Scrum Process Framework

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Agenda

- 1. Waterfall model.
- 1. What's/Why Agile?
- 2. Agile Manifesto/ Principles of Agile.
- 3. What's/Why Scrum?
- 4. Scrum overview/ events and estimation.
- 5. Tools.
- 6. References.

Game

Row vs Column at a time!! a to j
1 to 10
i to x

Alphabet Letters	Numbers	Roman Numerals



Letters	Numbers	Roman numerals	
a	1	·····	
ь	2	>	
c	3	·····	
ď	4		
e	5	·····›	
f	6	>	
9	7	~~~~	
h	8	>	
Y	9	ix	
j	10	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

Row-at-	-time	e (mult	titasking)
Row-at-	time	= 35	seconds

Letters	Numbers	Roman numerals	
a	1	1	
Ь	2	ii	
c	3	iii	
d	4	iv	
e	5	~	
f	6	vi	
9	7	vii	
h	8	viii	
i	9	ix	
j 🗼	10	x	

Column-at-a-time (single tasking) Average time = 16 seconds

FIGURE 20.3 Cost of multitasking



Which approach do you prefer?

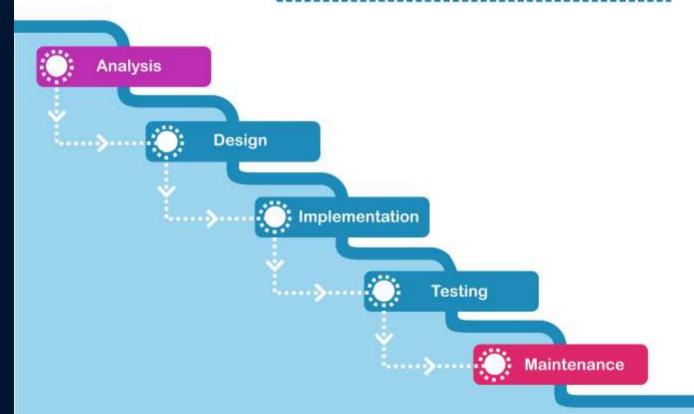
Rows (No wip / multitasking) vs .columns (WIP = 1 / Focus on 1 project at a time)

- which one was faster?
- with which one were you more focused?
- which one gives you more satisfaction?
- which one was more stressful?
- which one is more error occurrence?
- which one is more complex to work?

