

Agile Methodology: For Developers

Session 2

Agenda

- ▶ Introduction to SCRUM
- ▶ The Agile Manifesto
- ▶ SCRUM Framework
- ▶ SCRUM Roles, Ceremonies, Artifacts
- ▶ Daily Standup Meeting Agenda
- ▶ In class Interactive Exercise

Introduction to SCRUM

- ▶ Is an agile, **lightweight** process
- ▶ Can **manage** and **control** software and product development
- ▶ Uses iterative, incremental practices
- ▶ Has a **simple** implementation
- ▶ Increases productivity
- ▶ Reduces **time to benefits**
- ▶ Embraces **adaptive**, empirical systems development
- ▶ Is not restricted to software development projects
- ▶ Embraces the **opposite of the waterfall** approach

The Agile Manifesto

Individuals and
interactions

over

Process and tools

Working software

over

Comprehensive
documentation

Customer
collaboration

over

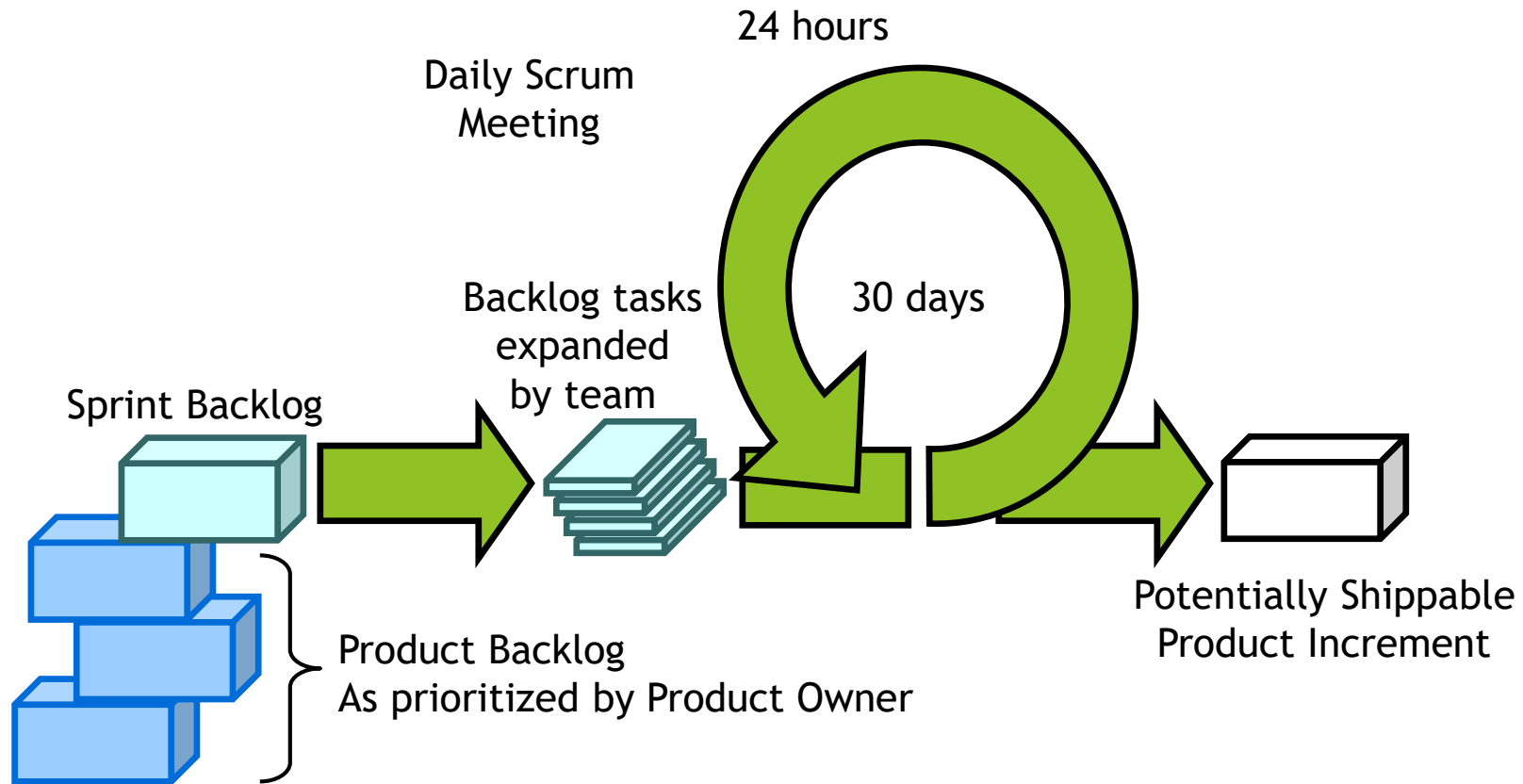
Contract negotiation

Responding to
change

over

Following a plan

SCRUM Framework at a Glance



SCRUM Framework - Roles, Ceremonies, Artifacts

Roles

- Product owner
- Scrum Master
- Team

Ceremonies

- Sprint planning
- Sprint review
- Sprint retrospective
- Daily scrum meeting

Artifacts

- Product backlog
- Sprint backlog
- Burndown charts

SCRUM roles - Defined

- ▶ Product Owner

- ▶ Possibly a Product Manager or Project Sponsor
- ▶ Decides features, release date, prioritization, \$\$\$



