## Agile\_SCRUM Project Management

Presenter Name : Dipti Trivedi

Presentation Date: 26-08-20



### **Your Facilitator**

### **Dipti Trivedi**

PMI ACP, PMI- USA
ICP-ACC [ Certified Agile Coach]
SAFe Agilist [ SA ]
SCRUM Master Certified
PMP, PMI, USA
Microsoft Certified Professional - MCTS
[Project SERVER]

Overall 18+ yrs Industry experience

Conducted 30,000+ hours training on Project Management & PM Tools

**Trained 7000+** professional across the globe.

**Group Manager**, Cybage-Pune

Sr. Consultant, SABCONS Software Consultant- REP, PMI-USA

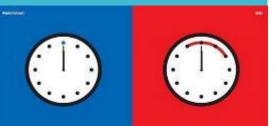
**Lead-Technical Services** at Softbridge Solutions Pvt. Ltd.

Project Manager (IT) at AT&T Technology Park and

Ex- PMI India Champion & Associated with PMI Pune Deccan India Chapter



### Our Expectations



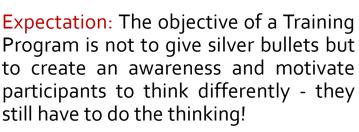
Punctuality: Start on time, end on time is the best policy. Concentration starts dropping after sunset.

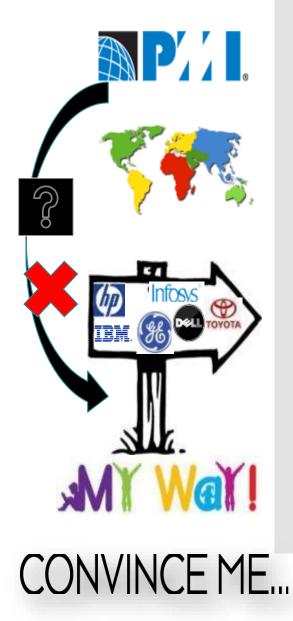


Cell-phones/Laptops: Unwelcome in the Training Room. One of the Trainers in Bangalore is a very successful entrepreneur - if he can activate his voice-mail, so can the participants.

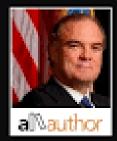


Unsolicited visitors: Unwelcome in the Training Room.





The facilitation alone is my responsibility, the learning is all YOURS....!



Responsibility for learning belongs to the student, regardless of age.

-Robert Martin



## Have Question...



Anytime... ©

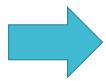




### **Agenda Topics**

- Agile
- Why Agile
- Agile Methodology
- Agile Manifesto- 4 values & 12 Principles
- Agile Frameworks
- Agile Vs Waterfall





- Scrum Roles
  - PO –SM- Dev Team
- Scrum Meetings
  - · Release Planning- Sprint Planning- Daily Stand-Ups, Review, Retro
- Scrum Artifacts
  - · PB-SB-Increment
- Scrum Estimation [optional]
- SCRUM & A road Ahead

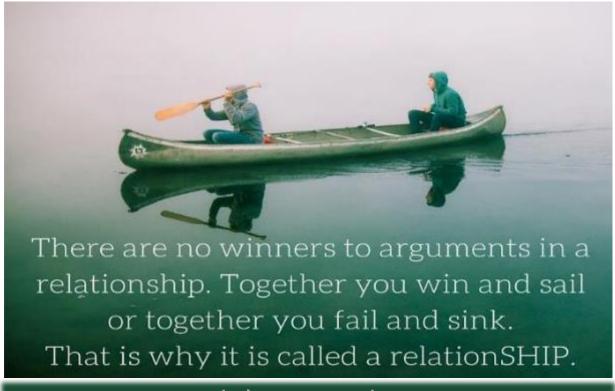
### ACTIVITY

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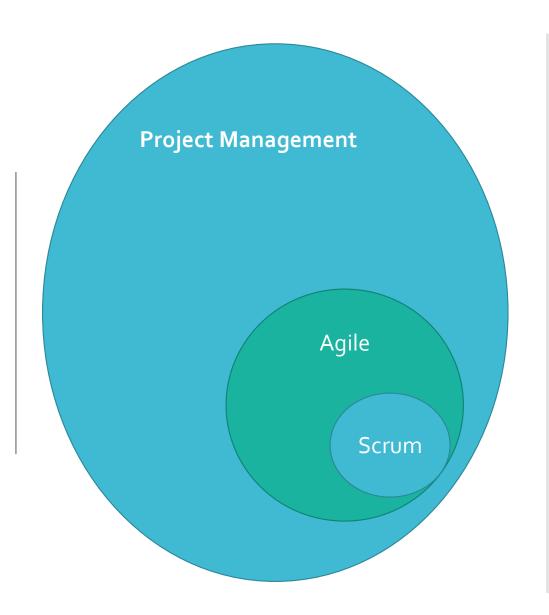
### Being AGILE... Doing Agile: ©

Sail Together or Sink Together



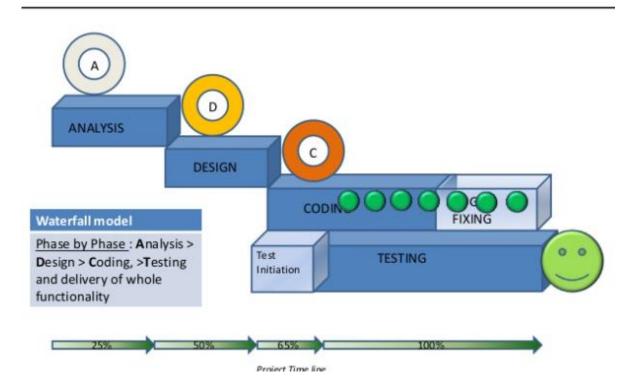
A joint accountability to make it SUCCESS

