

Model-based Architecture and Process Strategy™ (MAPS) Workshop

— customizable to meet your project/team needs —

This interactive workshop helps you plan an effective strategy for applying Model-Based Engineering technologies to improve your enterprise system architecture and processes. The workshop consists of flexible learning modules and can be customized to meet your project/team requirements.

Are you considering the cost/benefit trade-offs of Model-Based Engineering (a.k.a. Model Driven Development, Model Driven Engineering) technologies, but are confused about the “alphabet soup” of acronyms (UML, BPMN, SysML, DoDAF/MODAF/UPDM, TOGAF, OpenUP) and the “Muddle Driven Marketecture” tool vendor hype surrounding them? You may want to **consider a Model-based Architecture & Process Strategy (MAPS) workshop to develop an effective enterprise strategy** to reap the benefits—but avoid the pitfalls—of Model-Based Engineering.

A Model-based Architecture and Process Strategy (MAPS) Workshop is a **collaborative review, analysis, and planning workshop that performs an extreme makeover of your enterprise strategy for applying Model-Based Engineering technologies to your projects.** Each MAPS workshop produces concrete recommendations and plans to improve your enterprise system architecture and processes using industry-proven principles and best practices.

WHY TRAIN WITH US? – PIVOTPOINT TRAINING ADVANTAGES

- PivotPoint workshops are **authored and taught by Model-Based Engineering experts** with 10+ years practical application experience.
- PivotPoint workshops **are intense (high Instructor/Student ratio) and pragmatic—punctuated with frequent Q&A sessions and hands-on practice exercises.**
- PivotPoint workshops are **based on proven tool-independent principles and techniques**, so you can learn a leading modeling language or architecture framework with/without a modeling tool. (For a list of workshops customized for popular visual modeling tools see the *Training* page on the PivotPoint web.)
- PivotPoint workshops are **modular and can be customized to meet your team and project needs.** To begin with, you can pick-and-choose your modeling language, and then select from modeling tool and architecture framework training options.
- PivotPoint workshops **offer flexible choices of venues (onsite, offsite, webconference) and durations (#days).**

For more details about the advantages of PivotPoint’s Model-Based Engineering training check out the [“Why Train with Us?”](#) page on the PivotPoint web. But don’t just take our word for it; you should also check out the [Client Testimonials](#) page on our web.

Workshop **learning objectives, prerequisites, syllabus, and logistical information** are described below.

WHAT WILL YOU LEARN?

- Understand the technical and business advantages of a model-based, architecture-centric process that is requirements-driven and reuses patterns and frameworks.
- Learn how to apply industry-standard visual modeling languages (UML 2, BPMN, SysML) to precisely and concisely specify your enterprise system architecture and processes.
- Understand how to select visual modeling tools and support tools that will accelerate your Model-Driven Engineering processes.
- Learn how to apply architecture frameworks (e.g., DoDAF/MODAF/UPDM, TOGAF, Zachman) and process frameworks (e.g., Unified Process) to improve your enterprise system architecture and process.
- Identify and prioritize problems related to your usages of enterprise system architecture languages, processes, tools, and frameworks.
- Resolve problems related to enterprise system architecture languages, processes, tools, and frameworks.
- Develop sound strategies for evolving your enterprise system architecture languages, processes, tools, and frameworks
- How to learn more about Model-Based Engineering technologies

WHO SHOULD PARTICIPATE?

Senior business analysts, system architects, application architects, database architects, project managers, executive decision makers, and others who want to improve their enterprise architecture/process strategy.

PREREQUISITES: There are no special prerequisites for this workshop, although participants are expected to be actively engaged in specifying large complex business processes and/or architecting large, complex, software-intensive systems.

WORKSHOP AUTHOR & CHIEF INSTRUCTOR



Cris Kobryn is the CEO and Founder of PivotPoint Technology Corporation, a company that specializes in Model-Based Engineering Solutions™ for tough business and engineering problems. He is an internationally recognized expert in visual modeling and Model-Based Engineering, and has successfully applied these technologies to diverse industries ranging from aerospace-defense and communications to financial services and manufacturing. Cris chaired large international teams of vendors and users to specify the Unified Modeling Language (UML) 1.x and 2.0 standards for software engineering, and the Systems Modeling Language (SysML) 1.0 standard for systems engineering. In recognition of Cris's contributions to the UML the Object Management Group (OMG) presented him with its Distinguished Service Award, and in acknowledgement of his contributions to the SysML the International

Council on Systems Engineering (INCOSE) presented him with its Outstanding Service Award.

