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THE NEED OF RATIONAL QUALITY MANAGER IN THE WORLD OF SCRUM AND AGILE TESTING

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Rational. software

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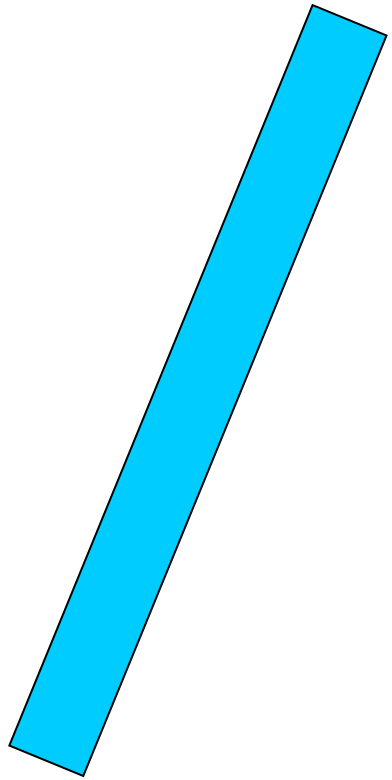
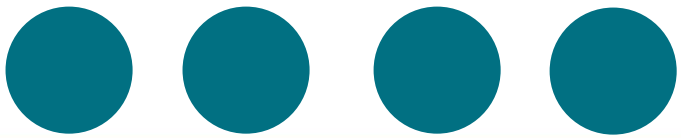
Framework

- Rational QM Software
- RQM Introduction
- Introduction to Agile Methodology
- Introduction to Scrum
- Scrum Rules
- RQM in Scrum Way
- Conclusion



Rational Quality Management Solutions

- Rational RequisitePro
- Rational Clear Quest
- Rational Manual Tester
- Rational Functional Tester
- Rational Performance Tester
- RQM for Test Management
- Rational AppScan for Security testing



Rational Quality Manager

- Rational Quality Manager is designed to **accelerate delivery** by involving stakeholders earlier in the life cycle and by keeping the **entire team in sync** with changing requirements, schedules and designs.

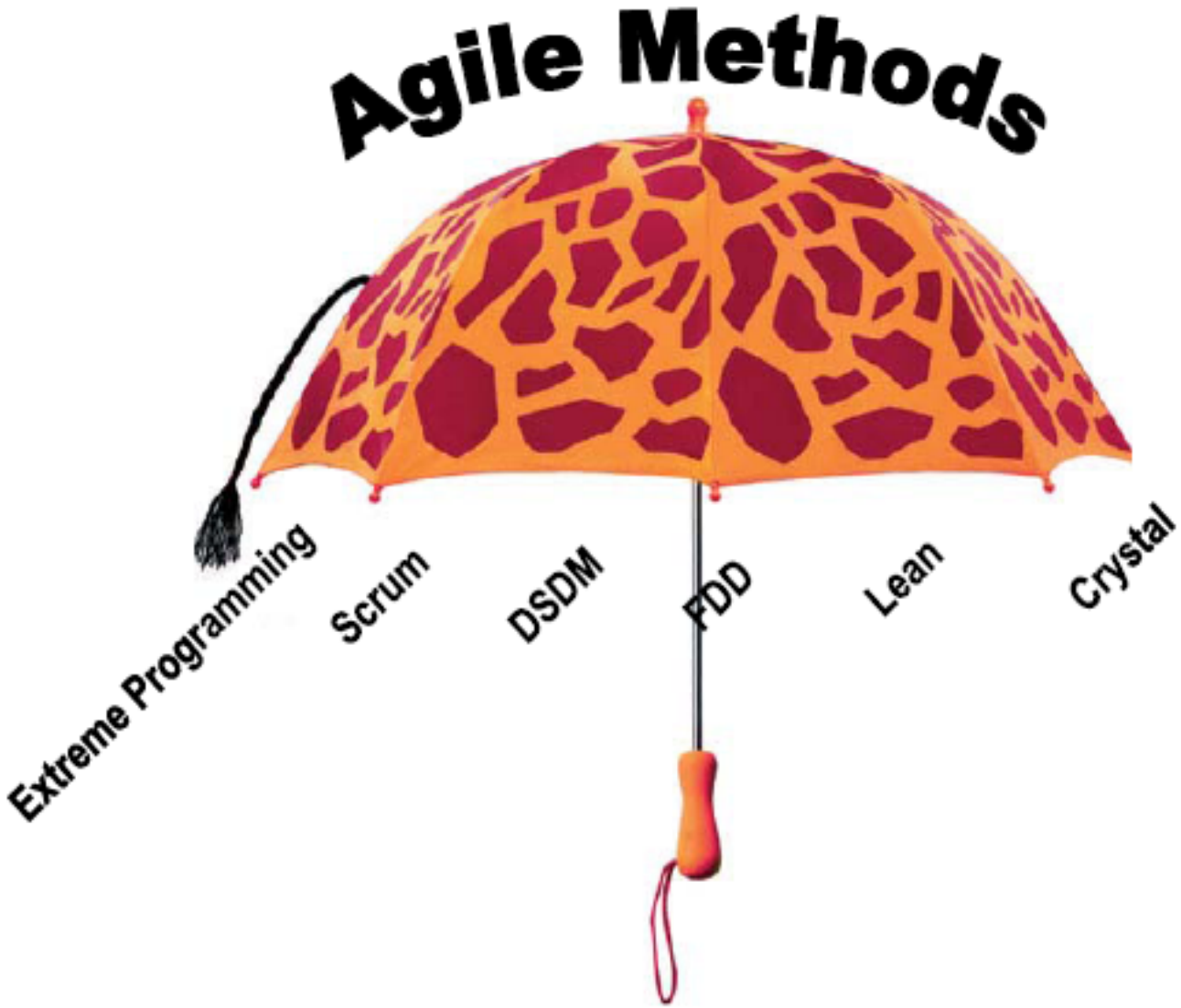
- IBM Rational Quality Manager is a comprehensive solution that captures not only a list of test cases, but also requirements, defects, exit criteria, patterns, test assets, and roles, giving you greater control in planning your projects.