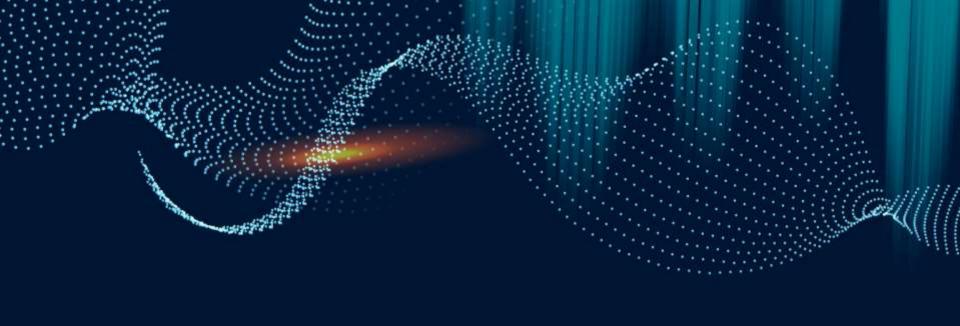


01 SDLC/Stakeholders

WATERFALL



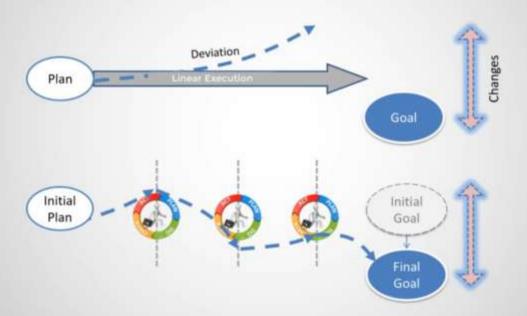




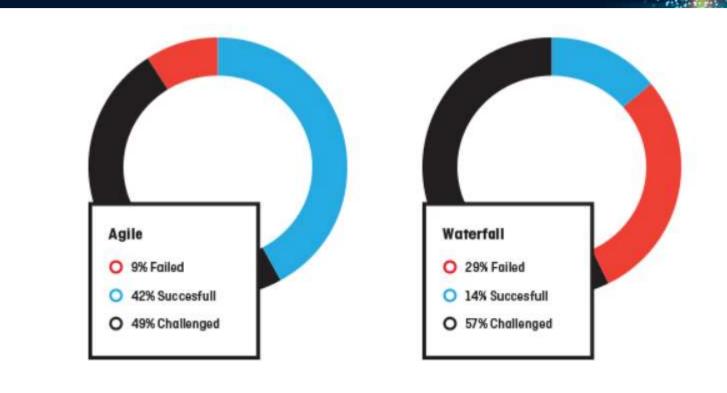
02 What's/Why Agile?

What's/Why Agile?

Linear vs Iterative Development



What's/Why Agile?





Manifesto For Agile

Agile Manifesto

We are uncovering better ways of developing software by doing it and helping others do it.

Through this work we have come to value:

Individuals and interactions over processes and tools

Working software over comprehensive documentation

Customer collaboration over contract negotiation

Responding to change over following a plan

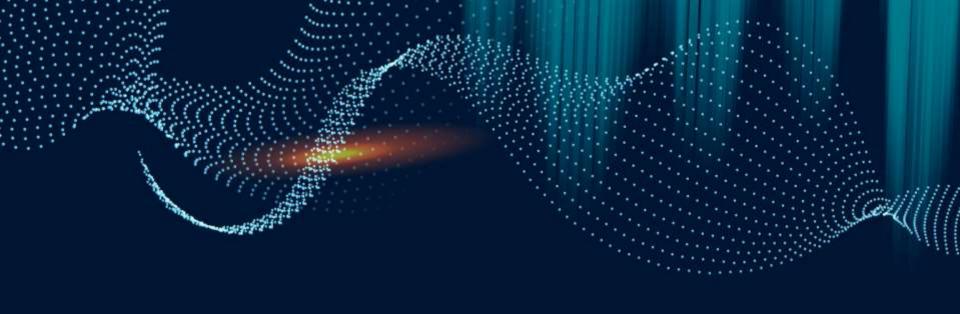
That is, while there is value in the items on the right, we value the items on the left more.

Kent Beck Mike Beodle Arie van Bennekum Allstair Cockburn Ward Cunningham Martin Fowler James Grenning Jim Highunith Andrew Hunt Ron Jeffries Jon Kern Brian Marick

Robert C. Martin Steve Mellor Ken Schwaber Jeff Sutherland Dive Thomas

http://agilemanifesto.org/

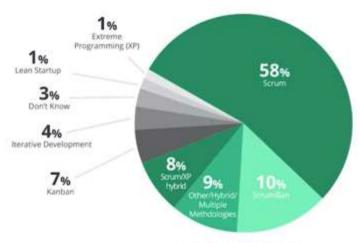
* 2001. The atlove surhors this declaration may be freely copied in any form, but only is its entirety through this notice.



AGILE METHODS AND PRACTICES

AGILE METHODOLOGIES USED

Scrum and related variants continue to be the most common Agile methodologies used by respondents' organizations.



Total exceeds 100% due to rounding,

• Scrum is a framework that helps teams work together.

- Scrum describes a set of meetings, tools, and roles that work in concert to help teams structure and manage their work.
- Scrum is a subset of Agile. It is a lightweight process framework for agile development, and the most widelyused one.

Increase the quality of the deliverables.

Overcome better with change (and expect the changes).

Provide better estimates while spending less time creating them.

Be more in control of the project schedule and state.



CUSTOMER

- More responsive to requests
- High-value features
- Delivered more quickly with short cycles



DEVELOPMENT TEAMS

- · Enjoy development work
- · Work is valued and used
- Reduced non-productive work



SCRUMMASTER

- Planning/task-level tracking in daily meetings
- Tremendous awareness of project state/status
- Catching and addressing issues quickly



VENDOR

- Focused development on high-value features
- Increased efficiency
- Reduce wastage and decreased overhead



PRODUCT OWNER

- Development work aligns with customer needs
- Frequent opportunities to re-prioritize work
- Maximum delivery of value