Project Management Sea

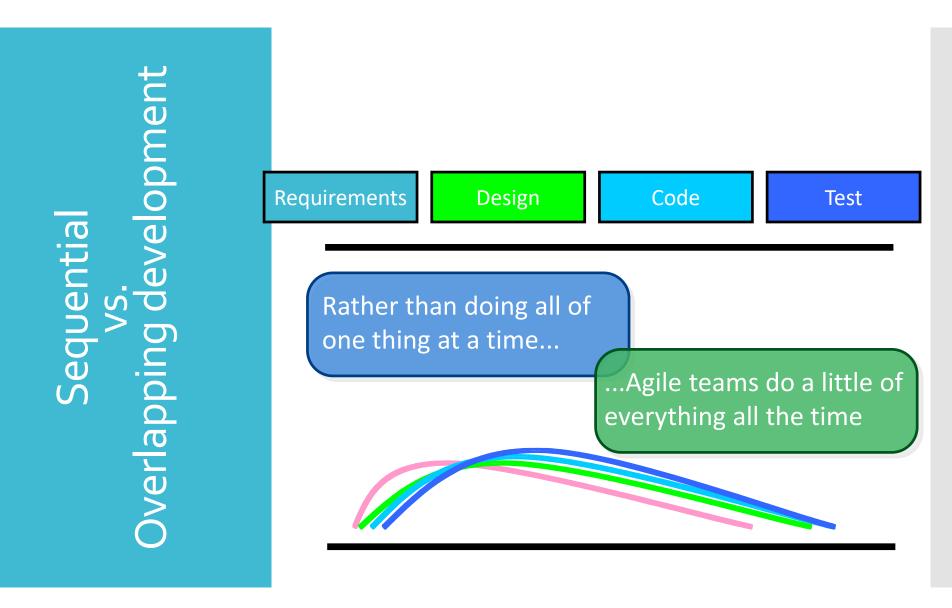




### WATERFALL Model

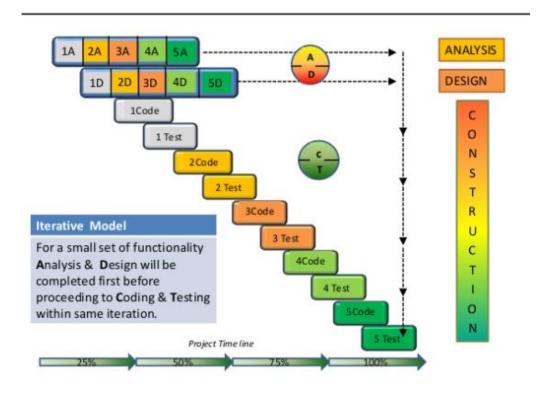






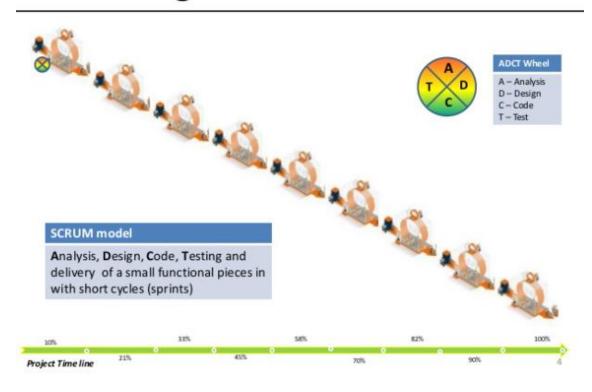


### **ITERATIVE Model**





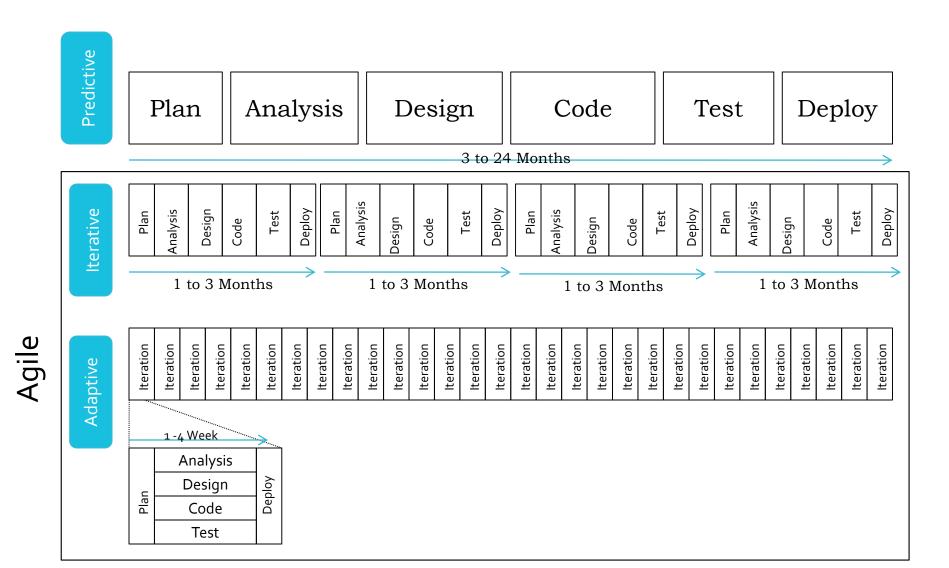
### Agile-SCRUM Model



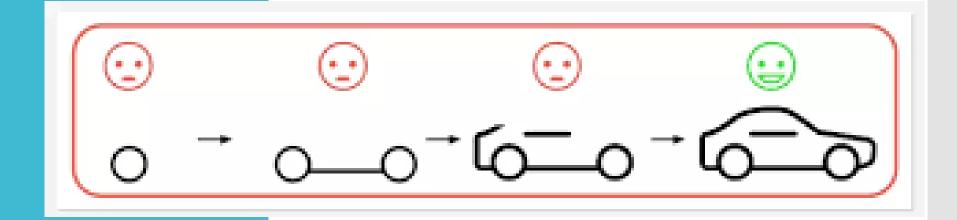


## SCRUM-SPRINT

### Software Development Life Cycle







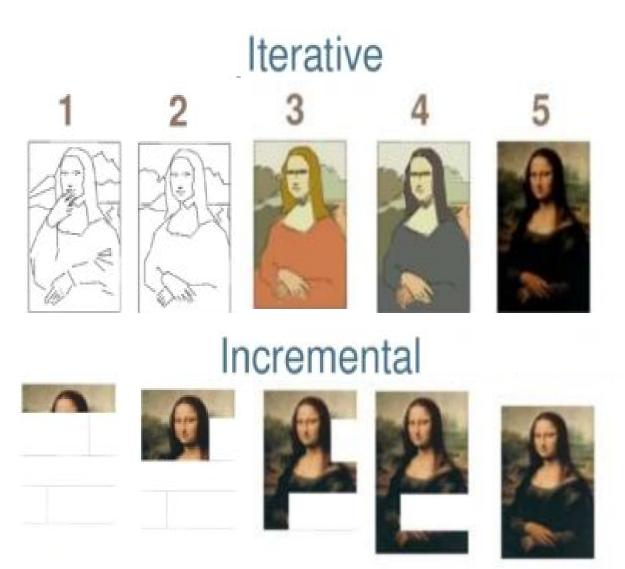
### Adaptive Devp. Vs. Incremental Devp.

The second second

### Iterative Vs. Incremental Development

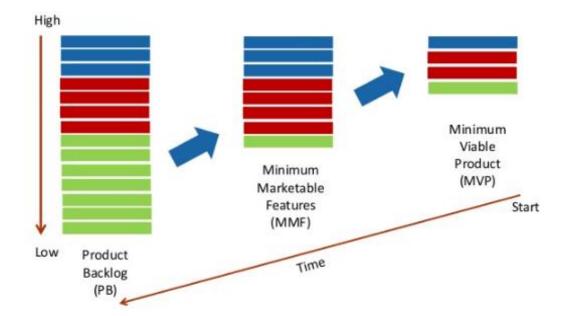






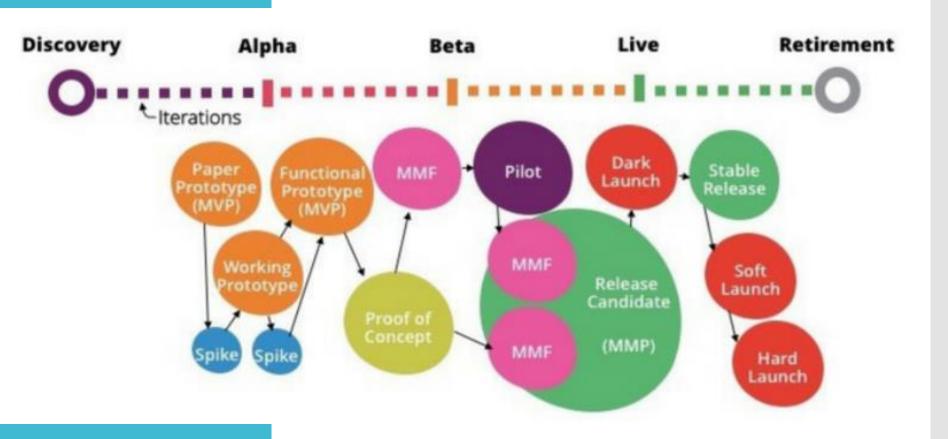


## MVP or MMF



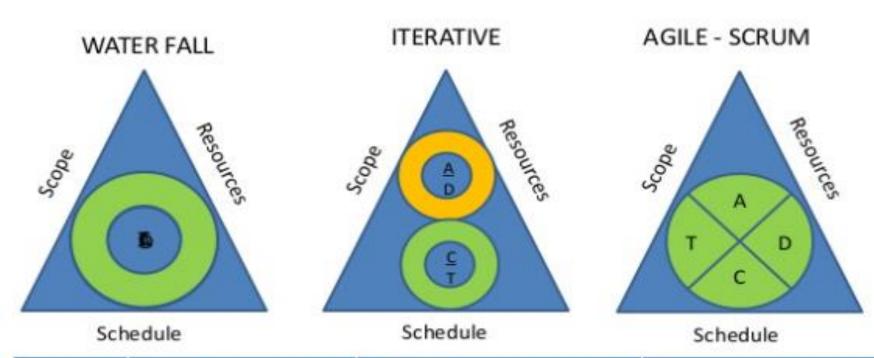
### CYBAGE Delivering Value. Scientifically.

### Product Lifecycle: Discovery to Retirement





### Process vs Project Triangle



	Waterfall	Iterative	Agile
Format	Test Match: Strategic- Phase by Phase like Innings by Innings. Game for Specialists. Slow and Steady.	One Day: Strategic approach – First10/Middle/Slog overs. Mix of Specialists and All-Rounders. Result oriented.	T20: Lively , Dynamic, Full of Action. Game for All-Rounders. Changes with every over. Highly Result oriented







# The problem







Scrum and Agile are based on the hypothesis that there is no metasolution for software development. Just a framework within which we will be empirical – Inspect and Adapt



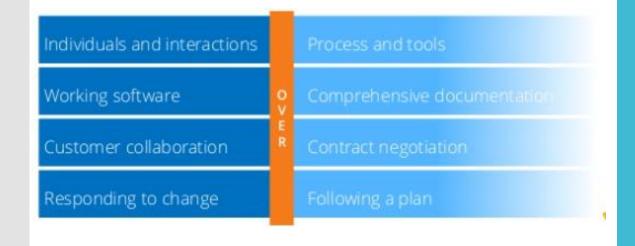
- Ken Schwaber



### Agile Manifesto Origin

- On February 11-13, 2001, at The Lodge at Snowbird ski resort in the Wasatch mountains of
  Utah, 17 people met to talk, ski, relax, and try to find common ground and of course, to eat.
  What emerged was the Agile Software Development Manifesto.
- Representatives from Extreme Programming, SCRUM, DSDM, Adaptive Software
  Development, Crystal, Feature-Driven Development, Pragmatic Programming, and others
  sympathetic to the need for an alternative to documentation driven, heavyweight software
  development processes convened.
- Kent Beck, Mike Beedle, Arie van Bennekum, Alistair Cockbur,n Ward Cunningham, Martin Fowler,, James Grenning Jim Highsmith, Andrew Hun,t Ron Jeffries, Jon Kern, Brian Marick, Robert C. Martin, Steve Mellor, Ken Schwabe,r Jeff Sutherland, Dave Thomas

Reference: http://agilemanifesto.org/



### Manifesto for Agile

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

**Through** this work we have come to value:

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

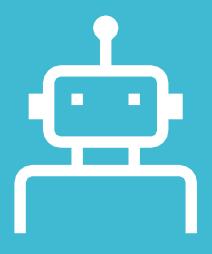
### Principles behind the Agile Manifesto

#### We follow these principles:

- 1. Our highest priority is to satisfy the customer through early and continuous delivery of valuable software.
- 2. Welcome changing requirements, even late in development. Agile processes harness change for the customer's competitive advantage.
- 3. Deliver working software frequently, from a couple of weeks to a couple of months, with a preference to the shorter timescale.
- 4. Business people and developers must work together daily throughout the project.
- Build projects around self-motivated individuals. Give them the environment and support they need, and trust them to get the job done.
- 6. The most efficient and effective method of conveying information to and within a development team is face-to-face conversation.
- 7. Working software is the primary measure of progress.
- 8. Agile processes promote sustainable development. The sponsors, developers, and users should be able to maintain a constant pace indefinitely.
- 9. Continuous attention to technical excellence and good design enhances agility.
- Simplicity--the art of maximizing the amount of work not done-is essential.
- 11. The best architectures, requirements, and designs emerge from self-organizing teams.
- 12. At regular intervals, the team reflects on how to become more effective, then tunes and adjusts its behavior accordingly.



