City of Savannah, GA

Challenges

Previously the City of Savannah recruited, trained and managed interns to assess their roads. This was an inefficient process which was expensive, highly subjective and time intensive. Unfortunately, this was the only and most cost-effective scenario they had at the time.

Time

Six interns assessed one-third of the city's roads each year. It took the city three years to complete one road condition assessment. The long data-collection cycle often forced city officials to use outdated information when planning for road paving and maintenance activities.

Subjectivity

Because of the complexity of the task, interns rated the roads differently regardless of the training that was provided. Moreover, despite their best efforts, using 18 different interns to assess roads over three years led to highly subjective assessments. The city had difficulties making city-wide pavement decisions with this data.

Cost

The necessary intern approach included recruitment, training, providing equipment, supervision, and compensation: a total cost of approximately $130,000 over three years. Savannah's use of interns to assess their entire road network was the best option at the time, when weighing up their approach against other expensive alternatives.

SAVANNAH
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CLIENT

City of Savannah, GA

CHALLENGES

- The City of Savannah relied on 18 interns over a 3-year period to complete an assessment of their 700-mile road network
- This was time-consuming, subjective and laborious

SOLUTION

- RoadBotics by Michelin: Fast, objective, affordable road assessment

RESULTS

- The city received a comprehensive road condition assessment, completed in just 3 months
- The city saved 60% of the cost of the traditional approach
- The RoadBotics by Michelin assessment data became a foundation for the city to make data-driven pavement management decisions

View of RoadBotics by Michelin's RoadWay online dashboard

Solution

The City of Savannah received RoadBotics by Michelin's baseline objective data on measuring the effectiveness of maintenance, repair, and repaving of their roadway network. The collaboration with the city included data collection using smartphones, AI-based condition assessment of the collected data and delivery of the final assessment on RoadWay - RoadBotics by Michelin's GIS data visualization platform. The city also received shapefiles of the assessment data for use with their existing in-house GIS system and CSV files for planning and prioritizing.

Time

The city's roads were evaluated in two phases - the first 350 miles were completed in under three months in 2018. The second half of the project was completed in early 2019.

For cities under 1000 miles, RoadBotics by Michelin provides a comprehensive condition assessment within 90 days from the date of signing the agreement.

Objectivity

The City of Savannah used RoadBotics by Michelin's objective data to make informed decisions on their pavement maintenance and prioritize the use of limited infrastructure funds.

RoadBotics by Michelin's pavement assessment is an automated process that uses A.I. algorithms to determine the condition rating of the road. These algorithms are trained from RoadBotics by Michelin's global library of pavement distresses which allows the A.I. to evaluate roads anywhere in the world from a universal perspective. Most importantly, the automated process removes all the subjectivity that comes with visual inspections.

Cost

RoadBotics by Michelin provided a comprehensive assessment of Savannah's entire 700-mile road network for a price of $50,000. The city saved over $80,000 and received a higher quality product in a shorter amount of time. The cost-saving on the road assessment provides

Results

	Visual Inspection	RoadBotics By Michelin
Cost	$130,000	$50,000
Time	3 Years	3 Months
Data Quality	Subjective	Objective

Previous pricing model

Savannah saved over $80,000 in costs. The city received a complete assessment of their road network in under three months, which previously took 36 months to complete. The City of Savannah also received accurate, objective, measurable data of the city's entire road network faster, cheaper, and in a manageable platform.

The consistent and comprehensive data allows the city to make informed, objective decisions that facilitate the most efficient use of limited infrastructure funds and support establishing the city's repavement and repair rates for the future.

RoadBotics by Michelin

Empowering cities to assess roads objectively using artificial intelligence

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