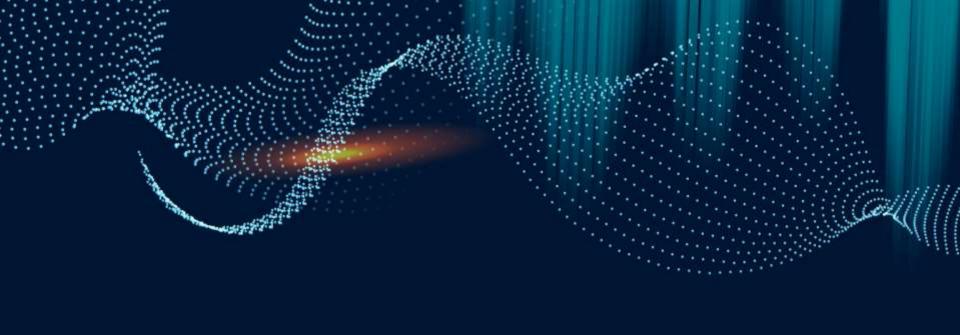


PMOS AND C-LEVEL EXECUTIVES

- High visibility of daily project development
- Adjust strategies based on hard information
- Plan effectively with less speculation

Scrum Pillars

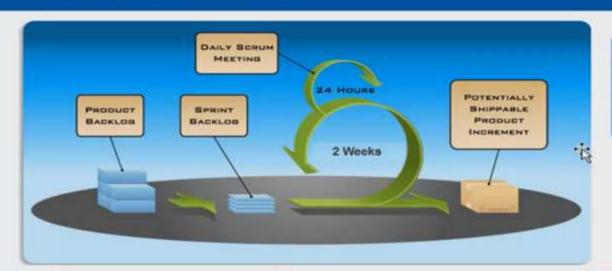




O4 Scrum Overview

Scrum Overview

The Scrum Pillars and Roles



Roles

- Product Owner (Backlog)
- Scrum Master (Process)
- Scrum Team
- Customer / Stakeholder

Scrum roles promote Scrum Pillars. Each role fosters them in various degrees throughout the sprints.

Meetings

- Daily Stand-ups
- Sprint Review
- Sprint Retrospective
- Sprint Planning

Meetings and artifacts also promote Scrum Pillars and involve all teams and stakeholders.

Artifacts

- Planning, Dev, QA
- Backlog (stories, defects)
- Production (Builds, Tpubs)
- Metrics

Scrum Overview-Scrum Team

Scrum Teams

Scrum Teams	Scrum Master	Product Owner	
Define the work	Facilitate the process	Represent the Customer	
Build the Solution	Resolve Impediments	Prioritize the Sprints	
Validate Quality	Focus the team	Accepts the work	
Do the work	Serves the team	Approves Releases	



Scrum Overview-Scrum Team

Scrum Roles: The Scrum Team

Define the work by collaborating with the business

Breakdown the work into simpler tasks

Scrum Team (ST)

We do the work / development

- We have the skills to deliver the product.
- We decide how to achieve each product increment.



Attend Scrum meetings

Complete the work

Estimate the work

Validate the quality of the work

Scrum Teams are usually 5 to 11 members

Scrum Overview-Scrum Team

The Scrum Master as a Servant Leader

The Scrum master is described in many ways, but "servant leader" is one of the strongest.

Traits that make a great Scrum Master:

