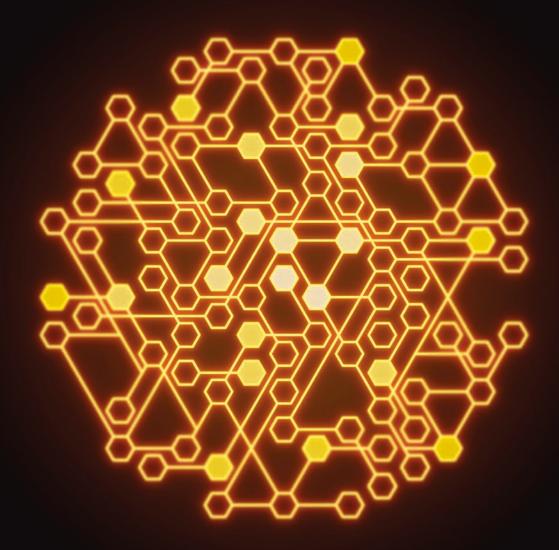
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Connected factory

Digital solutions on the manufacturing floor



Dawn of 4th industrial revolution

Service

Flexibility

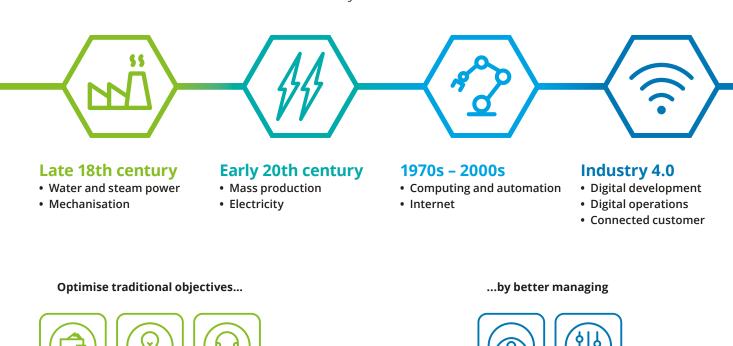
Revenue

Innovation

Safety

Quality

The marriage of advanced manufacturing techniques with information technology, data, and analytics is driving another industrial revolution – one that enables manufacturing leaders to combine information technology and operations technology to create value in new and different ways.



Visibility

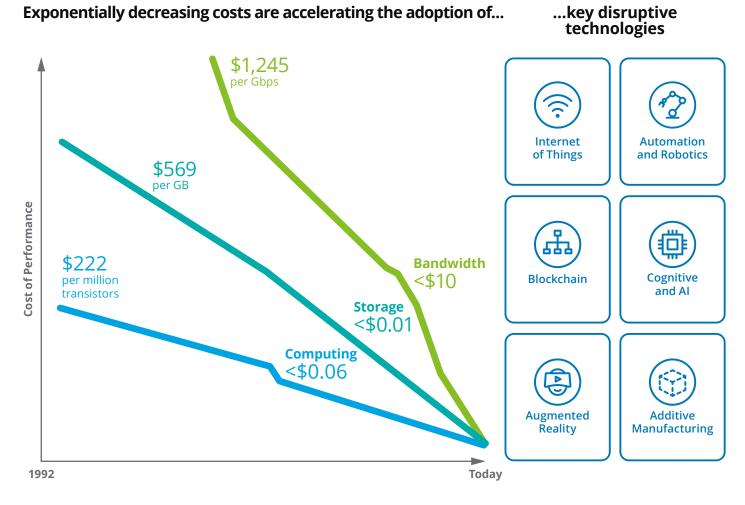
Volume

Variability

Velocity

Fuelled by technology and connectivity

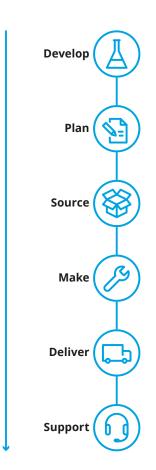
Digital technologies have changed dramatically in recent years, driven largely by three key developments: lower computing costs, cheaper storage, and less costly bandwidth. This has accelerated the adoption of disruptive technologies.



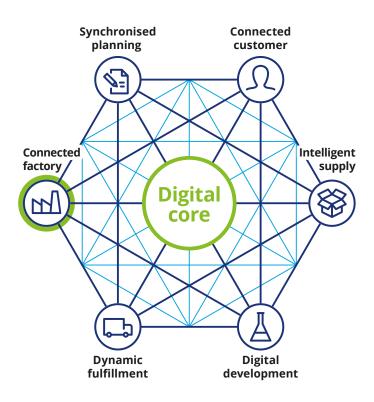
Collapsing the supply chain

Embracing the power of these new technologies allows a traditional linear supply chain to become a set of dynamic and integrated networks: Digital Supply Networks.

Traditional supply chain

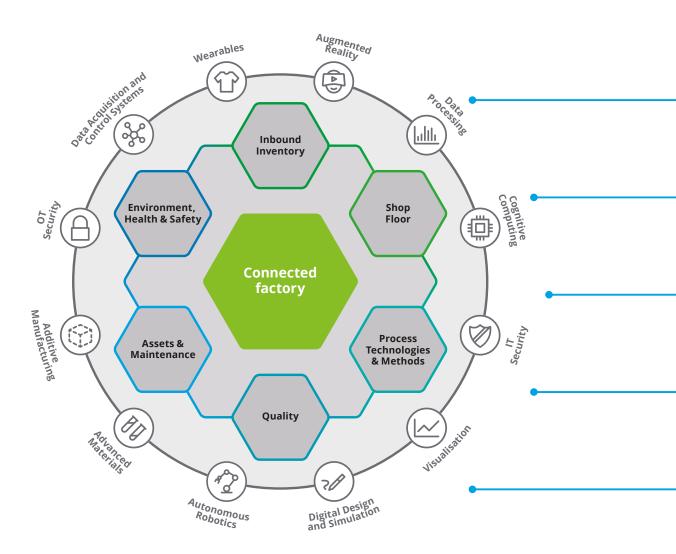


Digital Supply Networks (DSN)



Connected factory

Disruptive technologies can impact and transform the heart of manufacturing, creating the Connected factory.



