

Minimum Path to Automation (MPTA)



What tool improvements will provide the largest return?

Which tools should I implement first?

How do I coordinate process initiatives, skills training, and cultural issues?

Will automated tools really save me time and money?

IconATG's MPTA Maximizes Return on Automated Software Tool Investments

IconATG's Minimum Path To Automation (MPTA) approach is an 11 step process to achieve maximum benefit when adopting automated software tools. The MPTA activities assure a thorough and optimal approach, and coordinate concurrent activities such as software development processes, methodology selection, cultural initiatives, and training requirements. Each MPTA activity is fully supported by detailed "how-to" instructions and artifact templates to make sure you progress quickly and carefully through the tool adoption process.

MPTA covers the full lifecycle of activities needed to deliver working, reliable solutions with full documentation and a learn-as-you-go approach for knowledge transfer. MPTA brings your own people into the process early, enabling them to easily provide ongoing development and support of your applications. Our focus is to assist your own people as they perform the work of configuring your tools and process environments, enabling the individuals who will own these environments after we are gone. We strive to provide the highest value by task-sharing, and working side-by-side to deliver on the project's goals.

MPTA Objectives

- Assess current processes
- Review current level of tools automation
- Measure tools usage based on industry standards
- Understand ROI expectations for different automation strategies
- Customize tool usage strategies and goals
- Determine the ability to leverage existing frameworks
- Communicate the benefits of automation by role & activity
- Review strategies for integrating tools
- Install demo versions of selected tools

The 11 Step MPTA Process

- Capture existing SDLC processes
- Explore automation benefits for each activity
- Refine the process activities around automation benefits
- Identify needed organizational / role changes
- Model the to-be activities to ensure smooth integration
- Model the to-be organizational boundaries to ensure smooth hand-offs
- Refine the specific activity steps / responsibilities
- Design the organizational change
- Refine the process artifacts
- Create task-specific best practices
- Effect the organizational change by executing the adoption plan

Validate your Automated Tool Business Case using IconATG's ROI Estimator

IconATG's proprietary 200+ project database lets you estimate your expected Return On Investment (ROI) from the purchase and implementation of automated software development tools. Compare your own project parameters against actual results from historical projects that have previously installed and measured productivity before and after automated tools. The Savings Summary Report provides an accurate estimate for your organization's expected savings when using tools to automate your software lifecycle.

Projected Savings Summary Report for Tool Automation										
Discipline	Activity	Current Automation Level	Target Automation Level	Target Quality	Target Reuse Level	140	Projected Savings	Base Actual Hours (with Process)	Projected hours	Savings Breakdown by Activity
Analysis and Design	Architectural Analysis	0.00%	1	2	3		60.00%	96	38.4	0.47%
Analysis and Design	Class Design	20.00%	2	2	1		32.00%	128	87.04	0.63%
Analysis and Design	Review Architecture	0.00%	1	1	1		5.00%	5	4.75	0.02%
Analysis and Design	Review Design	0.00%	1	2	1		20.00%	7	5.6	0.03%
Analysis and Design	Use-Case Design	0.00%	1	2	1		20.00%	72	57.6	0.36%
Configuration and Change Management	Create Integration Workspaces	0.00%	2	1	1		10.00%	24	21.6	0.12%
Configuration and Change Management	Integrate Subsystem	0.00%	3	1	2		60.00%	136	54.4	0.67%
Configuration and Change Management	Set Up CM Environment	10.00%	1	2	1		9.00%	8	7.28	0.04%
Deployment	Create Deployment Unit	0.00%	2	2	1		20.00%	4	3.2	0.02%
Deployment	Plan Deployment	0.00%	1	2	1		20.00%	72	57.6	0.36%
Implementation	Implement Component	30.00%	3	2	2		84.00%	1024	163.84	5.06%
Project Management	Assess iteration	0.00%	3	1	1		15.00%	40	34	0.20%
Project Management	Develop Iteration Plan	0.00%	2	2	2		40.00%	24	14.4	0.12%
Requirements	Detail a Use Case	0.00%	2	2	1		40.00%	256	153.6	1.27%
Requirements	Detail the Software Requirements	0.00%	1	2	2		40.00%	754	452.4	3.73%
Testing	Design Test Classes and Packages	15.00%	2	2	2		68.00%	18	5.76	0.09%
Testing	Execute Test Suite	50.00%	3	2	1		30.00%	1216	851.2	6.01%
Testing	Implement Test	0.00%	2	2	1		40.00%	180	108	0.89%
LOE Savings		89.52%							Today	Target
									\$1,071,978.0	
									0	\$112,395.51
									Labor Savings per year	\$959,582.49

Common Tools Recommended by MPTA

The most common IBM/Rational tools covered by this offering include:

- Rational Requisite Pro
- Rational Software Architect
- Rational Software Modeler
- Rational ClearCase
- Rational ClearQuest
- Rational Functional Tester

Organizations that have employed the MPTA process have achieved 20-50% improvements in productivity. Whether you are new to automated tools, looking to upgrade to the Rational toolset from less capable toolsets, or just wanting to use your automated tools more effectively, contact us to find out how MPTA can help you.



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About IconATG:

The IconATG mission is to improve your software development practices via training and consulting with key technologies and suggested practices that truly transform the abilities of your organization. IconATG services and people are your catalyst for organizational change and innovation.