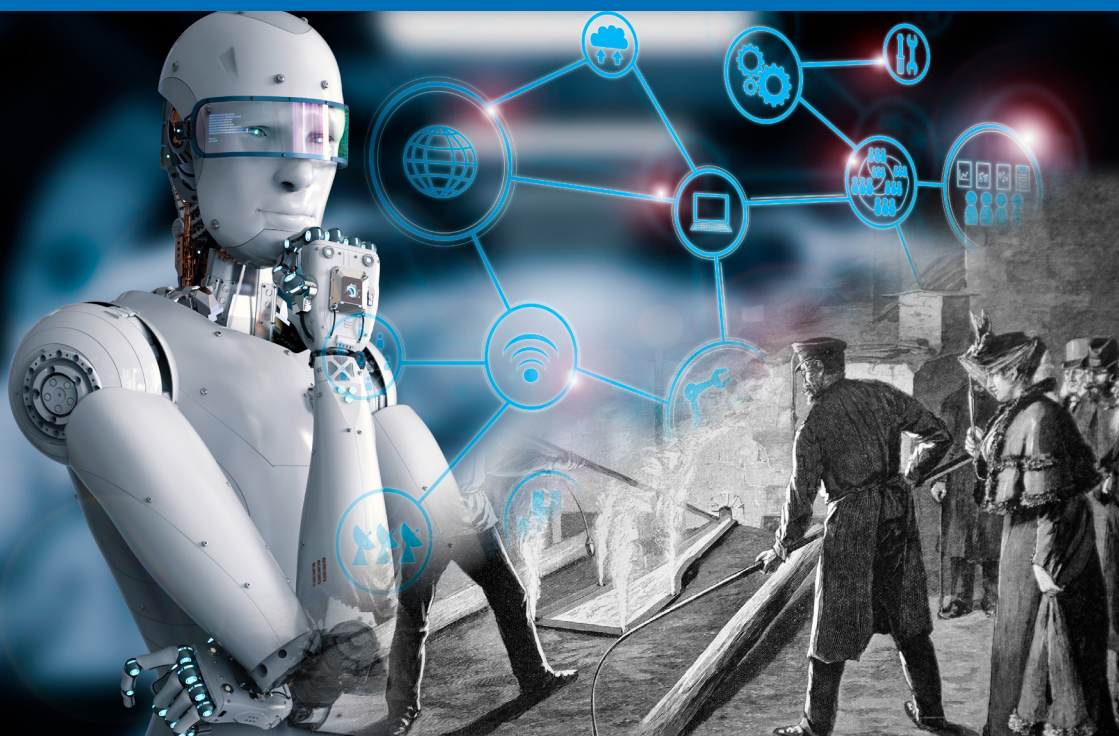


Introduction to **PAS 1040:2019**

Digital readiness – Adopting digital technologies in manufacturing – Guide



Innovate UK

bsi.

Introduction

PAS1040:2019 is a definitive guide to measuring digital readiness in manufacturing, and an inspiration to any leader interested in using digital technologies to transform productivity and market share.

Digital readiness is the maturity of a business or part of a business in optimizing its use of digital technologies. A strong digital readiness indicates that you have chosen the right digital technologies to exploit your opportunities for improvement, you have implemented them effectively in the way you work internally and with external organizations, and you are maximizing value.

The guide supports you in: Getting ready for digital transformation; Measuring and tracking digital readiness; Selecting digital readiness diagnostic tools; and Using digital readiness diagnostic tools to optimize use of digital technologies and return on investment.

PAS 1040:2019 was commissioned by Innovate UK. Its production was facilitated by the British Standards Institution (BSI) with input from a panel of industry experts.¹⁾

This booklet provides an introduction to PAS 1040. The full version is available to download from <http://shop.bsigroup.com/PAS1040>.

Who is it for?

PAS 1040 gives guidance for UK manufacturers of all sizes including suppliers, makers and customers for manufactured goods and services. Other businesses such as those looking to increase their business efficiencies and competitiveness would also benefit from PAS 1040.

¹⁾ See back cover

Digital readiness

“Digital readiness” is a measure of the maturity of a manufacturing business or part of a business in optimizing its use of digital technologies by organizing its resources and activities to make best use of the right digital technologies and to drive business value from them.

The guidance of PAS 1040 aims to help businesses optimize their use of digital technologies and assessing their progress on a scale of 1 to 9. It helps to identify and understand a range of business factors to consider when businesses are planning and implementing their digital journey.

Table 1 – Typical characteristics of digital readiness defined by a nine-point scale

Level of digital readiness	Characteristics of digital readiness within business	Characteristics of digital readiness of business from outside
9 Highest	Digital technologies are driving optimized productivity and competitiveness for business and its partners.	The business is regarded as an exemplar for its use of digital technologies and is an accessible demonstrator site for customers, suppliers and peers.
8		
7		
6		
5	Workers are engaged in digital transformation and the business is starting to achieve business case benefits.	Suppliers and/or customers are engaged with the business in implementing its digital technologies.
4		
3		
2		
1 Lowest	The business has no vision for driving growth with digital technologies, and is not supporting workers to investigate opportunities.	There is no engagement between the business and suppliers or customers about using digital technologies.
<p>NOTE This is an abridged version and the complete table including all levels is available in PAS 1040.</p>		

Business factors

For businesses to progress through their digital journey a broad range of business factors relevant to assessing its readiness to benefit from digital technologies need to be assessed and are outlined in the PAS. These factors include:

- Leadership – exploring the use of digital at all levels and creating an environment that encourages innovation and risk-taking.
- Processes – using data to improve operations, understand core metrics and inform the development of new products and services.
- Driving value for the business and its partners – working across the supply chain to ensure the successful integration of digital technologies.

Each of these factors is underpinned by the workforce. Developing skills and experience in digital systems, technologies and processes across the business increases digital readiness.

Further information provided in PAS 1040

PAS 1040 also includes the following:

Getting ready for digital transformation

– aspects for manufacturing businesses to consider when planning and implementing digital technologies.

Measuring digital readiness – how manufacturing businesses should measure their maturity in optimizing their use of digital technologies.

Selecting digital readiness diagnostic tools

– factors manufacturing businesses should consider when selecting digital readiness diagnostic tools.

Using digital readiness diagnostic tools – how manufacturing businesses should use digital readiness diagnostic tools in optimizing their use of digital technologies.

Annex A – Digital readiness diagnostic tools

Bibliography

PAS 1040 provides comprehensive guidance to support manufacturing businesses on their digital journey.

Acknowledgement

In addition we would like to thank the following contributing organizations:

- Additive Manufacturing UK
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- Innovate UK
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- The Manufacturing Technology Centre (a High Value Manufacturing Catapult Centre)
- The Society of Motor Manufacturers and Traders Industry Forum
- Vendigital Limited

Acknowledgement is also given to the members of a wider review panel who were consulted in the development of PAS 1040.

How to get a copy

Copies of PAS 1040 can be downloaded from <http://shop.bsigroup.com/PAS1040>.