Total Project Management System for XA

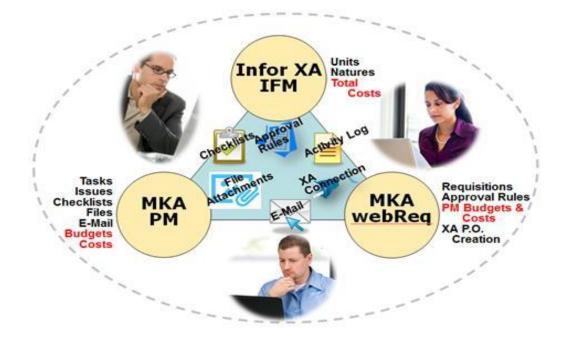


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A. What is Total Project Management?

Total Project Management can mean many things to many people. It's not ERP. It's not PLM. It's not just Project and Task Management. It's not just tracking purchases to a new model launch or a capital project. It can include requisitions, or not.

Total Project Management is a web-based portal providing enterprise accessibility to Project Management and Project Cost Management. It is a combination of:

- Project and Task Management
- Integrated workflow processes for all approvals and tasks associated to a project
- Project Costing, Visibility, and Control throughout the project
- Integration with the XA ERP System

An ERP system has dozens of integrated modules that work seamlessly to run the enterprise. Likewise, Total Project Management <u>seamlessly integrates</u> project definitions, tasks, documents, people, phase gates, issues, purchases, inventory, costs, and systems. This leads to more effective and efficient management of programs/projects.

The Total Project Management System

The key points to MKA's Total Project Management approach are that the system will:

- Give visibility to—and provide the status of—all projects, people, tasks, and resources as well as the status of the COSTS of the Program or Project (and compare to budget).
- Provide the right information to the right user at the right time. Users shouldn't have to always go look and search for project information.
- Have automatic alerts and notifications, such as an automatic process that alerts users of their tasks and what needs to be done.
- Manage Task progress updates via an automated update Wizard or simple e-mail response
- Let Project Managers add new tasks "on-the-fly."
- Let users create and track open issues.
- Allow Purchasing and all users to see what they need when new components or services are sourced.
- Keep detailed history of a project so users can use it for evaluation and estimating future projects (as well as have an audit trail and create "templates" based on past projects).
- Have a log of meeting notes, emails, and project history.
- Integrate with Infor XA to provide item and BoM information, supplier information, purchasing information, accurate costs from the system, and integration with the IFM General Ledger system

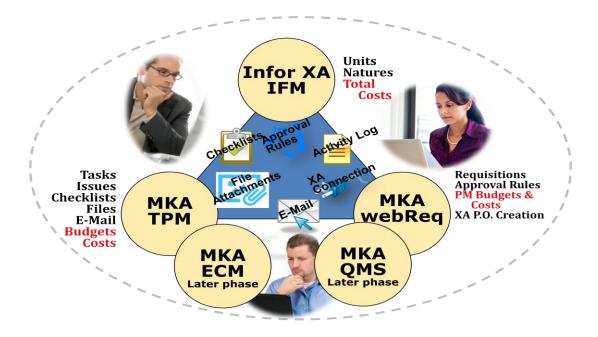
Summary of TPM

The **Total Project Management** System can be implemented as a <u>single application</u>, but use of the Web "Electronic Requisition Approval System" greatly enhances Total Project Management capabilities and effectiveness. It does this by providing:

- Managing proper approval of spend before it happens
- As part of the requisition process, spend is coded properly with unit/natures or charge numbers for accurate reporting
- Approvers have real time visibility to the same budget/spend as project managers during the approval process
- Projects can be *closed* to stop spending against them or *suspended* to prevent additional spending
- Additional security can be set to *Require Budget Review*. This stops all over budget spending against the project until the budget overage has been resolved

The Web-based e-Requisition System is <u>not</u> a requirement for TPM, though the e-Req System is integrated with TPM and provides a great deal of additional control of expenditures.

Likewise, the Engineering Change Management (ECM) System and the Quotation Management System (QMS) can be integrated with TPM.



