



Accelerating the UK's competitiveness of digital manufacturing supply chains



High Value Manufacturing Catapult (HVMC) is the go-to place for manufacturing technology innovation in the UK. It was set up in 2011 by Innovate UK, the UK's Innovation Agency, to address the gap between early-stage technology innovation and full-scale manufactured reality.

HVMC cover the full range of manufacturing technology capabilities, from materials to biologics, automation to virtual reality, and from additive manufacturing to metal forming. They offer open


access to the latest industrial-scale equipment, leading expertise and an environment of collaboration between industry, academia and government, working with thousands of businesses of all sizes and across all sectors.

The Institute for Manufacturing (IfM) is part of the University of Cambridge. It brings together expertise in management, technology and policy to address the full spectrum of issues which can help industry and governments create sustainable economic growth.

BSI was commissioned by HVMC to carry out a research project that would establish how standards could help overcome barriers to adoption, and also propose a programme that would contribute to improving the situation.

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CATAPULT
High Value Manufacturing



BSI identified five standards development areas: interoperability; supply chain capability; through-life end-to-end connected supply chains; governance, security, and assurance of data; through-life end-to-end connected supply chains.

Client Challenge

BSI, along with IfM, identified five priority challenges for HVMC where a series of standards creation and adoption activities would be critical in achieving success for UK innovation in digital manufacturing:

- Design for digital manufacturing
- Simulation, verification and validation (including digital twins and in-process modelling)
- Intelligent data gathering and analysis
- Rights management, data governance and security
- Equipment plug and play, capability and discovery

BSI Solution

BSI proposed a plan for standards adoption and development that would accelerate the rate of innovation by UK manufacturing companies.

As part of this project, five standards development areas were identified: interoperability; supply chain capability; through-life end-to-end connected supply chains; governance, security, and assurance of data; through-life end-to-end connected supply chains.

Benefits

The plan set out by BSI defines the immediate and long-term programme of standards that will accelerate the capability and competitiveness of the UK's through-life end-to-end digital manufacturing supply chains and value chains.



Why BSI?

BSI is a global thought leader in the development of standards of best practice for business and industry. Formed in 1901, BSI was the world's first National Standards Body (NSB) and a founding member of the International Organization for Standardization (ISO). Over 95% of BSI's work is on international and European standards.