## Agile Mind set



## What is a differentiator between

**'Doing'** Agile

&

**'Being'** Agile



### Agile mindset, Intent-based Management

200%+ benefit

- Employee engagement
- Leadership at all levels
- Customer delight
- · Continuous learning

Doing Agile



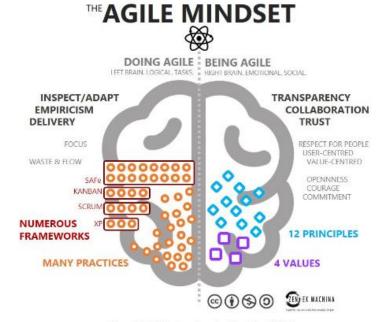
Being

Agile

### Kanban boards, daily scrums, Sprints

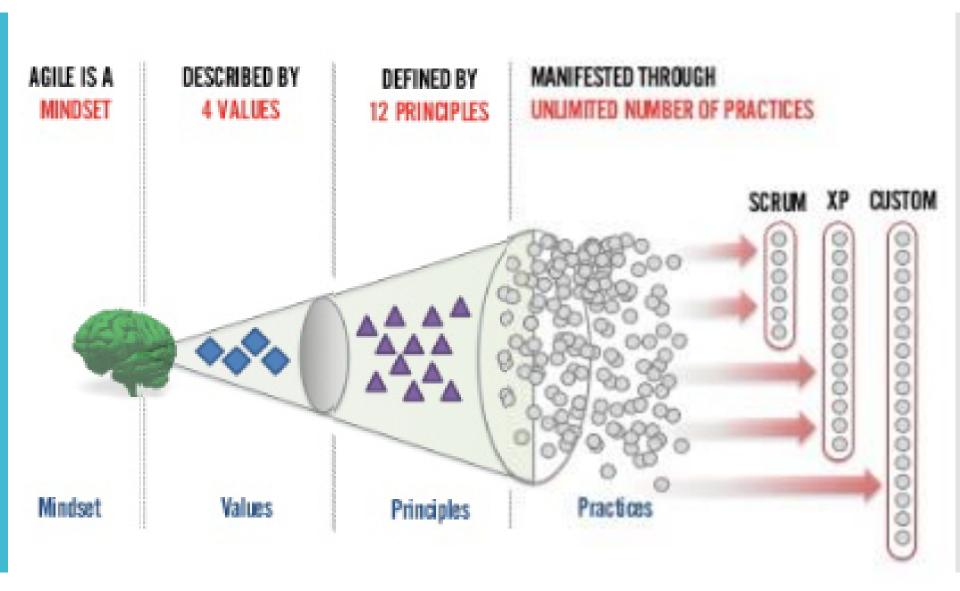
20% or so benefit

- Improved visibility, communication
- Increased productivity
- Some ability to adapt to changing priorities



The Agile Mindset. Zen Ex Machina (2017)



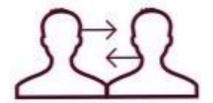


Agile Mindset –Ahmed Sidky



**87**%

Ability to manage changing priorities



**85**%

Increased team productivity



84%

Improved project visibility

## Agile Benefits @Team level









### Agile Benefits @Enterprise Level

### Summary

### We have discussed the following

- Project Management
- Traditional Vs Agile
- Why Agile
- Agile Manifesto & Origin
- Benefits of agile @Team & Enterprise

### 1. Which of the following is NOT a principle from the Agile Manifesto?

- A. Our highest priority is to satisfy the customer through early and continuous delivery of valuable software
- B. Business people and developers must work together daily throughout the project.
- C. Project manager should control the project execution
- D. Working software is the primary measure of progress.

### Quiz

- 2. Which of the role is not found in agile projects?
  - A. Project Director
  - **B.** Product Owner
  - C. Scrum Master
  - D. Team



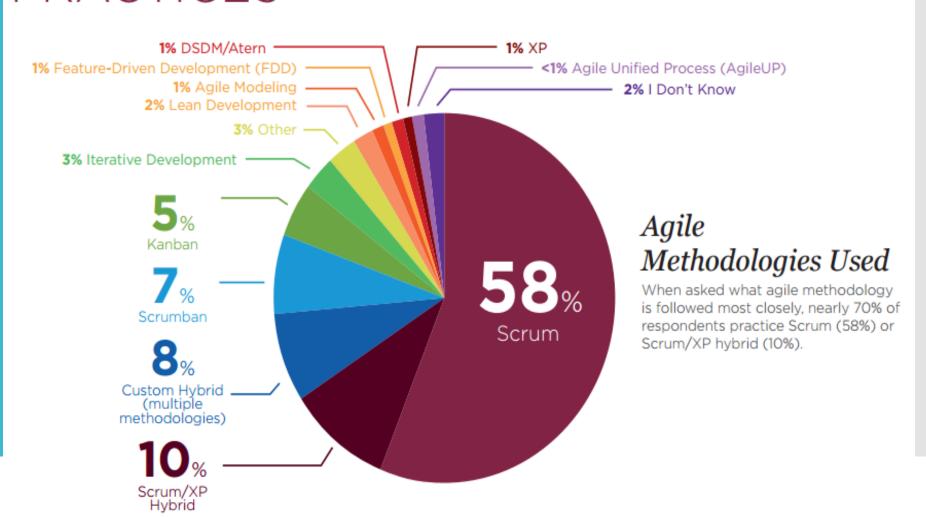
Agile Methodologies

### SCRUM Project Management

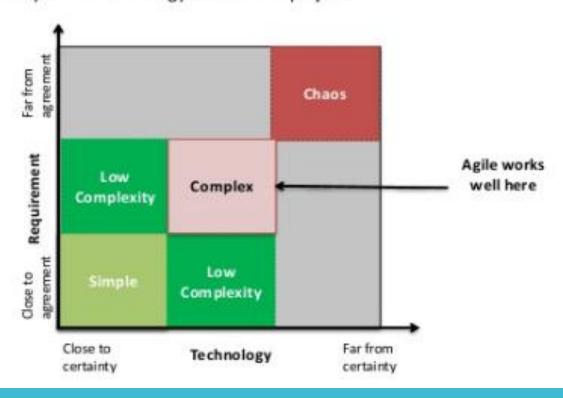
MODULE - 2



## AGILE METHODS AND PRACTICES



Software projects are characterized by the level of complexity around requirements, as well as the complexity of the technology used on the projects.

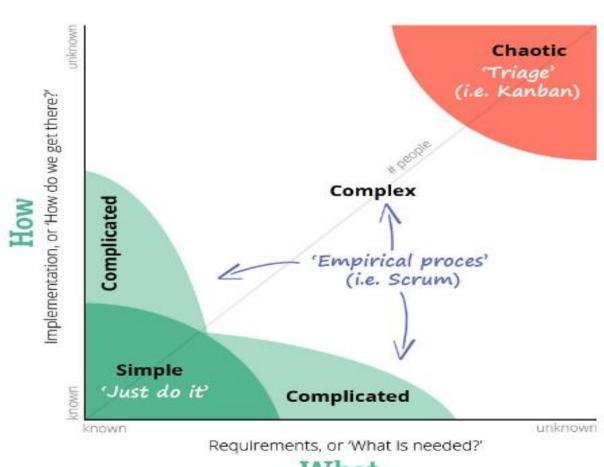


## How do you decide...?!!!



## **Stacey Matrix**

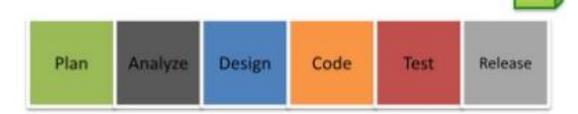
adapted for software development





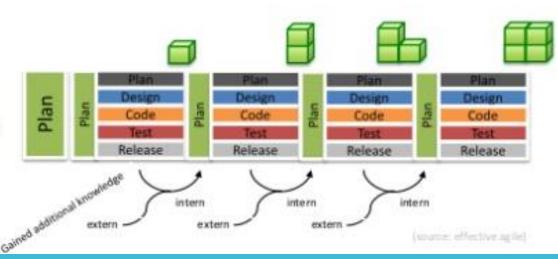
#### Waterfall (Defined)

Plan for the entire project up-front

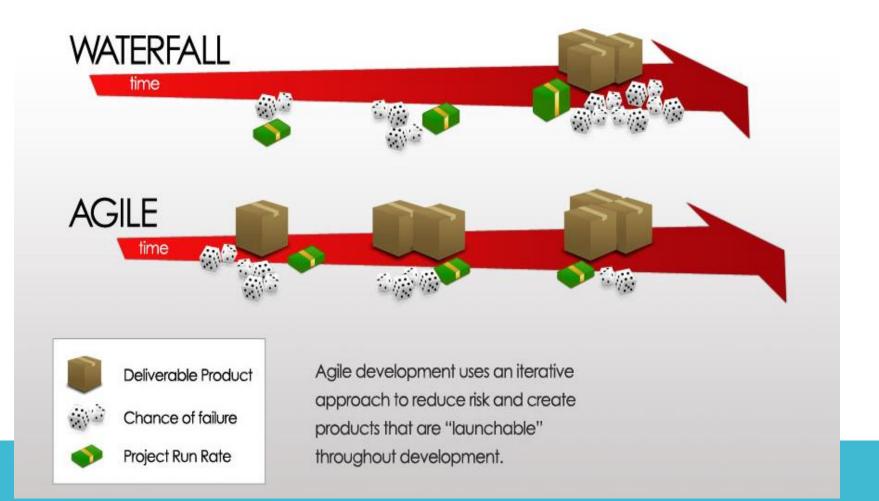


#### Scrum (Empirical)

Plan a little for the entire project and then a little for each Sprint



## Defined Vs. Empirical



## Risk & Delivery Rate: Waterfall Vs. Agile



What is most important to focus on in putting together a new agile project?

- A. How the team's progress will be measured and tracked by management
- B. A comprehensive description of the product to be built and how it will be used
- C. The processes and tools that will be used, including the technology involved
- D. The individuals who will be involved, and how they will interact with each other

What won't you find in your team's product backlog?

- A. Code standards
- B. Nonfunctional requirements
- C. The sprint backlog
- D. Fixes to be done



How do agile teams deal with the fact that it is difficult to define the details of a knowledge work product upfront?

- A. They spend more time documenting their processes rather than trying to nail down the product details.
- B. They keep all their plans and contracts "barely sufficient" and "just in time."
- C. They only work with vendors and customers who are also using agile processes.
- D. They try to remain flexible and adapt whenever the customer changes his mind.

