

# A Roadmap to Leveraging IIoT



Let go of the IIoT FOMO (Fear of Missing Out). Here are five steps to help you prepare, strategize and get you on track with your manufacturing peers. Start transitioning to “smart” shop floors and leveraging IIoT to operate more efficiently, plan and prevent disruptions, and unlock new opportunities for growth.

## STEP

### 1 Identify Pain

- Capacity – running at capacity with limited equipment and labor
- Overwhelmed labor burdened with data entry, lack of automation, machine setup, lack of knowledge
- Greater OEM requirements in traceability, validation, quality and sequencing
- Mis shipments – counts, sequence, weight
- OEE – downtime/availability, reduced efficiency and capacity
- Accuracy – inventory, downtime, setup, “real-time”/dated information
- Diminishing supply of skilled trades - operators, programmers, etc.

## STEP

### 2 Determine Existing Tools

- Hardware – PLCs, HMIs, barcode printers/scanners, scales, robots, calipers, torque tools, controllers, etc.
- IT – PCs, servers, networks (wired and wireless), tablets, TVs, smart phones, etc.
- Software – ERP, MES, SCADA, databases, 3rd party, etc.
- Staff – ERP, MES, SCADA, IT, OT, PLC, maintenance, production manager, etc.

## STEP

### 3 Evaluate Options

- Minor gaps to fill or significant missing pieces
- Partners, suppliers and staff
- Open Architecture?
- Scalability?
- Managability? (in house/3rd party development, support, diagnostics)
- Cost structure (site, users/seats, volume, points, controllers, screens, modules, licenses, developers, transactions)

## STEP

### 4 Pilot & Implement

- Two primary routes
  - Address biggest pains
  - Address lowest hanging fruit
- Explore low cost/no cost demos
- Start small – don’t eat the elephant
- Assign a project champion
- Demonstrate the benefits to team members

## STEP

### 5 Rinse & Repeat

- Evaluate best practices
- Evaluate corporate standards, templates, global and local data requirements, localization, consolidation, etc.

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## ABOUT KORS ENGINEERING

Mach2 is an integration software platform that interacts with your shop floor machines and systems to provide usable, actionable information. Mach2 is a browser-based system with production scoreboards that can be customized to your unique business needs. With Mach2, machine activity can also be automatically synced with your ERP system for seamless operations throughout your business.

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## ABOUT BAKER TILLY

Baker Tilly is a leading Plex Manufacturing Cloud alliance partner with a specialized Plex management and business technology consulting practice. We offer comprehensive Plex implementation, business integration, industrial analytics and tailored optimized solutions in alignment with Industry 4.0 for the automotive supplier, metal fabricator, and discrete manufacturer.