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GETCONNECTED
Connecting people with IT

Software Development Lifecycle

Real life experience with SCRUM and KANBAN
with



Atlassian

by numbers

35,000 + Customers

43,000 Teams

5,500,000 + People

Atlassian
 JIRA

Atlassian
 Confluence

facebook



ebay

NETFLIX



Square

LinkedIn



Apache



Adobe



NASA



CISCO

& upwards of
35,000 more



LEADER IN Application Development Life cycle Management (ADLM)
Gartner 11/2013

2nd Year!



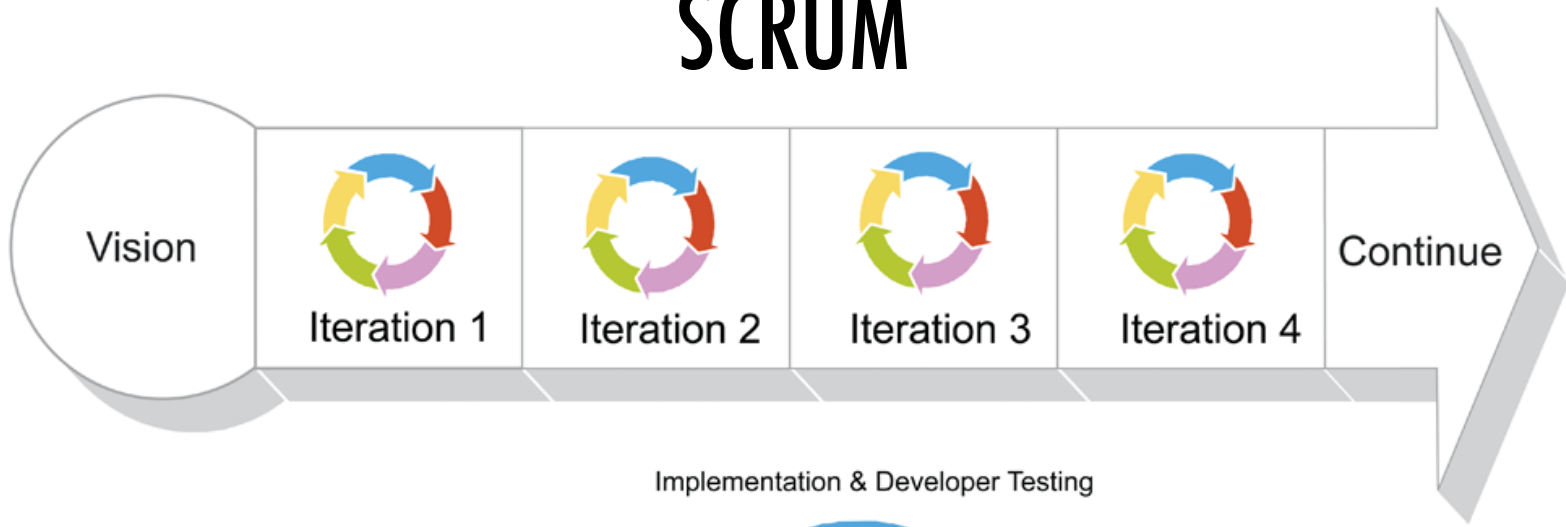
Atlassian JIRA Key Features

- BUG TRACKING
- PROJECT TRACKING
- AGILE PLANNING
- TEST MANAGEMENT
- CUSTOMER FEEDBACK

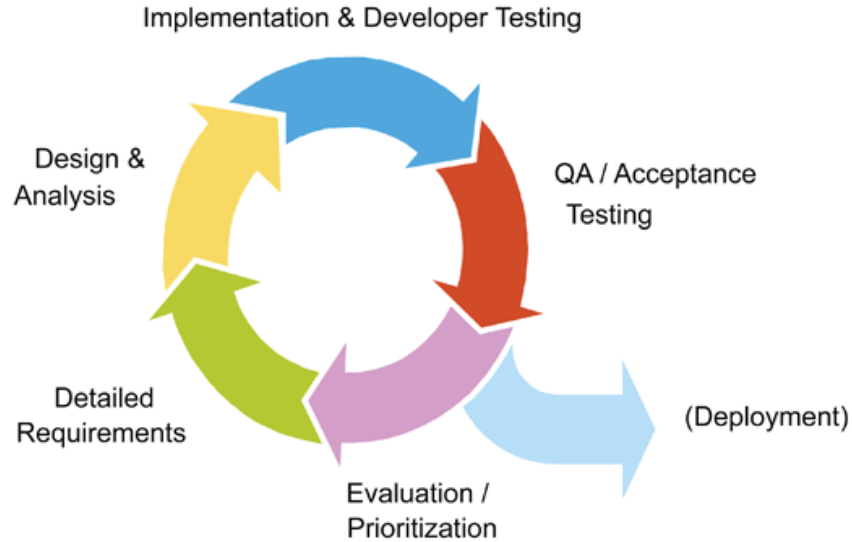
The screenshot displays the JIRA Team Scrum Board interface. The top navigation bar includes 'JIRA', 'Dashboards', 'Projects', 'Issues', 'Agile', 'More', and a 'Create issue' button. A search bar is on the right. Below the navigation, the board is titled 'Team Scrum Board' and shows 'SPRINT: Sprint 3'. The board is organized