



STructural Risk Assessment And Management For Marine Structures

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**Piers, Mooring & Berthing Dolphins,
Bridges, and Offshore Structures
degrade over time due to natural causes such
as water, salt, or by vessel impacts.**



STRAAM provides ports infrastructure with rapid assessment of structural integrity and real time structural monitoring on an as-needed or permanent basis.

- Enhance the safety, reliability, and sustainability of ports infrastructure
- Prioritization of repair for budgeting capital expenditures and maintenance
- Bridges gap between design of structure and reality of its current structural integrity

STRUCTURAL INTEGRITY ASSESSMENTS

- Non-invasive, non-destructive techniques
- Global, top-down approach
- Dynamic, not static
- Port facilities can remain open during monitoring
- Ambient vibrations – no other excitation forces needed

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 and provides quantification of global structural behavior, performance, and degradation.

Determines rate at which structural degradation is occurring

Determines if structure is in imminent danger of partial or complete collapse

DETECTION OF DAMAGE

- Pre and post "event" (e.g. ship impact, scour) assessments provides an immediate diagnosis of the structure's change condition

CONTINUOUS MONITORING PROGRAMS

- Evaluates continuously in real time and reports imminent risks instantaneously
- Structures that are threatened by nearby construction
- Structures that experience ongoing structural stress

QA/QC FOR NEW CONSTRUCTION

- Real time comparison of dynamic signature of pier structure under construction and its designed performance criteria

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