B. Common Problems

There is a significant need and business case at most companies to improve and automate processes for **managing programs and projects**. In reviews of the MKA Total Project Management System, customers have talked about the following current problems.

CURRENT PROBLEMS WHEN MANAGING PROJECTS

- Lack of information flow
- Lack of Task assignments
- Limited visibility as to where a Project really stands in the process
- Too much manual effort
- Too many e-mails, spreadsheets, and meetings
- No automated system
- Lack of integration with XA (the ERP System)
- No real cost tracking or cost status compared to budget
- No "templates" for setting-up projects/programs
- Manual approvals
- Open Issues are not managed with the Project schedule
- Critical e-mails are in "in-box silos" and completely disconnected from the Project
- Responses from the Project team are not timely
- Resource commitments across multiple Projects are unknown

These issues stem from the lack of a good, integrated, formal system for creating, approving, and managing projects. Most companies create elaborate spreadsheets and manual processes to try and track programs and projects. Current processes revolve around a LOT of data, but take manual effort. There is no automated process to follow, there is no electronic approval process, and there is no easy way to get good visibility as to where a project stands. The process isn't very efficient and effective.

It's interesting to note that many companies also have <u>issues or problems</u> with the requisition process. These problems are *solved* with the Electronic (web) Requisition Approval System.

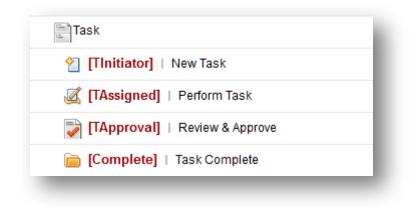
- Manual processes and no capital budget control for capital projects
- Inconsistent requisitioning by location
- Certain users (such as Project Managers) have responsibility to stay within budget, but they have no control until after the fact; i.e., there is limited VISIBILITY to expenditures (requisitions), so it is easy to exceed budgets without a PM's awareness
- a Req is not systematically associated with a project, so there is limited control and no visibility; again, there is lack of good control of project expenditures
- There is no automated APPROVAL process
- There are no automated requisitioning processes with "rules" that are <u>followed</u> and <u>enforced</u> by a system (such as rules by purchase types, by dollar amounts, etc.)
- no way to automatically create an XA Purchase Order from paper requisitions
- no automated way to have multiple items on a requisition (XA provides one item per req)
- expenditures can happen outside the "system"
- There is no visibility to the status of requisitions (where they are in the approval process)

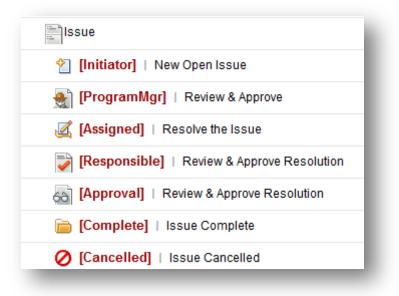
C. INCREASED EFFICIENCIES: How the System Works

The Total Project Management System is different from most software applications.

The MKA systems utilize BUSINESS PROCESS AUTOMATION to get the <u>right</u> <u>information</u> to the <u>right people</u> at the <u>right time</u>. The system integrates people, data, documents, tasks, and systems. It also *automates* processes. The TPM approach allows for users to respond more quickly. Business Process Automation provides visibility to projects (and all aspects of the project) and provides a CONSISTENT and AUTOMATED process for programs/projects. It provides task management, workflows, notifications, and other capabilities.

You set up your process and workflows. The details of a project, task, or issue will flow through your process.





The main goal of the Project Management system is to help you manage Programs and Projects more <u>efficiently</u> and <u>effectively</u> by streamlining and automating processes. The system helps companies manage projects, <u>track costs to budget</u>, control costs, shorten the time to complete Projects, manage the project to completion, and win more business.

