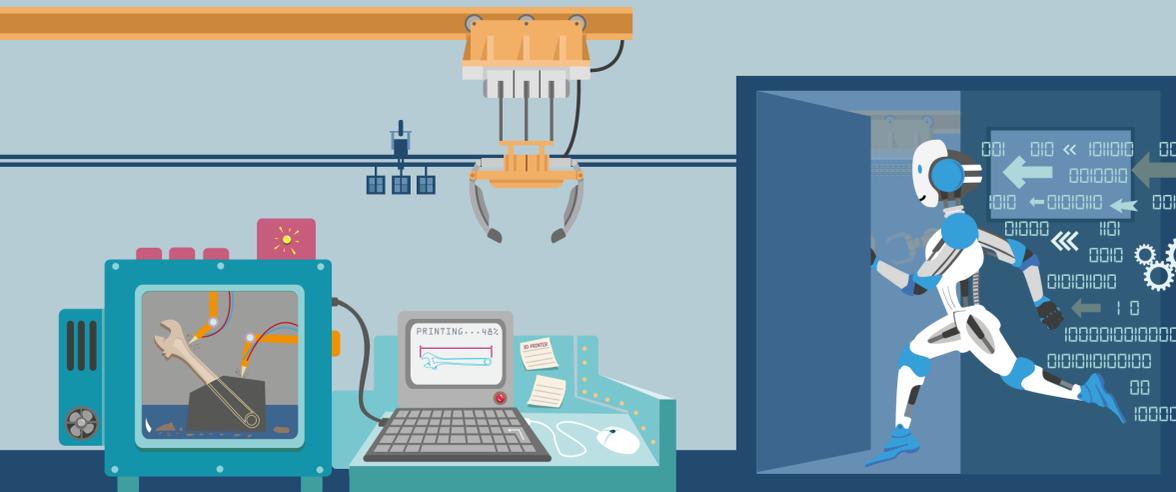


Welcome to... The Factory of the Future

Smart factories are changing the face of manufacturing. Underpinned by 'Industry 4.0' - the Fourth Industrial Revolution - intelligent machines enable organisations around the world to produce more, higher quality inventory, in less time and at lower cost.

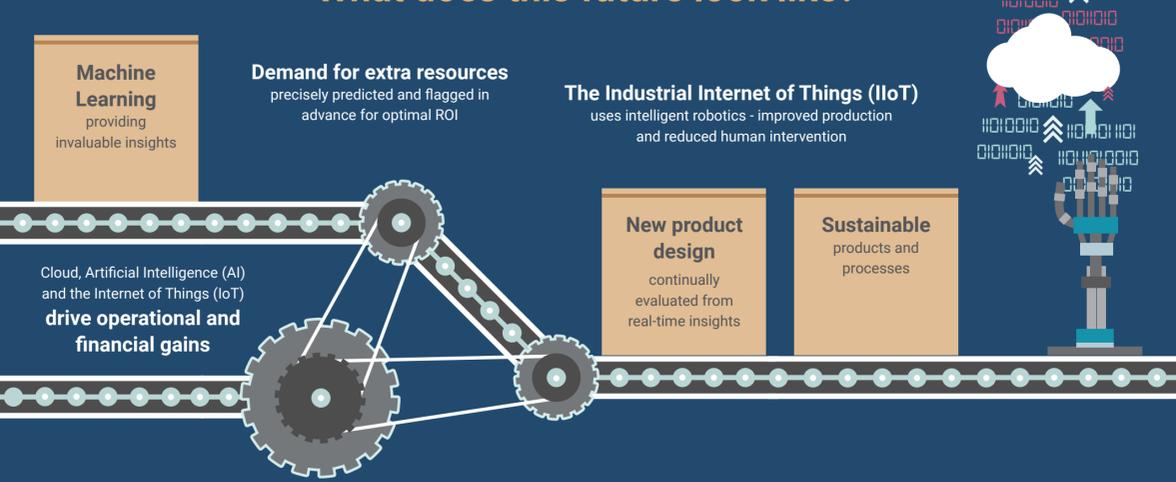


By communicating with and learning from each other, with minimal human involvement, machines connect devices, generate insights and automate processes to improve business outcomes, across the board.

"By 2020, there will be some 50 billion connected devices worldwide: more than double what we have today."

World Economic Forum

What does this future look like?



"It's predicted that by 2020 there will be 50-times the digital content compared to what exists today."

