

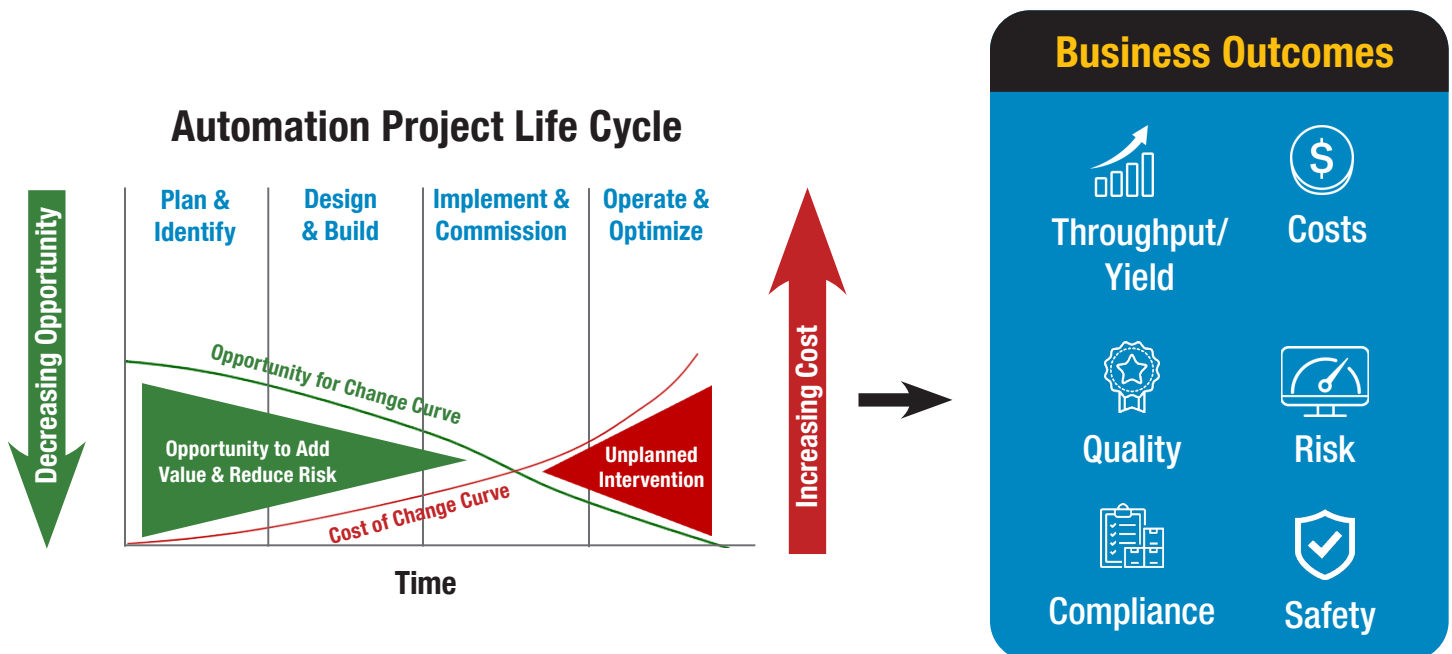
Roadmap Planning for Enterprise SCADA and Manufacturing Systems

In today's automated world, industrial companies are under pressure to reduce costs and maximize productivity. Automation and MES project life cycle planning is a continuous process involving several steps that can help reduce expenditures, downtime, and risks, all while improving productivity.

Developing a roadmap is an important step in successful process automation engineering. The roadmap is continuous in nature and helps uncover the design basis for your system. AutomaTech is your trusted partner in your automation life cycle plan and will help navigate you through the process to your ideal system.