You've been asked to coach a team that is just switching to agile, and they ask you whether it's true that agile teams don't use plans. You explain that agile teams do prepare plans, but sticking to those plans is less important than:

- A. Responding to change
- Keeping the customer happy
- C. Continuously improving
- D. Delivering value

#### **SCRUM**

- Empirical Process
- Scrum Roles
  - ❖ PO –SM-Team
    - User Stories- Use case- Requirements
    - Velocity
  - Scrum Meetings
    - Daily Stand-up
    - Sprint Planning
    - Sprint Demo
    - Sprint retro
- Scrum Artifacts
  - ❖ PB
  - ❖ SB
  - Increment
- Sprint reports
  - Burndown Chart

#### **Empirical Process Control**



Three pillars
uphold every implementation of
Empirical process control

#### Transparency

- Honesty about progress and problems
- Clear, shared Definition of Done

#### Inspection

- Frequent testing of assumptions through feedback
- Feedback comes from real customers & users

#### Adaptation

- Tweaking of product based on feedback & goals
- Adjustment of Scrum process in flight

### Scrum Framework

**?** Roles

- Development Team
- Product Owner
- ScrumMaster

#### Artifacts

- Product Backlog
- Sprint Backlog
- Increment

#### Activities

- Product Backlog Refinement
- Sprint Planning
- Daily Scrum
- Sprint Review
- Sprint Retrospective

#### Values

- Courage
- Openness
- Focus
- Commitment
- Respect

## **3** Roles

- Development Team
- Product Owner
- ScrumMaster

## **Artifacts**

- Product Backlog
- Sprint Backlog
- Increment

### Activities

- Product Backlog Refinement
- Sprint Planning
- Daily Scrum
- Sprint Review
- Sprint Retrospective

### Values

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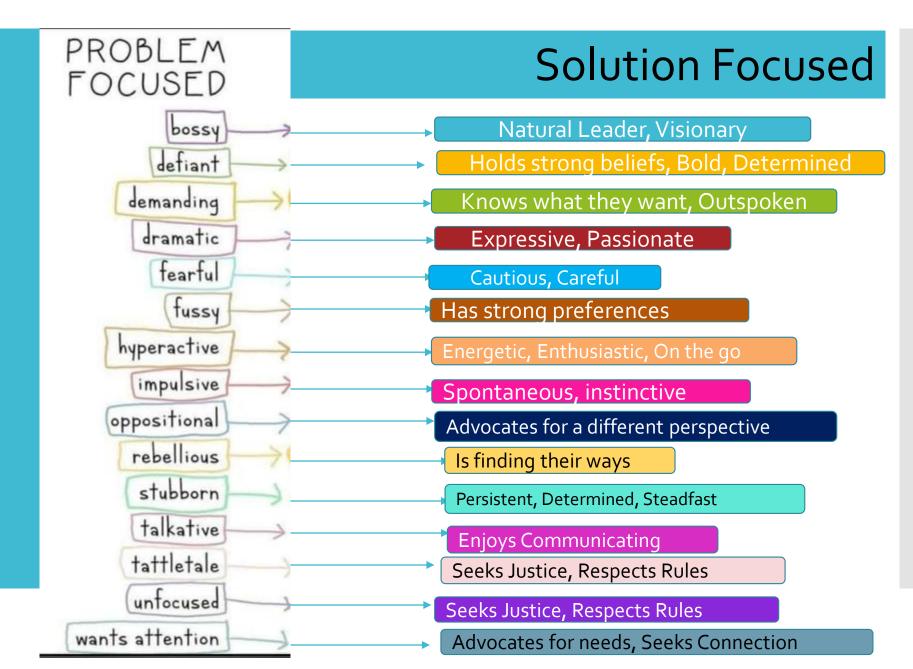
## Scrum Framework



Are you PF or SF?

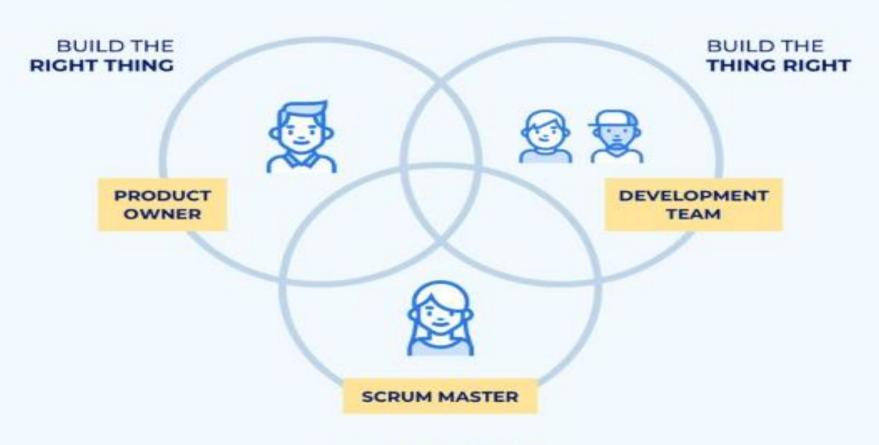
Problem Focused	Solution Focused
What's wrong	What's needed
What needs fixing	What's work
Blame	Progress
Control	Influence
Causes in the past	'Counters' in the past
The expert knows all	Collaboration
Deficits and Weaknesses	Resources and Strengths
Complications	Simplicity
Definitions	Actions







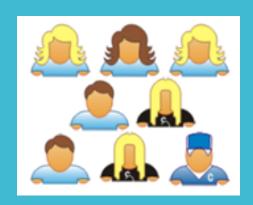
#### Scrum Team Roles



BUILD IT FAST



## The Development Team



#### Characteristics

- Teams are self organizing,
- Ideally no titles but rarely a possibility
- Cross-Functional
- Self Managed
- Full time (100% dedicated) &
- sit together



#### Mission

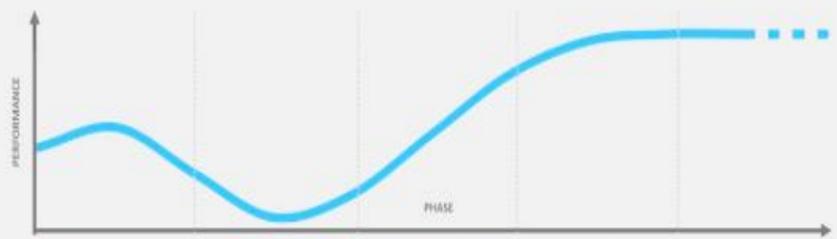
- Decides how much work to take on in a sprint
- Collectively responsible for reaching the sprint goal and meeting the commitment
- Delivers PSPI each sprint
   without sacrificing quality and
   sustainable pace
- Manages the sprint backlog and keeps tracking the progress
- Makes continuers selfimprovements



## **Phases of Team Development**

Forming, Storming, Norming, Performing & Adjourning — based on group development model by Bruce Tuckman.

All phases are necessary and inevitable for a team to grow, tackle problems, find solutions, plan work, and deliver results.



#### **FORMING** ADJOURNING **STORMING** NORMING PERFORMING · Shift to process orientation Questioning Resistance Reconcilation . Demonstrations of CHARACTERISTICS · Rollet, lowered analety + Sadness Socializing Lack of particleation. Interdependence . Recognition of turm & Duplaying eagerness · Confint · Members are organist & · Healthy system Focusing on group identity & . Ability to effectively produce as individual efforts. Competition supportive Developing cohesion · High emotions. a tesm. purpose · Sticking to safe topics . Balance of task and process Starting to move towards group. orientation. · Taking the Tead . Recognizing individual & group · Normalizing matters. \* Celebrating · Recognizing change. . 'Guide from the side' (minimal) Providing clear expectations & . Encouraging leadership efforts . Providing an opportunity for STRATEGIES . Providing learning consistent instructions. summative team enalizations. intervention). Quick response times. opportunities & feedback . Encouraging group-decision-. Providing an opportunity for . Monitoring the 'energy' of the making & problem-solving acknowledgments . Providing opportunities to group share livaring across teams



#### Shu-Ha-Ri Applied to Agile team















How would you describe your Scrum team?

- A. We are empowered to remove any impediments to our progress.
- B. We are empowered to manage our own work.
- C. We are responsible for managing the backlog.
- D. We are self-organizing and self-managing.

Erica just completed Task 3.2, so the task card on the team's Kanban board needs to be moved from the "In Progress" column to the "Done" column. This move should be made by:

- QA specialist
- B. Project manager
- C. Erica
- D. Erica's team leader







## Product Owner



#### Characteristics

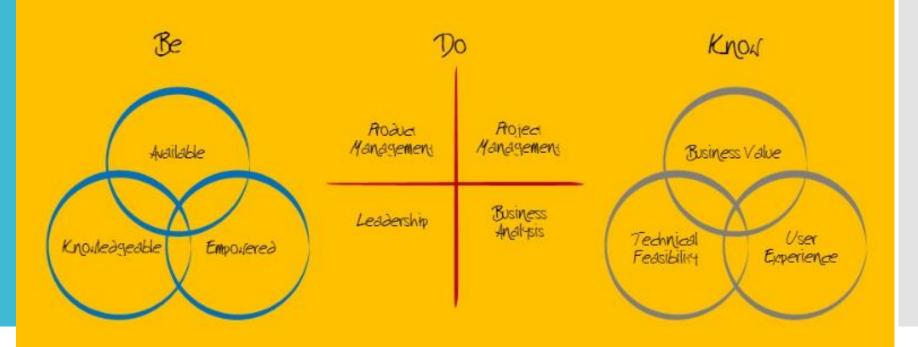
- One person playing the role
- Drives product success
- Represents project to the stakeholders
- Represents stakeholders to the project
- Collaborates with everyone
- Typically played by customer or customer representative
- Part of the team tightly engaged through the sprint

#### Mission

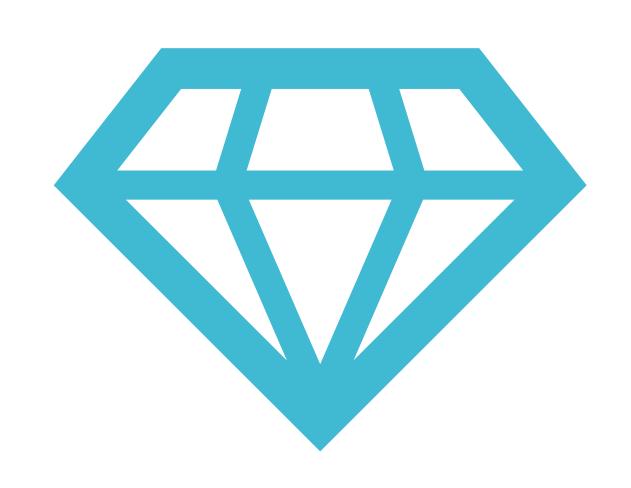
- Creates product vision
- Defines the feature of the product
- Responsible for ROI (Return of Investment)
- Prioritizes feature according to market value
- Adjusts feature/priority according to the market feedback
- Accepts/rejects work result
- Ensures the readiness of sprint input



## What a Product Owner Should Be, Do, and Know



CRACK





#### ScrumMaster

## Systems Thinker

· Create visibility to big picture

rganization

Communit

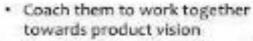
- Create awareness about prevailing mental models
- Help organization make decisions based on both long term and short term impacts

## Change Facilitator

- Create need for change
- Help stakeholders understand the current reality
- Help them identify improvement areas
- Motivate them to pursue continuous improvement

#### Work with community to understand better and current ways to deliver products.

- Bring knowledge from community to the organization and help them adopt as needed
- Contribute back to the community to transform the world of work



- Coach them on the right way to build right things
- Coach them to self-organize.
- Maximize the potential of the team.

