Digitalization roadmap

Define a multi-year industry best-practice-based digitalization strategy

Benefits

- Prepare a tailored, multi-phase process-based digitalization roadmap that provides an Industry 4.0 context for continued process improvements

- Learn industry trends and their implications for your business

- Improve future business execution by defining cross-domain scenarios and process flow

- Align possibilities with stakeholder business priorities

- Understand best practice business processes and enabling technologies

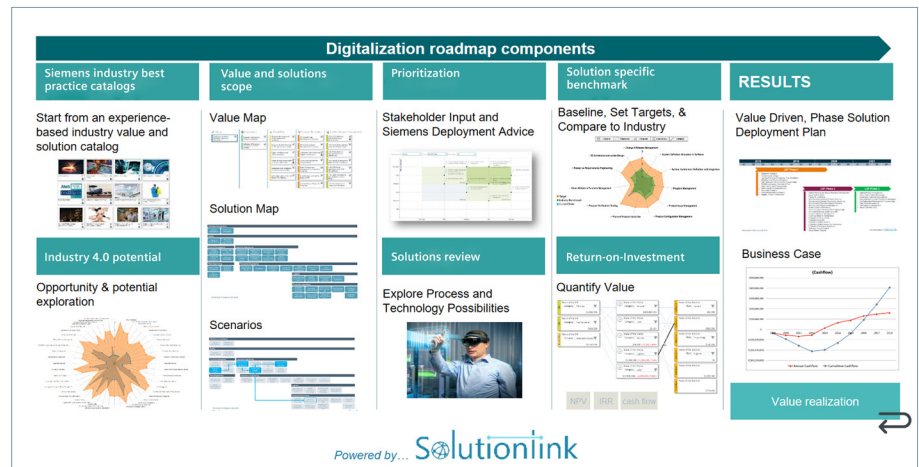- Create a solid business case for digitalization that supports your strategy

Summary

Industry 4.0 demands every company plan for its digitalization journey and the associated process improvements to compete in the future market. Rapid technology advancements in multiple frontiers like design and manufacturing automation, product design and manufacturing simulations, model-based design and engineering, Internet of Things (IoT), etc., are replacing legacy technologies. To know how to best invest your money, plan your time and determine what to focus on now and in future, you need a strategy and a digitalization roadmap. The digitalization

roadmap workshop, which is part of the Xcelerator™ portfolio, the comprehensive and integrated portfolio of software and services from Siemens Digital Industries Software, helps customers develop a high value and executable multi-phase digitalization strategy to enable them to transform their business independent of market disruptions. The roadmap is an output of the complementary activities illustrated below:

Industry 4.0 potential

The Industry 4.0 potential activity is a one-day, fast-moving workshop where the full digitalization landscape is briefly investigated to determine potential key value areas and solution maturity levels. This activity helps focus the scope for more complete value and solution prioritization roadmap activity and provides insight into the range of improvement possibilities.
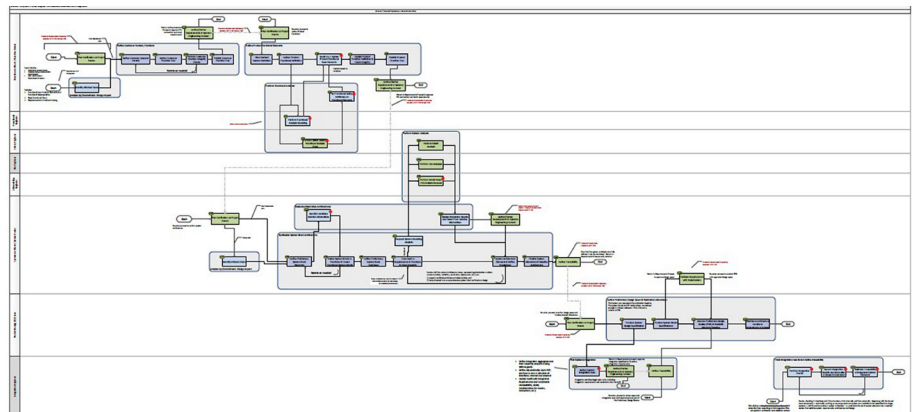

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Digitalization roadmap

Value and solution prioritization

A Siemens lead consultant, supported by industry domain experts, works onsite with your key stakeholders and domain experts using Siemens' Solutionlink application to lead an Industry 4.0 plan. An evaluation of organizational possibilities and risks will help you understand and capture priority improvement areas – based on a firm understanding of value. This is then translated into a step-wise digitalization transformation roadmap.

Solution review

A solution review workshop helps customers gain a greater understanding of Siemens' best practice solutions. During this activity, Siemens consultants explain specific solution areas including Siemens' best practice business processes, participants and roles. It will include a discussion about key capabilities for each solution from a process/scenario viewpoint. The review will present the logical data model for solution elements and explain how the solution interfaces with other processes.

