

SCRUM

an introduction

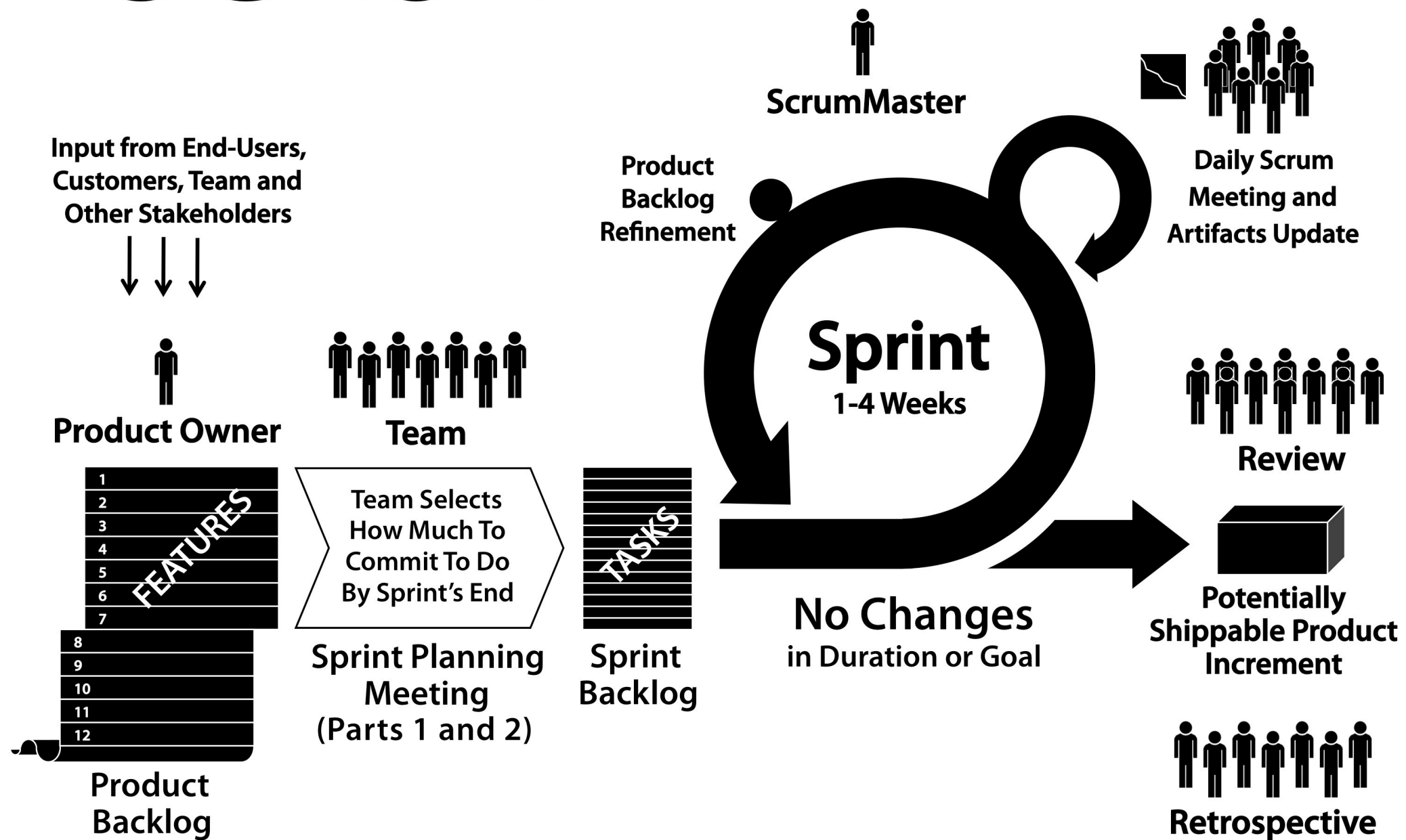
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1. Introduction

- Scrum is a framework for building a product following the values of the agile manifesto
- Scrum is a team process - trust in the team
- inspect and adapt

SCRUM



2. Roles

- Product Owner
- (Development) Team Member
- Scrum Master

2. Roles

Product Owner (PO)