## Stakeholders

Scrum Team

#### Process Expert

#### Coach





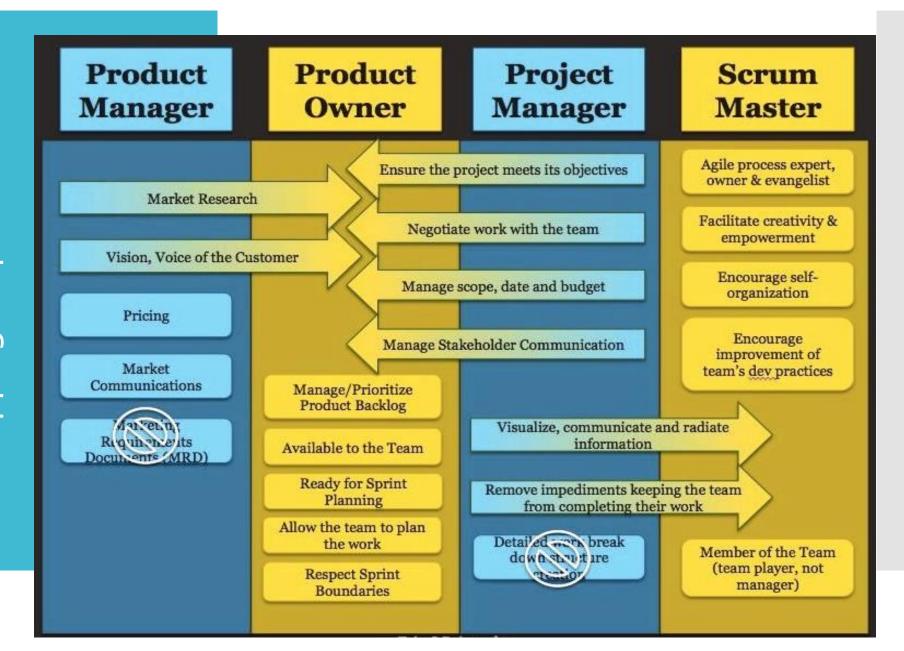
#### Characteristics

- Represent management to the project
- Responsible for enacting Scrum values and practices
- Removes impediments
- Ensures team is fully functional and productive
- Shield the team from external interferences
- Process check master
- Performance feedback

#### **Mission**

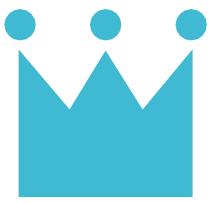
- Helps the Team remove obstacles and impediments
- Protects the Team from disruption and other threats
- Coaches the Team on their practices to make continuous improvements
- Facilitates the interactions within the
   Team/between the Team and the PO
- Teaches Scrum to the Team, PO and other people
- Being a change agent in growing the organization to deliver early and often &
- remove waste













## **Roles**

- Development Team
- Product Owner
- ScrumMaster

## Artifacts

- Product Backlog
- Sprint Backlog
- Increment

## Activities

- Product Backlog Refinement
- Sprint Planning
- Daily Scrum
- Sprint Review
- Sprint Retrospective

## Values

- Courage
- Openness
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- Commitment
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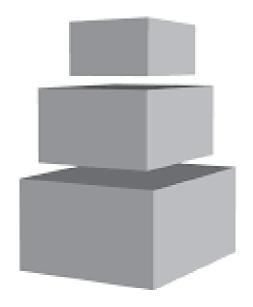
## **Product Backlog**



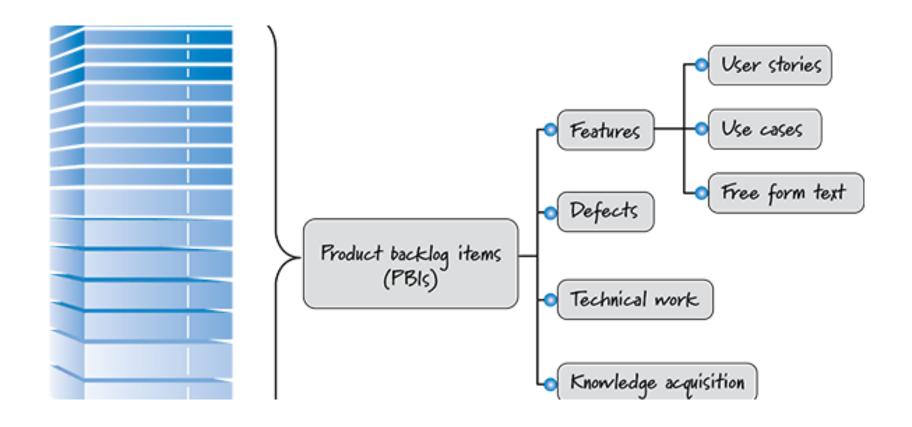
### Product Backlog

Requirements

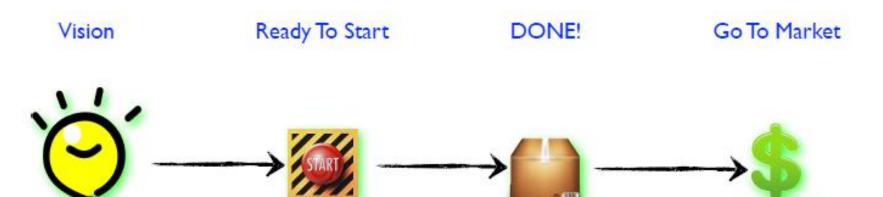
A list of all desired work on the project Prioritized by the Product Owner Reprioritized at the start of each sprint

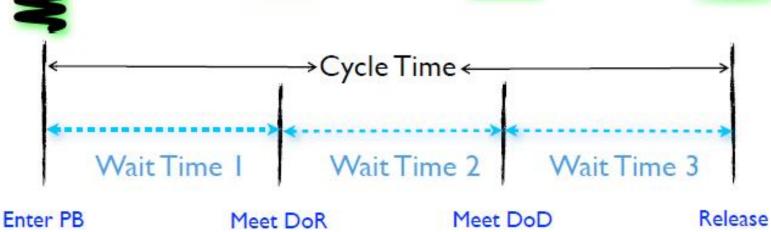


Product Backlog (Features)



## Product Backlog





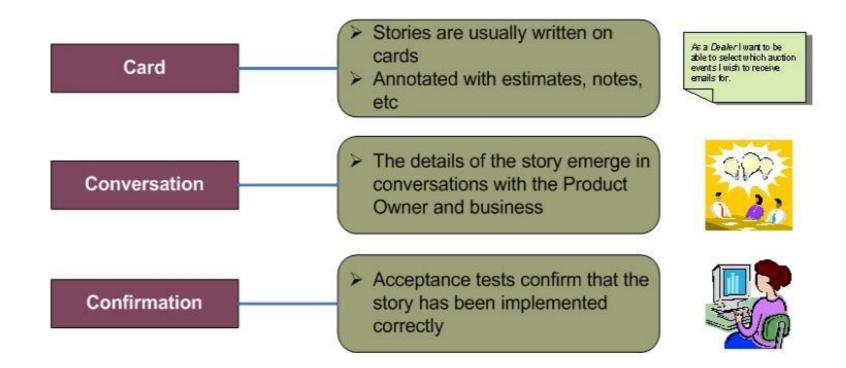
## Cycle Time for a feature



## Amazon Deploys to Production Every 11.6 Seconds

## Hight Performance Examples

Company	Frequency of Deployment
Amazon	1000+ deployments/day
Netflix	1000+ deployments/day
Hubspot	300 deployments/day
Etsy	50 deployments/day
IMVU	50 deployments/day
Microsoft/Google/Mozilla	2-3 weeks for new release



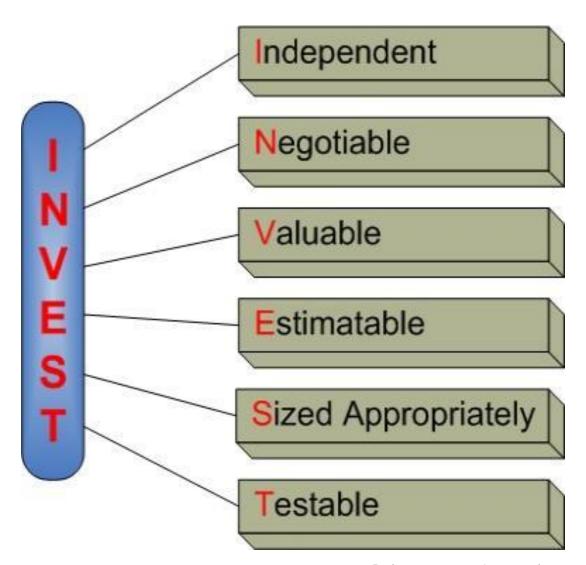
**User Stories** 

User Stories are an established method of clear communication between

the team & the business



# good story? What makes a



Ref: www.mountaingoatsoftware.com

- Agile uses points vs. hours why?
  - We are not good at estimating
  - We are good at comparisons
- Relative size is easier to estimate than "absolute" siz
- Story Points
  - Complexity
  - Effort
  - Doubt
- Entire Team consensus



## Story Points - Estimating the Size





#### Agile Estimation Techniques

- Many people have used a variation of Planning Poker to do Agile estimation.
- Here is a reference of <u>9 different Agile estimation</u> <u>techniques</u> for different circumstances.
- I have seen all of these techniques work in practice, except one.
- Try a new one each Sprint!

