

\$16B USD

global revenues from IIoT device and app platforms by 2026

\$75B USD

3D printed products and parts in USA by 2026

54%

of Condition-based Monitoring Systems will feed into Digital Twins by 2026

\$115B USD

global revenues from integration, storage, and presentation of IIoT data by 2026

ABI Research's Smart Manufacturing market intelligence provides foresight on the technologies, services, solutions, and providers impacting the Industrial IIoT value chain; how the disruptive and transformational impact of technology is driving new business decisions across and between IT and OT teams; and what it means for the way we work. Critical technologies covered in terms of the benefits they offer include AI, Robotics and bots (automation), AR and wearables (assistance and visibility), VR (training), industrial connectivity, digital twins, and related software and application collaboration tools (efficiencies) for both internal and customer facing functions. These technologies touch everything from connected sensors through platform design, manufacturing, maintenance, operations, and service workflows. Our extensive research uncovers the critical information technology end-users, implementers, investors, suppliers, governments, and economic development groups and other stakeholders need to manage IT/OT integration.

TOP QUESTIONS WE RECEIVE FROM INDUSTRY INNOVATORS

- How will the convergence of mobility, IIoT, and analytics affect my company?
- What are the technologies in each domain that are underpinning this convergence?
- What impact will automation have on my organization? The industry?
- How have you seen manufacturing technology evolve over the past year or so?
- What do companies need to do to implement and scale these technologies?
- What inhibits them from scaling, even with successful PoCs?
- What technologies do you expect will change day-to-day operations in a manufacturing plant the most? How?
- What industries are best and worst positioned to adapt to the evolving global manufacturing sector?
- Where do you see the most innovation right now?
- What are the biggest challenges in commercializing innovations in the UK manufacturing sector?
- How do you extend policy and management across all device types / distributed things more than just handsets and tablets?
- How do you integrate a security approach?
- How do you provision apps in the thing domain and integrate with digital assets?
- What are the technologies in each domain that are underpinning this convergence?
- What is the converged governance model?
- What process are likely to be harmonized first and why? How?
- What are the common KPI that need to be applied?
- How will data management be harmonized?
- What does Edge Analytics mean for manufacturing?
- Which data contains valuable insight? Which data is disposable? Perishable? Who owns it?

COVERAGE AREAS

- Workforce management and the evolution of smart workforces
- Collaborative models within and between organizations
- Mobile and distributed workforces
- Home, remote, and online work
- Rapid prototyping and GTM strategies
- Connected industrial sensors
- Optimized edge vs. cloud computing
- Industrial equipment
- Industrial IIoT infrastructure
- Industrial gateways, routers, and appliances
- IT/OT convergence and integration
- IIoT / Smart Manufacturing application enablement
- Collaborative Robotics
- Industry 4.0
- Industrial wireless technologies, sensor networks, and platform services
- Enterprise 3D printing and distributed manufacturing
- Digital twins
- Artificial intelligence (AI) in Smart Manufacturing
- Industrial Internet platforms and services
- M2M services in manufacturing and the role of IIoT platforms
- Industrial Automation
- LPWAN in Industrial IIoT
- 5G in IIoT
- Enterprise mobility and IIoT platform convergence
- Industrial Augmented Reality (AR) and Wearable tech
- Data management
- Smart Manufacturing startups, hot tech innovators
- Technology lifecycle management
- Smart Manufacturing business models and best practices

KEYWORDS

- IIoT platforms
- Additive manufacturing
- Edge
- Cloud
- IIoT
- Industrial IIoT
- Industry 4.0
- IT
- OT
- Enterprise 3D printing
- Artificial intelligence
- Machine Learning (ML) / Artificial Intelligence
- M2M
- Connectivity
- Routers
- Gateways
- Fog/edge computing
- Industrial network technologies
- Industrial control systems
- Industrial Internet
- Robotics
- Message Queueing Telemetry Transport (MQTT)
- Monitoring and management
- Data analytics
- Industrial IIoT (IIoT)
- Digital twins
- Industry/Industrie 4.0
- Smart Manufacturing
- Wireless sensor networks
- PLC, RTU, DCS, and SCADA systems
- Design thinking
- Automation