into four columns: 'To Do', 'In Progress', 'In Review', and 'Done'. Each column contains several issue cards. For example, in the 'To Do' column, there is an issue 'TIS-28' with the description 'Research options to travel to Pluto' and an assignee. In the 'In Review' column, there is a highlighted issue 'TIS-58' with the description 'Add feedback button to the plugin sample code'. The 'Done' column contains issues like 'TIS-9' and 'TIS-11'. Each card also shows a small number in a circle, likely representing a priority or count.



SCRUM



Iteration Detail

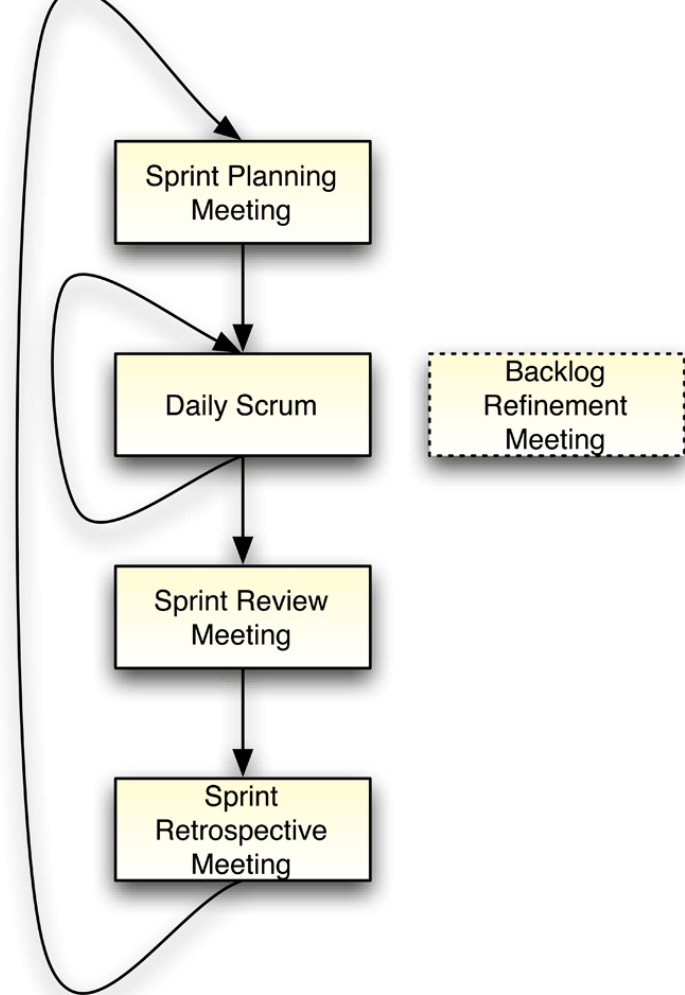


SCRUM Actors

Product Owner: Single person responsible for maximizing the return on investment (ROI) of the development effort. Responsible for product vision

ScrumMaster: Facilitates the Scrum process. Helps resolve impediments

Scrum Development Team: Cross-functional (e.g., includes members with testing skills, and often others not traditionally called developers: business analysts, domain experts, etc.)



