

Preservation Planning

Overview

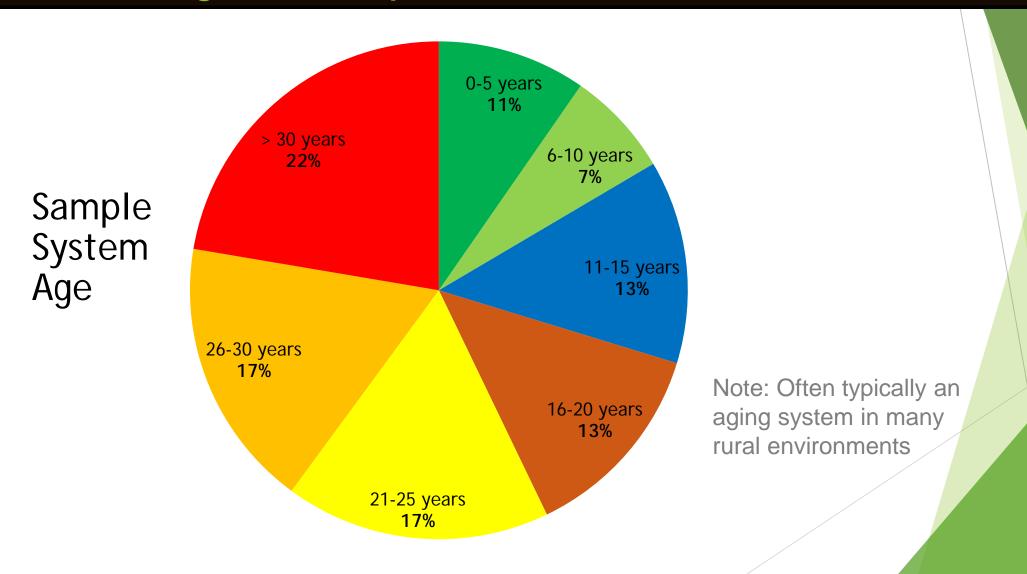
Rural Counties across America are struggling with the crippling effects of keeping up with their crumbling infrastructure. A number of rural counties in Minnesota undertook innovative planning activities as a way to manage their respective transportation systems



- 1. Leverage existing tools
- 2. Analyze existing road conditions
- 3. Manage funding opportunities versus road conditions
- 4. Utilize most current and innovative tools available
 - Detailed analysis and focused planning
 - Targeted communication methods
- 5. Develop customized solutions for future needs
- 6. Promote awareness of best practices

Integral to each step is: Education and Communication

- County Boards
- General Public

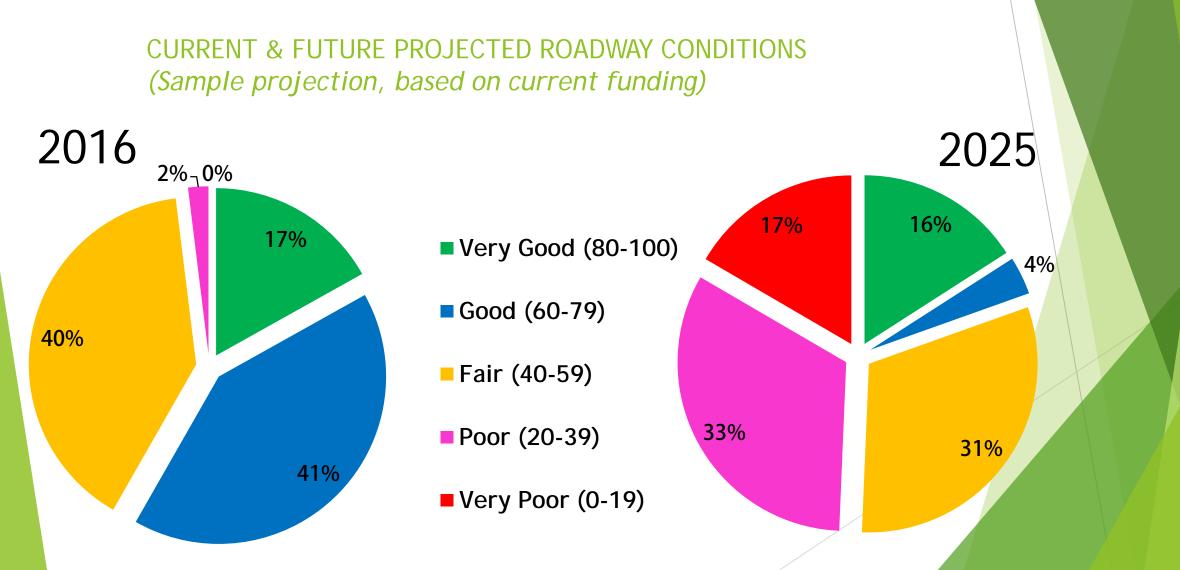


Sample Rural County
Annual Roadway Need - \$15.2 million/yr.

