The challenge

Asset management plays a key role in determining the operational performance and profitability of large organisations. Waterways Ireland has the responsibility for the management, maintenance, development and restoration of inland navigable waterways principally for recreational purposes. Waterways Ireland were seeking a software system to assist them in managing the inspection, repair and maintenance of bridges, aqueducts and culverts.

The Bridge Management System (BMS) is an enterprise solution, enabling the maintenance of an inventory, the scheduling and recording of inspections and the management of works required for bridges and related structures.

The solution

BMS was developed using the very latest technologies, including Windows Presentation Foundation to enable access to information via web, desktop or mobile platforms in a consistent and intuitive style.

BMS includes the following key benefits.

- Access to full inventory via Internet Web Browser
- Implementation of automated or manual inspection scheduling
- Supports visual, detailed, underwater and other special inspections
- Mobile application enables recording of inspection information on site
- Essential QA module for signing off inspections
- Full inspection history maintained including photographs and sketches
- Works management scheduling and planning
- Cost estimates to identify strategies and support prioritisation
- GIS with GPS integration to aid visualisation
- A variety of access control levels for different roles and responsibilities
- Thorough reporting engine of inventory, inspections and works
- Powerful admin area enabling customisation of the system

The outcomes

The BMS was successfully implemented within Waterways Ireland and continues to be used to date. Mouchel continues to provide on-going software maintenance and support of the system continuing our long standing relationship with Waterways Ireland.

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