Common "tools" as part of the application include:

- Workflows/rules
- Electronic "forms"
- File support
- Automated Approvals
- Triggers and Notifications
- Backup Support
- A web-based interface with remote access
- XA integration
- E-Mail Correspondence and Integration
- Performance Statistics
- Audit Trails
- Complete History

The System can provide important information about a project, such as:

- Names, dates, descriptions, requested items, codes, etc.
- Electronic communications and workflows for changes and tasks
- Checklists, notes and comments
- Attachments and/or links to graphic files, drawings, spreadsheets
- An Activity Log of who did what and when
- Notification and approval requirements and timestamps
- Current or historical data from items, bills/materials, or other data
- Complete history
- Time-to-process statistics
- Task Management
- Open Issues

As stated by one MKA customer, "If it's in the system, it's your job to get it done."

That's basically how the system works. Tasks go to the right users. The system gives users complete VISIBILITY to projects. Projects are easy to access and work with. Users know where changes, costs, or tasks are in the process.

Each user knows their tasks, and the information they need is right in front of them. Management does not need to "chase" people to find out the status of this information. Users don't need to "go look for" information. Management doesn't need to wonder what needs to be done—this information should be in the system and visible to anyone with the proper authority.

EXAMPLES—How the System Works

It's easy to set up a project, and a project can be copied from a "template" (tasks and their dependencies can also be imported from MS Project).

Project Description								
Description	Created by Robert Pacagai o	n Bep 22, 2016						
Project Number: 👲	New Project	Auto Number	Enter a unique identifier for this Project. This number will be used to linit all other related documents to this Project, (Check the Auto Number box to generate an automatic Project Number.					
Project Name: 🔶		<hr/>	Enter a Name to identify the purpose of the Project.					
Project Description:		Project Number	Use this Description field to further define the Project purpose and scope.					
XA IFM Unit		(key)	Enter the XAIFM Unit number assigned to this Project.					
Project Type: 🔄			Select a Type to help identify and categorize this Project. New Types may be added in the prompt window					
Project Status:		XA Unit	Select a Status to help identify and categorize this Project. New Status options may be added in the prompt window					
Task Input Method:	O Import from MS Project	Import from MS Excel O Type in Manually O C	Tasks may be imported from MS Project or MS Excel, or can be typed in manually, or copied from another Project.					
Project Image								
Image File:	Browse. No file select	id.	Attach an image file to be used to fivelp identify this Project.					
Key Attributes								
Load Template -Select-	· .		Enter Key Attribute field labels that will help define and track this Project.					
O O 🔒 Save As			Load Fields from Templates					
B Key Miestones			Enter Kay Milestone hand labels that will help define and track this Project.					
Load Template -Select-			Even vel meterice more rene rene mere entre service and rene rene rene rene .					
-								
O 🔒 Save As	L.		Key Project					
Cost Categories			Key Project Dates					
Cost Categories:	Row Item Number	Nature Description	Budget					
	1							
			Cash Catagory					
XA Assemblies			Cost Category Items from RFA's					
Assembly Numbers:	Row Item Number	Description	Items from KFAS					
	1							
	0 0							

There are many ways to see a Project, such as By Customer, By Job Status, Type, Number, Project Manager, and so on.

		•	My Documents		Issues File	es	Resources	Alerts	Administration	He
j.j.	All Jobs								Export to Excel	🚹 Help
Filter:	By Number	Position to:	٩	🖲 All 🔘 Open 📃	New Job Copy Job					
Status	By Customer By Job Status By Job Type		Customer	Program	lat	b Type	Part Number		Previous 1 N	ext
Status	By Number By Project Mgr	mple Job	Jet Heat	Sample gears new		o type	Partnumber			
	By Task Status By Tool Type	portunities	GM	LT4 Corvette Cover			LT4 - Supercharger	Cover		
	Closed	14.01	Jet Heat	Jet Heat			Jet Heater and Trail	er		
	JH-2	014 Engineering	Jet Heat	Jet Heat						
0	0694	4C.02	CCA	572 12:1 Deluxe			572 12:1 Deluxe			
0	068	3K.02	Chevrolet Performance	LS525DR serp. kit			LS525DR spec. ser	p kit for LSX DR s	eries	
0	0G63	2C.13	Chevrolet Performance	LS525DR (Muscle of	ar oil pan)		LS525DR (Muscle o	ar oil pan) LSX dr	ag racing series	
0	0G62	20.12	Chevrolet Performance	LS525DR (F-car oil	pan)		525 DR (F-car oil pa	an) LSX drag racin	g seal engine series	
0	0G13	37K	GM Chevrolet Performance	Tremec Trans Pack	age		Tremec Trans pack	age		
0	060	IC-FBN	GM	LT4						
0	0G01	IC	GM	LT4 - Cover			Corvette SC cover			
0	0310)14 - GM Engine Build	GM	GM Engine Lines						
Chaur I	E 40 26 60	100 250 antrian							Prev	ous Next
0	060	IC	GM	LT4 - Cover			Corvette SC cover		Prev	