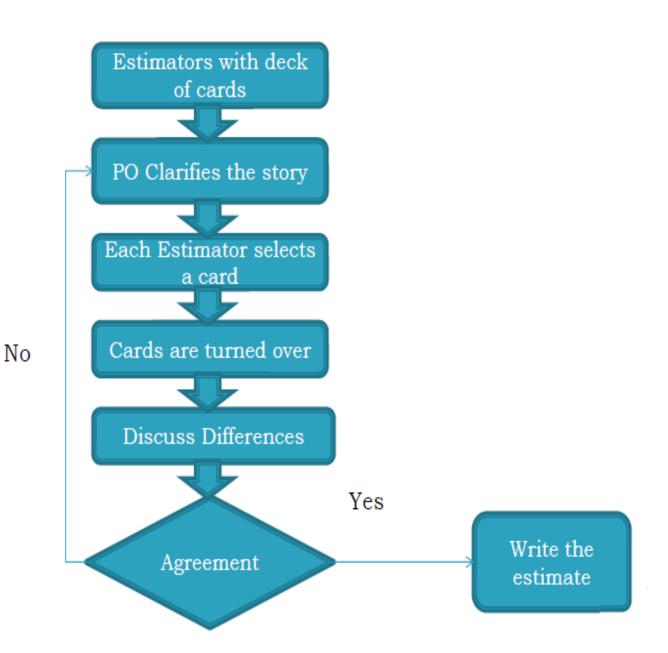
## How to write an Agile User Story



#### Planning poker [ www.pointingpoker.com ]

- A variation of the wide band Delphi method
- Team participates and user story points or ideal time
- The moderator(\*) reads out the story (\*product owner)
- Team discusses and each estimator turns over a card that represents their estimate
- High and low estimates are reconciled/clarified
- Future rounds show convergence, otherwise choose one of:
  - Choose majority estimate
  - Choose high estimate(s)
  - Average of the estimates
  - Adopt three point (PERT) averaging
    - [(P+4M+O)/6], Pessimistic, Most Likely, Optimistic

## Planning Poker Estimation flow





#### Multiple Vendors: Dev + QA + ALM + DevOps + UI +...



When multiple agile teams work on a project, they benefit from a common baseline for estimating story points.

#### The Product Owner introduces the user story by talking about:

- The motivation for doing the user story.
- The intended outcome and benefits.
- The scope of the user story (including what is not in scope with this user story).
- Other relevant considerations.



#### At this point, the team can ask questions like:

- What should happen in a given scenario?
- What should happen in some negative case or edge case (i.e. plausible but not common scenario)?
- Do we need to build this for one type, several user types or all users?
- Do we need to track any new performance metrics in order to understand if this user story is working as expected?

Of course, the team can ask as many questions as they want! These are just ideas of the type of things the team will ask the Product Owner.







- All the acceptance criteria is defined
- Story is fully groomed with the whole team including but not limited to Dev, QA, DA, DM, Architect, PO, and appropriate SMEs
- QA, Performance and UAT representatives should have had an opportunity to voice their concerns and provide input.
- Story is sized using the Normalized Uses Story Guidance
- Story can feasibly be completed within the sprint, including all tests, bug remediation, artifacts required, and enough time to demo the story successfully
- The tasks should be clear, time box-able, and as a collective, the tasks should add-up to the story point size being delivered.
- Dependencies and Risks are identified and captured
- Within TFS, stories with dependencies to other stories are to be tied using successor/predecessor linkages
- A story cannot be pulled into a sprint unless it will be free of dependencies during the sprint and have sufficient time to complete all tasks and demo successfully



### Examples of DoR...

- Big Picture/Why are we doing it?
- Description?
- Any specific NFRs for this story?
- Acceptance Criteria listed
- 8 SP or under
- Agreed Acceptance Criteria
- Resources in Story, API URLs, Contracts, documents if known
- Every Team member understands story
- How will we test it?
- What is NOT in scope for this story?
- List any existing questions
- Unknowns accepted or removed
- Assumptions Listed and accepted by team
- Design review task (does it need one?)
- Known refactoring included? tests that need adding? changing?
- Known tech debt we need to fix?

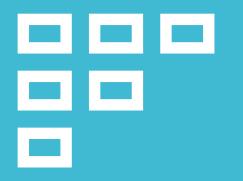




- Meets all acceptance criteria
- All coding has completed related to User Story
  - Coding Standards are followed
  - Code Review suggestions are either implemented or scheduled or future implementation
- All tasks are completed
- User stories are tested in appropriate environments
- No critical or high severity defects
- Required documentation
- Story has been successfully demo'ed (reviewed) and acceptance to the Product Owner







**A DYNAMIC** list of functionalities the product **MIGHT** include **Good** Product backlog should be **DEEP** 

- Detailed appropriately
- Emergent
- Estimated
- Prioritized

Open to all but ultimately groomed by Product Owner

Coined by Roman Pichler and Mike

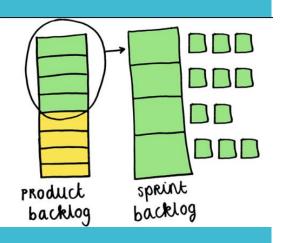




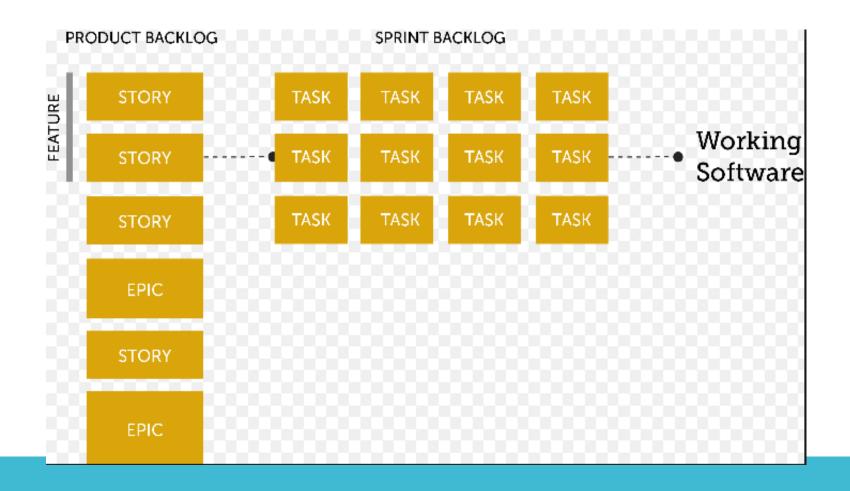




## Sprint Backlog



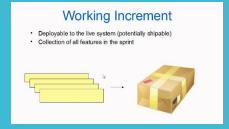
- Sprint Backlog defines the work that the team will perform to turn selected Product Backlog into a "Done" increment
- The list emerges during the sprint
- Each task has information about estimated amount of work remaining on the task on any given day during the sprint



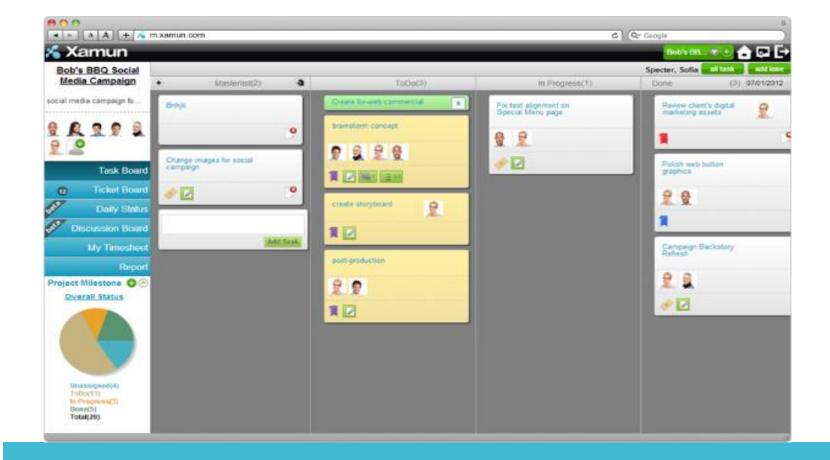
## Sprint Backlog



#### Increment



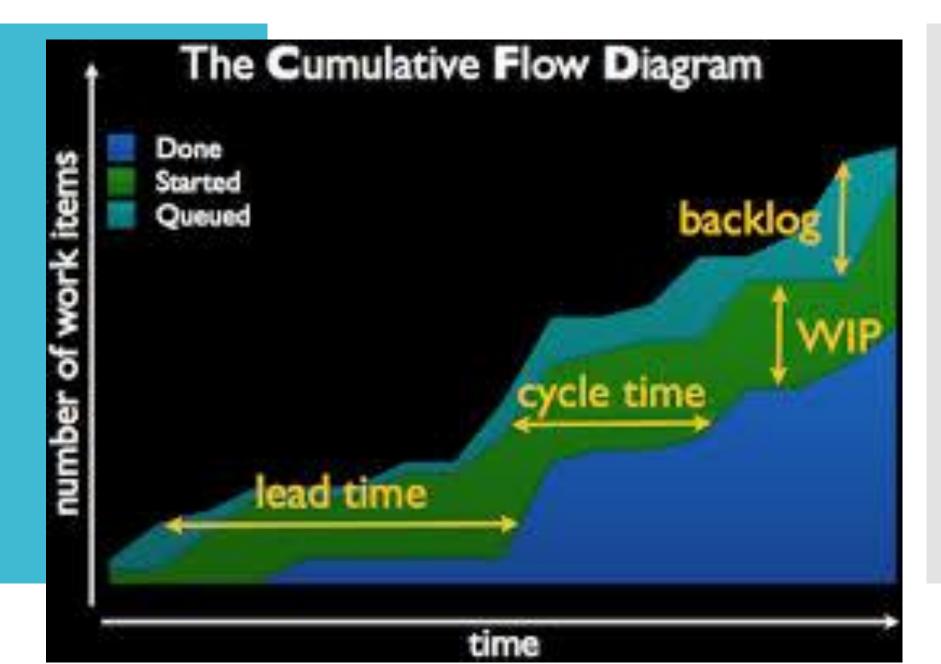
- Increment is the sum of all Product Backlog items completed during a sprint and all previous sprints
- At the end of a Sprint, the new Increment should "Done"
- It must be useable condition (Potentially Shippable Product)
- Release increments early and frequently Vs deliver the finished product in one go