SCRUM Benefit

Scrum is intended for the kinds of work people have found unmanageable using defined processes

Uncertain requirements combined with unpredictable technology implementation risks.





WHAT IS KANBAN ?



Is Kanban the next martial arts?

Kanban For Software Development Is:

1. Kanban is a transparent, work-limited, pull system.
2. Kanban is the result of practitioners applying lean.
3. principles to software engineering.
4. *Kanban is more like a tool than a methodology*

The Pillars of Lean

1. Pull
2. Continuous Flow
3. Customer Value
4. Waste Elimination
5. Continuous Improvement

Founder of Toyota
Production Systems



Taiichi Ohno

Quality Guru:
System of Profound
Knowledge



W. Edwards Deming

WIDGET 1A	WIDGET 2B	WIDGET 3C	WIDGET 4D	WIDGET 5E	WIDGET 6F	WIDGET 7G
406			G45	STOCK LE		
406			G45	STOCK LE		
406			G45	STOCK LE		
			G45	STOCK LE		
LOW STOCK ORDER NOW!	LOW STOCK ORDER NOW!	LOW STOCK ORDER NOW!	LOW STOCK ORDER NOW!	LOW STOCK ORDER NOW!	LOW STOCK ORDER NOW!	LOW STOCK ORDER NOW!
			G45	STOCK LE	STOCK TO HIGH DO NOT REPLENISH	STOCK TO HIGH DO NOT REPLENISH
			STOCK TO HIGH DO NOT REPLENISH			STOCK TO HIGH DO NOT REPLENISH
STOCK TO HIGH DO NOT REPLENISH	STOCK TO HIGH DO NOT REPLENISH	STOCK TO HIGH DO NOT REPLENISH				
406			G45	STOCK LE		

Kanban is translated as — Visual Card

KAN BAN

MANUFACTURED BY
T CARDS DIRECT
07732 571417

Kanban for Software Principles

1. Pull value through the **Value Stream**
2. **Limit WIP** (work in progress)
3. Make it visible!

Kanban's Lean Heritage

Don't build features that *nobody needs*
(*right now*)

