

eZ-MFG

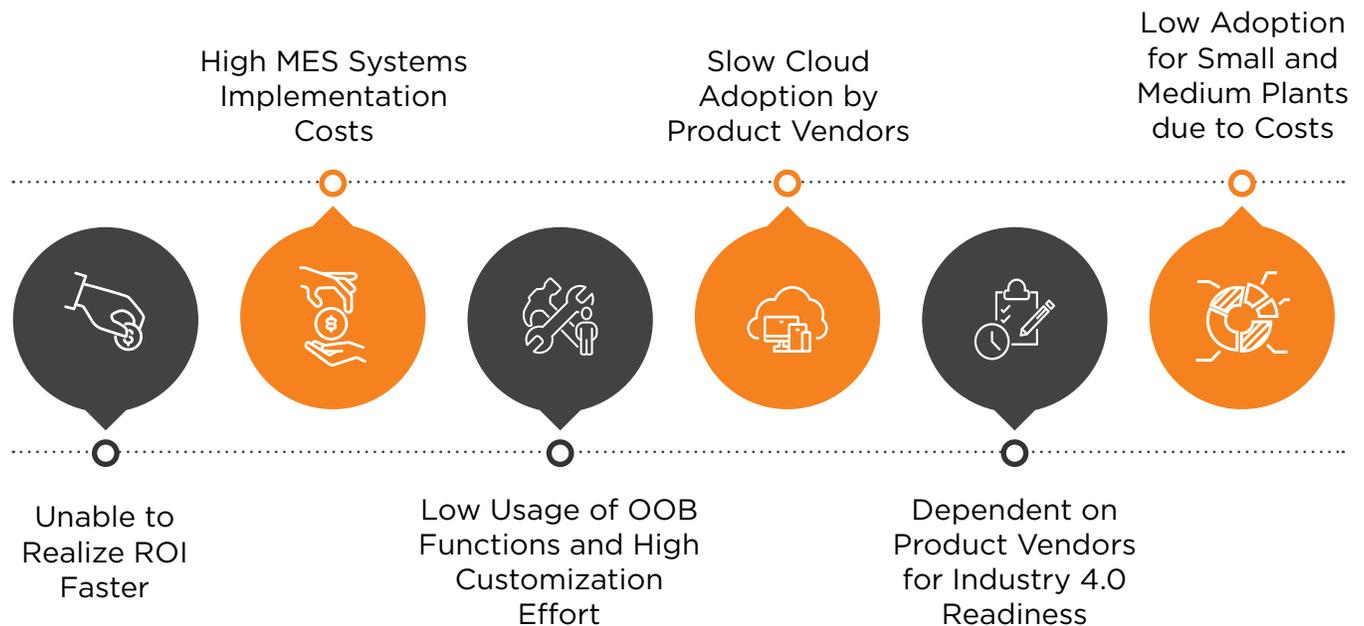
Manufacturing execution simplified (MES)



Manufacturing execution simplified

Today, CPG enterprises are looking at ways to build greater agility, responsiveness, and resilience into their manufacturing capacity and integrated supply chains. Owing to numerous challenges posed by COTS solutions, leveraging Industrial Internet of Things -IIoT (an important aspect of Industry 4.0), can help companies gain a competitive advantage and emerge with stronger resilience.

