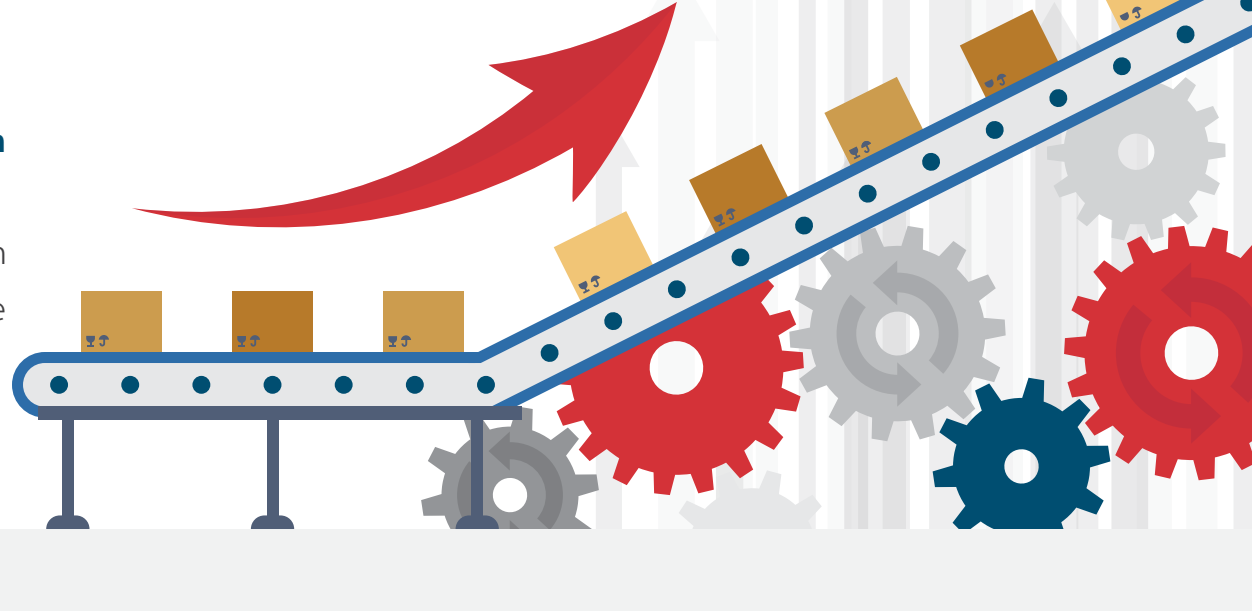


Achieve Next-Level Productivity with Next-Gen Technology

Boost Workforce Productivity with the Latest Manufacturing Technology Innovations

Today's manufacturers can keep productivity on track by ensuring their technology adoption is on track as well. With the right strategic solutions in place, factories can realize long-term, enterprise-wide productivity gains. **Let's discover how.**



TRENDING TECHNOLOGIES FOR MANUFACTURING & BEYOND

The first step in identifying productivity-boosting technologies is to trace the transformative, global technology trends that are actively defining the future of workforce operations—as well as impacting businesses, societies, economies, and cultures.

Today's Mega-Trends

EMBEDDED INTELLIGENCE AT THE EDGE

75% of manufacturing data is already being generated at the edge.¹

TOOLS FOR ERROR COGNITION

Only 6% of edge data is acted upon. With predictive computing insights, errors can be corrected in real-time.¹

USER-ORIENTED BUSINESS MODELS

36% of consumers seek personalized products or services.²

These trends, among others, are being supported by key technology enablers that are integral to driving greater productivity:

Ubiquitous Sensing

Predictive Analytics

In-Memory Computing & Digital Twins

Cloud Computing

Edge Devices

AI + ML Models

As technology advances in the manufacturing industry, it is critical to identify which key productivity challenges it should be directed towards solving.

PRODUCTIVITY PAIN POINTS

Across the manufacturing enterprise, there are a number of pain points that actively limit the enhancement of workforce productivity.

Top Pain Points

INFORMATION CHALLENGES

restrict needed information.

EQUIPMENT MAINTENANCE

causes unplanned downtime.

COMMUNICATION CHALLENGES

block coordination between workers.

SAFETY HAZARDS

put workers at risk.

ILL-FITTED EQUIPMENT

complicates employee changeovers.