Solution-specific benchmark

The solution-specific benchmark activity helps customers know where they stand from a process and technology perspective relative to others in their industry segment. This information helps you make good decisions about the timing of solution deployment initiatives in the overall roadmap.

Siemens consultants will assess your Industry 4.0 maturity across people, processes and tools for each solution area. A maturity comparison with other companies is provided using our Solutionlink database. The maturity ranking is done using standard grading models across dimensions such as changes to: process, technology, information, collaboration, organization and security and application integration.

Return-on-investment

This activity evaluates the financial consequences of process improvements via a return-on-investment (ROI) analysis. Key performance indictors (KPIs) are used to help determine a benefit pool that is then aligned with a solution rollout schedule and offset by project costs to achieve a cash flow and ROI summary that includes payback, internal rate of return (IRR) and net present value (NPV) calculations. Benefits are tied to solutions and are further categorized for additional rollup reporting and year over year projections. If needed, internal cost data can be approximated and externalized, allowing sensitive information to be entered and seen only by the customer.

Durations

Industry 4.0 potential
- One day, at the customer site

Value and solution prioritization
Typically, one working week with:
- One working day offsite preparation
- Two to three working days onsite at customer location
- One working day offsite for wrap-up and closing conference

Solutions reviews
- An additional day per solution being explored

Solution specific benchmark
- Approximately four working weeks with:
- Two weeks of onsite interviews at customer location
- One week of offsite analysis
- One week of final report creation and presentation back to stakeholders

Return-on-investment
Depending on the availability of input data/metrics, this activity is typically conducted in three working weeks with:
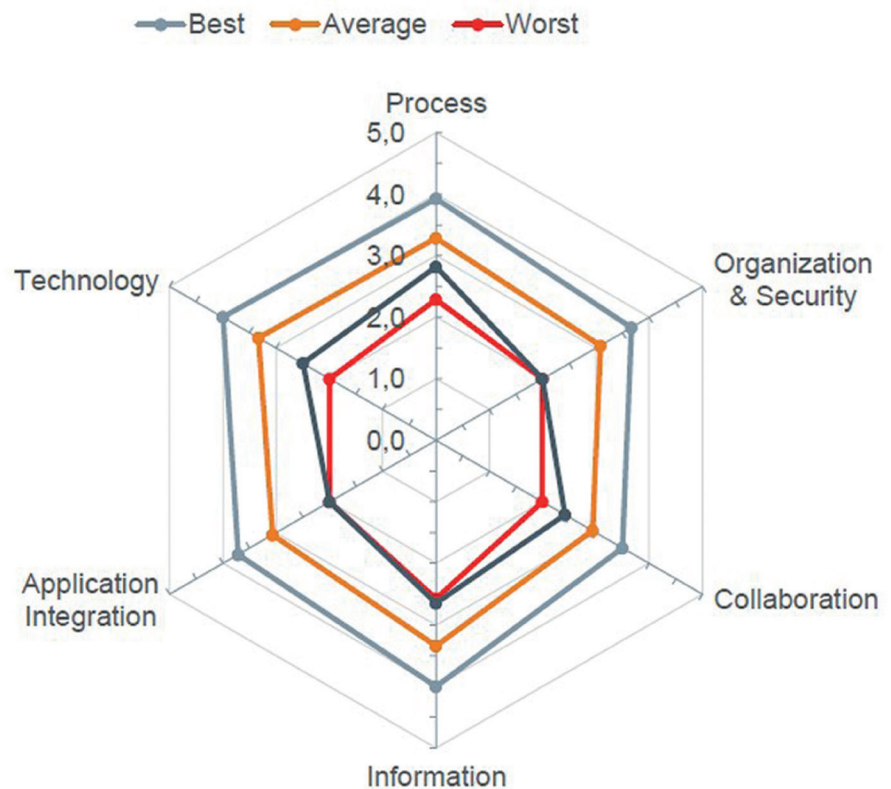- One week of onsite interviews/data collection at customer location
- One week of offsite analysis
- Two to three working days of final report creation and presentation back to stakeholders

Deliverables
The digitalization roadmap and associated offerings produce:
- Qualitative value mapping from industry trends to solutions
- Stakeholder prioritization
- Multi-year, multi-phase digitalization roadmap
- High-level solution architecture diagrams
- Solution scoping
- Key cross-domain scenarios
- Business process definition/diagram with key scenario steps and process improvements and enabling tools
- Integration points

Best/Average/Low

- Process maturity spider diagram and evaluation reports comparing key metrics of your as-is processes to industry benchmark maturity levels – an effective measure of your company's ability to compete in your industry segment
- A return-on-investment analysis comparing the value of solution/productivity improvements against the cost of implementation – with payback duration

For more information please contact the services manager in your country.

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