# Agile Project Management



ISEN Master 1 - 2025



20/01/2025

# Questions from last Module?



# Introduction to SAFe, sprint execution, and retrospective

Module 3

#### **Goals of Module 3**

1

Understand the basics of the Scaled Agile Framework (SAFe) for managing large-scale projects.

2

Execute a sprint using the concepts of Scrum and Kanban.

3

Know how to run an effective retrospective.

### Agenda -Theoretical Part

#### **Introduction to SAFe (Scaled Agile Framework):**

- Overview of SAFe and why large organizations are adopting it.
- SAFe levels
- Key roles
- SAFe events

#### **Sprint Execution:**

- The Daily Scrum: objectives and best practices.
- Manage the unexpected
- Integrating Kanban practices into the Scrum workflow.

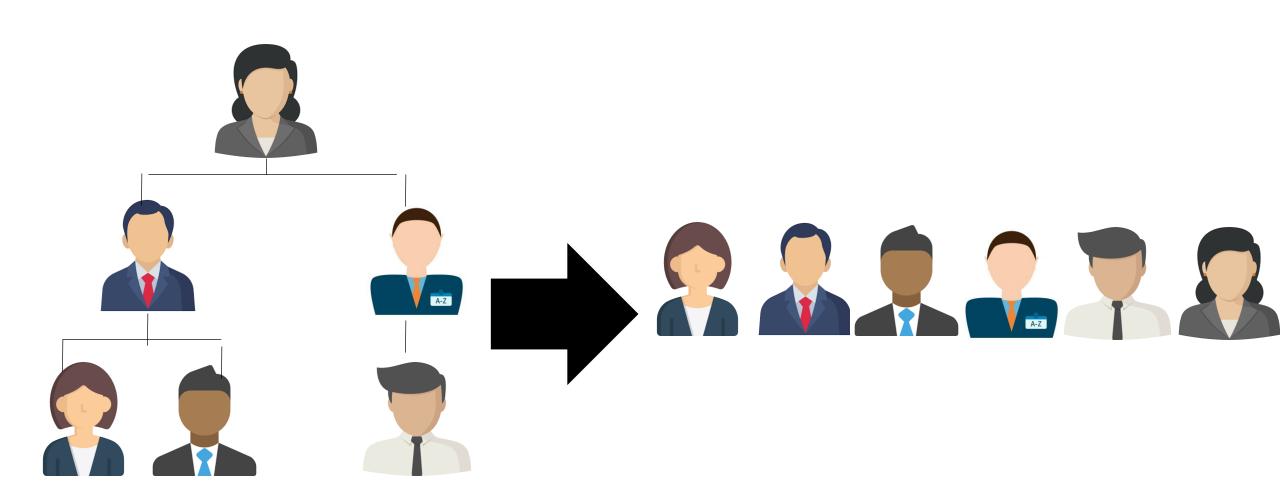
#### **Sprint Review and Retrospective:**

- Preparation and conduct of the sprint review.
- Techniques for a constructive retrospective
- Importance of stakeholder feedback and integration into the PI if in SAFe.

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## Reminder: Agile Team & Personnas

