DIGITALISATION & INNOVATION: WE MAKE IT WORK

ENGINEERING REALITY IN A DIGITAL WORLD
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Bilfinger UK are at the forefront of digital transformation with a dedicated digitalisation and innovation team in the UK.

Our aim is to take the promise of digitalisation and make it real for our customer’s operations. We combine our extensive experience in a diverse range of technologies with our core disciplines of engineering and maintenance to ensure that in partnership with our customers we realise the value that digitalisation can bring.

We operate across the UK’s most demanding industry sectors, enhancing the efficiency of assets, ensuring a high level of availability and reducing maintenance costs with our digital capabilities.

Digitalisation benefits we can offer

- 15% Increase in work productivity.
- 15% Increase in effectiveness of the entire plant.
- 30% Reduction in maintenance costs.
- 25% Reduction in unplanned downtime.
- Predicatability of possible defects improved.

(*Average value. Actual values depend on industry sector.)

How we make digitalisation work

We enable the successful digital transformation of our clients with state-of-the-art digital solutions and our deep understanding for the industry. We develop and implement our tailored solutions and accompany our clients on their digital journey with our agile, diverse, cross functional team. With our digital spirit and determined passion we make a difference and ensure measurable, sustainable results to take your industrial plants to the next level.

The first step when considering any digitalisation project is to build the value case. In most instances, the best place to start with is your existing plant data, assessing the process as it currently operates and understanding all aspects of how it is monitored, operated and maintained, together with the associated costs. Applying data analytics to existing data in this way can be a powerful way to highlight opportunities for improvement within the process.
How our digital solutions can help you

**Process Optimisation**

Bilfinger Connected Asset Performance (BCAP®) tool is the digital go-to platform for applications in the process industry! It uses smart data, IoT and AI-based solutions to help you maximise data-based efficiency.

Additionally, with this tool we can build solutions based on our customer’s asset data providing actionable insights and implementing improvements specific to their business using combined competences of software development, data science and domain knowledge.

**Plant Visualisation**

We offer Google street view environment with Bilfinger Industrial 360°, which is low budget, fast and approachable. With this we capture industrial sites digitally and combine this with 3D point data from the site itself, in no time this becomes a transparent information model in HD. This allows virtual equipment to be tagged with extra information and linked to existing databases.

The virtual walkthrough with Bilfinger Industrial 360° can be used for many purposes. The visualisation for tender packages, visualisation of equipment for training, safety inspections, maintenance objectives and turnarounds.

**Digitised Plant Documentation**

Within the process industry there can be thousands of plant Piping & Instrumentation Diagrams (P&IDs), which are either outdated, still analog or spread among disparate Computer Aided Engineering (CAE) systems. Bilfinger PIDGraph solves this problem by digitising P&IDs using artificial intelligence and then converting them into CAE-compatible files.

Bilfinger PIDGraph also makes the process of creating a digital twin much faster and more efficient as it is able to process various formats including PDFs, AutoCAD and Microstation or image files using artificial intelligence.

**Digital Scaffold Management**

The Bilfinger Scaffold Portal digitises the scaffold inventory and management process by introducing significant process improvements, as well as full transparency of activities on-site and by providing supervisory personnel access to a digital twin for all associated documentation.

Historically scaffold management has been predominantly paper-based, which is subject to human error or wilful neglect that can lead to site tonnage anomalies. The Bilfinger Scaffold Portal registers and associates paperwork in a PDF format, which are then stored to meet regulatory requirements.