BETTER ROADS CASE STUDY

DUBLIN, OH

Dublin is a thriving community in central Ohio, just northwest of Columbus. It is home to nearly 50,000 residents, over 4,300 businesses, and more than 20 corporate headquarters, and consistently ranked as one of the safest cities in America.

Residents and businesses take advantage of responsive services, attractive housing, superior public education, direct regional highway access, abundant park space, thoughtful and strategic planning, innovative ideas and technology, and a dynamic community life.

In an effort to improve their pavement maintenance processes, Dublin partnered with Michelin Better Roads to conduct an objective road assessment on their 278 centerline-mile road network.

CHALLENGES

Prior to working with Michelin Better Roads, Dublin used a vendor to perform pavement inspections every other year using camera and laser scanning technology. Data collection typically took a few weeks to complete; however, data analysis took months.

The problem was that the data from their previous assessment method needed to be converted to work with the pavement management system, so many valuable man-hours were spent making that data conversion.
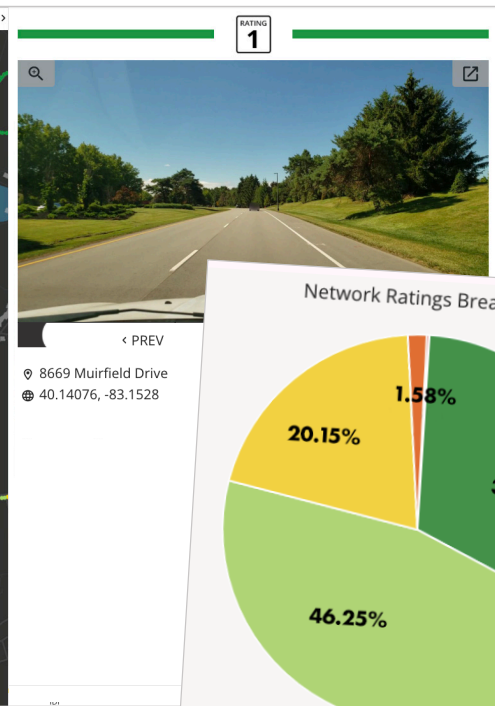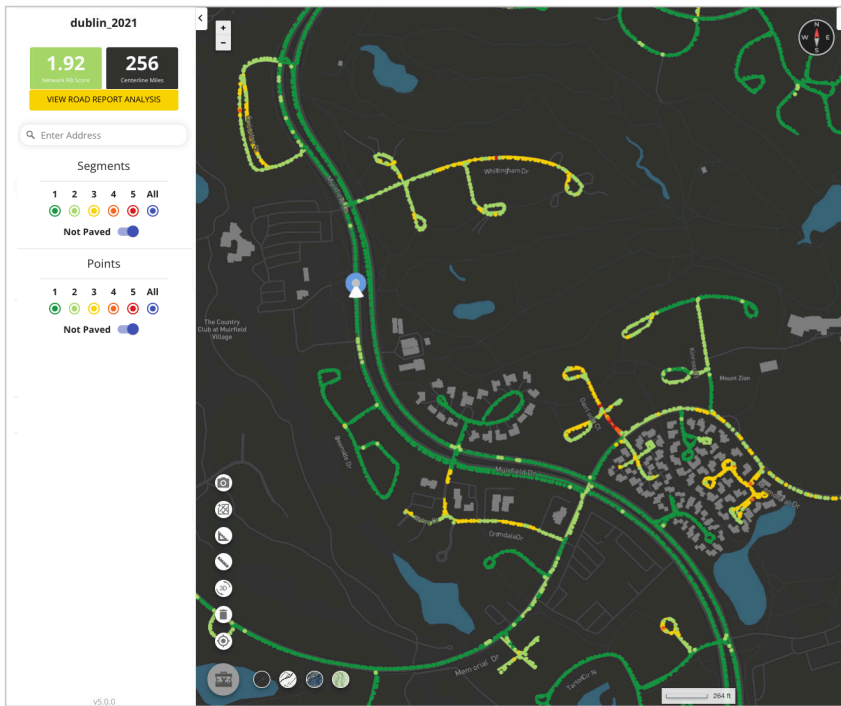

CHALLENGES

- Wanted to reduce the time and effort required to convert and analyze their road condition data and improve their pavement maintenance processes.

SOLUTION

- Michelin Better Roads: Fast, objective, affordable road assessment

RESULTS

- Saved valuable man-hours using RoadWay to complement their pavement management program in ArcGIS.
- Able to abandon using their third-party pavement management software.

Top left: An overview of Dublin, OH road network on RoadWay.
Bottom right: Dublin's overall road network ratings as seen in the Road Report Analysis on RoadWay.

SOLUTION

With the intention of reducing the time and effort required to convert and analyze their road condition data, Dublin adopted Michelin Better Roads' pavement assessment platform.

They began with data collection, which was completed quickly with a smartphone. Michelin Better Roads then used artificial intelligence to deliver conditional 1-5 ratings for every 10-foot section of roadway and delivered the results on an interactive map. Roads rated 1 were considered in the worst condition and colored red, while the best roads were rated 5 and colored green.

RESULTS

Dublin was able to save valuable man-hours using Michelin Better Roads's high-definition images with location and time stamps to complement their pavement management program in ArcGIS. The simple 1-5 rating scale and color-coding made the results easy to understand and communicate across their audiences.

> **" MICHELIN BETTER ROADS HAS PROVIDED DUBLIN WITH SIMPLISTIC, EASILY DIGESTIBLE PAVEMENT DATA. "**

- Robert J. Taylor, PE
Director of Asset Management & Support Services

Because Michelin Better Roads image and ratings data was able to seamlessly integrate with ArcGIS, Dublin was also able to abandon using their third-party pavement management software.

Dublin is now using Michelin Better Roads data as a basis for creating their annual Street Maintenance Program.

MICHELIN
MOBILITY INTELLIGENCE

Automate your road assessment process with artificial intelligence

✉ info-mmi@michelin.com

🌐 mobilityintelligence.michelin.com