

INDUSTRY 4.0

THE FOURTH INDUSTRIAL REVOLUTION – ARE YOU READY FOR IT?

Industry 4.0 and digital transformation are providing the opportunity for unprecedented levels of connectivity between systems at all levels of our operations. Industry 4.0 can facilitate improvements to drive efficiencies for those who rely heavily on industrial processes, for example chemical plants and manufacturing facilities. It achieves this by making predictive decisions based on real-time data to provide a deeper understanding of the relationship between all process parameters. Most of us will be familiar with the underlying technologies that enable this as they have been around for a long time, such as instrumentation and control systems used in automation solutions. However, Industry 4.0 brings new technologies into this field allowing us to enhance, modify and create new solutions more easily than ever before.

How we make it work

The key to success with Industry 4.0 and digital transformation lies completely in understanding the value that we are trying to achieve. Currently the market is flooded with digital technologies, smart solutions, cloud technology and machine learning, etc., but this is not where the journey should begin.

Yes, we need to understand these technologies and what we can achieve with them, but then we need to step back and look at our challenges around the process. We must ensure that these challenges and the operational requirements are used to define the requirement of the solution and not let it be defined by the capability of the software.

Many people fall into the trap of choosing a solution and then using this to drive an improvement process, making digital transformation difficult and in some cases impossible. At Bilfinger UK, we understand and can deliver the capability of Industry 4.0 solutions.

We also know how to apply these in a way that creates value for your operations. This is about continual learning, transformation, and building a solution based around a value case that allows us to continually improve processes and realise this value.



There are many telltale signs that can indicate a piece of process equipment needs maintenance, which includes changing levels of throughput, vibration, and noise or power consumption among others. In the steps to implement Industry 4.0 and digitalisation we create the base to build upon with further improvements across all of our assets.

We make it possible to build algorithms that can identify and understand suboptimal behaviours in the system, flagging problem early and enabling preventative actions. The predictive approach this allows can minimise downtime and avoid unexpected failures that can have costly implications for the business commercially and operationally, and even dangerous after effects on the rest of the process.

Why choose Bilfinger UK?

Our aim is to help you to implement these technologies in the most meaningful way for your process, and realise the potential that Industry 4.0 can bring. We can work with you right through the transformation journey helping to highlight the value opportunities, define the solution and implement the technologies. Whether at the process and operational level or through to management systems or analytics platforms we can support you at every level.