

## Transforming Akron's Transportation: A Two-Decade Partnership Between PMG and AMATS

For over 20 years, PMG has partnered with AMATS to improve Greater Akron's transportation infrastructure.

### Overview

AMATS is dedicated to planning an efficient and effective transportation system for the Greater Akron area. The agency oversees more than 3,422 lane miles of federal-aid roadways and 947 bridges across multiple municipalities, addressing diverse roadway types subjected to varying traffic volumes and environmental conditions. This responsibility includes monitoring existing transportation networks, identifying capacity or safety issues, and forecasting future population and employment growth to inform transportation improvements.

### Challenge

Managing such an extensive and varied network presents significant challenges, particularly in balancing roadway maintenance with limited budgets while ensuring safe, reliable travel for the communities served.

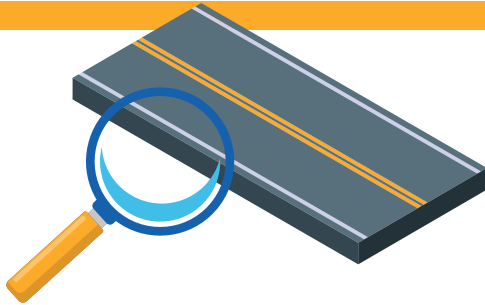
Budget constraints can lead to reactive repairs driven by immediate needs, leaving parts of the network under-maintained and risking higher long-term costs.

### PMG's Solution

AMATS collaborated with PMG to harness our comprehensive pavement management solutions and industry-leading expertise in transportation infrastructure. Through PMG's RoadINsights platform, powered by Expert Control and AI, the project team conducted detailed roadway assessments to support data-driven decision-making.

### Key Features of PMG's Solution

- Pavement Condition Index (PCI) Assessment:** PMG assisted AMATS in implementing the Pavement Condition Index (PCI) methodology, a numerical indicator ranging from 0 (failed) to 100 (excellent) that rates the surface condition of pavement. This system, standardized by ASTM (D6433-20), evaluates pavement distress through visual surveys, providing a consistent measure of pavement health.



**2. Data-Driven Maintenance Planning:**  
By leveraging PCI data within the PAVER™ system, PMG enabled AMATS to make informed decisions regarding maintenance priorities, ensuring that resources were allocated effectively to maintain and improve pavement conditions across the network.

**3. Transparent Reporting and Communication:**  
PMG facilitated open communication with the public and council members by providing clear, data-backed reports. This transparency helped AMATS maintain community trust. Open the [link](#) to learn more.

## Results

The partnership between AMATS and PMG led to significant improvements in the region's transportation infrastructure:

- Enhanced Pavement Condition Assessment: The implementation of PCI assessments provided AMATS with a clear understanding of pavement conditions, facilitating targeted maintenance and rehabilitation efforts.



AMATS utilizes PMG's RoadINsights Dashboard to view locations, share roadway conditions with members, and view our region-wide PCI. AMATS has been extremely pleased with PMG's professionalism, customer service and ability to complete the work in a timely manner. They have overall been a great partner.



-Akron Metropolitan Area Transportation

- Informed Decision-Making: The use of PAVER™ software allowed for the systematic analysis of pavement data, supporting strategic planning and efficient allocation of maintenance resources.

- Improved Public Communication: Data-driven insights helped AMATS engage stakeholders and the public, reinforcing its commitment to improving the transportation network.

## Additional Insights for Public Works Professionals

- Standardized Condition Assessment: Implementing PCI methodologies provides a uniform framework for evaluating pavement conditions, facilitating comparisons and benchmarking across different regions.

- Leveraging Specialized Software: Utilizing tools like RoadINsights enhances the ability to manage vast amounts of data, predict pavement deterioration, and plan maintenance activities proactively.

- Data-Driven Transparency: Sharing assessment data with the public fosters transparency and builds trust in the management of public infrastructure.

## Conclusion

The collaboration between AMATS and PMG exemplifies how data-driven pavement management practices can transform a regional transportation network. This partnership sets a high standard for community-focused, sustainable infrastructure management, ensuring that the Greater Akron area benefits from a safe, efficient, and well-maintained transportation system.



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