Don't write more specs than you can code

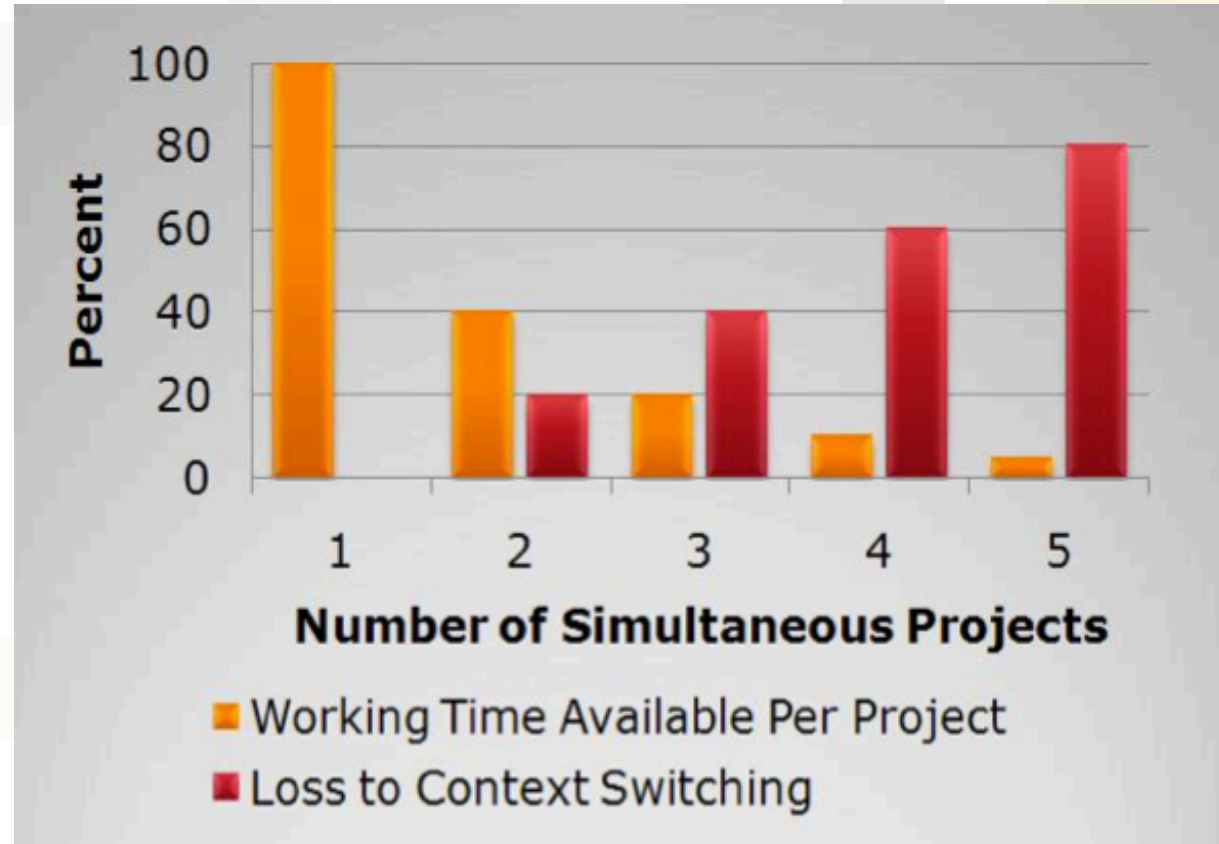
Don't write more code than you can test

Don't test more code than you can deploy

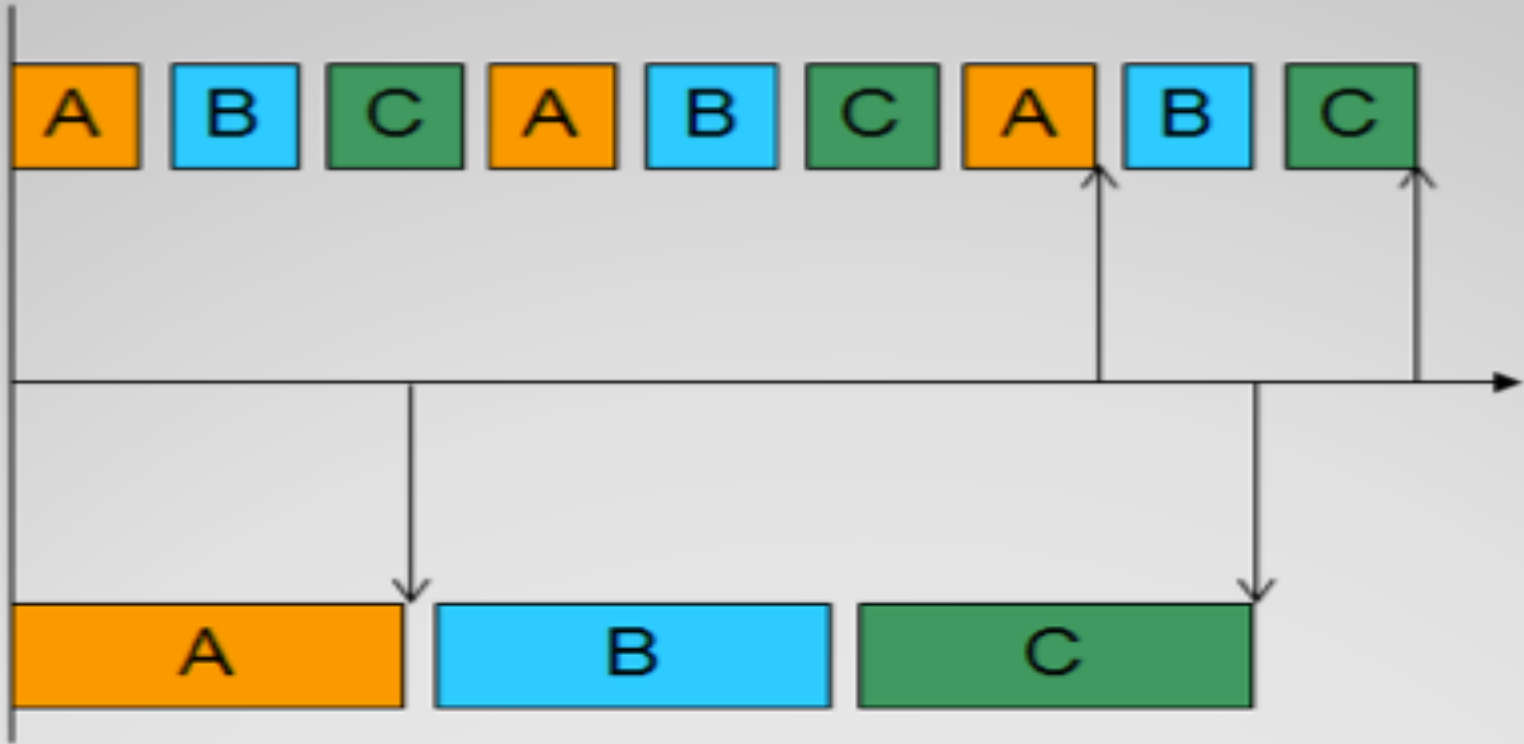
