# Industry 4.0: THE GLOBAL RACE TO INNOVATE

The first industrial revolution began in Great Britain in the mid-1700s. Nearly 300 years later, we stand on the cusp of the next industrial revolution. The global race to innovate is on. To remain competitive in this ever-advancing digital world, manufacturing organizations must continue to benchmark their Industry 4.0 strategy, maturity and success against their peers—both at home and abroad. See how your current Industry 4.0 investment stacks up against the manufacturers in the U.S. and UK.

#### AWARENESS AND MATURITY

**Executives Familiar with Industry 4.0:** 











### **CATALYSTS AND GOALS**

U.S. - Top Industry 4.0 Business Goals:

71% Business model diversification67% Improve operational efficiencies67% Increase market penetration

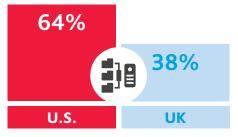
**UK** – Drivers of Industry 4.0 Adoption:

**64%** Cost reduction and increased productivity

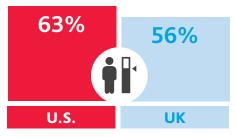
**51%** Quality assurance and improvement

**42%** Meeting key client demands

## **BARRIERS TO ADOPTION**



Interoperability with legacy technologies and processes



Lack of skills or insufficient training



Underinvestment



**60% of U.S.** and **67% of UK manufacturers** are addressing the global talent shortage by implementing training to upskill current employees.



#### **TECHNOLOGY ADOPTION**

# Advanced Technologies Used Now:



63% Cloud computing

52% Cloud solutions



60% Advanced analytics

**24%** Predictive data analytics



**59%** Internet of things

18% The Industrial Internet of Things



**52%** Robotics Process Automation

18% Autonomous or collaborative robots



**49%** Blockchain

2% Blockchain



**46**% A

10% AI and machine learning



46% 3D printing or additive manufacturing

46% 3D printing for prototyping



45% Augmented or virtual reality

19% Augmented, virtual or mixed reality device

U.S.

UK

For more information about how your peers are adopting and executing on Industry 4.0 strategies, check out BDO's 2019 Middle Market Industry 4.0 Benchmarking Survey and 2019 Manufacturing Digital Transformation Report.

#### CONTACT

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#### **EMERGING CYBER RISK**

28%

of U.S. manufacturers **have experienced a data breach** in the past
12 months



15%

of U.S. manufacturers are **very confident in their organization's ability to detect a data breach** 



15%

of U.S. manufacturers say **concerns about cybersecurity** is the biggest challenge in moving forward with Industry 4.0



UK

of UK manufacturers say **cyber risks are not treated seriously enough** at
their companies

**53**%

of UK manufacturers say their company has adequate IT infrastructure to prevent cyber breaches

49%

of UK manufacturers said **concerns** regarding cybersecurity are a top barrier to technology integration

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