- typically the person closest to the “business side” - manages the stakeholders of the project
- responsible for drawing out the most valuable possible product - has the vision
- maintains the Product Backlog and knows what the priorities are
- decides WHAT the Development Team should do next

2. Roles

Development Team

- cross-functional group of people with all skills available
- self-organized
- responsible for accomplishing the Sprint goal
- forecast how much they can do in the Sprint and decide HOW to do the work

2. Roles

Scrum Master

- “servant leader” helping the Team follow their process (supports PO and Team)
- cares for removing impediments to the team’s progress and protects the Team from internal and external distractions
- responsible for ensuring that Scrum is understood

3. Artifacts

- Product Backlog
- Sprint Backlog
- Product Increment

3. Artifacts

Product Backlog

- ordered list of ideas for the product (e.g. User Stories)
- each item includes a description and estimate, acceptance tests are recommended
- maintained by the Product Owner

3. Artifacts

Sprint Backlog

- ordered list of refined PBacklog items (tasks) chosen for the current Sprint
- maintained by the Dev Team

3. Artifacts

Product Increment

- every Sprint produces a product increment
- must meet acceptance criteria (Definition of Done)
- each component of it is acceptable to the PO

4. Activities / Meetings

- Sprint Planning I + II
- Daily Scrum
- Sprint Review
- Sprint Retrospective
- Product Backlog Refinement

4. Activity / Meeting

Sprint Planning

- select and understand the work to be done in the upcoming Sprint, result: Sprint Backlog
- define length of upcoming Sprint (1-4 weeks)
- two parts:

Planning I: determine WHAT work will be completed in Sprint

Planning II: determine HOW the work will be accomplished



max. 2h per Sprint week at the beginning of the Sprint

4. Activity / Meeting

Sprint Planning I - WHAT

- PO presents the relevant PBacklog items to the Team and whole Team gets to a common understanding of the work to be done
- rough estimation of the items (S, M, L)
- Sprint commitment: Team decides on how much work can fit into the Sprint
- attendees: whole Scrum Team (PO, Scrum Master, Dev Team)

4. Activity / Meeting

Sprint Planning II - HOW

- Dev Team decides on HOW to produce the next product increment (according to Definition of Done)
- break down of PB items into small dev tasks (Sprint Backlog)
- Estimation of the tasks (hours/days)
- attendees: Dev Team, Scrum Master, PO should be readily available

4. Activity / Meeting

Daily Scrum

- communication meeting for brief clarifying questions (no discussions!)
- share information on
 - what has been accomplished since last Daily Scrum
 - what is planned to accomplish till next Daily Scrum
 - are there any impediments



max. 15min, same time and place every day

- attendees: whole Scrum Team

4. Activity / Meeting

Sprint Review

- discussion about the Product Increment completed during Sprint (e.g. demonstration)



max. 1h per Sprint week at the end of the Sprint

- attendees: whole Scrum Team, Stakeholders may

4. Activity / Meeting

Sprint Retrospective

- review how things went with respect to
 - the process
 - the relationships among people
 - the tools
- result: plan for improvement



