

Case Study

Haskoning

Holyhead Deepwater Jetty Inspection

Objectives

SEP Inspection supported Haskoning in assessing the structural condition of the Holyhead Deepwater Jetty.

The goal was to capture a high-accuracy digital record of over **400 piles and 5 km of beams**, enabling full remote inspection and reporting.

Solution

Using the **DJI M300 RTK with a P1 camera**, SEP Inspection captured **35,000 high-resolution images in three days**.



LiDAR scanning with the Emesent Hovermap provided extra coverage under the deck soffit. All data was processed in **Bentley iTwin Capture** to create a detailed 3D mesh, later hosted in iTwin Experience for remote review.

Engineers could measure, annotate, and plan maintenance directly in the model without revisiting the site.

Results

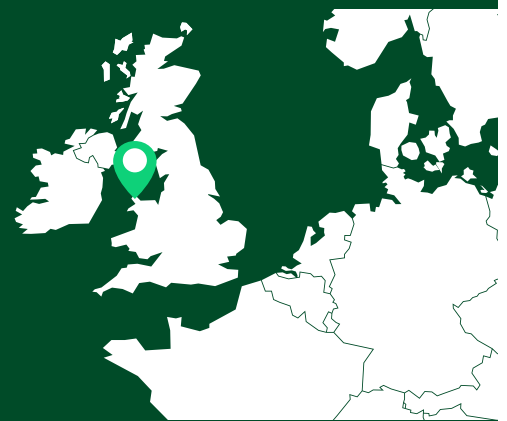
- Inspection completed **60% faster** than traditional methods
- **75% reduction** in fuel use and emissions
- Full access and defect review achieved **entirely remotely**

Learn more

To learn more about our services or read other case studies, visit our website or contact our team.

At A Glance

- **60% faster inspection** completed in two weeks, fully remote
- **Up to 75% less fuel use**, zero disruption to operations
- **Finalist – Bentley Year in Infrastructure 2025**, Geospatial & Reality Modelling



"We often say remote inspection should match the standard of a physical survey, but in this case, it surpassed it."

Mark Hayes,
Director, SEP Inspection