

SUCCESS STORY: SERVICE LIFE EXTENSION

Digital survey saves quay wall

With data instead of assumptions: Digital structural analysis prevents port shutdown and saves millions

Challenge

At a Northern German seaport, a central quay wall was at risk of being closed. A structural recalculation indicated a theoretical utilization of 150%, which would have required immediate shutdown. Such a closure would have had a massive impact on port operations.

Core problems

- Calculation-based overload without measurement data
- Risk of premature shutdown
- Lack of basis for reliable assessment

Solution

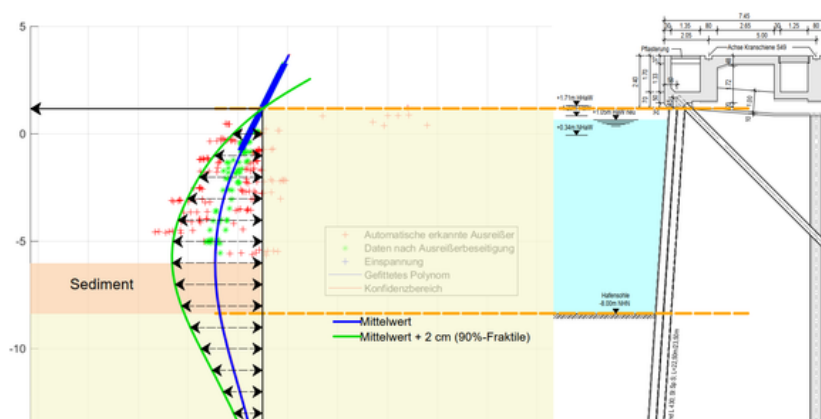
HydroMapper carried out precise surveying above and below water. The data was integrated into InfraCloud and analyzed. Using a bending line approximation, the actual deformation line was calculated – the real structural utilization was only 57 %. The quay wall was fully functional, and closure was avoided.

Result

The recalculation based on the survey data led to massive cost savings. Port operations remained fully possible without restriction.

Outlook

The port operator plans to use the HydroMapper methodology regularly in the future to digitally monitor critical structures and identify risks at an early stage – as a building block for sustainable, climate-resilient port management.



Deformation analysis of a steel sheet pile wall

Impact in figures

- Millions saved by avoiding shutdowns
- Maintaining operational capability
- Reliable technical assessment based on real data

Intelligent solutions – precisely tailored to your structural requirements

Contact us

Let's talk about your requirements. We'll show you what's possible with InfraCloud.



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