter



Transportation Funding

- NDOT and BIA receive \$65M annually for transportation funding
 - \$55 million from Federal Highway Administration (TTIP)
 - \$8 million from DOI for BIA Road
 Maintenance Program
 - \$7 million from Navajo Nation Fuel Excise Tax (FET)
 - \$150,000 from FAA for six airports





Improvement Strategies for Navajo DOT

Average Daily Traffic	Strategy
Greater than 1,000	Asphalt pavement
500 to 999	Double chip seal with gravel
250 to 499	Gravel and soil stabilization
100 to 249	Stabilized soil
Less than 100	Bladed dirt road



Costs to improve roadways:

- \$700/mile to blade an existing dirt roadway
- \$400,000/mile to grade, drain and apply soil stabilization to an existing dirt roadway
- \$3.3M/mile to complete full reconstruction
- Material & labor costs are inflated due to a lack of sources and long hauling distances
- 539 miles of highest travelled dirt routes (ADT > 1000 vehicles), the Nation would need approximately \$1.6 billion



Bridges

- 66 (37%) of 179 bridges in the Navajo Nation need repairs or replacement
- New bridges cost \$2 \$5 million





N108 bridge in Tohatchi Chapter



Preserving the System

- 31% of the Nation's paved roadway system is classified as Good, Satisfactory or Fair in the BIA's inventory
- BIA's \$8M/yr. maintenance program funding is not sufficient to meet the needs of the system
 - Approximately \$1 to \$1.7 million annually is spent on the paved roadway system
 - The remaining funds are allocated to emergency erosion/culvert repairs, snow removal and blading of the dirt roadway system
- The BIA's Deferred Maintenance Assessment of Roads (DMR) has an approximate shortage of \$14 to \$16 million annually





<u>Preserving the System - Comparison</u>

- BIA maintains approximately 6,000 centerline miles of roadway
- Using \$8M/year budget, this equates to \$1,333/mile annually
- New Mexico DOT maintains approximately 12,272**
 centerline miles of roadway
- Using \$130** M/year budget, this equates to \$10,593
 /mile annually



** = values taken from 2019 NMDOT Transportation Asset Management Plan (TAMP) - https://www.dot.state.nm.us/content/dam/nmdot/planning/NMDOT_TAMP.pdf



N5113 Beclabito







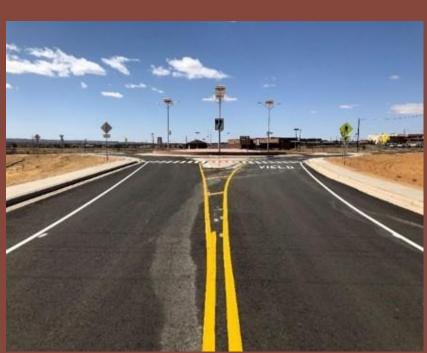
N7113 Mariano Lake

C9 Rock Springs



N12 Tsaile to Wheatfields





N27 Nazlini to Chinle



N9402 Lupton



In Summary

- The Navajo Nation has a vast/large roadway system (>14,000 miles)
- The Navajo DOT's mission is to improve and maintain that system
- Navajo DOT and the BIA have been historically underfunded in regard to new construction and maintenance funding programs
- Navajo DOT appreciates the State of New Mexico's Funding opportunities as they help reduce the gap in funding







Questions???