Support Team members by Listening

Seeks a common Understanding

> Support personal growth

Encourages rather than use authority

Gets the team help when

Looks beyond the current

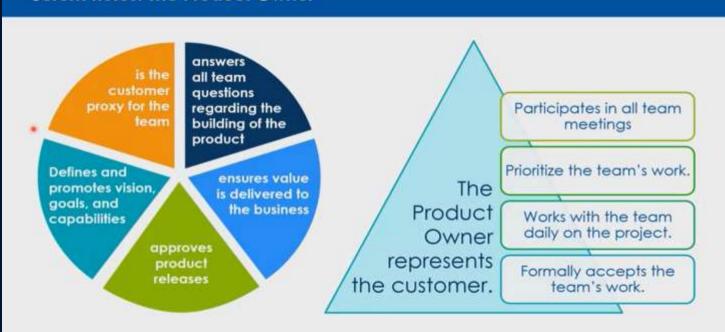
situation

needed

Openness

Scrum Overview-Scrum Team

Scrum Roles: The Product Owner



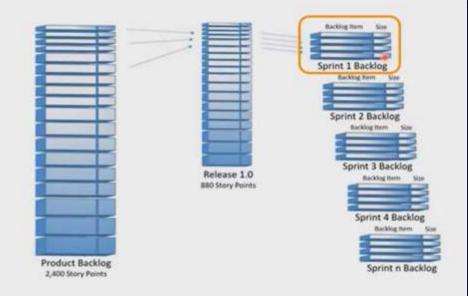
Scrum Overview-Backlog

The Sprint Backlog

is Sprint plan the team constructs

is finalized during Sprint planning

total estimated points of the User Stories equals the team's velocity



Scrum Overview Estimations

Story Points

Estimate Stories with relative Story points

- A Story point is a singular number that represents:
 - How big is the User Story effort..
 - · How much is unknown...
 - The bigger the effort, the higher the estimation in Story Points.
 - The more unknowns, the higher the estimation in Story Points.
 - The most popular Story Point scale is the Rounded, or Modified, Fibonacci scale: 1, 2, 3, 5, 8, 13, 20, 40, 100.
 - There are other scales, for example: Powers of 2, Small, Medium and Large.



Support: A 2 point User Story is about double the effort of a 1 point User Story.

Scrum Overview Estimations

Story Points

Estimate Stories with relative Story points

- A 1 point User Story is a User Story that can be coded and tested in 1 day.
- In other words, the User Story can get to Done in 1 day.
- Any User Story that is about double the effort is a 2 point User Story.
- Any User Story that is about triple the effort of the 1 point User Story, is a 3 point User Story.
- Continue to estimate using the same relative approach.



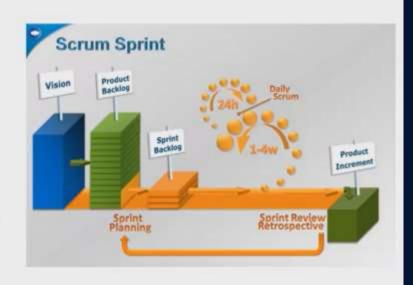
Support: A 2 point User Story is about double the effort of a 1 point User Story.

Scrum Events:-

- Sprint planning.
- Daily Stand-up.
- Sprint Review.
- Sprint Retrospective.

The Sprint

- is the product's development iteration
- is the foundation of Agile economics
- is a combination of a set timebox, and a required set of events, or meetings
- supports the Iterative development which allows the team to build, learn, and collaborate with the customer



The Sprint Planning Meeting

 is where the team plans what is hopes to accomplish and complete during the upcoming Sprint

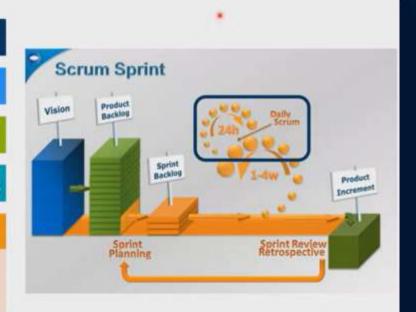


- Scrum Master facilitates the Sprint Planning meeting
- is timeboxed for 1 to 2 hours.
- When the team estimates Users Stories, the estimation is done so collaboratively

- Daily Stand up (DSU), is the team's mini status meeting, and planning session
- · is for the team
- is time boxed for no more than 15 minutes
- In order to maintain the 15-minute time box, the Daily Scrum has a script

Each team member answers the 3 auestions

- Yesterday, I completed ...
- ·Today, I am working on ...
- ·Here are my impediments and blockers...



The Sprint Review Meeting

- is where the team runs and demonstrates the current product to themselves, the Product Owner and any relevant stakeholders
- product must be packaged and running in the intended architecture
- is the formal time to "Check" the product and validate progress, as the Agile Manifesto states
- Teams demonstrate every Story, and knowledge gained form learning activities
- timebox is 1 to 2 hours



The Sprint Retrospective Meeting

START

"What should we/l start doing?"

List ideas/items:

- Things that are not being done, but should be done
- Things to begin doing to get better results
- Things worth trying or experimenting for better results

STOP

"What should we/l stop doing?"

List ideas/items

- Things that are not working or helping
- Things that impede or are not practical
- Not delivering desired results
- · We or others dislike

CONTINUE

"What should we/l continue doing?"

List ideas/items

- Things that are working well
- Things that we want to keep
- Worth continuing to see if they're worthwhile
- We like or need

The Sprint Calendar

The Sprint Planning meeting takes place on day 1.

The Daily Scrum occurs everyday.