A Connected factory has the ability to fundamentally change the production process to enable end-to-end product visibility and predictive analytics to support and optimise decision making.

Connected

- Continuous pull of traditional datasets along with new sensor and location-based datasets
- Real-time data enabling collaboration with suppliers and customers
- Collaboration across departments (e.g. feedback from production to product development)

Transparent

- Live metrics & tools to support rapid but effective decision-making
- Real-time linkages to customer demand forecasts

• Transparent customer order tracking

Optimised

- Reliable, predictable production capacity
- Increased asset uptime and production efficiency

- Highly automated production and material handling with minimal human interaction
- Minimised cost of quality and production

Proactive

- Predictive anomaly identification and resolution (e.g. using augmented reality for maintenance)
- Automated restocking and replenishment

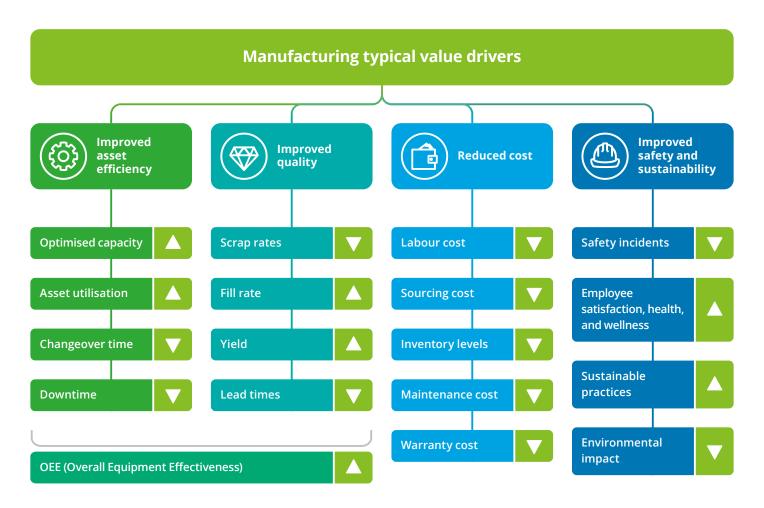
- Early identification of supplier quality issues
- Real-time safety monitoring

Agile

- Flexible and adaptable scheduling and changeovers
- Implementation of product changes to see impact in real-time
- Configurable factory layouts and equipment

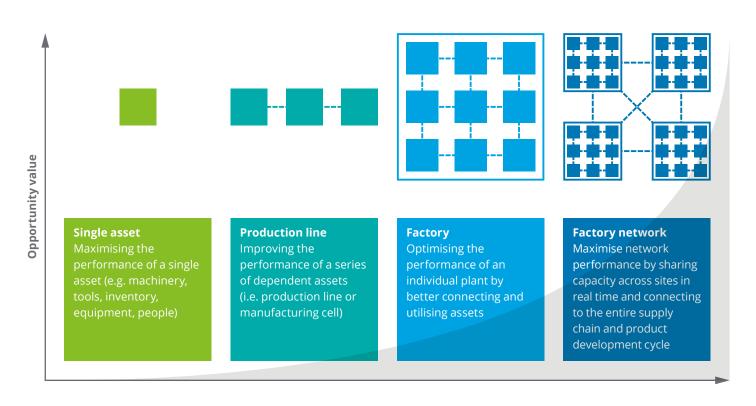
Value from the Connected factory

The Connected factory can drive a broad range of benefits.



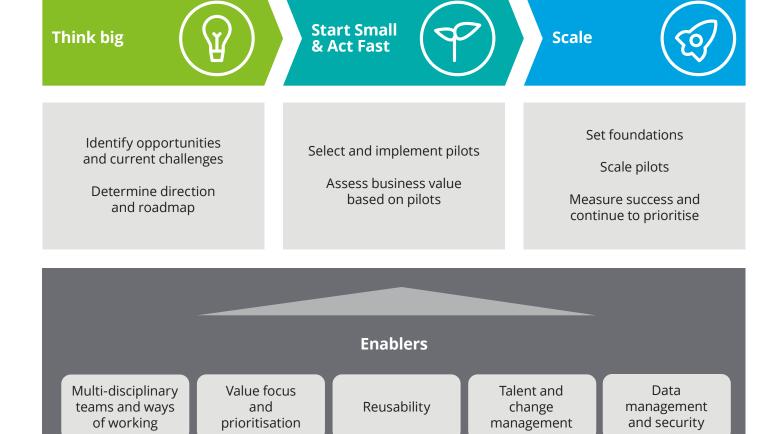
Typical transformation journey for a manufacturer

Value creation can begin with, and scale from, a single asset to a complete factory or network of Connected factories.



Applying this to your business

To maximise value and reduce risk, successful manufacturers are adopting a number of techniques as they adopt Industry 4.0 concepts.



Partnership

The Connected factory immersive experience brings together leading organisations to support manufacturers on the topic of digital manufacturing transformation.





World-class centre for industry-focused research and development of technologies used in high-value manufacturing sectors



Global provider of leading IoT and AR platform, and field-proven solutions

Deloitte.

Global leader in Digital Transformation with specific expertise in strategy and implementation of Industry 4.0 across multiple industries

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Notes

Notes



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