Futurum

TODAY	VS	TOMORROW
<p>PROCESSES & PRACTICES: Difficult to accommodate changes in product design</p>		<p>PROCESSES & PRACTICES: Highly efficient and fully flexible, scalable with demand, minimal downtime</p>
<p>LOCATION: Centralised location, sometimes based on history, not according to customers and suppliers</p>		<p>LOCATION: Diverse and mobile, built to serve customers and for convenience</p>
<p>GOALS & METRICS: Focus on cost, quality and delivery - not future performance and sustainability</p>		<p>GOALS & METRICS: Holistic benchmarks - including speed, agility, collaboration, resource use, global competitiveness</p>
<p>TECHNOLOGY: Low-risk technology, reliant on third party suppliers</p>		<p>TECHNOLOGY: Integrated, digitised, Big Data-enabled</p>
<p>FACILITIES: Outdated or poorly-suited infrastructure and facilities, hindering performance</p>		<p>FACILITIES: Innovative, purpose-built, catering for customers, partners and the wider community</p>
<p>SUPPLY CHAIN: Not well integrated</p>		<p>SUPPLY CHAIN: Localised, integrated partnering</p>
<p>CULTURE: Command and control, in-house knowledge, isolated culture</p>		<p>CULTURE: Open, collective, creative culture</p>

"The new era of manufacturing will be marked by highly agile, networked enterprises that use information and analytics as skilfully as they employ talent and machinery to deliver products and services to diverse global markets."

McKinsey & Company

It's already happening...

Disruptive technologies are already transforming today's factories:

<p>PRODUCTS ARE BECOMING MORE CUSTOMISED Using configuration tools, integrated CAD systems and late-stage assembly.</p>	<p>ANALYTICS ARE IMPROVING CUSTOMER SATISFACTION Big data is making production predictive, to help identify and meet customer expectations based on insight from huge information pools.</p>	<p>ROBOTICS ARE CHANGING OPERATIONS Shop-floor automation is revolutionising workflows and production cycles.</p>
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Early adopters who have partially implemented smart manufacturing initiatives reported¹:

82%
Increased efficiency

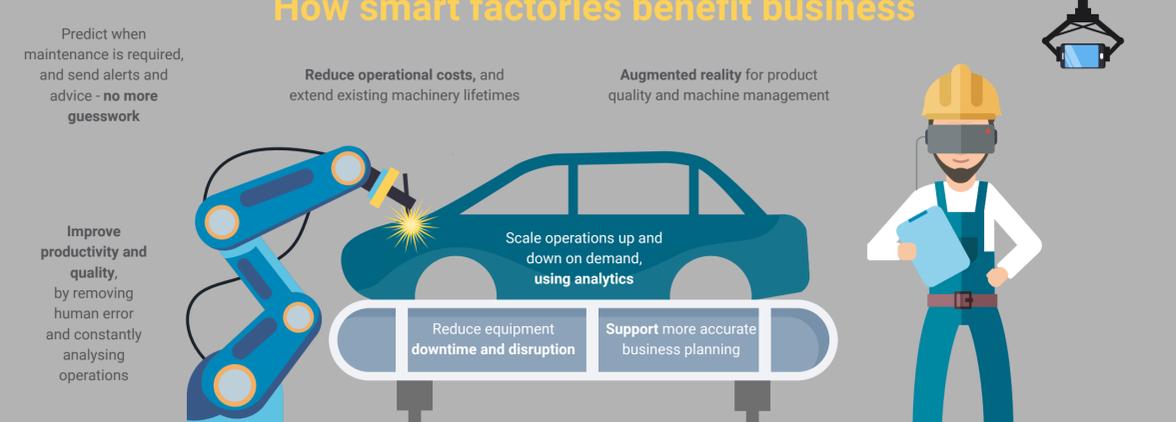
49%
Fewer product defects

45%
Customer satisfaction gains

"76% of manufacturers either have a smart factory initiative that is ongoing or are working on formulating it. However, only 14% of companies are satisfied with their level of smart factory success."

CapGemini

How smart factories benefit business



"Maintenance costs of Smart Factory equipment can be reduced by as much as 40%, while equipment downtime can be reduced by up to 50%."

McKinsey & Company

How to take advantage

Change management is essential to build a successful Factory of the Future, based on Industry 4.0 and all the opportunities it offers.

- 1 Build a standards based technology framework for business processes and workflows
- 2 Educate employees on their responsibilities in the world of Digital Transformation & IE 4.0
- 3 Make everything customer-centric, with a focus on responding flexibly and quickly to customer demands - including customised products
- 4 Take advantage of Big Data, insights and analytics it provides

About HSO

HSO is an expert in Microsoft Dynamics 365, a comprehensive ERP & CRM solution that enables manufacturers to work effectively, manage change, and compete globally.

About Microsoft Dynamics

Microsoft Dynamics makes it easy to operate across multiple locations and countries by standardising processes, providing visibility across the organisation, and helping to simplify compliance.

Learn more at www.hso.com