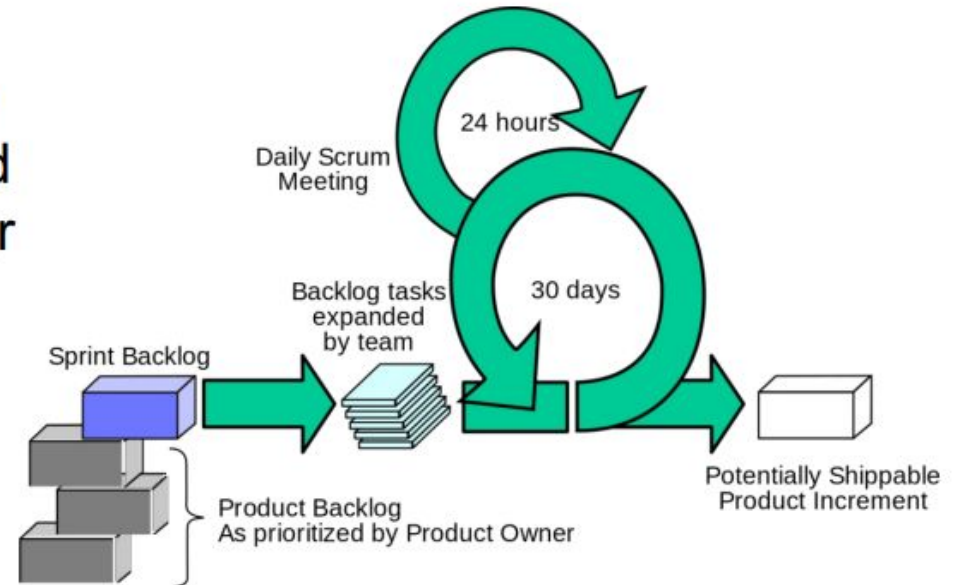# Group session IN5140

Agile teams - roles, practices, and challenges

Recap

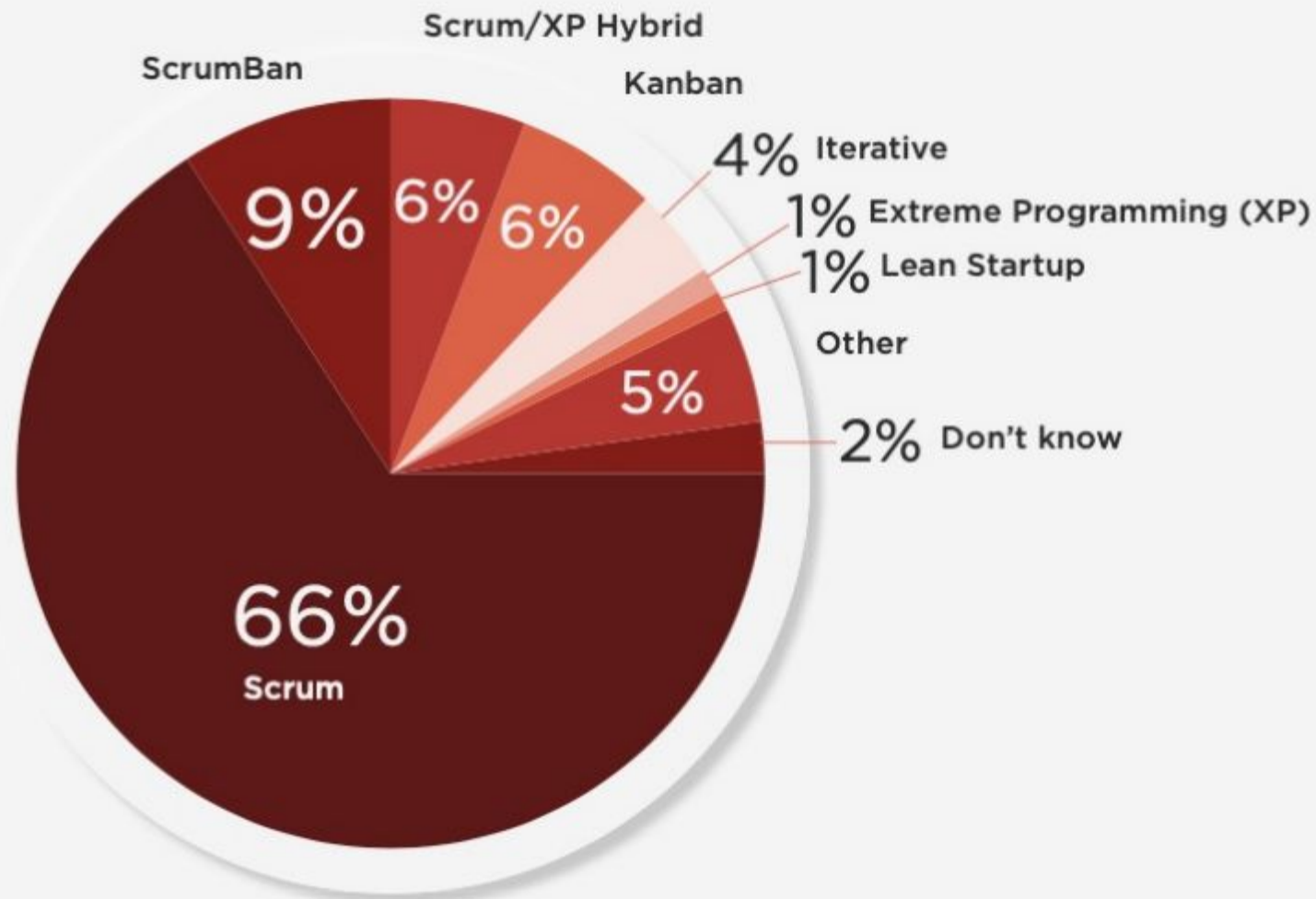## What is Agile software development?