## Agile team

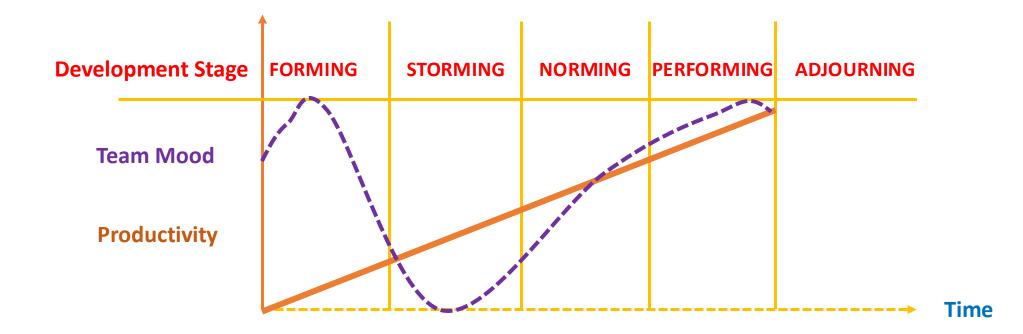


## Tuckman Model

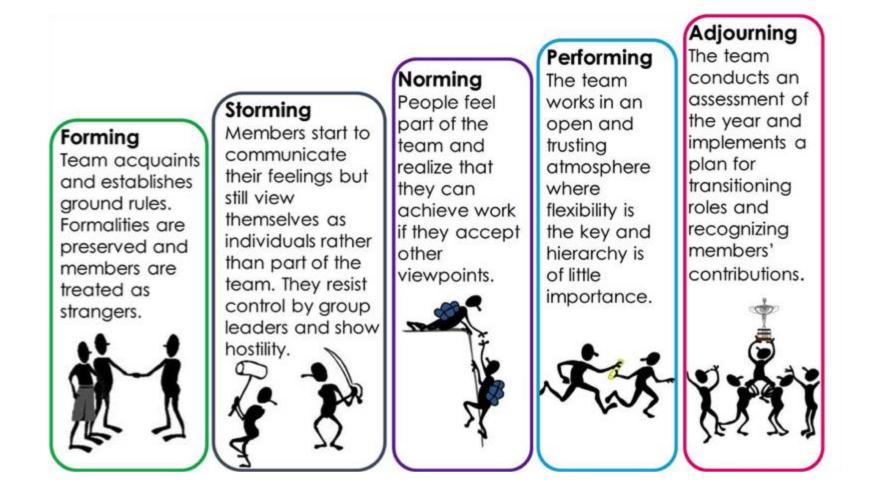
- 1965 Pyschologist Bruce Tuckman
- Management of the team
- Understand how the team works
- From the creation to the end of the team
- Useful in agile as it is a selforganized team



### Tuckman Model



#### Tuckman Model



Source: NS4B

# Forming Tool: Niko-Niko

	Monday	Tuesday	Wednesday	Thursday	Friday	
Tom						
Anna						
Matt			26			
Jane		0.0	26			
Lauren		06				

# Storming Tool: Time Boxing

- Pommodoro (technique defined by Francesco Cirillo)
  - Decide the task to work on
  - Set the Pommodoro on 25 minutes
  - Work on the task during the 25 minutes
  - Take a break
  - Each 4 pommodori, take a longer break.





#### Pommodoro

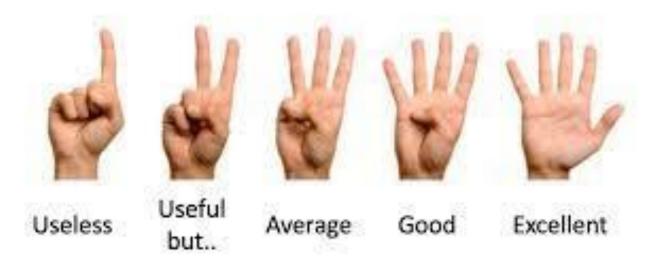


Source: jedisquad

# Norming Tool: ROTI

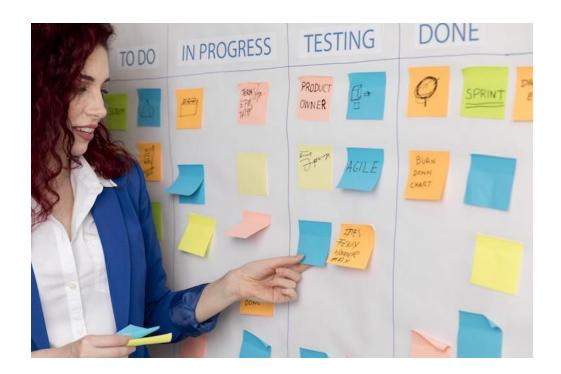
- ROTI: Return on Time Invested
- => Measure the relevance

We have just had a 2 hours meeting. What do you think of the added value of this meeting?