WORKSHOP SYLLABUS: The workshop syllabus, in a menu form that can be customized to meet your team/project needs, is described at the end of this document. NOTE: This workshop description and syllabus are subject to revision. Check the *Training* page on the PivotPoint web for the most recent update.

FLEXIBLE VENUES: All of our workshops are available onsite (at a Client training facility), offsite (at a PivotPoint training facility), and via webconference.

FOLLOW-UP CONSULTING/MENTORING SERVICES: All of our workshops can be followed up with consulting/mentoring services that will keep your Model-Based Engineering project on track. Please check out the Consulting services page on the PivotPoint web, or contact us to discuss details.

SCHEDULING AND COST: Workshops must be reserved in advance by Purchase Order or prepayment. We generally require at least 4 weeks lead time for scheduling workshops, but longer lead time is desirable to reserve your preferred training dates. Workshop cost depends upon workshop duration (number of days), venue choice (onsite, offsite, webconference), and number of students.

FURTHER INFORMATION & PRICE QUOTES: Please visit our web site at www.PTCorp.com, email us at workshops@PTCorp.com, or call us at +1-760-201-0200 to discuss workshop details and receive a price quote.

WORKSHOP MENU

All PivotPoint workshops include both structured presentations and interactive hands-on work sessions to reinforce learning principles and best practices. In addition, all workshops can be customized to address special project or team requirements.

- **2 day workshop** includes: *MAPS – Basic*, and one of the following learning modules: *MAPS – Model-Based Languages, MAPS – Model-Based Languages, MAPS – Model-Based Tools, MAPS – Model-Based Frameworks, MAPS – Model-Based Processes*
- **3 day workshop** includes: *MAPS – Basic*, and two of the following learning modules: *MAPS – Model-Based Languages, MAPS – Model-Based Languages, MAPS – Model-Based Tools, MAPS – Model-Based Frameworks, MAPS – Model-Based Processes*
- **4 day workshop** includes: *MAPS – Basic*, and three of the following learning modules: *MAPS – Model-Based Languages, MAPS – Model-Based Languages, MAPS – Model-Based Tools, MAPS – Model-Based Frameworks, MAPS – Model-Based Processes*
- **5 day workshop** includes: *MAPS – Basic*, and all of the following learning modules: *MAPS – Model-Based Languages, MAPS – Model-Based Languages, MAPS – Model-Based Tools, MAPS – Model-Based Frameworks, MAPS – Model-Based Processes*

<p style="text-align: center;">MAPS – BASIC [Module# MS101]</p> <p>Executive Overview</p> <ul style="list-style-type: none"> • Introduction to Model-Based Engineering (MBE) • Strategic planning principles & techniques • MBE Tetrad: languages, processes, tools, and frameworks • Quick Tours: languages, processes, tools, and frameworks • Model-Based Engineering principles and best practices • Strategic goals for this workshop <p>Client “As Is” Architecture & Process Overview [to be provided or presented by Client]</p> <ul style="list-style-type: none"> • Business domain overview • Current system architecture/business process overview <p>Client “As Is” Issue Identification and Prioritization</p> <ul style="list-style-type: none"> • Top 10 architecture/process language issues • Top 10 architecture/process tool issues • Top 10 architecture/process framework issues • Top 10 architecture/process process issues 	<p>Goals</p> <ul style="list-style-type: none"> • Explain cost/benefits of a Model-Based Engineering approach • Provide overview of System Architecture Tetrad concept for maintaining scalable architectural integrity • Develop understanding of customer’s current use of languages, tools, frameworks, and processes • Explain how architecture/process patterns and frameworks can promote reuse and increase execution speed and efficiency • Identify and prioritize top-level issues
<p style="text-align: center;">MAPS – MODEL-BASED LANGUAGES [Module# MS102]</p> <p>Topics</p> <ul style="list-style-type: none"> • Introduction to Architecture Description Languages (ADLs) & Business Process Modeling (BPM) languages • Survey of model-based language standards: UML 2, BPMN 2, SysML • Model-based language selection guidelines • Model-based language application guidelines <p>Client “As Is” Language Walkthrough</p> <ul style="list-style-type: none"> • Review current architecture/process language usage and plans <p>Diagnosis</p> <ul style="list-style-type: none"> • Critique Top 10 architecture/process language issues <p>Treatment</p> <ul style="list-style-type: none"> • Recommendations to resolve Top 10 architecture/process language issues 	<p>Goals</p> <ul style="list-style-type: none"> • Survey major model-based language standards • Assess current model-based language usage and plans • Validate client issues related to model-based languages • Identify related issues • Collaborate on innovative solutions to resolve outstanding problems • Recommend specific improvements to model-based language strategy

