Use case

Prevent girders from collapsing with monitoring

Situation

- Runway girders experience dynamic loads from crane movement, leading to fatigue damage over time.
- Inspections are very costly (\$5.000/girder) due to the elevated and hard-to-reach location of the girders.
- Known cracks required ongoing monitoring to limit unexpected downtime.

Solution

- Installed 8 sensor probes per girder in a one-time setup to enable continuous monitoring.
- Provided the asset owner with access to an online dashboard offering daily insights.
- Enabled proactive maintenance by detecting changes in realtime.





sensor probes installed



\$1,000 monitoring fee per girder





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Results

- Continuous monitoring ensured uninterrupted operations.
- Significantly more data points than traditional inspections.
- Dashboard provides instant, easy-to-understand insights into the actual situation.







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