

#### Scrum Basics

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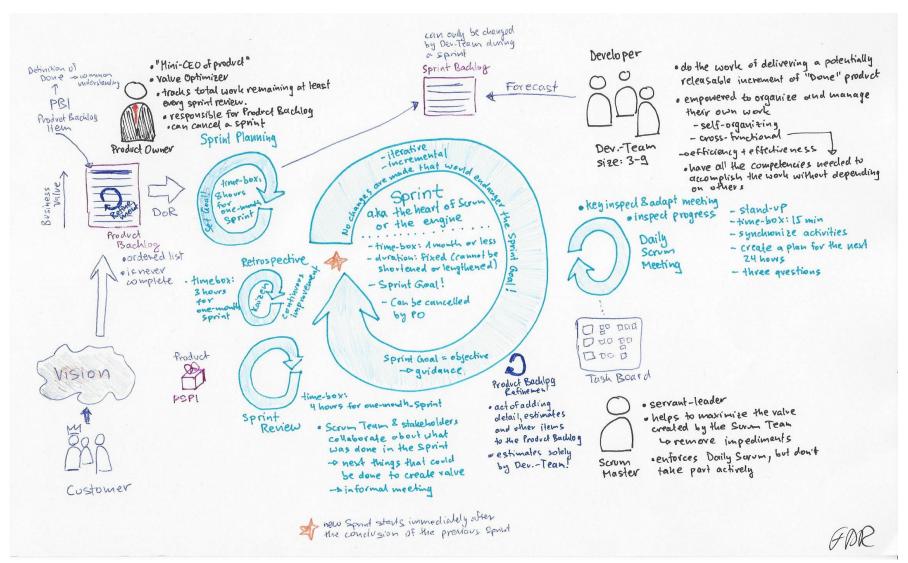
### Scrum Fundamentals

according to <u>Scrum Guide™</u> of July 2016

### Scrum (n.)

A framework within which people can address complex adaptive problems, while productively and creatively delivering products of the highest possible value.

#### Scrum Overview



Scrum Basics

### **Scrum**Overview

- 3 Roles
  - Product Owner
  - Scrum Master
  - Developer
- 3 Artifacts
  - Product Backlog
  - Sprint Backlog
  - Potential Shippable Product Increment (PSPI)

- 5 Events
  - Sprint
  - Sprint Planning
  - Sprint Review
  - Sprint Retrospective
  - Daily Scrum (Stand-Up)

### **Scrum**Overview

- Scrum Team consists of
  - Product Owner
  - Scrum Master
  - Developer
- Team is self-organized and cross-functional, meaning that they have all competencies needed to accomplish the work without depending on others.

- Based on empirical process control (empiricism)
  - Transparency
  - Inspection
  - Adaption
- Key inspect and adapt events are:
  - Daily Scrum
  - Sprint Retrospective
  - Sprint Review

## Product Owner «Mini-CEO of the Product»

- Maximizing the value of the product and the work of the development team («Value Optimizer»)
- Responsible for product backlog
- Can cancel a sprint

#### Scum Master Servant Leader

- Servant-leader
- Helps maximize the value created by the Scrum Team
   remove impediments
- Enforces Daily Scrum, but don't take part actively in it
- Scrum teacher

# **Developer**Dev-Team: self-organizing and cross-functional

- Title: Developer
- Do the work of delivering a potentially releasable increment of «Done» product
- Empowered to organize and manage their own work
- Self-organizing
- Cross-functional

# Product Backlog Living artifact

- The Product Backlog is an ordered list of everything that might be needed in the product.
- Responsible for the Product Backlog is the Product Owner.
- A Product Backlog is never complete.
- As long as the product exists, its backlog also exists.
- The Product Backlog is dynamic; it constantly changes to identify what the product needs to be appropriate, competitive, and useful.
- Requirements never stop changing, so a Product Backlog is a living artifact.

