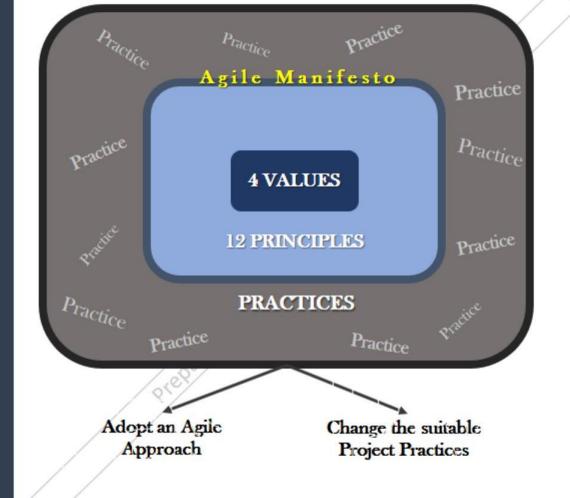


Agile Approaches

**Agile Approaches** 



Agile Approaches

#### LEAN

### AGILE

KANBAN

- → SCRUM
- → EXTREME PROGRAMMING (XP)
- → CRYSTAL
- → SCRUMBAN
- → FEATURE-DRIVEN DEVELOPMENT
- → DYNAMIC SYSTEMS DEVELOMENT (DSDM)
- → OTHERS (Scaled Agile Framework, Disciplined Agile Delivery, DevOps, Adaptive Software Development, etc.)

Lean

Lean

#### Lean Manufacturing (Lean Production)

→ Derived from Toyota's operating model

### Lean Agile Project Management

→ We need to eliminate the processes not providing any business value

### 7 Lean Principles:

- Eliminate Waste
- Amplify Learning
- Decide As Late As Possible Deliver As Soon As Possible
- Empower the Team
- Build Quality In
- Optimize the Whole



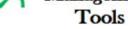
Continuous Improvement



Customer Requirements



Visual Management





Lean

#### Lean Manufacturing (Lean Production)

- → Derived from Toyota's operating model

### Lean Agile Project Management

→ We need to eliminate the processes not providing any business value

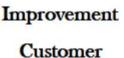
### 7 Lean Principles:

4) 5)

6) 7)

- Eliminate Waste
  - Amplify Learning
- Decide As Late As Possible Deliver As Soon As Possible
- Empower the Team
- Build Quality In
- Optimize the Whole 7 Wastes of Lean:
  - Partially Done Work
  - Extra Processes
  - Extra Features
  - Task Switching
  - Waiting
  - Handovers (Motion) Defects





Requirements

Continuous



Visual



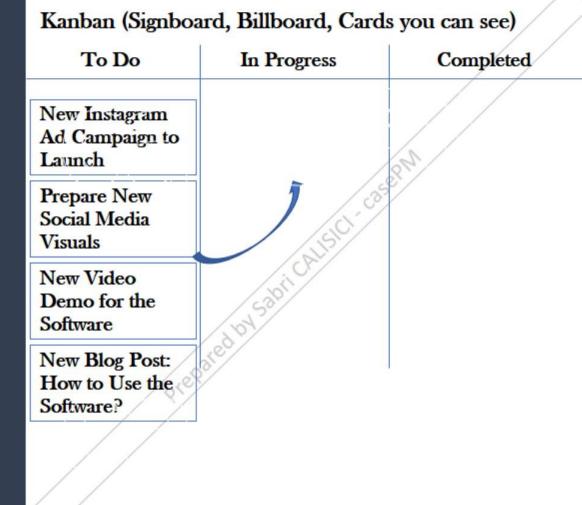
Management Tools



Kanban

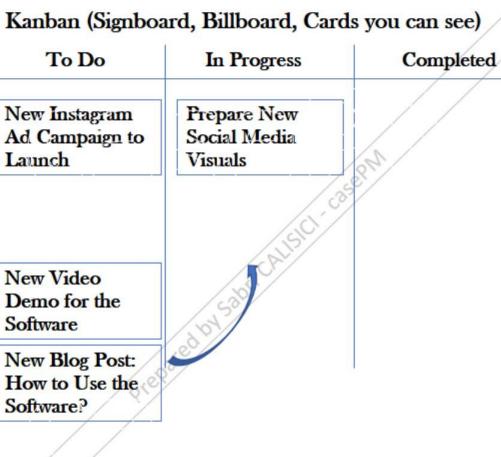
To Do	In Progress	Completed
New Instagram Ad Campaign to Launch		OM
Prepare New Social Media Visuals	11510,00	
New Video Demo for the Software	ared by Sabri Chi	
New Blog Post: How to Use the Software?		