#### Increments-Task Board

- Update in real time by picking work then move them on status change
- Track **DONE** only by having features only



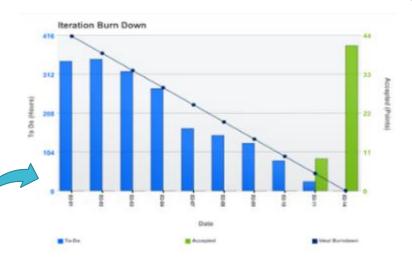


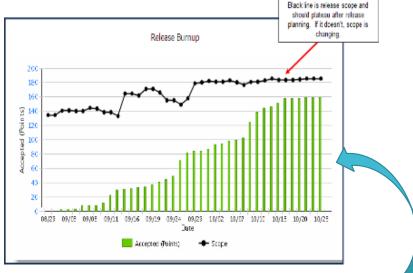


#### Increments Burn Down Charts

Updated daily, usually during the daily scrum
Represents the total amount of work remaining
Track **DONE** only

#### Burn Charts (Up & Down)

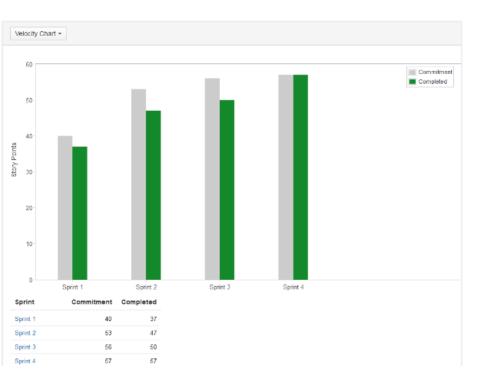


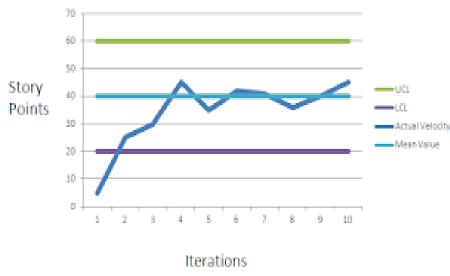


- A <u>burn down</u> chart is a graphical representation of work left to do versus time.
- The outstanding work (or backlog) is often on the vertical axis, with time along the horizontal.
- That is, it is a run chart of outstanding work.
   It is useful for predicting when all of the work will be completed.

- A <u>burn up</u> chart, tracks progress towards a projects completion.
- The Release Burnup displays the work delivered so far in the release versus the scope planned.
- It is reviewed to proactively (after every sprint optimally) to anticipate whether the release scope will be delivered.

Ref: Internal - Org Library

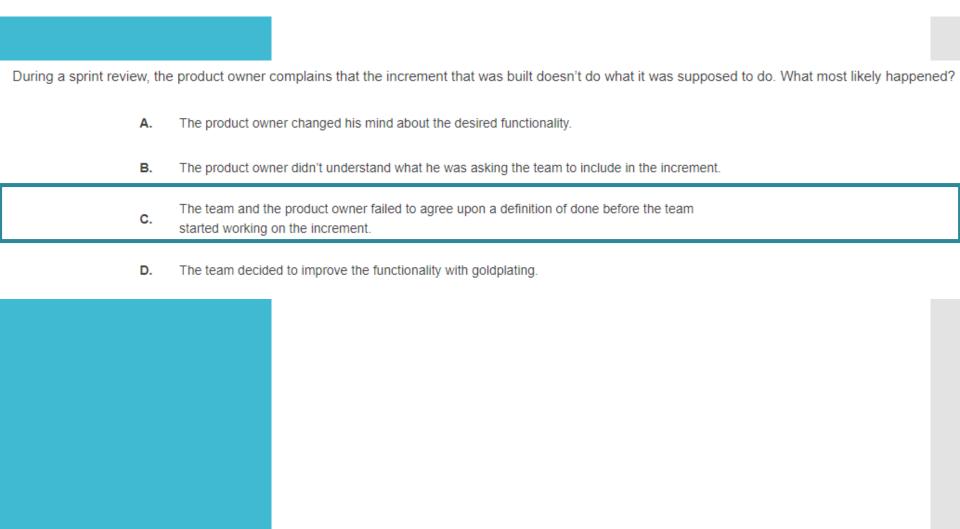




#### Velocity

is a measure of work the **Team** completes during a single Sprint and is calculated at Sprints end by totaling the Points of completed User Stories







## **Roles**

- Development Team
- Product Owner
- ScrumMaster

#### Artifacts

- Product Backlog
- Sprint Backlog
- Increment

#### Activities

- Product Backlog Refinement
- Sprint Planning
- Daily Scrum
- Sprint Review
- Sprint Retrospective

#### Values

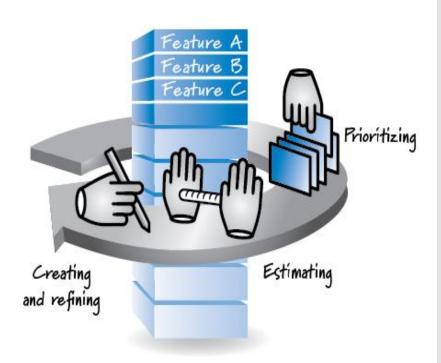
- Courage
- Openness
- Focus
- Commitment
- Respect

#### Product Backlog Refinement



- Keep the Product Backlog in order
- Remove or demote Product Backlog
   Items that no longer seem important
- Add or promote Product Backlog Items that raise or become more important
- Split Product Backlog Items into smaller items
- Merge Product Backlog Items into larger items
- Estimate Product Backlog

#### **Product Backlog refinement**



# Product Backlog Refinement vs. Delivery

- A continuous activity effort than a formal sprint activity
   NOT A TIME BOX
- PO AND DEVELOPMENT TEAM work together to prepare for the upcoming Sprints
- Typical goals of Product Backlog Refinement activity:
  - Everyone is clear about the requirement backlog meets DoR
  - Product Backlog Items targeted to the next sprint are SMALL ENOUGH



## Capacity Planning



In the middle of a sprint halfway through the project, a competitor comes out with new functionality that clearly surpasses what the team is trying to achieve during the sprint. What should the ScrumMaster do?

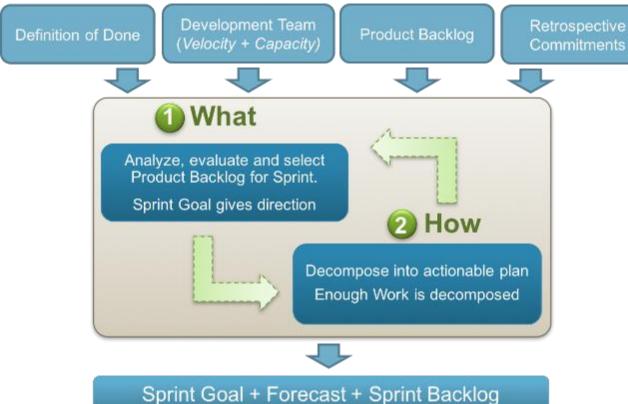
- A. Cancel the sprint so the team can redefine the user stories guiding the work for that increment.
- B. Dedicate the rest of the sprint to determining whether the new functionality is something the team should be building for the project.
- c. Try to identify why this new functionality was missed during the research leading up to the project.
- D. Ask the product owner whether the goal of the sprint is still appropriate.



## Sprint Planning

#### **Sprint Planning Meeting**





## Sprint Planning

## Sprint Planning

- Team selects items from the product backlog they can commit to completing
- Sprint backlog is created
  - Task are identified and each are estimated (1 – 16 hours)
  - Collaboratively, not done alone by the Scrum Master
- High-level design is considered



## Daily Scrum Meeting

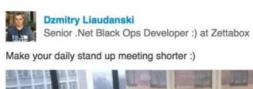


### Daily Scrum Meeting



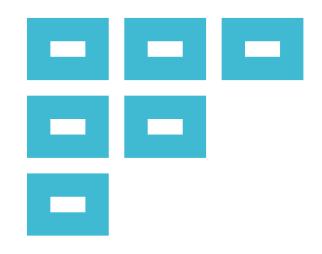
#### Why Daily Scrum?

