

**Rommana**  
**INTEGRATED LIFECYCLE MANAGER**



# Requirements-Based Project Management

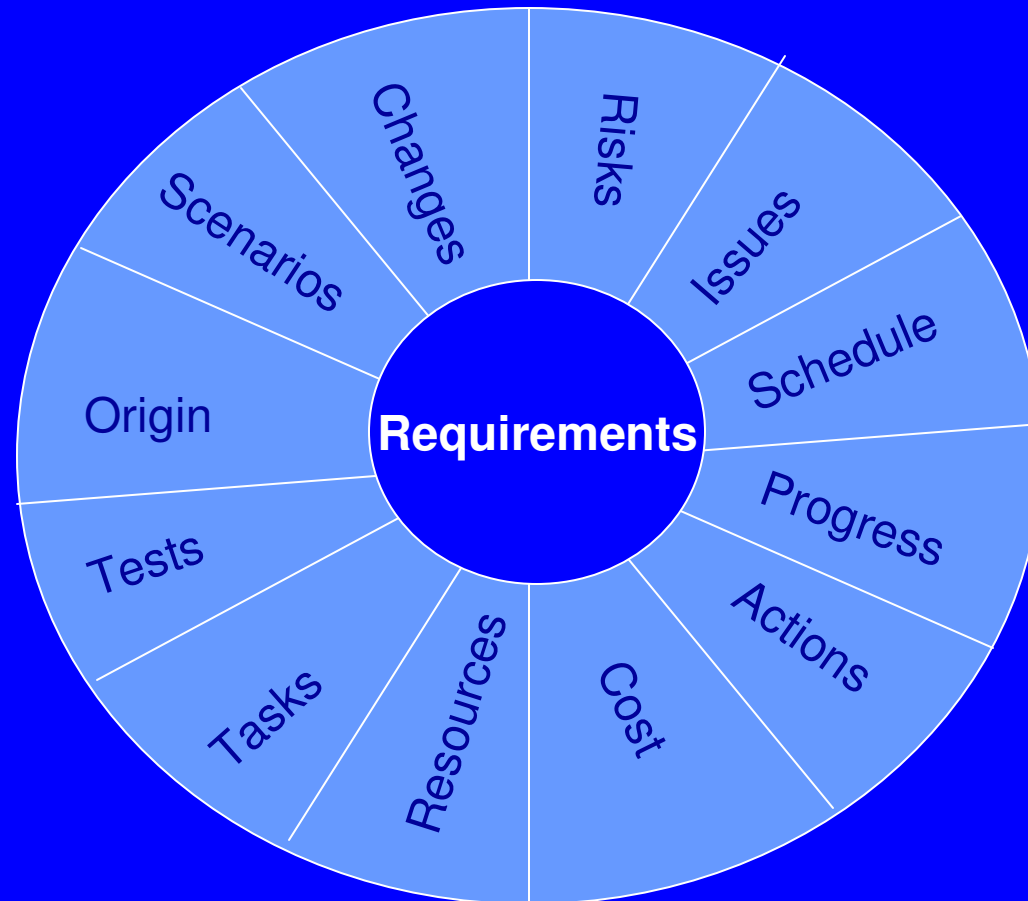
## *The New Discipline of Project Management*

*Magdy Hanna, Ph.D.  
CEO, Rommana Software*

# Why Requirements are so Important?

- Requirements are what your customer cares for
- Requirements take time to implement and test
- Requirements are designed, coded, and tested
- Requirements are the basis for effort and budget estimates
- Requirements affect your project timeline and delivery
- Requirements may have risk associated with them
- Requirements require certain actions
- Requirements are impacted by changes
- Requirements impact other requirements
- Requirements change over time

# Requirements-Based Project Management



# Managing your project with Requirements in Mind!

- Allocating and managing project resources, roles, responsibilities for each requirement
- Creating and managing project tasks for both development and testing for each requirement
- Creating and maintaining action item lists for both development and testing effort for each requirement
- Managing risks throughout the project for both development and testing for each requirement
- Creating and maintaining project timeline for all project tasks for both development and testing.

# Managing your project with Requirements in Mind!

- Creating and maintaining cost and time estimates for both development and testing tasks for each requirement
- Managing test scenarios and test cases for each requirements
- Managing development activities for each requirements
- Managing issues raised by the test team and customers for each requirements
- Managing changes to requirements over time
- Maintaining impact of changes on cost and schedule

# Minimal Practice

Task 1	Est Hrs	Act Hrs	% of Dev
Task 2	Est Hrs	Act Hrs	% of Dev
Task 3	Est Hrs	Act Hrs	% of Dev
Task 5	Est Hrs	Act Hrs	% of Dev
Task 6	Est Hrs	Act Hrs	% of Dev
Task 7	Est Hrs	Act Hrs	% of Dev
Task 8	Est Hrs	Act Hrs	% of Dev



# Work Assignment by Requirement by Task

	Task 1	Task 2	Task 3	Task 4
	Assigned to	Assigned to	Assigned to	Assigned to
Req 1				
Req 2				
Req 3				
Req 4				
Req 5				
Req 6				
Req 7				
Req 8				
Req 9				
Req 10				

# Timeline by Requirement by Task

	Task 1		Task 2		Task 3		Task 4	
	Start Date	End Date	Start Date	End Date	Start Date	End Date	Start Date	End Date
Req 1								
Req 2								
Req 3								
Req 4								
Req 5								
Req 6								
Req 7								
Req 8								
Req 9								
Req 10								

# Tracing Requirements to Design and Code Components

	Comp 1	Comp 2	Comp 3	Comp 4	Comp 5	Comp 6
REQ 1	X			X		
REQ 2	X	X			X	
REQ 3			X	X		
REQ 4		X				
REQ 5			X			
REQ 6	X				X	
REQ 7				X		
REQ 8	X					
REQ 9	X		X			
REQ 10				X		
REQ 11		X				
REQ 12						X
REQ 13				X		
REQ 14			X			

# Tracing Requirements to Test Cases

	TC 1	TC 2	TC 3	TC 4	TC 5	TC 6	Total	Passed	Failed	Readiness=(Passed/Total)x100
REQ 1	P		P	P		X				
REQ 2	P	P	P	P	F					
REQ 3			F	F						
REQ 4		P			X					
REQ 5			P	P						
REQ 6	P	P	P	F	P					
REQ 7	P			P						
REQ 8	P					P				
REQ 9	F		F							
REQ 10				P		P				
REQ 11		P								
REQ 12						P				

# Rommana

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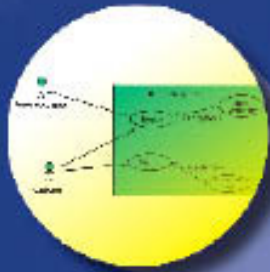
**TEST MANAGEMENT**



**CHANGE MANAGEMENT**



**USE CASE MANAGEMENT**



**REQUIREMENT MANAGEMENT**



**PROJECT MANAGEMENT**



**DEFECT MANAGEMENT**