Limiting Work In Progress

20% time is lost to context switching per task, so fewer tasks means less time lost

(from Gerald Weinberg, Quality Software Management)



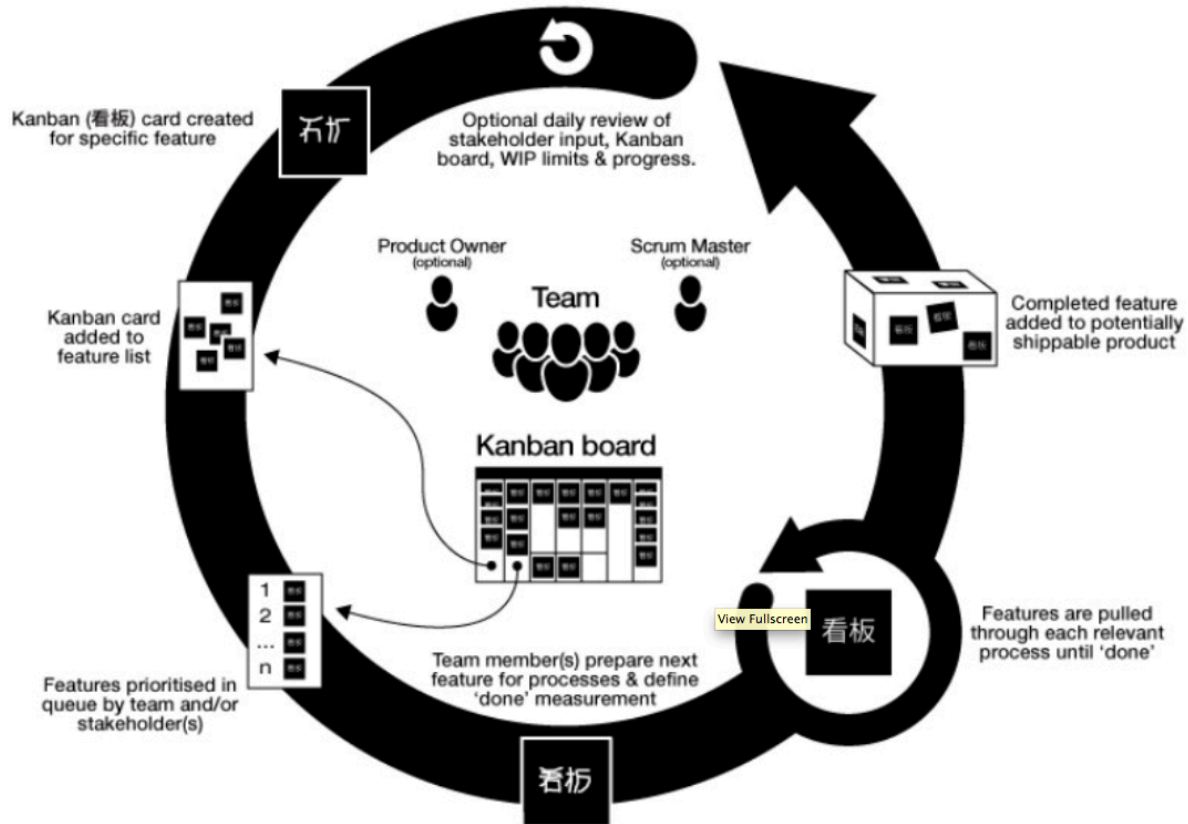
Clear, right ?