- **«Agile»** refers to a set of **iterative** approaches to software delivery that builds software **incrementally** from the start of the project, instead of trying to deliver it all at once near the end.
  - An iteration is a cycle in the development
    - Popularly known as a sprint
  - An increment is a subset of requirements for the system
    - For example, backlog items, user stories

24 hours

Daily Scrum Meeting

Backlog tasks expanded by team

30 days

Sprint Backlog

Product Backlog As prioritized by Product Owner

Potentially Shippable Product Increment

Which agile methodology do you think most teams use?

Results from a large international survey →

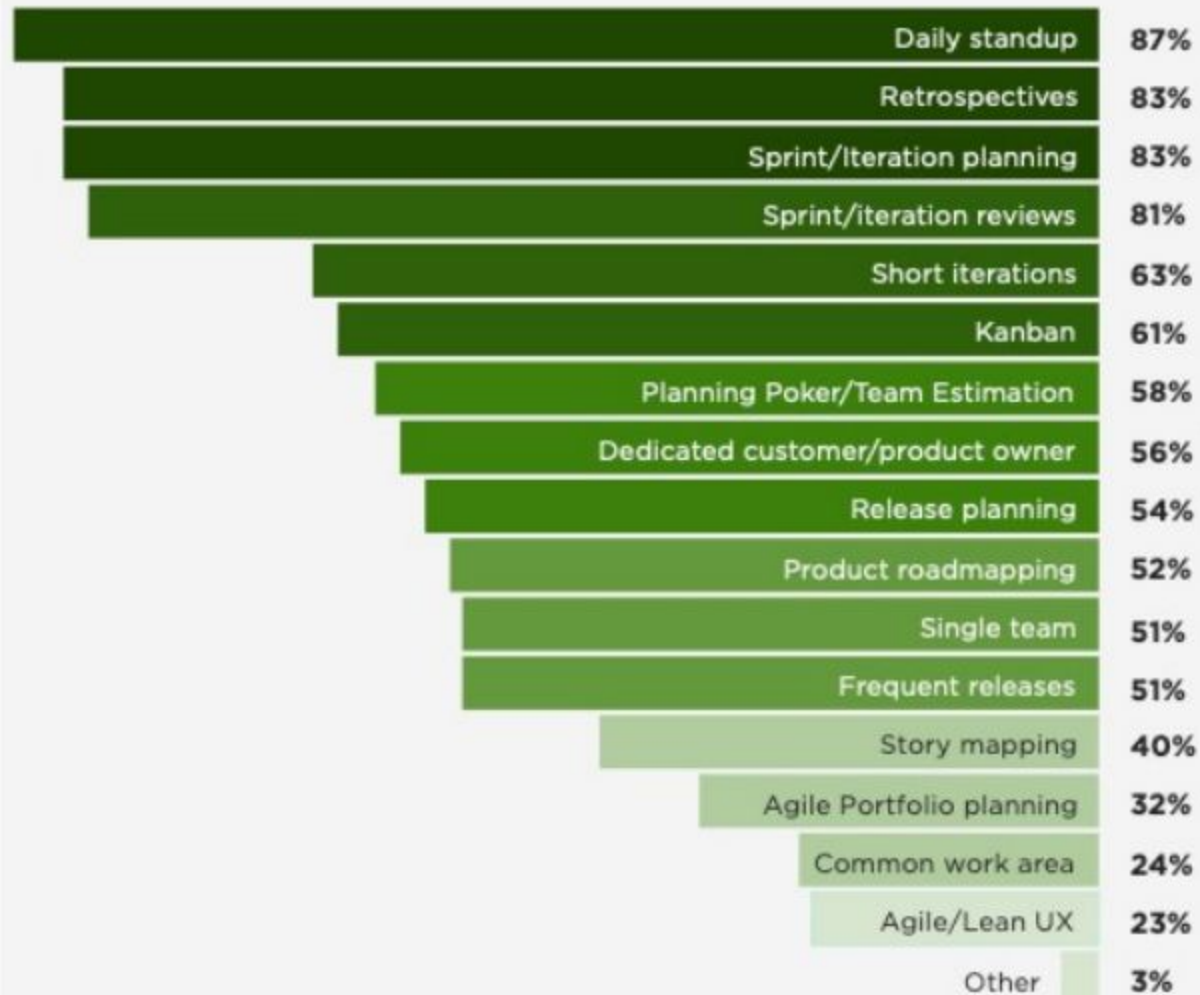**Which Agile methodology do you follow most closely at the team level?**

- ScrumBan — 9%
- Scrum/XP Hybrid — 6%
- Kanban — 6%
- Iterative — 4%
- Extreme Programming (XP) — 1%
- Lean Startup — 1%
- Other — 5%
- Don't know — 2%
- Scrum — 66%

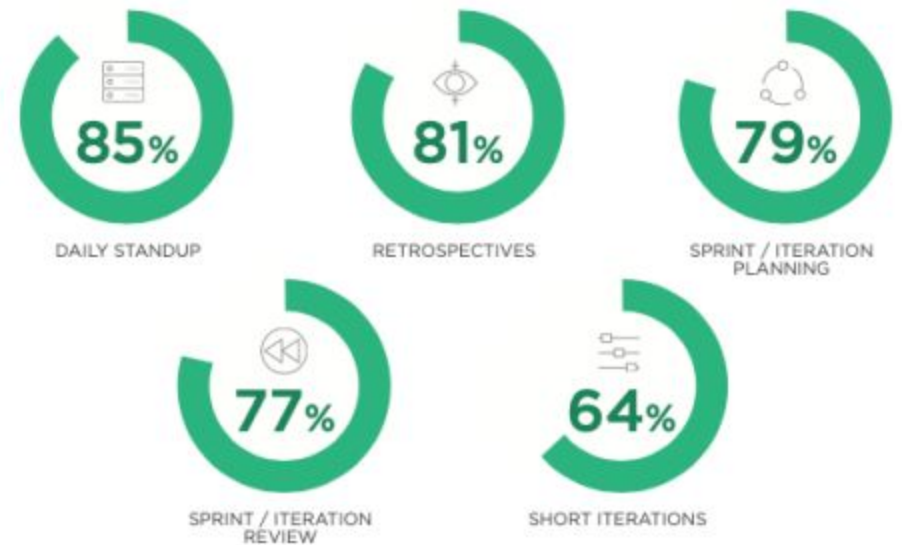Digital.ai | 15th State of Agile Report

3. AGILE TEAM PRACTICES
(chapter 6)

The most popular agile practices

Which of the following Agile techniques and practices does your organization use?

