

# The impact of



**IOT &  
IIOT**



**REMOTE  
MONITORING**



**AUGMENTED  
REALITY**

Modern enterprises are leveraging these 3 key technologies to spin a digital thread that:

- Connects assets and operations
- Enables the use of data to drive critical business decisions and boost competitiveness
- Underpins extended digital supply chain network

## Commercial industry: Streamlining operations

The digital thread allows everyone—from the line worker on the factory floor to executive management in the front office to the end consumer—to access the data they need, when they need it.

### Workforce

AR + RM: Training and onboarding employees

### On the factory floor

AR: Articulating device build instructions and promoting effective remote collaboration  
IoT: With artificial intelligence, reducing errors and ensuring high quality

### Maintenance

IoT + RM: Detecting system breakdowns and predicting maintenance needs

### Customer experience

AR: Creating personalized, immersive customer experiences  
RM: Tracking performance  
IoT: Tracking and personalizing usage

### Commercial use cases for AR:

**Training (\$4.1 B)**

**Industrial maintenance (\$4.1B )**

Source: [IDC](#)

### Using AR and virtual reality (VR) can provide:

**25% decrease in  
mean time to repair**

Source: [IDC](#)

## Medical industry: Traceability

Medical devices are complex electromechanical systems with thousands of parts that have to work right, all the time, to protect patient health. The digital thread makes it easier for companies to monitor traceability from design and development to deployment in the field.

**Devices like:** **Ingestible sensors**   **Drug delivery**   **Surgical devices**

### Manufacturing

AR: Articulating device build instructions  
RM: Identifying and tracking individual components from the source  
IoT: Understanding and tracking movement of people and machinery

### Deployment in the field

RM + IoT: Monitoring and reporting device functionality

### Maintenance

IoT + RM: Detecting system breakdowns and predicting maintenance needs

### R&D

RM + IoT: Capturing real-time usage data to drive next-generation product development  
AR: Visualizing products in context at design phase

## Defense Industry: Operational efficiency

The defense industry prioritizes the most critical, tactical assets to be ready to deploy in the field. The digital thread can improve production efficiencies and support the building of tools that empower one person to do the job of several people.

### Workforce

AR + RM: Training and onboarding employees

### Manufacturing

AR: Articulating device build instructions  
RM: Sharing expertise across a diffuse work environment  
IoT: Understanding and tracking movement of people and machinery

### Deployment in the field

AR: Securely putting data in the hands of the people who need it  
RM + IoT: Monitoring and reporting on device functionality

### Maintenance

IoT + RM: Detecting system breakdowns and predicting maintenance needs

Impossible  
challenge?

Try us.