Agile – An Introduction

- Agile Methodologies are designed to break the software down into manageable parts that can be delivered earlier to the customer
- The aim of any Agile project is to deliver a basic working product as quickly as possible and then to go through a process of continual improvement
- An Agile project is characterized by having a large number of short delivery cycles (Sprints) and priority is given to the feedback-loops from one cycle to the next.

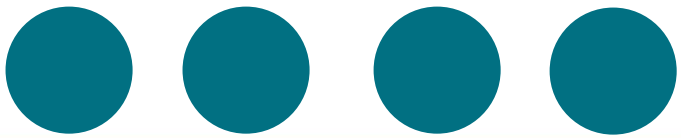
Agile Manifesto

• Individuals and Interactions	Processes and Tools
• Working Software	Comprehensive documentation
• Customer Collaboration	Contract Negotiation
• Responding to Change	Following a Plan


Agile Methods
Extreme Programming
Scrum
DSDM
FDD
Lean
Crystal

Scrum Framework

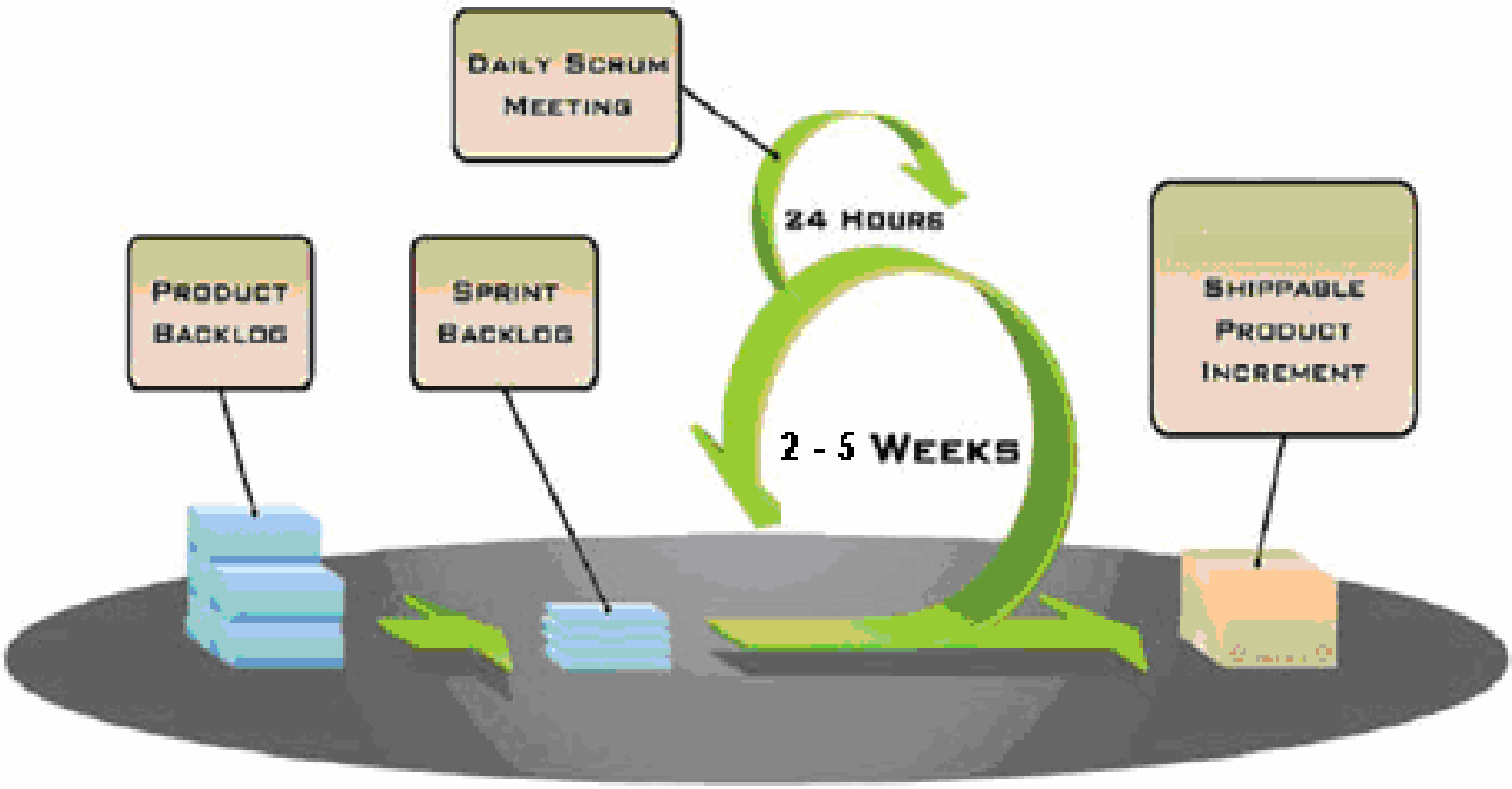
- Scrum is an iterative, incremental framework for projects and product or application development. It structures development in cycles of work called **Sprints**. These iterations are 1-4 weeks in length, and take place one after the other.



Scrum Rules

- Obtain No. of Hours commitment up Front
- Gather Requirements / Estimates up Front
- Enter Time Daily
- Daily Builds
- No new Requirements for a Sprint
- Keep the Daily Scrum Meeting Short
- Code Inspections are paramount

Scrum


Daily Scrum Meeting
24 Hours
Product Backlog
Sprint Backlog
2 - 5 Weeks
Shippable Product Increment

Sample Sprint Backlog

Burn Down Chart

				New Estimate / Remaining at the end of Day				
Product Backlog Item	**Sprint Task**	**Volunteer**	**Initial Estimate Effort**	1	2	3	4	5
	Modify database	Mohan	5	4	3	0	0	0