And there are many ways to see Tasks:

All Tasks
My Tasks
Critical Path
Customer
Overdue
Risks
Obsolete

A Program Manager can easily drill-down into tasks and see where tasks are at, how much time tasks are taking, and if tasks are on-time, at-risk, or late.

	METRIC	TOOL	Last Sync with MS Proj	ect Thursday, Septe	mber 19, 2013 6:02 AM					Project M	anager. Steve		JOI	BCON	SOLE
Shov	v. Tasi	u u	Filter: 1	'ask List 💌						New Issue	Register a	File	NS.	it as Default.	() Hel
Ters	View	N De	fault 💽 Show:	All Tasks 💌	Assigned To: All	5	0	All @ Open	Refresh Tasks						
Sun	Imary		Due <5 days Overdue	All Tasks My Tasks											
bow.	5 10	25	50 100 250 entries	Critical Path Customer						Showk	ng rows 5 to 38 p	1 38 Total	Previo	us Next Co	To Page
tat	Num	CP		Overdue		Cust	Pred	Responsible	Duration			% Cmp	Risk	Notes	
	1	1		Risks Obsolete					145.1 days	Sep 11, 2013	Apr 1, 2014	3%			
	2		Kick off						1.4 days	Sep 11, 2013	Sep 12, 2013	100%			
1	3		Receive PO					Larry	1.4 days	Sep 11, 2013	Sep 12, 2013	100%	0%		
1	4		Receive data					Larry	1.4 days	Sep 11, 2013	Sep 12, 2013	100%	0%		
v .	5		Receive GD&T					Larry	1.4 days	Sep 11, 2013	Sep 12, 2013	100%	0%		
¥.	6		Start date					Larry	1.4 days	Sep 11, 2013	Sep 12, 2013	100%	0%		
	7	1	Simulation-Process						15.0 days	Sep 12, 2013	Oct 3, 2013	0%			
6	8	A	Flow chart-Simulatio	n E			6	Brian	12.0 days	Sep 12, 2013	Sep 30, 2013	0%			
0	9		Review process and	simulation			8	Brian	1.0 days	Sep 30, 2013	Oct 1, 2013	0%			
0	10		Complete flow chart	and simulation			9	Brian	2.0 days	Oct 1, 2013	Oct 3, 2013	0%			
	11		Design(* \$110)						37.0 days	Oct 3, 2013	Nov 25, 2013	0%			
0	12	A	Preliminary designs				10	Larry	20.0 days	Oct 3, 2013	Oct 31, 2013	0%			
0	13	A	Design review-Intern	al and external			12	Lany	3.0 days	Oct 31, 2013	Nov 5, 2013	0%			
0	14	1	Release for pattern				13	Larry	3.0 days	Nov 5, 2013	Nov 8, 2013	0%			
0	15	1	Complete designs				14	Lany	5.0 days	Nov 8, 2013	Nov 15, 2013	0%			
0	16	1	Final review				15	Larry	2.0 days	Nov 15, 2013	Nov 19, 2013	0%			
	-	-	- 1												

And integration with XA is critical. Project Management shows users information from XA like:



Program Managers can quickly see the status of a program and where they stand on budgets and costs.

