



Bridge Structural Risk Assessment and Continuous Monitoring Service

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STRAAM: An Integral Part of Your Transportation Asset Management Solution

STRAAM addresses the challenges facing bridge infrastructure by providing:

- Structural integrity assessment of bridges
- Assessments of bridge vulnerabilities such as scour
- Continuous monitoring services
- Prioritization of repair for budgeting capital expenditures and maintenance
- Information to determine if bridge's useful life can be extended

STRUCTURAL INTEGRITY ASSESSMENTS

- Non-invasive, non-destructive techniques
- Global, top-down approach
- Dynamic, not static
- Bridge can remain open during monitoring
- Ambient vibrations – no other excitation forces needed
- Provides a diagnosis of the bridge's condition expressed in terms of strength reduction or serviceability capacity

STRAAM'S DIFFERENTIATION – THE DYNAMIC SIGNATURE

- Conventional monitoring methods acquire local data that characterize localized structural behavior
- STRAAM's Dynamic Signature delivers useful information and analyses: provides quantification of bridge's global structural behavior, performance, and degradation
- Determines rate at which bridge degradation is occurring

CONTINUOUS MONITORING SERVICE

- Reduces risk: determines if bridge is in imminent danger of partial or complete collapse
- Evaluates continuously in real time and reports imminent risks instantaneously
- Alarms can be instantly sent to relevant project personnel
- Real time data can be made available to bridge owners/engineers

EMERGENCY RESPONSE PROGRAM

- A comparison of the dynamic signatures of the pre- and post-event impacts from barges, trucks, blasts or extreme weather – provides an immediate diagnosis of the bridges changed condition

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