Current Expenditure \$3.4 million/yr.

Year X Funding Gap \$11.8 million/yr.

Note: This GAP analysis only represents pavement preservation and does not include roadway reconstruction needs



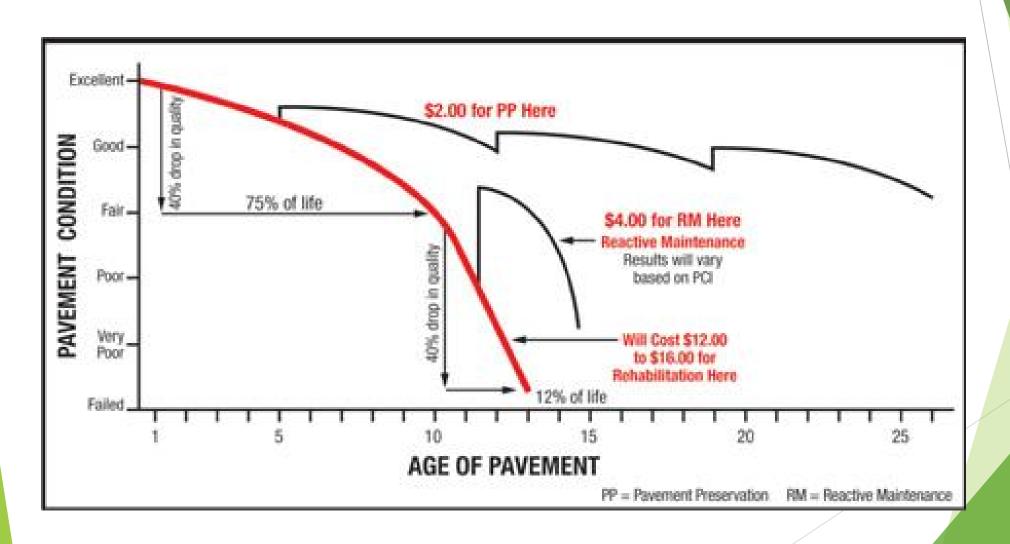
Common Rural County Project Prioritization



Prevent "fair condition" roads from falling into "poor condition"

- Use Pavement Management System to evaluate priorities, based on good data, new management policies, and performance measures
- Prioritize preservation strategies over more expensive reconstruction fixes
- ► Consider scope and cost