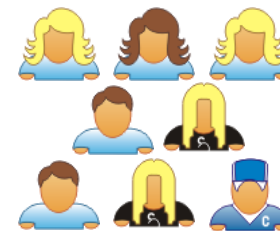
- ▶ Scrum Master

- ▶ Typically a Project Manager or Team Leader
- ▶ Responsible for enacting Scrum values and practices
- ▶ Remove impediments / politics, keeps everyone productive

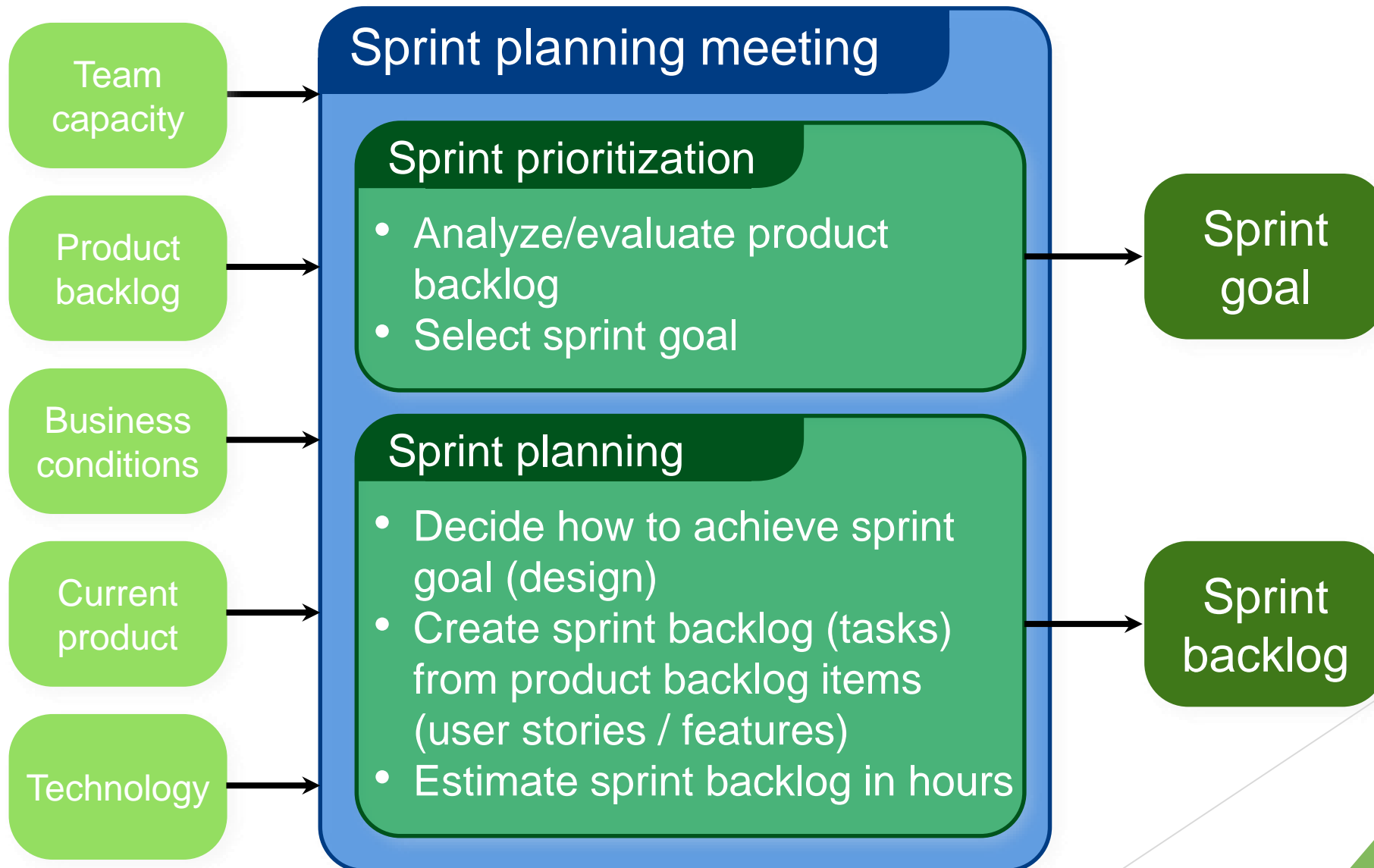


- ▶ Project Team

- ▶ 5-10 members; Teams are self-organizing
- ▶ Cross-functional: QA, Programmers, UI Designers, etc.
- ▶ Membership should change only between sprints



SCRUM Ceremonies - Sprint Planning



Daily Scrum/Standup Meeting

- ▶ Parameters
 - ▶ Daily, ~15 minutes, Stand-up
 - ▶ Anyone late pays a \$1 fee
- ▶ Not for problem solving
 - ▶ Whole world is invited
 - ▶ Only team members, Scrum Master, product owner, can talk
 - ▶ Helps avoid other unnecessary meetings
- ▶ Three questions answered by each team member:
 1. What did you do yesterday?
 2. What will you do today?
 3. What obstacles are in your way?

In Class Interactive Exercise

- ▶ Students can split up into SCRUM team members
- ▶ Mini in-class project on library management system

Open for Questions

► Thank You