<p style="text-align: center;">MAPS – MODEL-BASED TOOLS [Module# MS103]</p> <p>Topics</p> <ul style="list-style-type: none"> • Introduction to Model Simulation (ModSim) and Round-Trip Engineering (RTE) • Survey of model-based tools: UML/SysML/BPMN visual modeling tools and visual requirement engineering tools • Model-based tool selection guidelines • Model-based application guidelines <p>Client “As Is” Tool Walkthrough</p> <ul style="list-style-type: none"> • Review current architecture/process language usage and plans <p>Diagnosis</p> <ul style="list-style-type: none"> • Critique Top 10 architecture/process language issues <p>Treatment</p> <ul style="list-style-type: none"> • Recommendations to resolve Top 10 architecture/process language issues 	<p>Goals</p> <ul style="list-style-type: none"> • Survey major model-based tool standards • Assess current model-based tool usage and plans • Validate client issues related to model-based tools • Identify related issues • Collaborate on innovative solutions to resolve outstanding problems • Recommend specific improvements to model-based tool strategy
<p style="text-align: center;">MAPS – MODEL-BASED FRAMEWORKS [Module# MS104]</p> <p>Topics</p> <ul style="list-style-type: none"> • Introduction to model-based architecture frameworks • Survey of model-based architecture framework standards: DoDAF/MODAF/UPDM, TOGAF, Zachman • Model-based architecture framework selection guidelines • Model-based architecture framework application guidelines <p>Client “As Is” Framework Walkthrough</p> <ul style="list-style-type: none"> • Review current architecture/process framework usage and plans <p>Diagnosis</p> <ul style="list-style-type: none"> • Critique Top 10 architecture/process framework issues <p>Treatment</p> <ul style="list-style-type: none"> • Recommendations to resolve Top 10 architecture/process framework issues 	<p>Goals</p> <ul style="list-style-type: none"> • Survey major model-based architecture framework standards • Assess current model-based architecture framework usage and plans • Validate client issues related to model-based architecture frameworks • Identify related issues • Collaborate on innovative solutions to resolve outstanding problems • Recommend specific improvements to model-based architecture framework strategy
<p style="text-align: center;">MAPS – MODEL-BASED PROCESSES [Module# MS105]</p> <p>Topics</p> <ul style="list-style-type: none"> • Introduction to model-based architecture-centric processes • Survey of popular model-based processes: Open Unified Process (OpenUP), RUP, Harmony/SE, OOSEM, Agile Modeling • Model-based process selection guidelines • Model-based process application guidelines <p>Client “As Is” Process Walkthrough</p> <ul style="list-style-type: none"> • Review current architecture/process usage and plans <p>Diagnosis</p> <ul style="list-style-type: none"> • Critique Top 10 process issues <p>Treatment</p> <ul style="list-style-type: none"> • Recommendations to resolve Top 10 process issues 	<p>Goals</p> <ul style="list-style-type: none"> • Survey major model-based processes • Assess current model-based process usage and plans • Validate client issues related to model-based processes • Identify related issues • Collaborate on innovative solutions to resolve outstanding problems • Recommend specific improvements to model-based process strategy