# Sprint Backlog Forecast about upcoming functionality

- The Sprint Backlog is the set of Product Backlog items selected for the Sprint, plus a plan for delivering the product Increment and realizing the Sprint Goal.
- The Sprint Backlog is a forecast by the Development Team about what functionality will be in the next Increment and the work needed to deliver that functionality into a "Done" Increment.

  (Note: in the older Scrum Guide (2013) they talked about a Dev.-Teams commitment to a Sprint, now it's "only" a forecast.)
- The Sprint Backlog makes visible all of the work that the Development Team identifies as necessary to meet the Sprint Goal.

#### **PSPI**

#### Potential Shippable Product Increment

- The Increment is the sum of all the Product Backlog items completed during a Sprint and the value of the increments of all previous Sprints.
- At the end of a Sprint, the new Increment must be "Done," which means it must be in useable condition and meet the Scrum Team's definition of "Done."
- It must be in useable condition regardless of whether the Product Owner decides to actually release it.

# **Sprint**The heart of Scrum

- Time-box: One month or less
- Sprints best have consistent durations throughout a development effort.
- A new Sprint starts immediately after the conclusion of the previous Sprint.
- PSPI is created during a Sprint
- During the Sprint:
  - No changes are made that would endanger the Sprint Goal;
  - Quality goals do not decrease; and,
  - Scope may be clarified and re-negotiated between the Product Owner and Development Team as more is learned.
  - Sprint can be cancelled by Product Owner, e.g. when the Sprint Goal becomes obsolete. But, due to the short duration of Sprints, cancellation rarely makes sense.

## Sprint Planning collaborative way to set the plan for a Sprint

- Time-box: 8 hours/one month Sprint
- Event to create the plan for a Sprint, means the work to be performed in the Sprint. This plan is created by the collaborative work of the entire Scrum Team.
- Sprint Planning I: What can be delivered in the Increment resulting from the upcoming Sprint?
- Sprint Planning II: How will the work needed to deliver the Increment be achieved?
- The Sprint Goal is an objective set for the Sprint that can be met through the implementation of Product Backlog and provides guidance to the Development team during a Sprint.

# Sprint Review inspect the increment and adapt if necessary

- Time-box: 4 hours/one month Sprint
- A Sprint Review is held at the end of the Sprint to inspect the Increment and adapt the Product Backlog if needed.
- It's an informal meeting, not a status meeting
- the presentation of the Increment is intended to elicit feedback and foster collaboration.
- During the Sprint Review, the Scrum Team and stakeholders collaborate about what was done in the Sprint.
- Based on that and any changes to the Product Backlog during the Sprint, attendees collaborate on the next things that could be done to optimize value.

## Sprint Retrospective continuous improvment

- Time-box: 3 hours/one month Sprint
- The Sprint Retrospective is an opportunity for the Scrum Team to inspect itself and create a plan for improvements to be enacted during the next Sprint.
- The purpose of the Sprint Retrospective is to:
  - Inspect how the last Sprint went with regards to people, relationships, process, and tools;
  - Identify and order the major items that went well and potential improvements; and,
  - Create a plan for implementing improvements to the way the Scrum Team does its work.

#### Daily Scrum Stand-Up

- Time-box: 15 minutes
- Held at the same time and place each day to reduce complexity
- Event for the Development Team to synchronize activities and create a plan for the next 24 hours.
- This is done by inspecting the work since the last Daily Scrum and forecasting the work that could be done before the next one.
- During the meeting, the Development Team members explain:
  - What did I do yesterday that helped the Development Team meet the Sprint Goal?
  - What will I do today to help the Development Team meet the Sprint Goal?
  - Do I see any impediment that prevents me or the Development Team from meeting the Sprint Goal?

#### Disclaimer

- Information is based on <u>Scrum Guide™</u> of July 2016
- If you prepare for a Certificate (e.g. Professional Scrum Master), you can take the Open Assessments on scrum.org to see if you are ready or not.

https://www.scrum.org/Assessments/Open-Assessments