Common Rural County Typical Pavement Life Cycle



Pavement Preservation Planning Public / Stakeholder Outreach

Public Education and Engagement

Stakeholder Participation, Education, and Engagement

Targeted Group Engagement

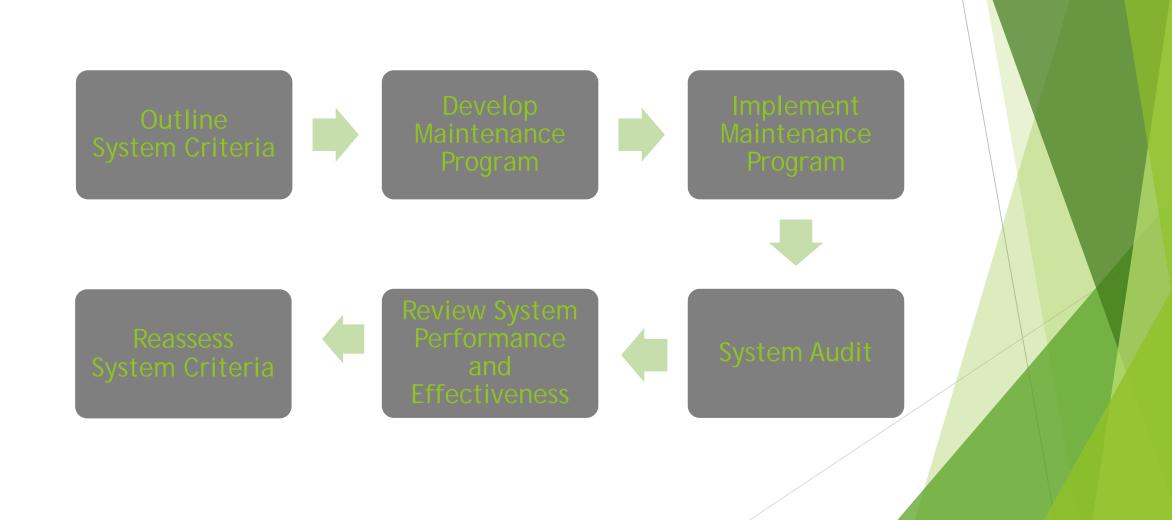




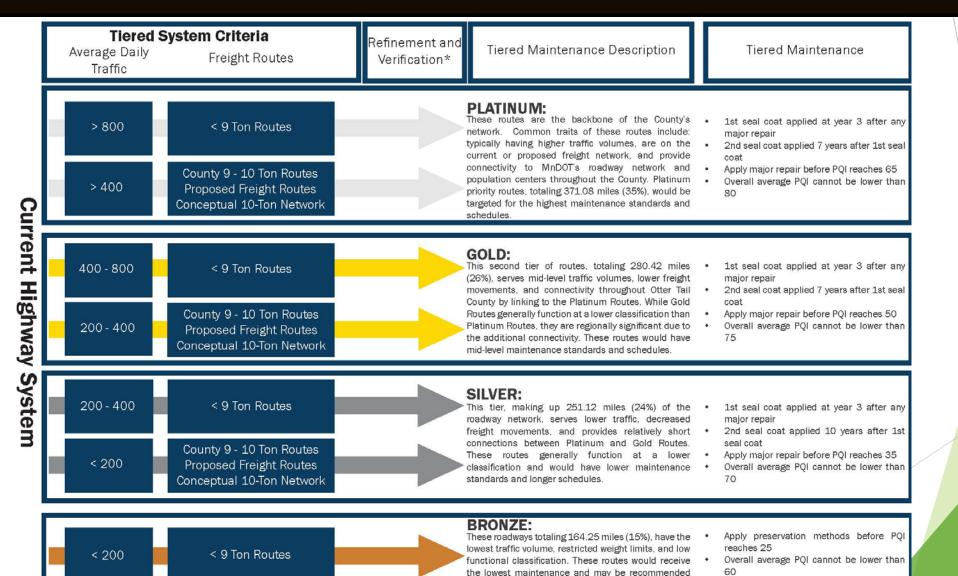
Pavement Preservation Planning Innovative Management Strategies

- ► Reduce System Size
- Develop a Tiered Roadway Maintenance Program
- ▶ Develop Performance Measures & Schedules
- ► Identify New Funding Sources
- Establish a Transparent Project Prioritization Process
- ► Promote Expanded Public Engagement

Pavement Preservation Planning Tiered Preservation System



Pavement Preservation Planning Tiered Preservation System

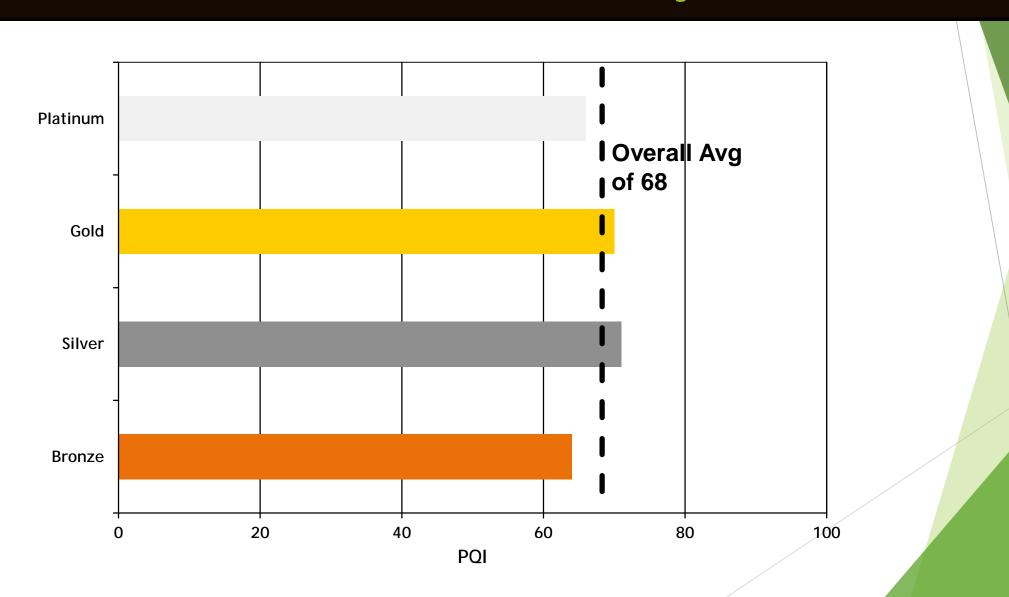


for an alternate surface or a turnback.