And now we mix them up!

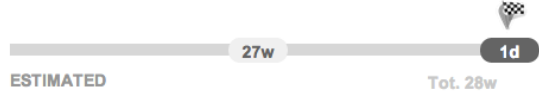
ScrumBan



Project: 000129/13 - BEGHELLI SERVIZI Srl - CRM RivoluzioneLuce - Nuovi Sviluppi

Version: Next End Date Scheduled (auto)

DELTA 7w

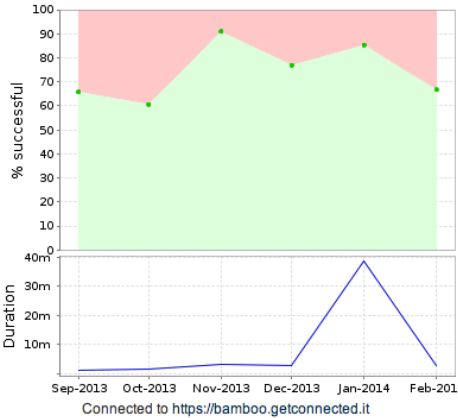


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Jira Real Life Example

Plan Summary for BEG-BRLSGIT



Crucible Charts

Agile Wallboard Gadget

Beghelli - Rivoluzione Luce

6	8	0	0	0	0	0
Suggested	Next	Current	Rework	In	QA -	Done
Max 6	Milestone To Do	Max 12	Max 4	Progress	Test	Max 6

Infrastructure 3 issues



UI 5 issues

Lines of Code

12,022 ▲
15,417 lines ▲
5,479 statements ▲
113 files

Classes

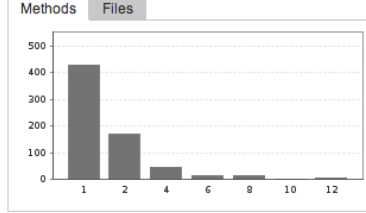
115
packages
678 methods
1,005 accessors ▲

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Sonar Complexity: Rivoluzione Luce

Complexity

2.1 / method
12.3 / class
12.6 / files
1,419 complexity ▲
5,479 statements ▲



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Sonar Violations: Rivoluzione Luce

Rules compliance

95.7%

Violations

298 ▲

Violations

Blocker	10
Critical	1
Major	65
Minor	222
Info	0

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Sonar Treemap: Rivoluzione Luce