Current challenges with mainstream MES/MOM systems



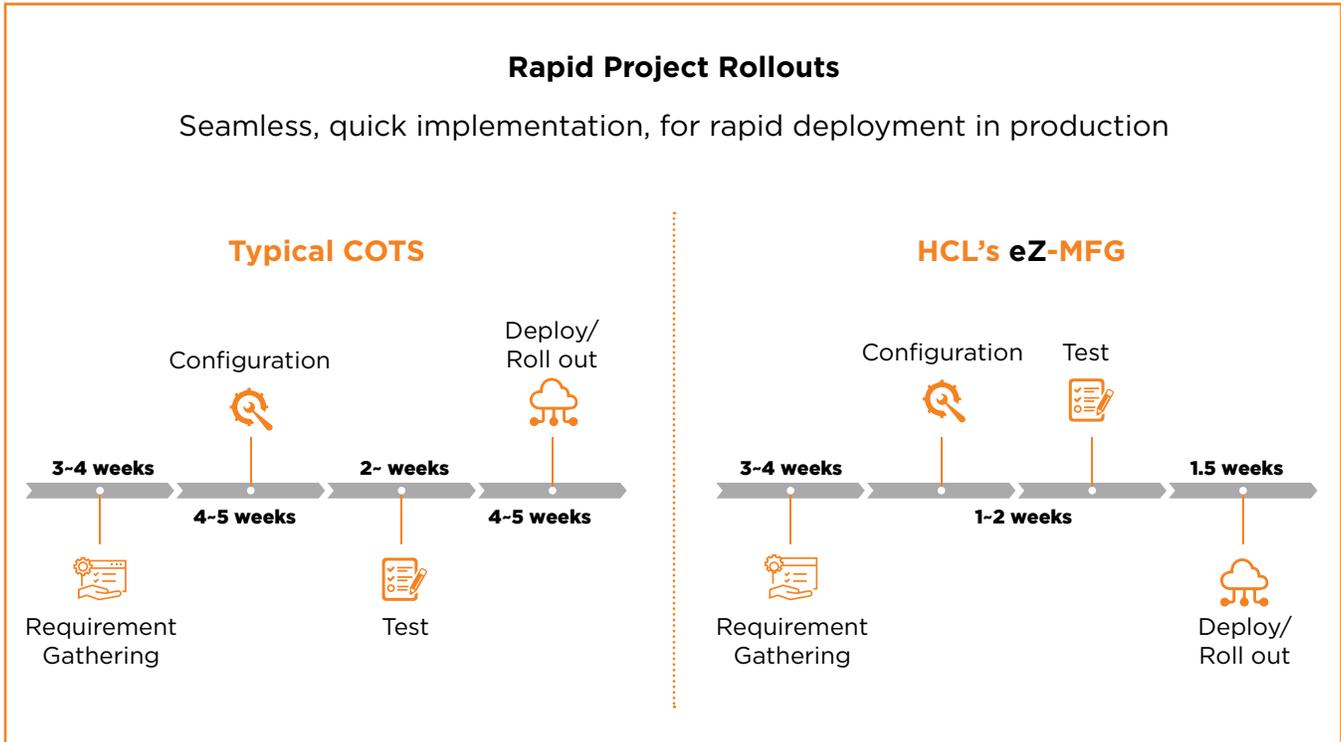
COTS solution limitations/complexities

- Complex and prolonged deployment model
- Solution and license cost becomes expensive in the long run
- Difficult to customize to customers or market-specific needs
- Require investment in a fully loaded MES feature package, whereas customers use only key features
- Frequent mandatory upgrades adding operational overheads and resulting in a poor business case
- Increased cost of ownership



HCL eZ-MFG

Powered by PTC Thingworx and launched by HCL's Industry 4.0 Digital Manufacturing Practice, eZ-MFG is a ready-to-use, cost-effective, easy customizable, fast deployable, Lite MES solution. It supports agile manufacturing and integrated supply chains, enabling customers to achieve their production and operational goals with rapid returns on investment.



eZ Tracking of manufacturing and performance KPIs



eZ to know manufacturing asset utilization



eZ identification of process steps/routing by serialization and image



Connected Enterprise

Scalable across multiple plants as based on the PTC ThingWorx IIoT Platform



Easy Configure and Customize

Extensibility with production modeling based on the PTC ThingWorx Thing model



Personalized User Experience

Enabling remote monitoring and personalized dashboards for different user personas.

eZ-MFG ARCHITECTURE

eZ-MFG SOLUTION FEATURES

REPORTS AND DASHBOARDS

Visibility of Production Performance, WIP Tracking
Production and Process Summary Reports

Production Order Integration > Production Order Splitting
Work Order Routing > Work Order Scheduling > Work Order Release
Part Picking And Kitting > Work Order Execution > Production Posting
Production Tracking > Traceability & Genealogy > Shop Floor Integration
External System Integration > Analytics > PTC Thingworks Manufacturing Apps

WEB/MOBILE APP USER

ENTERPRISES

Web/Mobile App Manual
Excel File Semi-Automatic
API Based data Collection Automatic

Integration with Enterprises Systems (ERP)

Integration with control Systems and OEM Systems

IIoT, OPC, IN, Gateway, Custom Interface, Automatic

MANUFACTURING SHOP FLOOR

Low Cost of Ownership



Manufacturing Integration

- Native OPC DA/UA connectivity
- Native custom interface through SDKs and APIs

Third-Party Licenses

- 100% based on PTC ThingWorx Ni hidden cost



Software

- Modular functionality
- Pay only for the features to use
- Scalable pricing based on module size

Hardware

- Scalable hardware based on the need from a single server to full-fledged, fault-tolerant, high-availability configuration
- Save on physical hardware with cloud hosting



Administration

- Powerful admin configuration GUI
- Helps central decision-making
- Industry 4.0: IIoT adoption
- Less dependencies on multiple roles

Industry 4.0: IIoT Adoption

- Leverage one of the world's best foundation IIoT platforms
- MQTT enabled for larger connectivity with "different" assets



Usability

- Lower training time for the user
- Personified user enforcement from handled devices
- Quick action within no time
- Improved productivity

For more information write to us at rcpg.solutions@hcl.com

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