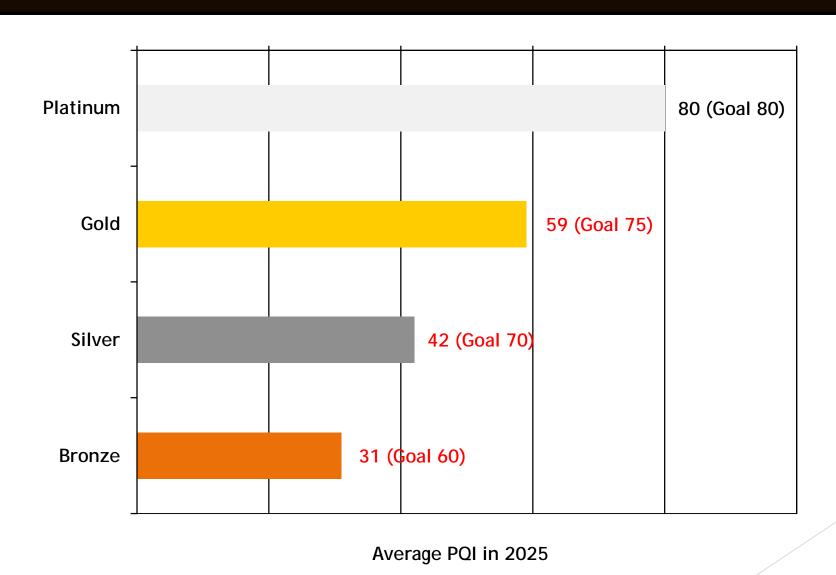
Pavement Preservation Planning Funding Opportunities

- ▶ Wheelage Tax (\$10/vehicle)
- ► Local Option ½ cent Sales Tax
- Bonding
- Increased local road and bridge levy
- ► State gas tax and/or registration fees
- ► Gravel Tax

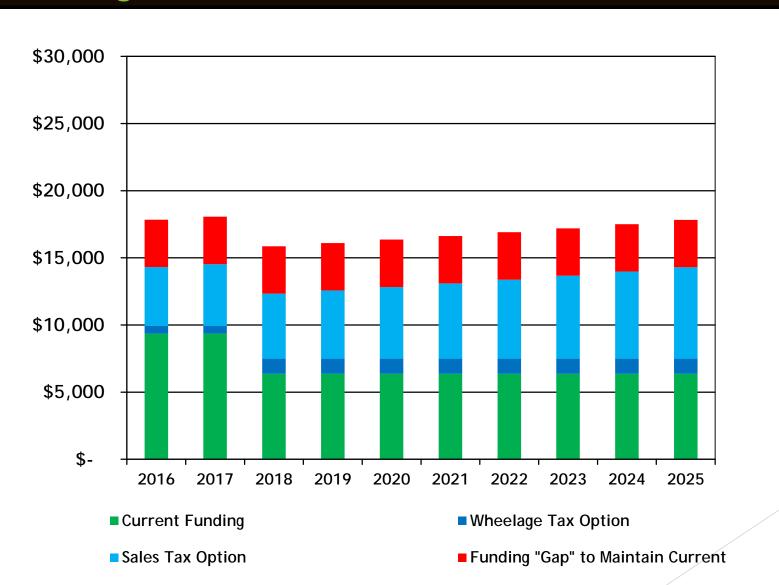
Pavement Preservation Planning Current Condition w/ Tiered System



Pavement Preservation Planning Resulting Tiered Conditions w/ Current Funding



Pavement Preservation Planning Funding Needed to Maintain Current Condition



Pavement Preservation Planning Rural County Lessons Learned

- Emphasizes the Need for a Long Range Vision
- Accurate Data is a MUST
- Pavement Asset Management System Helps
- Implement an Annual Plan Update Process
- Process Removes the Politics from Project Selection
- Public Outreach and Education Provides an understanding of what the future holds and garners support

Contact Information

Craig Vaughn, PE, PTOE SRF Consulting Group, Inc. cvaughn@SRFConsulting.com

Tim Babich, PE SRF Consulting Group, Inc. tbabich@SRFConsulting.com