## Perfom

- Autonomous Team
- Visual Management



#### Personnas

- Define the different type of users/customers for your project
- Distinct personnas

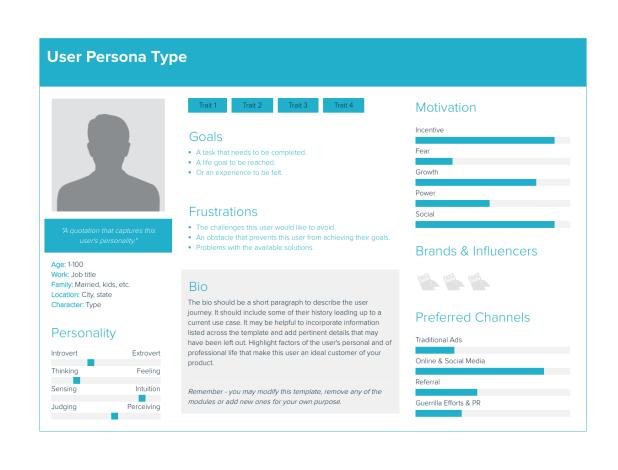


Source: Com Exporer

#### How to create a personna?

- Type of user
  - age,
  - Gender
  - Profession
  - Socio-professional category
  - Hobbies
- Needs or objectives vis-à-vis the product or service;
- Criteria of choice and habits;
- Domain expertise.

Source: idea Agency



# Introduction to SAFe (Scaled Agile Framework)

#### Introduction to SAFe

Overview of SAFe

SAFe levels

Key roles

SAFe events

## Why SAFe?

 Need to coordinate several Agile teams within large organizations where methods like Scrum or Kanban alone were no longer enough.

#### Origins

## Problematics solved

- Lack of consistency between teams.
- Difficulty aligning strategic priorities with development teams.
- Large-scale product delivery issues (multiple teams, departments, products).

## 3 Main objectives for SAFe

#### Agility at scale

• SAFe makes it possible to extend agile practices across the entire organization, maintaining coordination between hundreds or even thousands of people.

#### Strategic Alignment

• SAFe helps align technical teams with long-term business goals through centralized planning.

#### Continuous Delivery

• With SAFe, the business can continue to deliver value quickly and consistently, despite organizational complexity.

Team

Programme

Large Solution

Portfolio

Standard agile methodology

Sprint : 2 weeks
Increment

Scrum Master Product Owner Agile Release Train (ART): 5 - 12 teams with common objectives

Product Increment (PI) Planning: 8-12 weeks

Release Train Engineer (RTE) to faciliate coordination Solution Trains: several ART

Solution Architect and Solution Manager: R esponsible for technical and business alignment on complex solutions. Manage enterprisewide strategy, aligning the organization's strategic goals with agile teams.

#### **Epics**

large initiatives, often multiprogram, that are aligned with the long-term goals of the company.

#### Lean Portfolio Management (LPM):

A group of managers who oversee budget management, governance and strategic alignment.

## **Key Roles**



#### Release Train Engineer (RTE):

- Equivalent to a Scrum
   Master but on a larger scale.
- Responsible for coordinating and facilitating the Agile Release Train.
- Ensures that the teams are aligned and that the delivery train is progressing correctly.



#### **Product Manager** (at program level):

- Ensures the prioritization of features for the entire delivery train.
- Responsible for defining and managing the product vision and roadmap.



#### **System Architect/Engineering:**

- Responsible for the design and technical architecture at the ART or Solution Train level.
- Ensures that architectural decisions and technical choices are aligned with the company's objectives



#### **Epic Owner** (at portfolio level):

- Responsible for managing Epics, which are large-scale strategic initiatives.
- Ensures that Epics are properly broken down into smaller pieces, aligned with the organization's strategy.

### PI Planning (Program Increment Planning)

#### **PI Planning**

- Is the central event of SAFe
- Takes place at the start of each Program Increment (PI), a period of 8 to 12 weeks (often 4 - 5 sprints).

All the teams in an Agile Release Train (ART) come together to plan together the work to be carried out during the PI.

## **Objectives of the PI Planning**

1

**Align** all ART teams with the objectives of the PL

2

**Prioritize** and **plan** key features to be delivered during the

3

Identify and resolve dependencies between teams.

