

Autonomous Inspection of Bridges by Bentley Systems

USE CASE



The Challenge

Bridges are among the most challenging infrastructure assets to inspect due to their structural complexity. Yet, regular inspections of bridges are required to assure their safety. In a recent project, Drone Harmony collaborated with Bentley Systems to create a detailed 3D model of a complex railway bridge. The main objective of the project was to design a robust, scalable inspection workflow for bridges based on drones.

The Realization

The entire workflow was carried out by Bentley Systems and included 15 minutes of mission planning and four hours of autonomous flight in Drone Harmony's bridge inspection solution. The collected data was then processed into a 3D model in Bentley's ContextCapture. The models' accuracy allowed the customer to perform digital close-up visual inspections, automatic rust detection, accurate measurements and more.

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