Practice	%
Daily standup	87%
Retrospectives	83%
Sprint/Iteration planning	83%
Sprint/iteration reviews	81%
Short iterations	63%
Kanban	61%
Planning Poker/Team Estimation	58%
Dedicated customer/product owner	56%
Release planning	54%
Product roadmapping	52%
Single team	51%
Frequent releases	51%
Story mapping	40%
Agile Portfolio planning	32%
Common work area	24%
Agile/Lean UX	23%
Other	3%

TOP 5 AGILE TECHNIQUES

85% DAILY STANDUP

81% RETROSPECTIVES

79% SPRINT / ITERATION PLANNING

77% SPRINT / ITERATION REVIEW

64% SHORT ITERATIONS

Digital.ai, "Annual State of Agile Report"
https://digital.ai/resource-center/analyst-reports/state-of-agile-report/

Question 1

Which roles are typically part of a Scrum team? (1p)

A) Business Analyst, Data Scientist and Developer

B) Scrum Master, Product Owner and Tech lead

C) Scrum Master, Product Owner and Development Team

D) Developer, Tester and Designer

Question 2

According to agile principles, what is the most efficient way to share information in a development team? (1p)

A) Documentation

B) Task boards like Scrumboards or Kanbanboards

C) Face-to-face communication

D) Slack

Question 3

On a typical agile team, who are likely to have the best insight into task execution? (1p)

A) Project Manager

B) Team members

C) Scrum Master

D) Agile Coach

Question 4

Which agile methodology is most commonly used today? (1p)

A) Lean Startup
B) ScrumBan
C) *Scrum*
D) eXtreme Programming (XP)

Question 5

According to agile principle #11, <u>the best what or who</u> emerges from self-organizing teams? (1p)

A) Architectures, requirements and designs

B) Documentation and code reviews

C) Product Managers and Product Owners

D) Coordination problems and bottlenecks

Question 6

Pair the following sentences so they fit

(1 p per correct pair!)

Individuals and interactions over…	…processes and tools
Working software over…	…comprehensive documentation
Customer collaboration over…	…contract negotiation
Responding to change over…	…following a plan

Bonus question (1p): What did you just pair?
The agile manifesto 😊

Question 7

Which of the following is true for a cross-functional team? (1p)

A) All team members have firmly dedicated roles

B) The team has only front-end developers and designers

C) All team members can work on the same tasks

D) The team follows the Waterfall model

Question 8

According to agile principle #12, <u>at regular intervals</u>, the team should do what? (1p)

A) Celebrate!

B) Work slower to send signals to management

C) Reflect on their own practices

D) Perform code refactoring

Question 9

For how long should a sprint planning meeting last? (1p)

A) The meeting is not used in agile teams

B) Maximum 3 hours

C) 15 minutes per day

D) 1 hour per sprint week

Question 10

Which of these are typical challenges in large-scale agile? (1p per correct)

A) *Dependencies between teams*

B) Documentation and code reviews

C) Too many managers

D) *Lack of overview*

Discussion question

You can keep the quiz groups!

Consider your teamwork in your group project in IN5140

Discuss the following questions:

1) What has been challenging in the teamwork?

2) What has worked well?

Share some thoughts with the other groups.

You can keep the quiz groups!

Consider your teamwork in your group project in IN5140

Discuss the following questions:

3) Have you used any agile practices or techniques?

4) During the course, have you learned about practices that could have been relevant for your group?

Share some thoughts with the other groups.