4

**Establish PI objectives**: Each team formulates its PI objectives based on capabilities and priorities.

5

Create a common schedule to visualize the overall plan, milestones, and expected deliveries.

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## Stages of the PI Planning



**Presentation of the vision:** Product
Management and Business
Owners present the product
vision and the PI's priorities.

Planning in teams: Teams break down features into User Stories and estimate the work capacity of each iteration.

Identifying Dependencies: Teams identify dependencies with other teams and list them on a Program Board. **Joint planning:** Teams finalize the plan, including milestones, risks, and dependencies, then present their plan to others.

**Commitment to objectives:** Each team formally commits to a set of PI objectives.

## Scrum of Scrums (SoS)

Synchronization event between the Agile teams of an ART. (often once or twice a week)

- **Helps synchronize work** and ensure that teams remain aligned with the PI's objectives.
- Resolve obstacles: Scrum Masters share blockages and obstacles that impact multiple teams, and seek solutions together.
- Manage dependencies: Ensure that crossteam dependencies are well managed and that all teams have the necessary information.
- communication: Facilitate communication between teams to ensure progress and risks are well understood at all levels.

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## Scrum of Scrums (SoS)

#### Who?

- Scrum Master
- Release Train Engineer (RTE) => Facilitator

How? -> Based on Daily stand-up meeting

- What is my team doing right now?
- What are the critical dependencies with other teams?
- Are there any risks or obstacles we need to overcome?

#### Output

- Alignment of teams on priorities and dependencies.
- Resolve cross-team issues to ensure smooth delivery.

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## Inspect & Adapt (I&A)

- The Inspect & Adapt (I&A) event
  - Is a key moment for continuous improvement in SAFe.
  - Takes place at the end of each Program Increment (PI).
- The objective is to
  - o inspect the work accomplished during the PI,
  - o evaluate performance,
  - o identify major problems, and
  - o define corrective actions to improve the next Pl.



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## **Sprint Execution**

## **Sprint Execution**

The Daily Scrum: objectives and best practices.

Manage the unexpected

Integrating
Kanban practices
into the Scrum
workflow.

## **Daily Scrum Objectives**

#### Daily synchronization:

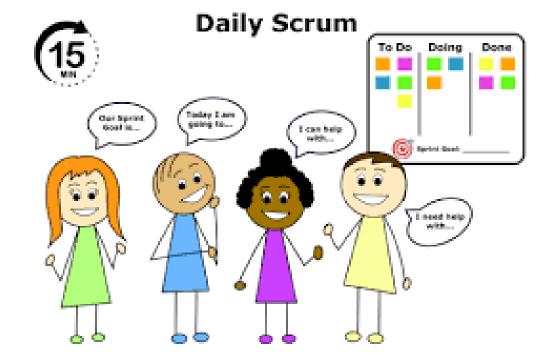
o The Daily Scrum is a 15-minute meeting that allows the development team to **synchronize** on the progress of the sprint. Each team member shares what they did the day before, what they plan to do today, and mentions any obstacles.

#### Transparency:

 It allows everyone to know where the project is and to quickly identify blocking points or necessary adjustments.

#### Coordination:

o It ensures that everyone **understands the priorities** and knows how to contribute to the success of the sprint objectives.



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## **Best Practices of the Daily Scrum Meeting**



- **Stay focused on the goal:** The meeting should be focused on progress toward the sprint goal, not on detailed or technical discussions.
- **Fixed cadence:** Organize the Daily Scrum at the same time each day and limit the duration to 15 minutes to maintain an effective pace.
- **Collective Responsibility:** Everyone on the team is responsible for following the sprint goals and helping resolve obstacles. The Scrum Master helps facilitate, but the team remains self-organized.
- **Visual tools:** Use boards (physical or digital, like Jira or Trello) to make task status visible and track progress.

## How to react to changes during the sprint?



#### Minor Change Management:

o If the change does not significantly affect the team's ability to achieve the sprint goal, it can be integrated into the sprint backlog without major impact.

