

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

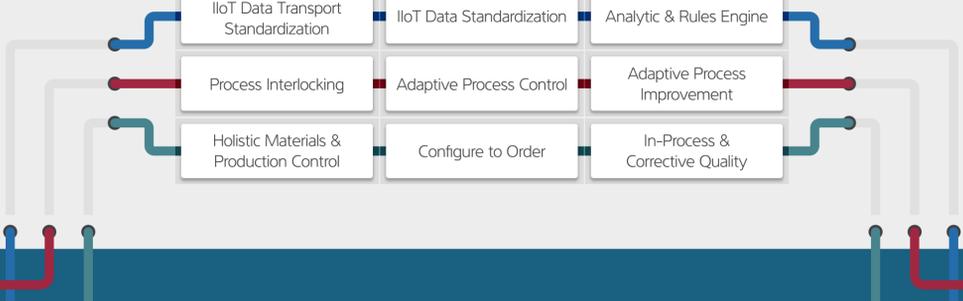
Industry 4.0 advances the flexibility, adaptability, automation and efficiency of manufacturing to a next industrial revolution. To do this, it relies on advanced data-sharing capabilities between factory assets and operations. Adaptive Industry 4.0 benefits will ultimately enable new manufacturing business 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

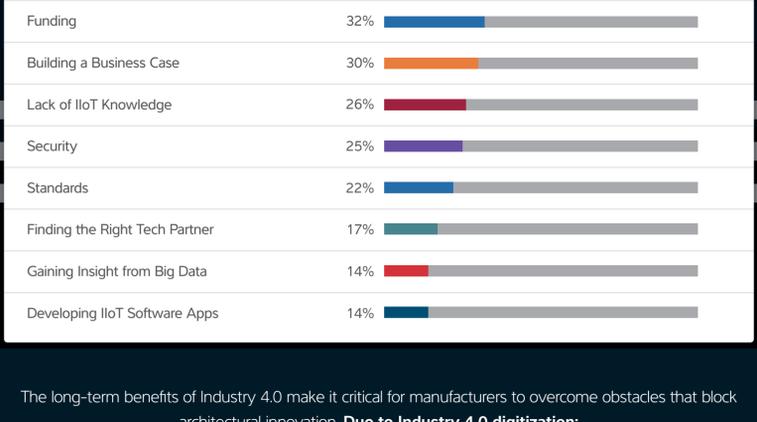


KEY TECHNOLOGICAL COMPONENTS OF INDUSTRY 4.0



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**



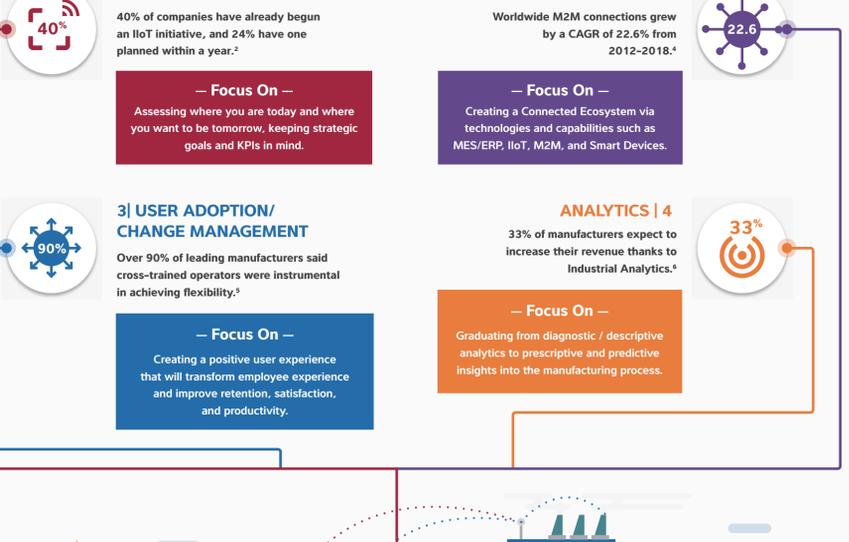
The long-term benefits of Industry 4.0 make it critical for manufacturers to overcome obstacles that block architectural innovation. **Due to Industry 4.0 digitization:**



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:**

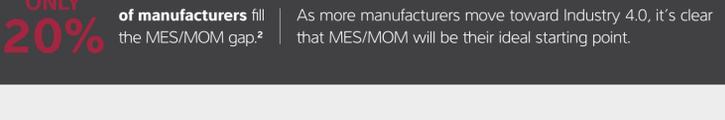


FAST TRACK DIGITAL TRANSFORMATION WITH MES/MOM

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.



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.

1. <https://www.pwc.nl/en/assets/documents/pwc-industrie-4-0.pdf>
 2. LNS Research
 3. <https://www.forbes.com/sites/louiscolombus/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/louiscolombus/2016/12/03/industrial-analytics-based-on-internet-of-ings-will-revolutionize-manufacturing/#4a262a1c6c03>