The Sprint Review and Sprint Retrospective take place on the last day, or 2 days of the Sprint.

I	Monday	Tuesday	Wednesday	Thursday	Friday
	16	17	Sprint Planning (Sprint 1)	19 (tally standay)	20 Daily standage
I	23 Unity standage	24 Sally standage	25 Dally standay Backlog Refinement	26 Unity standay	27 Daily Handing
	30 Duly standap	31 Sprint Review (Sprint 1) Sprint Retrospective (Sprint 1)	\$ Sprint Planning (Sprint 2)	2 Daily standar	3 Stally standay
İ	6 Daily standay	7 Eulity Standags	Bucklog Refinement	9 Daly standay	10 Dully standage

Scrum Overview-DoD

The Definition of Done (DoD)

The Definition of Done (DoD) is a check list of items that the team, the Product Owner, and Stakeholders agree must be completed before the User Stories can be consider Done.

The DoD is some levels of testing, some levels of documentation and other tasks.

DoDs experience levels of maturity. The DoD is similar to Exit Criteria.

Definition of Done

Acceptance Criteria Satisfied

Acceptance Test Run and Passed

Unit Tests Run

New User Stories Test run and Passed

Code and Documents are checked into the team repository

Compliance tasks complete

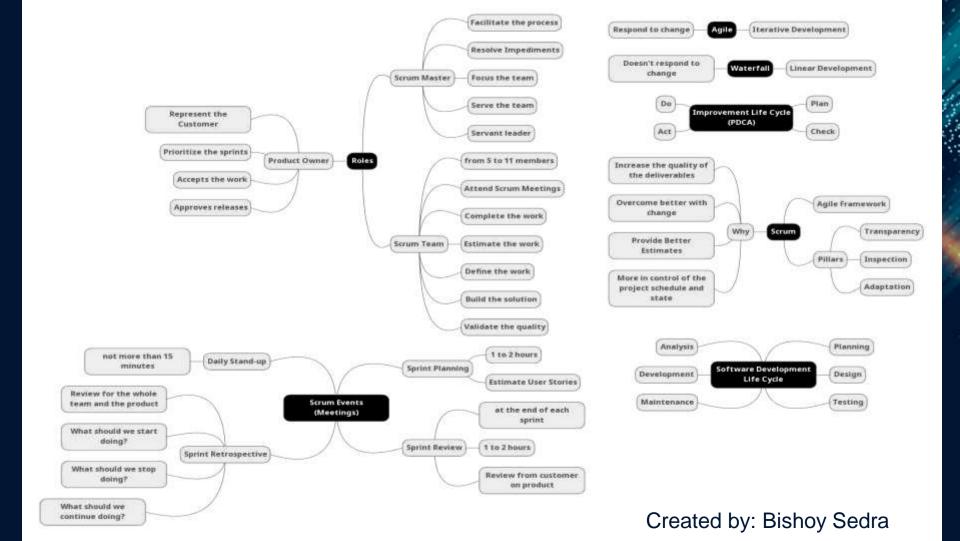
User Stories are Accepted by the Product Owner.



05 Tools

Tools

- Jira.
- Click-up.
- Notion.
- Trello.
- Confluence.



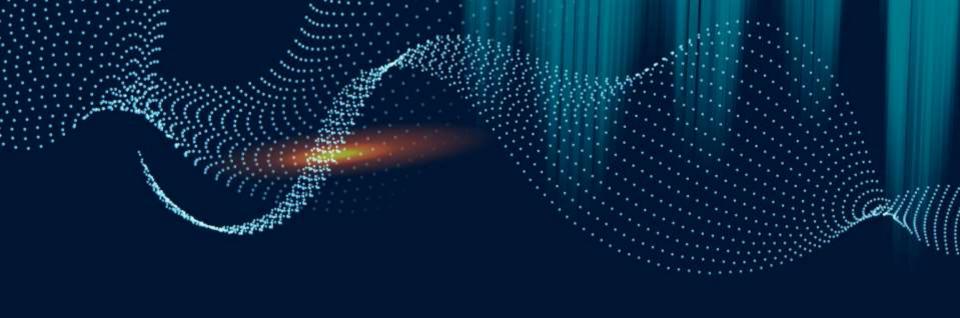
Acknowledgment

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- trustradius.com/buyer-blog/difference-between-agile-vs-waterfall



Thank You!