

The Industry 4.0 Journey

Strategic Digital Transformation, One Step at a Time



Industry 4.0 adoption is a journey, not a destination. Reaching total convergence between above-the-factory IT and on-the-floor operational technology doesn't happen overnight, but harnessing best-in-class MES/MOM can put manufacturers with disparate systems on the fast track to achieving Industry 4.0 benefits. Let's see how.

INDUSTRY 4.0 ENABLERS

Industry 4.0 advances the flexibility, adaptability, automation and efficiency of manufacturing to a next industrial revolution. To do this, it relies on advanced data-sharing capabilities between factory assets and operations. Adaptive Industry 4.0 benefits will ultimately enable new manufacturing business models and revenue sources through full IT/OT convergence. At its core, Industry 4.0 is powered by:





Thanks to Industry 4.0 innovations, manufacturing companies expect to see a higher degree of:¹







Operational Flexibility (62%)

KEY TECHNOLOGICAL COMPONENTS OF INDUSTRY 4.0



TOP OBSTACLES TO PURSUING IIOT INTEGRATION

The challenges associated with adopting Industry 4.0 and IIoT technology are often stumbling blocks for manufacturers as they begin the process of digital transformation. Manufacturers report challenges due to:²

Top Obstacles to Pursuing Ilot Integration	Percent %
Funding	32%
Building a Business Case	30%
Lack of IIoT Knowledge	26%
Security	25%
Standards	22%
Finding the Right Tech Partner	17%
Gaining Insight from Big Data	14%
Developing IIoT Software Apps	14%

The long-term benefits of Industry 4.0 make it critical for manufacturers to overcome obstacles that block architectural innovation. Due to Industry 4.0 digitization:



50% of companies expect double-digit revenue growth over the next five years.¹

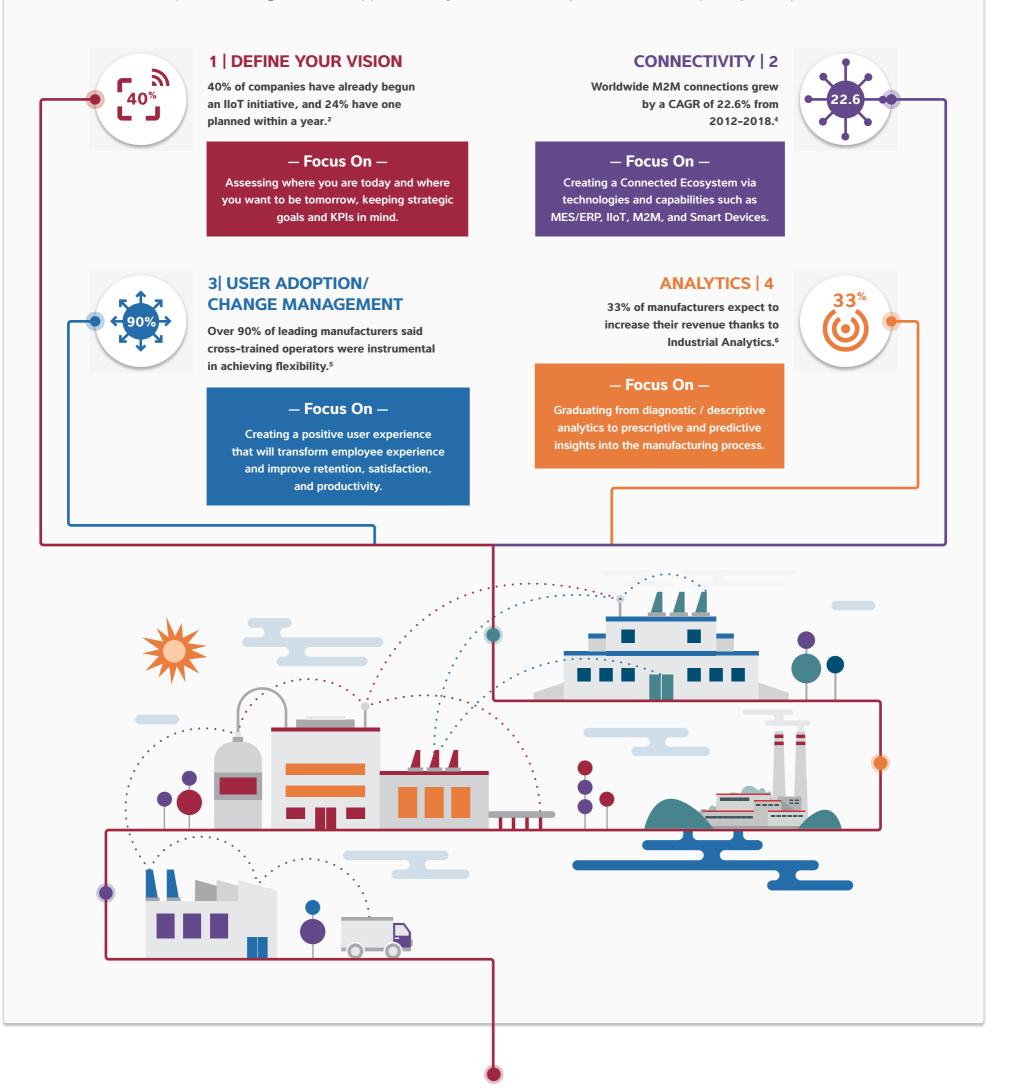


Manufacturers expect to reduce operational costs by 3.6% while increasing efficiency by 4.1% annually through 2020.³

By approaching new technologies strategically, manufacturers can mitigate obstacles and set themselves up for Industry 4.0 success.

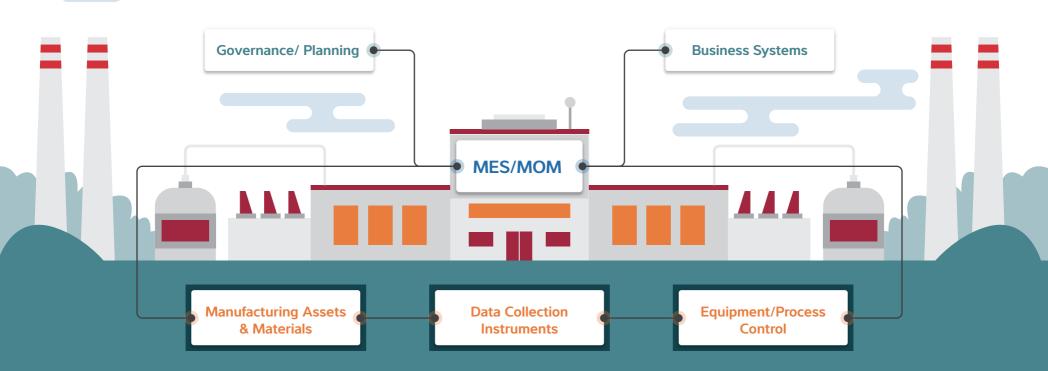
FOUR STEPS TO START A SUCCESSFUL INDUSTRY 4.0 JOURNEY

There is no one-size-fits-all method for Industry 4.0 adoption, but manufacturers must be holistic and deliberate in their approach. Striking a balance between thinking ambitiously and creating reasonable goals that top-level management will approve is key. Four initial steps on the Industry 4.0 journey include:



FAST TRACK DIGITAL TRANSFORMATION WITH MES/MOM

Manufacturing Execution Systems (MES)/Manufacturing Operations Management (MOM) are closely tied to IIoT and Industry 4.0 success. In fact, unified MES/MOM is synonymous with an IIoT platform, as it powers distributed, modular IIoT architectures by sharing data between key areas.



Without a unified MES/MOM, the factory floor cannot connect to top-level management and planning, halting the process of Industry 4.0 adoption.

of manufacturers fill the MES/MOM gap.²

As more manufacturers move toward Industry 4.0, it's clear that MES/MOM will be their ideal starting point.

START TAKING STEPS TOWARD INDUSTRY 4.0

The top manufacturers of tomorrow need an Industry 4.0 strategy today. By clearly defining their vision, outlining next steps, and enhancing their efforts with a best-in-class MES/MOM platform, manufacturers can steadily and efficiently achieve their goals.

Factory Logix®

Take the first step toward digital transformation with FactoryLogix[®], a holistic MES platform with easily configurable modules to support and execute any manufacturer's strategy for Industry 4.0.



Learn more at www.aiscorp.com.

1. https://www.pwc.nl/en/assets/documents/pwc-industrie-4-0.pdf

2. LNS Research

- 3. https://www.forbes.com/sites/louiscolumbus/2016/08/07/industry-4-0-is-enabling-a-new-era-of-manufacturing-intelligence-and-analytics/#e008d867ad90
- 4. https://www.statista.com/statistics/295635/total-number-m2m-connections-worldwide/
- 5. https://hbr.org/2017/02/how-manufacturers-can-get-faster-more-flexible-and-cheaper
- 6. https://www.forbes.com/sites/louiscolumbus/2016/12/03/industrial-analytics-based-on-internet-of-_ings-will-revolutionize-manufacturing/#4a262a1c6c03