Program Type Classiten	Description	Status	Budget	Vend Inv	Open POs	Open Reqs	Total Cost	Variance
CHRYSLER FIAT 500 - C	hrysler Fiat 500		14,108,287	494,869	12,882,086	158,956	13,535,911	572,376
* Assembly			6,026,200	0	5,216,898	0	5,216,898	809,302
Capital			5.073.320	0	4,291,000	0	4,291,000	782.320
AS0	68070644/5AA	Capital 😐	270,000	0	141,534	0	141,534	128,466
ASO	3 68071344/5AA	Capital 😐	60,000	0	107,234	0	107,234	(47,234)
ASO	5 68078788/9AA	Capital 😐	4,743,320	0	3,985,232	0	3,985,232	758,088
AS1	35 68084084/5AA / Capital (Referen F500-030 / ECO	ice ECR		0	57,000	0	57,000	(57,000)
Reimbu	sable		952,880	0	925,898	0	925,898	26,982
ASO	2 68070644/5AA Tooling	ASM 😐	206,069	0	291,642	0	291,642	(85,573)
ASO	68071344/5AA	ASM •	15,000	0	39,000	0	39,000	(24,000)
ASO	68078788/9AA	ASM •	282,011	0	401,506	0	401.506	(119,495)
AS1	13 68070963AA Re Closure Inner	ninf RR 🔍		0	0	0	0	0
AS1	27 68084084/5AA / Tooling (Refere F500-030 / ECO	ince ECR	218.900	0	93,300	0	93,300	125,600
AS1	28 68084326/7AA Tooling (Refere F500-030 / ECO	nce ECR	230,900	0	100,450	0	100,450	130,450
> ECR			301,908	0	428,553	4,100	432,653	(130,745)
* Project			1,030,270	2,397	757,614	0	760,011	270,259
▼ Capital			1,030,270	2,397	757,614	0	760,011	270,259
PRO	26 FIAT500 WIP Pa	ckaging ^o	364,120	2,397	345,634	0	348,031	16,089
PRO	36 Aguas Roll Form Equipment	n <mark>e</mark>	412,150	0	411,980	0	411,980	170
PRO	37 Puebla Transfer	Clamps 😐	104,000	0	0	0	0	104,000
PRO	38 Aguascalientes	Facilities 🔍	75,000	0	0	0	0	75,000
PRO	39 Toluca Facilities	•	75,000	0	0	0	0	75,000
* Tooling			6,749,909	492,472	6,479,021	154,856	7,126,349	(376,440)
* Reimbu	sable		6,749,909	492,472	6,479,021	154,856	7,126,349	(376,440)



Checklists and Phase Gates can be used.

	1 0	51A, Toyota	1					P		CONSOLE ager: Robert Pozsgai
W: API	QP Gates	Y Filter: Su	mmary 💌					New Is	Register	r a File 🚯 Help
										Previous 1 Next
	Departm	ent	Assigned To	Gate 1	Gate 2	Gate 3	Gate 4	Gate 5	Gate 6	Gate 7
	Purchasi	ng	Robert Pozsgai							•
	Mfg Engin	neering	Bryon Higgins	•	•			•		•
	Quality		Ken Gove			•			1.00	
	Manufact	uning	Bryon Higgins							-
	Product 0	Jev	Greg Vreeland	×		×	×			6
	Tira	2279, Ford Responsible	n Management Chec							APC
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Sta	Hr. All Gat at Seq	2279, Ford Responsible es [APQP Verification	: Program Manager	Back to Project Con	Due Date	Comple	rte	Comments		(Documentation
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And there are quick views of resource status:

Show: Resources	•	Filter: Current Wor	kload 💌			
		Complete	On Schedule	Behind Schedule Early	Behind Schedule Late	Future Assignment
Name	Rating *	Performance	On Schedule	Definitu Schedule Early	Benning Schedule Late	Future Assignment
Julie Lenart	58					
Tammy Bolden	23					
Tom Zettel	11					

The "system" is an integrated, collaborative <u>solution</u>. The "process management" approach creates an automated, usable, integrated system.