#### Reassessment of priorities:

o If the change is more significant (new request, change of objective), the Product Owner must reassess the priorities with the team. He can decide to replace an existing user story with the new task, ensuring that the team's capacity remains realistic.

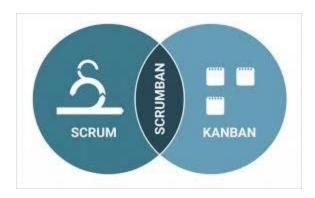
#### Stop & Replan:

o If a large-scale change occurs (such as a strategy pivot), the team can decide to stop the current sprint, with the agreement of the Product Owner, to replan a new sprint with adjusted objectives.

#### Constant communication:

o When unforeseen circumstances arise, open communication with all stakeholders is essential to ensure everyone is aligned on the changes and their impacts.

#### Kanban & Scrum



Kanban and Scrum are complementary and can be combined to optimize workflow, especially in environments that require more flexibility during the sprint.

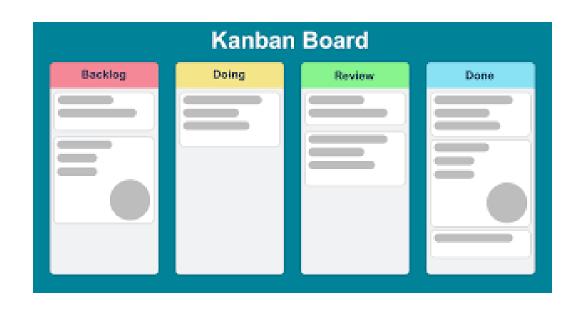
-> **5** tips

## **Limit Work in Progress (WIP)**

Limiting the number of tasks being completed helps reduce work overload and promote continuous delivery.



### **Workflow Visualization**



- The Kanban board (with columns like "To Do", "In Progress", "Done") helps visualize the progress of tasks.
- In a Scrum framework, this table can be used to refine the monitoring of current User Stories in the sprint backlog.

## Flow management

Rather than working in fixed sprints, some Scrum-Kanban teams focus on a continuous flow of tasks (often called Scrumban), where User Stories are pulled into the workflow as they are ready.



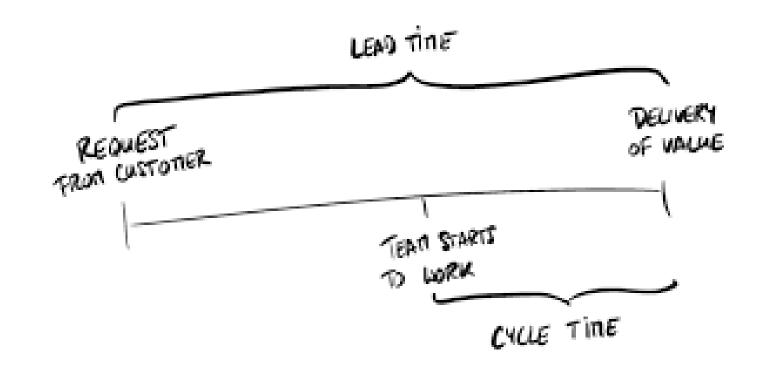
### Focus on delivery



By integrating Kanban, the team can focus on more frequent deliveries, each time a feature is completed, rather than waiting until the end of the sprint.

# Cycle Time and Lead Time

These two metrics from Kanban can be used to measure how quickly User Stories are completed, providing better visibility into workflow efficiency.



# Sprint Review and Retrospective

## **Sprint Review and Retrospective**

Preparation and conduct of the sprint review.

Techniques for a constructive retrospective

Importance of stakeholder feedback and integration into the PI if in SAFe.