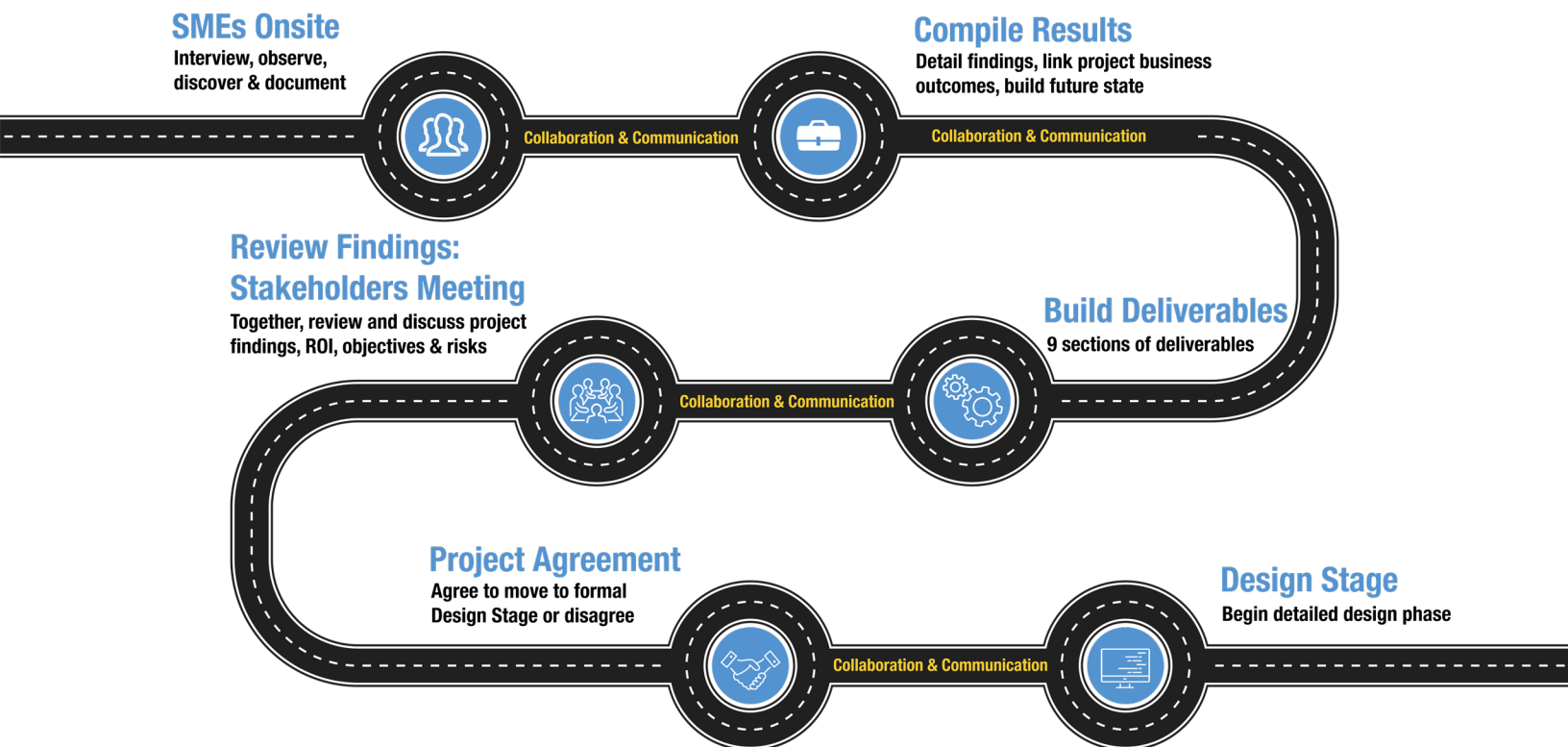
Planning Today Reduces Risk & Losses Tomorrow

Many times projects fail due to poor planning derived from lack of clear desired outcomes. Industrial companies can suffer various costs of not planning properly risking problems during system cutover, missing functionality, cyber vulnerabilities, and budget and scheduling issues. AutomaTech can help you plan your automation project life cycle properly to ensure maximum productivity and reduced costs.




Plan for Each Project Phase

AutomaTech collaborates with you through each phase of the roadmap planning process with consistent checkpoints. Utilizing best practice discovery tools and applying our experience in uncovering opportunities for improvement, we will lead you through the process to your ideal system.




Roadmap Planning Levels


AutomaTech can guide you through the appropriate roadmap to meet your custom needs.



Multi-site Enterprise Roadmap
A bundling of engagements for multiple sites



Single-site Roadmap
Multiple project roadmap in single comprehensive plan



Project Roadmap
Front End Engineering Design (FEED)

Planning For All Your Application Needs

AutomaTech has different roadmap types to meet your application needs.



Enterprise SCADA

- SCADA Architectures
- Multi-site/Enterprise
- SCADA Redundancy
- High Availability & Fault Tolerance
- Server Clustering Support
- Migration to current platforms
- Intelligent Alarming & Notification
- Historian Architecture & Reporting
- Security Compliance



MES Readiness/Deployment

- Industry 4 & Digital Transformation
- Master Record Information
- Site & Enterprise-wide
- Dashboards, KPIs, Reporting
- ERP Integration Mapping



Networking & Security

- Logical Diagram
- Network Segmentation/Vlan
- Vulnerabilities
- Containment Process
- High Availability
- Virtualization
- Edge-based Solutions
- Physical to Virtual

Sample Roadmap Deliverables - Functional Design Specifications

Problem Definition



- Quality, Yield, Compliance, Safety
- Costs, Risk, Security, Time to Market

Gap Analysis



- Current/Future State
- Gaps & Remedies

SCADA Architecture



- Events & Alarms
- Operator Management
- Device Management

Network & Security



- Logical Diagram
- Security/Exposure
- OT LAN Segments/Reliability

Data Architecture (MES/ERP)



- Data Model
- Product & BOM
- Scheduling & Maintenance

Risks



- Identified Risks
- Mitigations Strategies
- Cutover Plan

Next Steps/Recommendations



- Priorities
- Schedule
- Implementation Plan

Dashboards



- Reports
- User Interface
- KPIs

We Drive Project Success

Roadmap planning helps avoid everyday manufacturing problems. AutomaTech can help you increase cost of quality like defects, deviations from standards and warranty and abatement, as well as increase throughput and yield, regulatory compliance, and safety. Using AutomaTech's experience and solutions will help decrease time to market and reduce costs like labor, inventory, systems and energy and utilities.



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