



# Pavement Consulting Services



Fugro is a leader in pavement engineering. Through decades of pavement research and design on programs like the Federal Highway Administration's (FHWA's) Long-Term Pavement Performance (LTPP) program, Fugro offers a wealth of experience in pavement evaluation, design, management and preservation.

Fugro's Pavement Engineering Group offers state-of-the-practice services and equipment. Our engineers have managed large and small projects around the world for public and private entities. Projects include roadways, ports, airports, and intermodal facilities. Services include:

## Pavement Evaluation

### Structural Evaluation

- Deflection testing
- Ground Penetrating Radar (GPR) testing
- Visual distress surveying (automated or manual)
- Dowel alignment testing using MIT Scan 2
- ACN/PCN calculation for airfield pavements
- Materials sampling and testing
  - Coring and sub-surface boring
  - Materials testing
  - Superpave asphalt mix design and analysis

### Functional Evaluation

- Ride quality assessment
- Friction testing
- Asset and sign inventories
- Video logging
- GPS referencing
- GIS integration



Fugro's Automatic Road Analyzer (ARAN)



Ground Penetrating Radar (GPR)



Friction testing

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## Pavement Design

- Mechanistic-empirical design
- Life cycle cost analysis
- AASHTO design procedures
- Designs tailored to meet specific performance criteria

## Pavement Management

- Data collection (inventory/inspection)
- Implementation and integration
- Performance modeling
- Maintenance and rehabilitation strategies
- Budget analysis and work plans

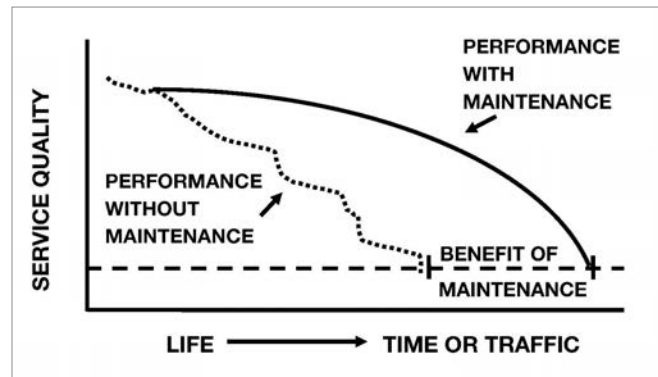
## Pavement Preservation

- Treatment type selection
- Selection of candidate sections
- Custom program development
- Budget optimization

These core services not only allow agencies to improve their network conditions, but to comply with government regulations and improve their bond ratings. These regulations include GASB 34, ADA compliance, MAP-21, reflectivity, and others.



*Pavement design recommendations*



*Impact of preventative maintenance on pavement performance*



*Treatment type analysis*

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