

Building Blocks for Industry 4.0

Your digital transformation

Digitalisation is much more than an investment in technology, it is a long term strategic commitment to business excellence that requires strong leadership, collaborative business culture, breadth of skills and availability of key resources, to generate tangible returns on investment.

Five steps for implementing a successful digitalisation strategy:

- 1 Streamline & digitise operations to create capacity for change
- 2 Connect processes, people & plant to capture real-time data
- 3 Analyse, visualise & diagnose data to generate business intelligence
- 4 Share intelligence internally & with partners to create collaborative ecosystems
- 5 Optimise predictive analytics & machine learning



ERP, CRM & Smart Workflow
Streamline, standardise and digitise core business processes, to improve efficiencies

Smart Data Capture
Create highly configurable user interfaces to capture business intelligence and action innovation opportunities



Virtual & Augmented Reality
Simulate digital twins and share intelligence to improve resource effectiveness and accelerate skills development

IOT & Sensors

Capture utilisation data from manufacturing plant and equipment to optimise productivity and effectiveness



Big Data AnalytiQs
Capture real-time data from disparate sources; that is analysed and visualised through mobile dashboards

Artificial Intelligence
Predictive analytics and machine learning to optimise productivity and competitiveness



Additive Manufacturing
Integrated production control for AM builds, and powder traceability, ensuring compliance and repeatability



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Experience the future of manufacturing

The DNA4.0 Virtual Smart Factory demonstrates how digital manufacturing technologies can support businesses, to improve productivity and competitiveness.

Developed in collaboration with the University of Liverpool's Virtual Engineering Centre, Valuechain's DNA4.0 provides an immersive environment to engage people from all backgrounds and demystify the benefits of Industry 4.0 digital manufacturing technologies.

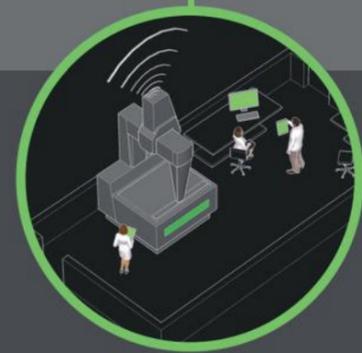
Take a tour of DNA4.0 to experience the future of manufacturing.

DNA4.0 SMART FACTORY

Intelligent Supplier Hub

Without a reliable supply chain it is impossible to plan operations effectively to optimise manufacturing productivity and delivery performance.

Explore the DNA4.0 smart supplier hub to learn how digitalised procurement, integrated supplier management portals and real-time intelligence can reduce supply chain risks and costs, streamline transactions and improve supplier performance.



Digitalised QHSE Management Systems

Customers demand 100% right first time and the safety of your workforce is paramount. It is therefore critical to have digitalised quality, health, safety and environmental management systems.

Consolidate all of your QHSE compliance audits and proactively manage corrective

actions through integrated task consoles. Capture business intelligence to ensure lessons are learned and preventative measures are embedded.

Connected Business Support

Ensuring the right data gets to the right people at the right time, to make informed decisions is a critical building block for digital manufacturing.

Explore the DNA4.0 business support offices, and learn how data is shared in between your business leaders, support teams and production operators, by using smart dashboards and personalised task consoles.

From sales and customer relationship management, production engineering, new product introduction, and procurement, through to human resources and finance; see how smart software streamlines business support departments, captures intelligence and drives productivity.



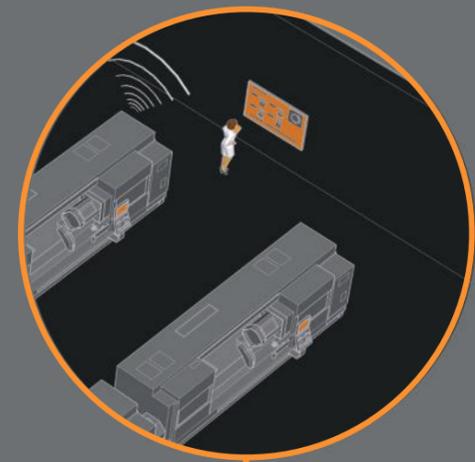
Smart Manufacturing Operations

Maximising plant effectiveness whilst maintaining reliable delivery performance can only be achieved through integrated capacity planning and scheduling.

Modelling what-if scenarios based on real-time plant utilisation data enables smart factories to generate optimised manufacturing plans.

Automate communication of dynamic work-to-lists, and digital standard operating procedures.

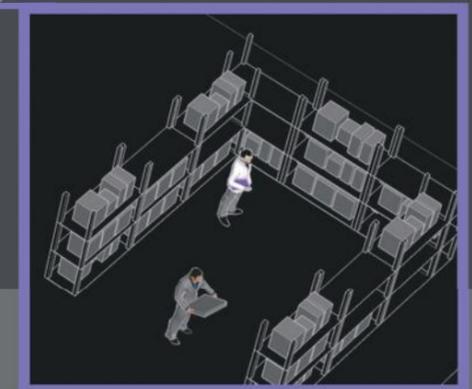
Capture real-time production status and innovations through shop floor displays and mobile devices.



Integrated Stores

Ensuring stock availability whilst minimising tied up cash, is critical to running a competitive and agile business.

Explore how digitalised stores provide real-time inventory optimisation and how digital technologies can streamline and improve stores management



Smart Customer Hub

Providing excellent customer service and account management is vital to retain customers and drive sustainable growth.

Explore how integrated customer portals can share real-time business intelligence through personalised customer interfaces.

Digitalise customer relationship management to ensure proactive pipeline management and communication.

