

SUCCESS STORY: CIVIL ENGINEERING

Digital inventory recording at the Barmbek steel viaduct

Hamburger Hochbahn AG

Basic evaluation for repair planning under extreme boundary conditions

Challenge

The Barmbek steel viaduct has been a central transport structure for Hamburger Hochbahn AG since 1912. Closures are hardly possible, and a traditional inventory would have incurred high costs and restrictions. At the same time, a reliable data basis needed to be created in order to be able to plan future repair measures efficiently.



Viaduct in Hamburg-Barmbek (Ctsu / CC BY-SA 3.0)

Core problems

- Hardly any downtime available
- High logistical effort involved in traditional inventory taking
- Lack of basis for long-term repair planning

Solution

Thanks to InfraCloud, inventory recording has been fundamentally modernized: based on georeferenced photos taken during short closures, the digital model was expanded into a reliable basis for long-term refurbishment and maintenance planning. By sharing the platform, both the client and the engineering firm benefit equally from uniform data, clear structures, and efficiently coordinated processes.

Result

The elevated railway received an intuitive tool for documentation and communication. The digital model provides a consistent basis for repair planning and long-term maintenance of the structure.

Outlook

Hochbahn plans to use InfraCloud regularly in future for measures involving existing infrastructure – particularly for complex or difficult-to-access structures. The platform is to be permanently integrated into strategic maintenance planning.

Impact in figures

- 10% fewer supplements
- 20% lower planning costs
- Reduced downtime

Quote

"InfraCloud enabled us to precisely document a structure that is over 100 years old—as a basis for future-oriented repair planning without disrupting traffic."

— **Lukas Petzoldt**, Hamburger Hochbahn AG

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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