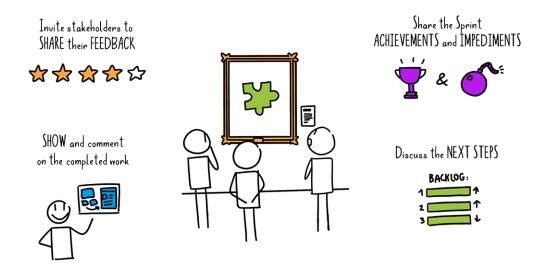
# **Sprint Review: How to prepare?**

- Planning the demonstration:
  - o The team must prepare **to demonstrate the features** or increments completed during the sprint. This includes technical aspects (production, tests) and functional aspects (validation by users or the Product Owner).
- Invitation of stakeholders:
  - The Product Owner invites key stakeholders
     (customers, end users, management) to the review in order to collect direct feedback on the deliverables
- Prioritizing feedback:
  - o The team must **be ready to answer questions** from stakeholders and **integrate their feedback** into the backlog to improve future sprints.



### **Sprint Review Schedule**

### HOW DO WE DO IT?



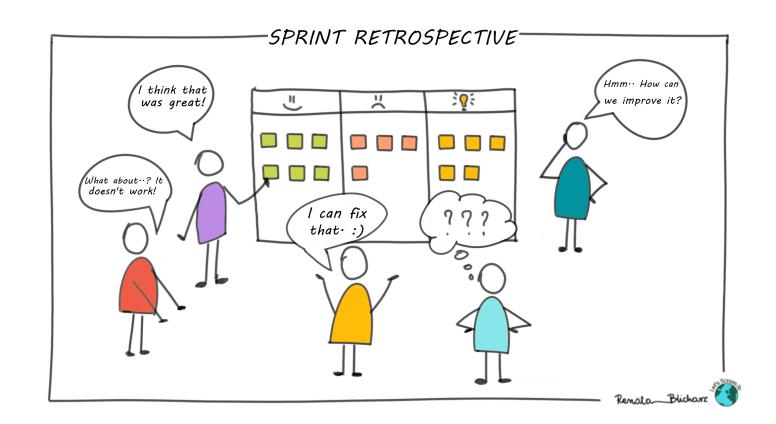
THERE IS ALWAYS TRANSPARENCY BETWEEN THE TEAM AND WITH THE STAKEHOLDERS

- Presentation of the sprint objectives:
  - The Product Owner recalls the objectives defined at the start of the sprint and the User Stories produced.
- Feature demonstration:
  - The development team concretely shows what has been delivered, with a live demonstration of the product or new features.
- Collection of feedback:
  - Stakeholders can give their opinion on the functionalities, suggest improvements, or express new needs which will feed the backlog.

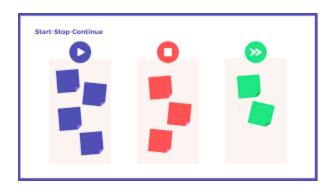
# **Sprint Retrospective**

The retrospective is a key event for **continuous improvement.** 

It allows the team to analyze the progress of the sprint and propose adjustments for the next ones.

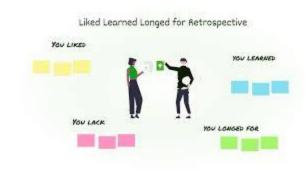


### **How to animate Sprint Retrospective?**



### Start, Stop, Continue:

The team discusses what they should start doing (new processes, tools), stop doing (ineffective practices), and continue doing (best practices)



### 4Ls (Liked, Learned, Lacked, Longed for):

Each team member reflects on what they liked, learned, felt missing, or what they would have liked to do during the sprint.



### Mad, Sad, Glad:

Members share moments when they felt frustrated (Mad), sad (Sad), or satisfied (Glad), allowing for a better understanding of the emotions behind sprint events and improved collaboration.

# Why is it important to take feedback and to integrate it in the PI?



### Prioritize the backlog:

o If adjustments or new requests are made during the review, the Product Owner must evaluate them and reintegrate the tasks into the backlog based on their business value.

### Alignment with the PI:

- o In a SAFe context, this feedback can also influence the planning of the upcoming Program Increment (PI).
- For example, if a delivered feature does not meet stakeholder expectations, it can be reworked or improved in future iterations of the PI.

### Strengthening collaboration:

 Continuous feedback from stakeholders strengthens the link between the development teams and the business, ensuring that the features delivered really provide value.

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# Quizz Final

https://forms.office.com/e/bXRVSkeCae