max. 1h per Sprint week at the end of the Sprint

- attendees: whole Scrum Team

4. Activity / Meeting

Product Backlog Refinement

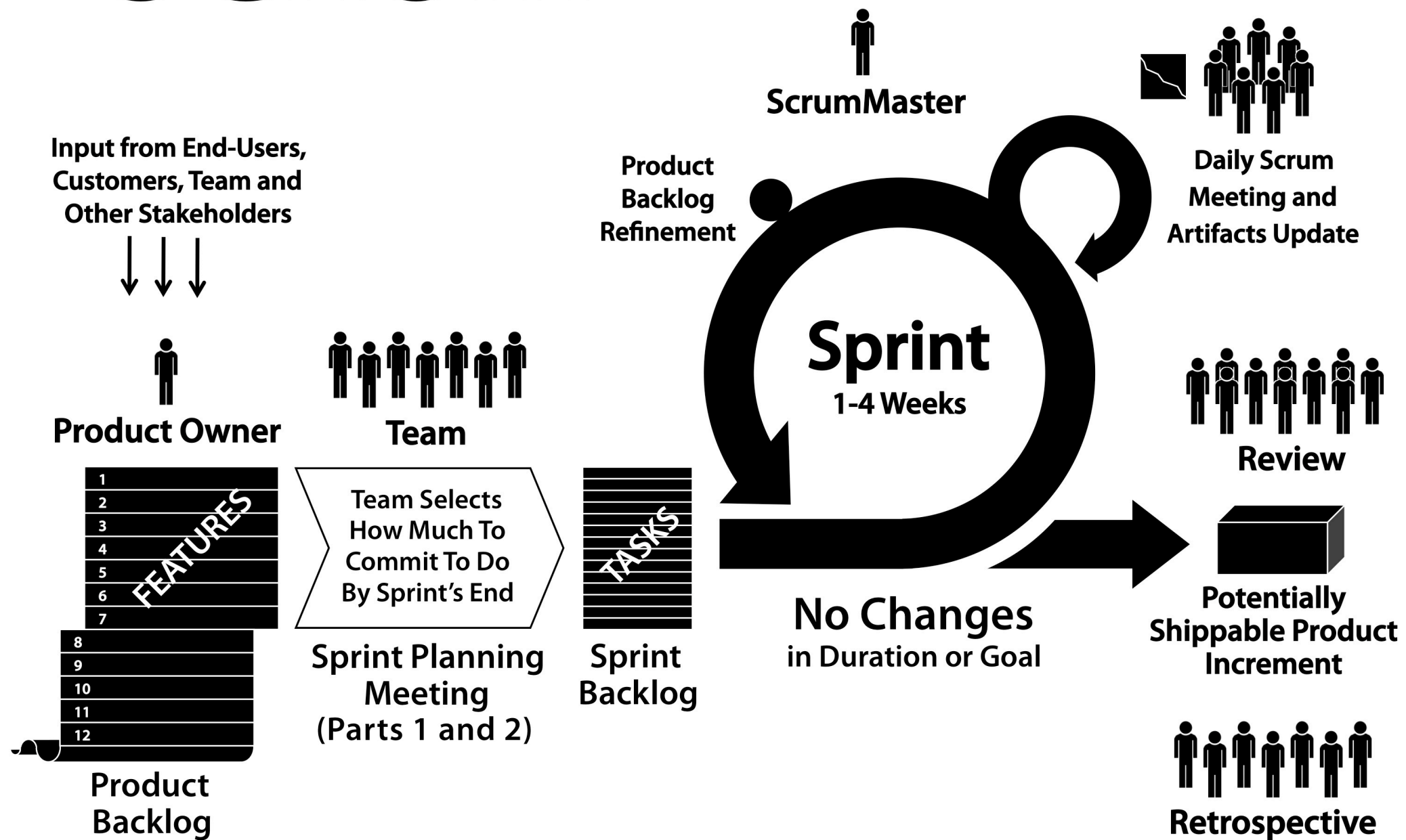
- serves as preparation for upcoming Sprint
- deals with keeping Product Backlog up to date
 - adjust order, remove / add items
 - split items into smaller items / merge into larger
 - estimate items



during Sprint

- attendees: PO and ideally all the Team members or at least a representative for each skill

SCRUM



5. Our Process

- agreement on...
 - team roles
 - PO: _
 - Scrum Master: _
 - Dev Team: _
 - sprint length
 - tools, tracking

Definition of Done

- Team wide shared understanding of what *done* means
- evolved by the whole team
- defines e.g. that the Product Increment...
 - is of high enough quality to be shippable
 - includes the functionality of all previous PIs
 - is fully tested

User Story

- technique for representing P.Backlog items
- describes new or changed functionality that will be valuable to an external stakeholder
- contains:
 - description (e.g. “As a *<type of user>* I want *<some goal>* so that *<some reason>*”)
 - conversation about the story - details!
 - acceptance tests (used to determine when a story is complete)

Agile Manifesto

- **Individuals and interactions** over process and tools
- **Working software** over comprehensive documentation
- **Customer collaboration** over contract negotiation
- **Responding to change** over following the plan