

Pavement Preservation Services



Fugro is a leading pavement consulting engineering firm in the United States. We specialize in pavement research and development, pavement management support, pavement engineering and evaluation, pavement materials research and testing, and pavement preservation. We offer our clients the professional services necessary to develop and implement a total pavement preservation program.

The principal components of an effective pavement preservation program are applying the appropriate treatment at the correct time to a roadway. Although stated simply, these elements require an agency to assess the condition of roadways to determine test sections, choose a proper treatment for the existing condition, and develop a program to maintain future pavement performance. This enables a program to be cost-effective and to provide longer service life and user satisfaction.

Establishing Program Guidelines

A pavement preservation program provides a long-term strategy to enhance pavement performance. The program involves many components including identifying a program coordinator to document environmental and/or safety issues. It is also important that the guidelines establish metrics to measure progress.

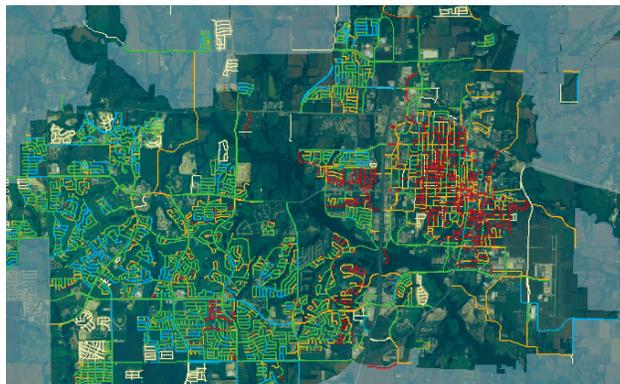
Determining Maintenance Needs

A contracting agency should have a complete inventory of all the roads and streets under its jurisdiction. This inventory should contain information such as types of pavement surfaces, layer thicknesses, materials information, traffic, and existing structural and functional conditions.

The other facet of establishing needs is defining the threshold values that instigate a pavement preservation activity for a



Fugro's Automatic Road Analyzer (ARAN)



Inventory of pavement conditions



Core sampling

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given condition. These values can be based on criteria desired by the agency or in consultation with Fugro to determine optimum threshold values for a budget.

Provide a Framework for Treatment Selection

It is important that the selected maintenance treatment be the correct treatment for the type and level of distress, climate, and expected level of service. Understanding the performance features of potential treatments for an agency is extremely important in selecting the most cost-effective treatment. Fugro professionals assist our clients to develop this framework based on decades of experience and research on various pavement treatments.

Develop Cost-Effective Analysis Procedures

There are a number of different procedures used to determine the most cost-effective treatment. Many are simple and straightforward while others are far more complex. Fugro professionals work with clients to determine the best approach to fit their needs.

Provide a Mechanism to Determine Program Effectiveness

This aspect of a comprehensive pavement preservation program is designed to provide a mechanism for your agency to determine how effective the program is in accomplishing your pavement improvement goals. This is accomplished with the establishment of a management feedback system that appraises program leaders of the progress, or lack thereof, of the program goals.



Analysis of pavement condition



Recommendation of treatment type



Cost-effective data collection and analysis

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