I want to place a CD/book in a Shopping Cart	Create Webpage (UI)	Kavitha	3	3	3	2	0	0
	Create Webpage (JavascriptI)	Vinu	2	2	2	2	1	0
	Write automated acceptance tests	Raj	3	3	3	8	8	0
	Update Help WebPage	Reshma	5	5	5	5	5	0
		Total (Person Hours)	18	17	16	17	14	0

Scrum Advantages

- ✓ Increase Speed of Development
- ✓ Align individual and Corporate objectives
- ✓ Create a culture driven by performance
- ✓ Achieve stable and consistent communication performance at all levels
- ✓ Enhance individual development and quality of life

QA In a Scrum Technique

1. Better Communication and more collaboration among QA and development folks

2. Peer to Peer relationship between development and QA

3. Looking for ways to optimize testing efforts will be a “must”

RQM Special Features

- DashBoard
- Comprehensive Test Planning
- Test Script construction, execution and reuse
- Keyword view
- Test Analysis and Reporting
- Team Collaboration
- Test Lab Management (Test Design)
- Defect Management
- Customized Reports with Graphs
- Speedy Delivery (Weight Distribution)

RQM – Scrum Way

- **RQM with its new flavors**

Speeds up Process guidance

Role-based quality management solutions

IBM Jazz technology

Seamless coordination and

Prioritization of tasks and activities.

Conclusion

As the need of Agile Management increases day by day, Rational Quality Manager will play a major role in implementing Scrum Methodology in Quality Management.

It works to solve on individual, team and enterprise-wide collaboration and Finding “missed” requirements more easily and sooner by surfacing misunderstandings in deliverables and scope.

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