

Where are YOU on the Path to Industrial IoT?

451 Research®

Manufacturers today are on a journey to Industry 4.0, leveraging the Internet of Things (IoT) and Artificial Intelligence (AI) to bring together two worlds:

Operational Technology



Information Technology

BEST PRACTICE:

OT/IT collaboration is important for project success

45% of OT-centric enterprises say their OT and IT departments collaborate closely on IoT projects, up from just 34% a year ago

More collaborative decision-making and operations and a strong IoT-enablement platform can help address critical IoT project inhibitors, including overcoming IoT silos and technology deployment challenges.

TOP INDUSTRIAL IOT INHIBITORS

Security concerns **43%**

Technology deployment challenges **36%**

Lack of budget **30%**

Issues integrating with existing infrastructure **29%**

BEST PRACTICE:

Deploy the right use case at the right time...

Many manufacturers already deploy manufacturing optimization. Industrial firms further along in their IoT journey can consider more use cases to gain additional value from machine and sensor data.

MANUFACTURING USE CASES ENABLED BY INDUSTRIAL ENDPOINTS

Production/manufacturing monitoring **72%**

Predictive maintenance/
condition-based maintenance **63%**

Inventory monitoring and management **57%**

Intelligent logistics **43%**

Smart robotics **36%**

Fleet tracking **24%**

Connected worker **20%**

BEST PRACTICE:

... And for the right (business outcome) reason

MANUFACTURING SECTOR IIOT DRIVERS

69% **Optimize operations and industrial processes** – improve efficiency, reduce downtime, etc...

60% **Reduce risk** – increase compliance, limit operational risk, secure operations, etc...

42% **Improve product development** – enhance existing, create new products through new data insights

The data and insights delivered via Industry 4.0 and IIoT projects are critical enablers of digital transformation



BEST PRACTICE:

Deploy IIoT workloads to the right location, for the right reasons (don't just ship it to the cloud)

The majority of manufacturers initially process IoT data at the machine/sensor edge or on nearby enterprise infrastructure

Location for initial IIoT Analysis

Core* **40%**

Edge* **60%**



Factors in play:

- ▶ Latency and performance requirements
- ▶ Data security and sovereignty
- ▶ Transport, storage and computing costs
- ▶ Ease of systems management and application development

* Core = public cloud, hosting or centralized on-prem data center

* Edge = infrastructure at or nearby machine/sensor

Choosing the right execution venue is critical to success.

BOTTOM LINE:

View IIoT and Industry 4.0 infrastructure as a critical strategic and competitive asset

Manufacturers must view IoT not as a series of SaaS-only point applications deployed for convenience but as **vital** infrastructure – relatively simple to secure, manage and scale, and able to deliver an evolving and growing set of use cases critical to the future of the business.

NUTANIX

The Nutanix Xi IoT platform is a 100% software-defined solution that delivers local computing, machine learning and intelligence for your IoT edge devices, converging the edge and your choice of cloud into one seamless, delightful application development platform. Xi IoT eliminates complexity, accelerates deployment and elevates developers to focus on the business logic powering IoT applications and services.

Visit www.Nutanix.com/IoT for a free trial, or contact us directly at iot@nutanix.com to get started today.