

# Master Plan Consulting Service

## Service Description

Rapid advancements in automation technology and information systems support new and improved ways to operate plants and gain significant improvements in plant performance. Many companies want to take advantage of this new technology but are unsure how to best incorporate it and economically justify it.

The Master Plan provides clients a detailed implementation plan with a rigorous business case to help define future automation investment programs that significantly improve production economics and maximize long-term return on investment.

Client engagements are performed by senior consultants with deep industry and process automation expertise and proven experience in developing successful Master Plans for clients around the world.

## Service Objectives

- Establish a future business and technology vision for overall plant automation, advanced automation, and plant information systems.
- Determine the technology enhancements that would provide immediate and direct impact to key plant business drivers.
- Provide a financial return-on-investment analysis for project justification and prioritization
- Develop a roadmap with a prioritized 5 year project schedule and implementation plan.

## Typical Situations

- Require facilitation for overall automation vision casting and program planning in support of a plant-wide or multi-site modernization initiative
- Wish to define and plan future automation upgrade programs for implementation based on rigorous economic justification and prioritization
- Interested in investing in new automation technology and require a sound business basis and project roadmap on how to best incorporate with existing infrastructure

## Scope of Service

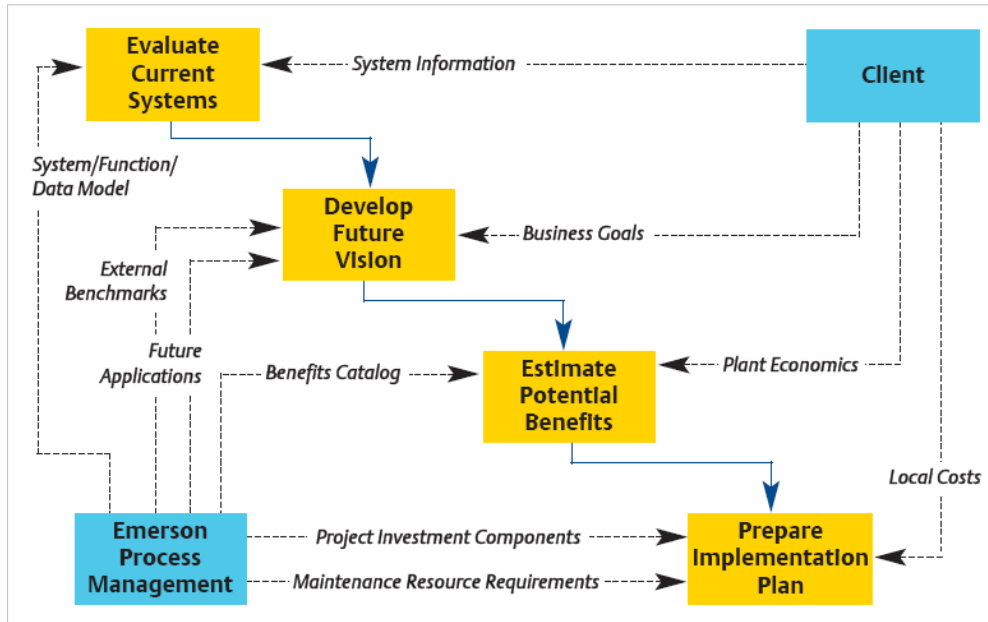
- Evaluation of status of existing plant automation and plant information systems, which can include field instrumentation, control systems, advanced automation, production management/MES, infrastructure migration and connectivity
- Formal development of a future business and technology vision and roadmap
- Analysis and quantification of expected process improvements and economic benefits
- Cost estimates ( $\pm 50\%$ ) for overall investment program including all software, hardware, services, and expected long term sustaining costs
- Recommended 5-year investment program with project prioritization, implementation schedules, expected program cash flow, and return on investment

## Deliverables

- Onsite visits and formal analysis by a senior Emerson Process Management consultant
- Final Master Plan report documenting results, benefits analysis, recommended technology enhancements, financial analysis, and recommended project implementation plans
- Management presentation or meeting to review and discuss results and recommendations

## Service Activities

A proven program implementation methodology is used to develop the Master Plan. The main activity steps are to: evaluate current systems, develop the future vision, estimate potential benefits, and prepare the implementation plan. The overall sequence of activities is outlined in the figure below.



## Service Duration

A Master Plan engagement can typically take three to four months involving multiple onsite visits, along with offsite analysis. However, as each study will be customized to specific needs and situations, duration will vary depending on scope and complexity.

## Service Ordering

Please contact your local Emerson sales office to retain this service. Prior to order acceptance, Emerson will issue a written proposal for your review and approval to ensure that scope, deliverables, timing, and budget meet your needs and expectations.

For additional information, please reach us at [AAT@emersonprocess.com](mailto:AAT@emersonprocess.com)

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