

Enhancing a Strong Road Network in a Small-Sized Township

Background

Twinsburg Township, a small-sized municipal township with a road network of 16 centerline miles, has been collaborating with Pavement Management Group (PMG) since 2014. Over the years, this network has experienced both highs and lows in its condition. When PMG first engaged with the township, the network had an above-average Pavement Condition Index (PCI) of 78, which, by most standards, is a solid score for an overall network. With the right funding, thorough analysis, and strategic planning, anyone can improve their roads and build a great network. However, sustaining that performance over time requires continuous effort and expert-driven management.

Challenge

The main challenge for Twinsburg Township was optimizing the use of their annual budget. Like many municipalities, the township's approach often prioritized the most visibly deteriorated roads, which are understandably a concern for residents.

However, this focus left fewer resources for preventive maintenance, which could extend the lifespan of roads in better condition. Without a data-driven approach, improving the PCI and ensuring long-term sustainability became more challenging.

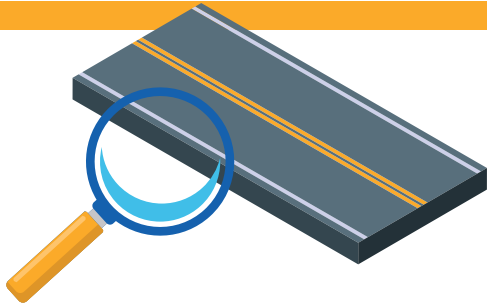
Solution Implementation with Pavement Management Group (PMG)

The city partnered with Pavement Management Group, experts in tailored pavement management solutions. PMG provided their all-in-one pavement management system powered by the RoadINsights platform, integrating web and GIS features with HD video. This advanced system allowed for a more accurate, expert-driven analysis of the city's pavement needs, providing a clear cut idea on how to improve the overall network.

Key Features of PMG's Solution

1. Data-Driven Analysis

PMG's solution provided a comprehensive assessment of the entire roadway network, utilizing the latest in pavement analysis technology. This allowed for a detailed understanding of pavement conditions across the network, far beyond the most visibly deteriorated roads.



2. Preventive Maintenance Strategy

With PMG's guidance, the city adopted preventive maintenance strategies, including crack sealing, microsurfacing, and rejuvenation treatments, tailored to different segments of the road based on their specific conditions and deterioration rates.

3. Optimized Budget Allocation

PMG's platform facilitated an optimized allocation of the annual budget, focusing on interventions that offered the most significant return on investment in terms of extending pavement life and improving overall road quality.

4. Transparent Reporting and Communication

RoadINSights enabled clear and transparent reporting of conditions and treatments, which was crucial in building trust with the public and council. The ability to visually demonstrate the condition of the roads and justify the maintenance strategies helped in managing public expectations and enhancing community engagement.

Data-Driven
Decisions Today,
Better Roadways
Tomorrow.

Results

After implementing PMG's pavement management solution, Twinsburg Township experienced a noteworthy transformation in its pavement management approach and outcomes:

- Improved PCI: With PMG's support, the township's average PCI improved from 78 to 84, achieving better road conditions with effective planning.
- Cost Efficiency: By focusing on preventive maintenance, the township reduced the need for costly reactive work, covering more road miles within budget.
- Enhanced Public Confidence: Transparent data-driven insights and clear communication through RoadINSights improved public perception of the township's pavement management efforts.

Conclusion

The collaboration with Pavement Management Group empowered Twinsburg Township to follow a data-driven pavement management strategy. Their already strong road network improved even further, enhancing road quality and longevity while ensuring efficient use of taxpayer funds, and keeping their community happy. This success sets a benchmark in road management that other municipalities could follow to optimize their networks.



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