These pain points are further complicated by a number of disruptive workforce trends:

75%

of global CEOs would like to see millennial workers by 2025.¹

77%

of CEOs surveyed said that 'operational efficiencies' was their top initiative to drive revenue growth in the next 12 months with 'organic growth' coming in second at 71%.³

55%

of CEOs stated that the availability of key skills is impeding their growth due to 'inability to innovate effectively'.³

46%

of global CEOs responded that 'significant training/upskilling' was most important to closing potential skills gaps in their organization.³

39%

of respondents stated that in 5 years they anticipated their factories having a completely collaborative structure, involving employees, customers and suppliers.¹

x4

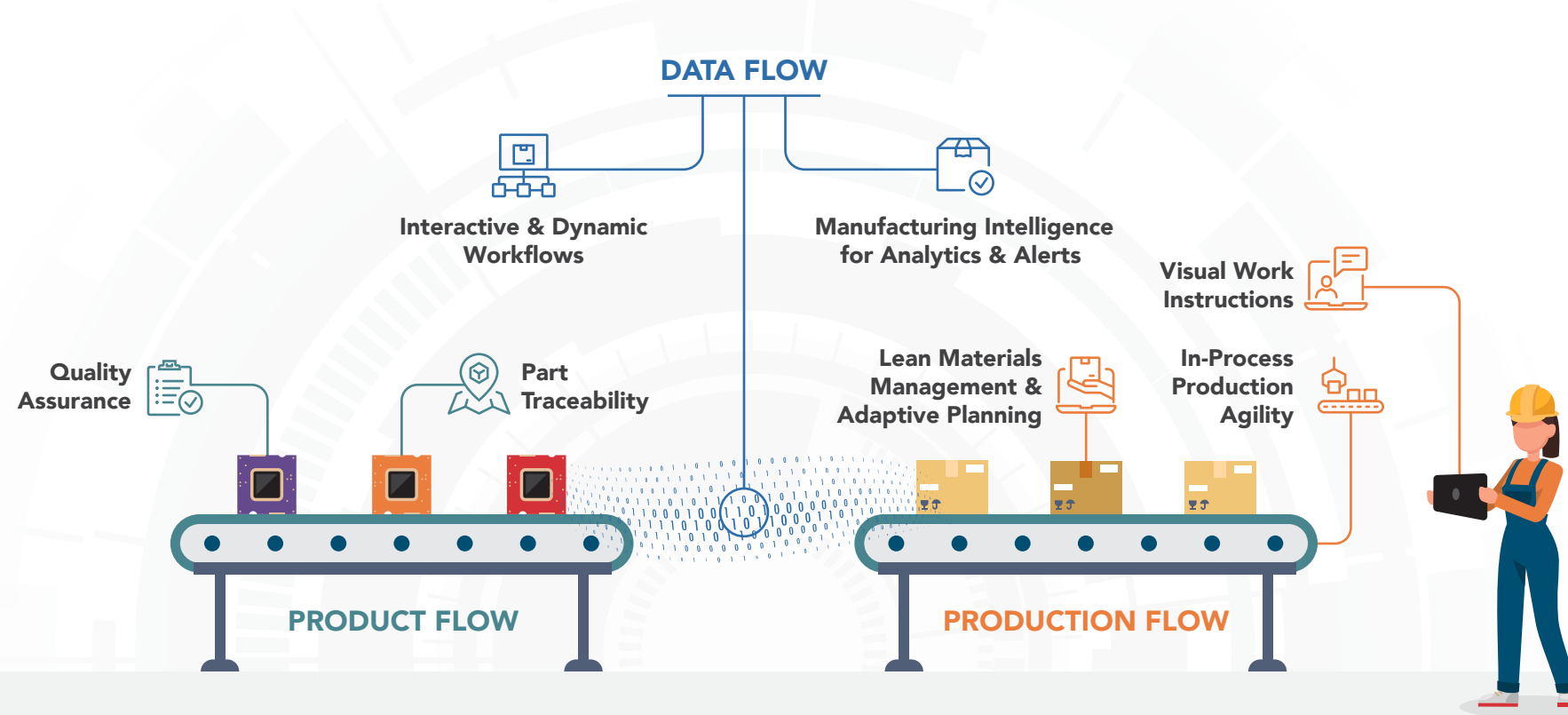
is the expected increase in exports from emerging and developing countries in the near future.¹

Luckily, just as these critical issues are coming to a head, it's becoming increasingly clear that holistic digital manufacturing technology is needed to enable long-term productivity improvements.

IIoT POWERS DIGITAL PRODUCTIVITY, FACTORY-WIDE

The application of Industrial Internet of Things (IIoT) capabilities in a manufacturing environment immediately unleashes new gains for factory workforces, whether their roles depend on product flow, production flow, or factory flow.

An Intelligent Foundation of IIoT Enables:



>80%

of companies that adopt IIoT report efficiency improvements.⁴

10-12%

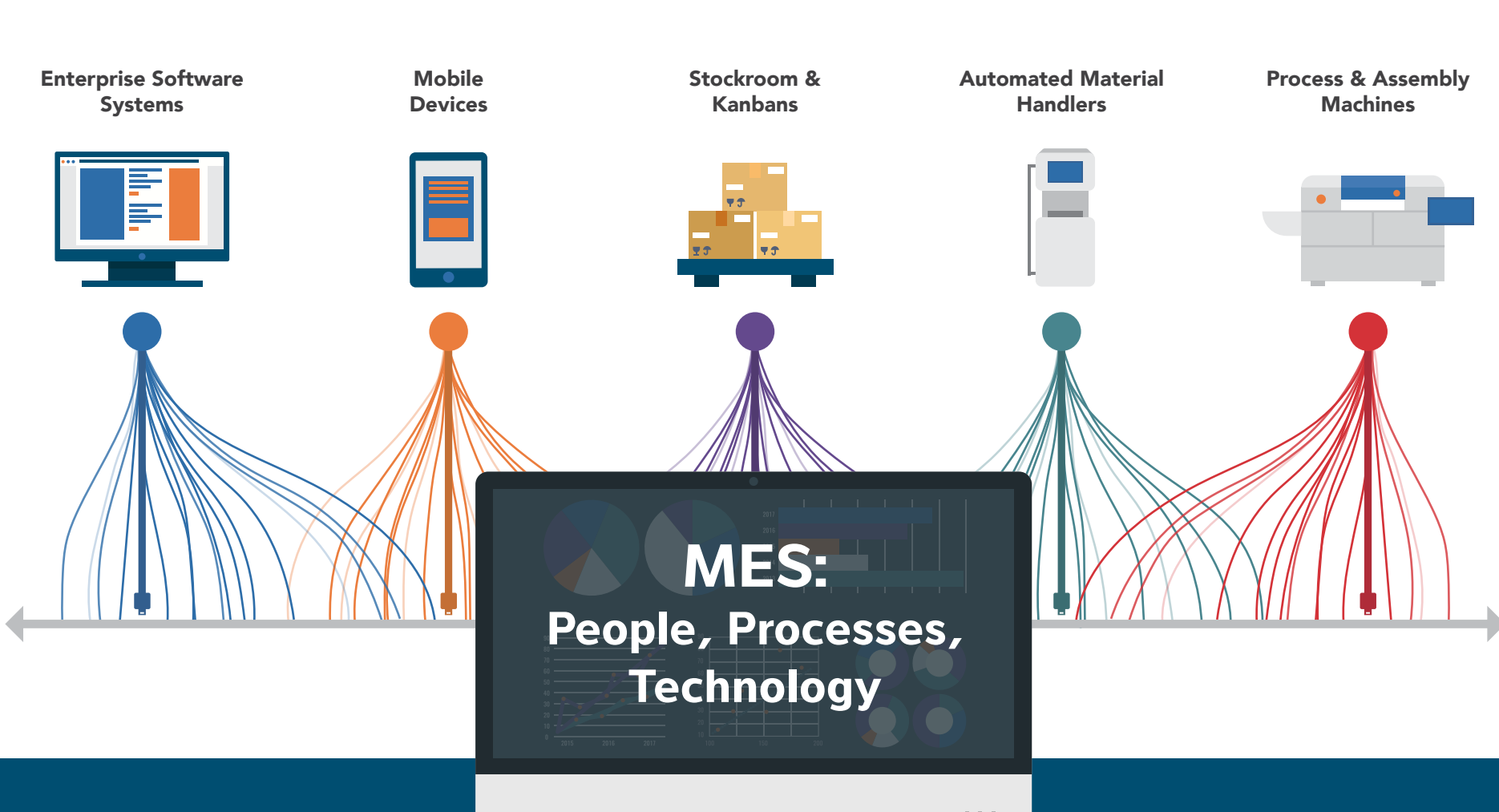
productivity improvements have been realized due to visual work instructions alone.¹

What single technology solution can enable such a holistic improvement in productivity? **A Manufacturing Execution System (MES).**

MES ENABLES A CONNECTED & COLLABORATIVE FACTORY ECOSYSTEM

Industrial MES is the digital hub of manufacturing information and connectivity. With an MES, intelligence can be gathered from machines, devices, ERP systems, and people, then put in context to facilitate seamless processes throughout the factory.

An IIoT Foundation for Factory-Wide Processes:



HOLISTIC & HARMONIZED FOR MANUFACTURING WORKFORCES, MES SOLUTIONS RAPIDLY ENABLE:

Interactive & Dynamic Digital Work Instructions

Augmented Reality (AR)

Manufacturing Intelligence (Analytics, Alerts, Workflows)

Lean Materials Management & Adaptive Planning

Quality & Traceability

In-Process Production Agility

THE PROOF IS IN THE PRODUCTIVITY An AR-based training platform powered by MES resulted in **15% time savings per step** for one manufacturer.

Power up Workforce Productivity with FactoryLogix® MES

FactoryLogix®

Aegis' FactoryLogix MES solution lays a foundation of IIoT connectivity that rapidly boosts workforce productivity.



Visit www.aiscorp.com to learn more.

1. Frost & Sullivan | 2. <https://www2.deloitte.com/content/dam/Deloitte/ch/Documents/consumer-business/ch-en-consumer-business-made-to-order-consumer-review.pdf>
 3. <https://www.pwc.com/gx/en/ceo-agenda/ceosurvey/2019/gx> | 4. <https://www.inc.com/kayla-matthews/these-6-statistics-will-show-you-why-you-need-iiot.html>