Access progress towards sprint goal
Fine-grain coordination
Daily commitment
Raising impediments
Peer pressure





Like - Comment - Share - \$5216 \$405



## Sprint Review



#### **SPRINT REVIEW MEETING**







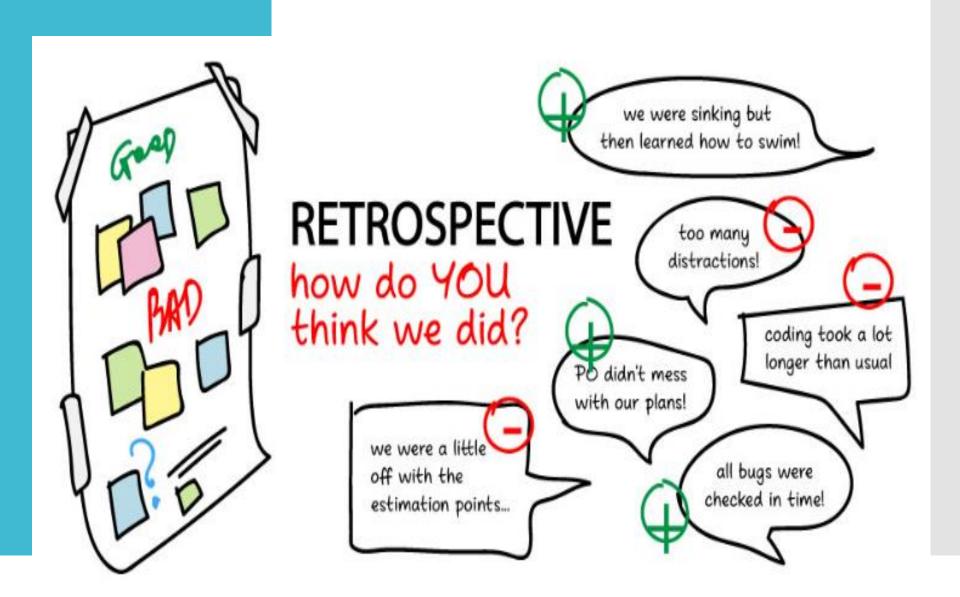






## Sprint Retrospective

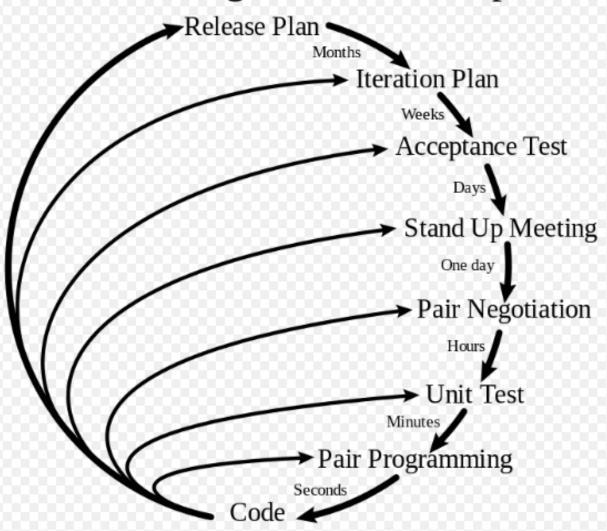








### Planning/Feedback Loops





# **Roles**

- Development Team
- Product Owner
- ScrumMaster

# Artifacts

- Product Backlog
- Sprint Backlog
- Increment

## Activities

- Product Backlog Refinement
- Sprint Planning
- Daily Scrum
- Sprint Review
- Sprint Retrospective

# Values

- Courage
- Openness
- Focus
- Commitment
- Respect







## Rapid Fire

Sprint starts with which ceremony?

**Sprint Planning Meeting** 

Sprints ends with which ceremony?

**Sprint Retrospective** 

Which ceremony happens every day?

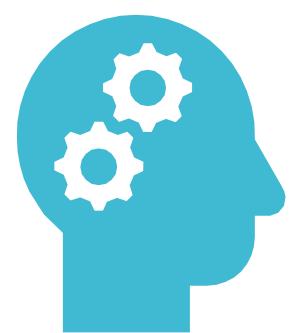
Daily Stand-up

Which scrum ceremony stakeholders allow to speak?

**Sprint Demo** 

5. Who write the user stories?

- A. The team
- B. The customer
- C. The users
- D. The testers



# QUIZ...

#### QUIZ...

- 6. Which of the following reports visually shows the remaining estimated workload over the course of the project?
  - A. Sprint Chart
  - B. Gantt Chart
  - C. Product Backlog Burn up report
  - D. Product Backlog Burndown Report



#### QUIZ...

#### 7. Product Backlog is owned by?

- A. Scrum Master
- B. The Team
- C. The Product Owner
- D. None of the above

#### QUIZ...

- 9. The number of stories a team can deliver in an iteration is known as
  - a. Velocity
  - b. Cycle time
  - c. Burn rate
  - d. Capacity

#### 10. When a release burndown chart show a bump

- A. Actual velocity is less than the planned velocity
- B. Story got re-prioritized after first iteration
- C. Work has been added to the release
- D. Work has been removed from the release





## Artifacts





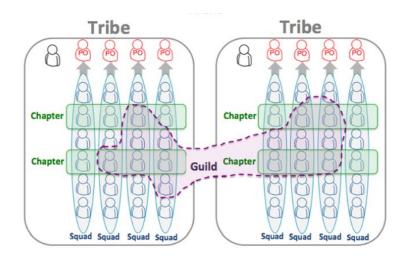




## A road Ahead

Waterfall to Agile to Squads...



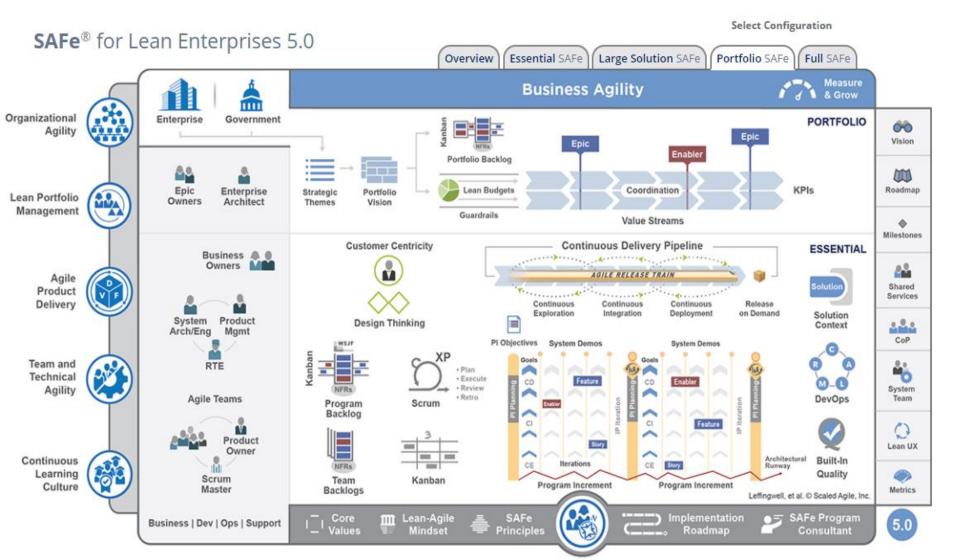


#### Squad



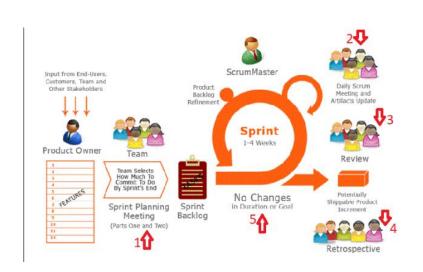
- √ "Feel like a mini-startup"
- ✓ Self-organizing
- ✓ Cross-functional
- √ 5-7 engineers, less than 10
- √ Stable

Mature Agile Organization Team Structure...



Lean-Agile Leadership

#### **Enterprise Agile Implementation SAFe Framework**





Scrum is lightweight, simple to understand but extremely difficult to master and implement well

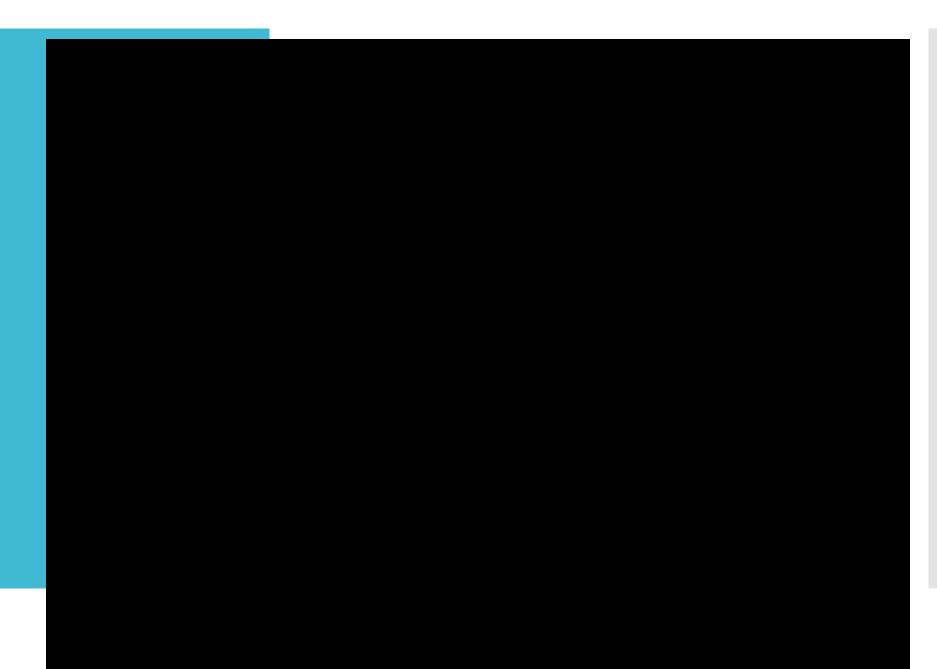
- Ken



"There is a perfect ant, a perfect bee, but man is perpetually unfinished...Moreover, the incurable unfinishedness keeps man perpetually immature, perpetually capable of learning and growing."

Eric Hoffer









How was your journey towards being agile, share your thoughts....

- Feel free to share....
  - Feedback
  - Comments
  - Suggestions...



# Affinity Mapping

Items are grouped by similarity

– where similarity is some
dimension that needs to be
estimated.

This is usually a very physical activity and requires a relatively small number of items (20 to 50 is a pretty good range).

The groupings are then associated with numerical estimates if desired.



# Ordering Protocol

- Items are placed in a random order on a scale labeled simply "low" to "high". Each person participating takes turns making a "move".
- A move involves one of the following actions:
  - change the position of an item by one spot lower or one spot higher, talking about an item, or passing.
  - If everyone passes, the ordering is done.
- The <u>Challenge</u>, <u>Estimate</u>, <u>Override</u> and the <u>Relative</u> <u>Mass Valuation</u> methods are variations on the ordering protocol.



### Divide until Maximum Size or Less



The group decides on a maximum size for items (e.g. 1 person-day of effort).



Each item is discussed to determine if it is already that size or less.



If the item is larger than the maximum size, then the group breaks the item into sub-items and repeats the process with the sub-items.



This continues until all items are in the allowed size range.