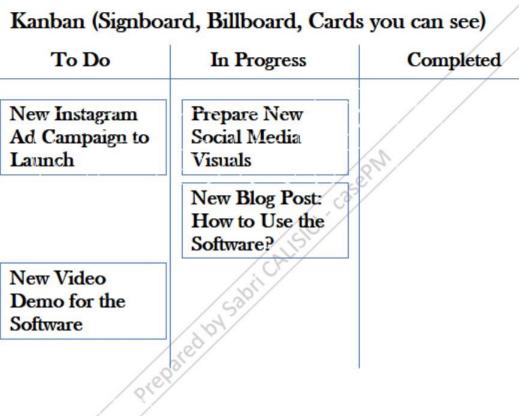
Kanban (Signboard, Billboard, Cards you can see)

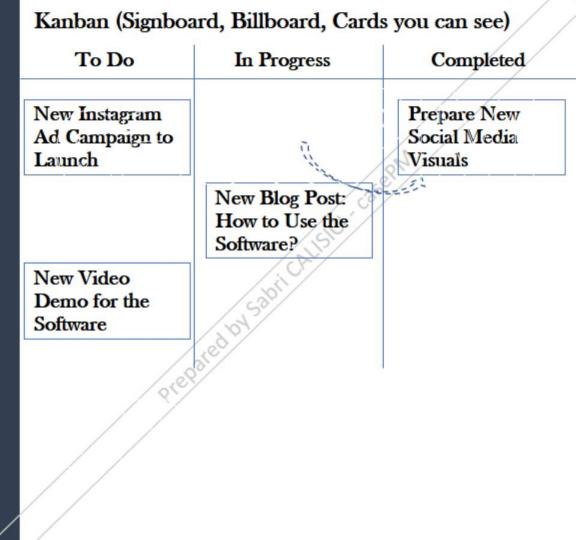


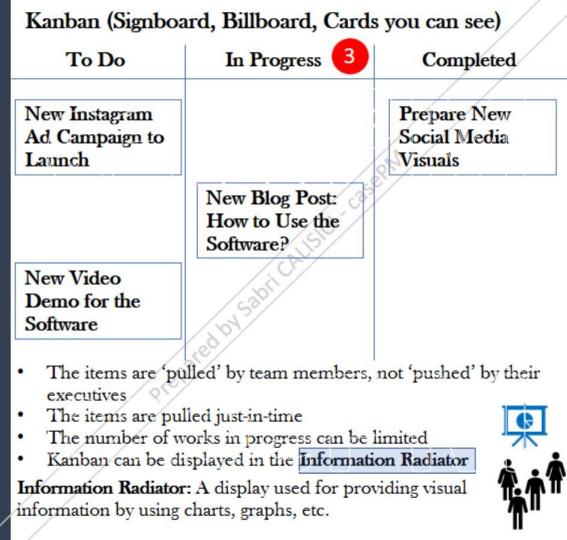
Kanban

Kanban (Signboard, Billboard, Cards you can see) To Do In Progress Completed Prepare New New Instagram Ad Campaign to Social Media Launch Visuals New Video Demo for the Software New Blog Post: How to Use the Software?









Kanban

Kanban (Signboard, Billboard, Cards you can see)

To Do In Progress Completed

New Instagram
Ad Campaign to
Launch

**Policies** 

New Video Demo for the

Software

New Blog Post:
How to Use the

Prepare New Social Media

Policies

The items are 'pulled' by team members, not 'pushed' by their executives

- The items are pulled just-in-time
- The number of works in progress can be limited
- Kanban can be displayed in the Information Radiator

Software?

- Timeboxes are NOT used in Kanban
   We need to have clear policies in Kanban
- We need to have clear policies in Kanban
- Collaboration and experimental environment should be improved

**Policies** 

Kanban

#### Properties of Kanban

- The workflow needs to be visualized
- The policies should be clear
- The collaborative environment should be improved
- Work in progress should be limited
- It is the workflow we manage
- There should be feedback loops

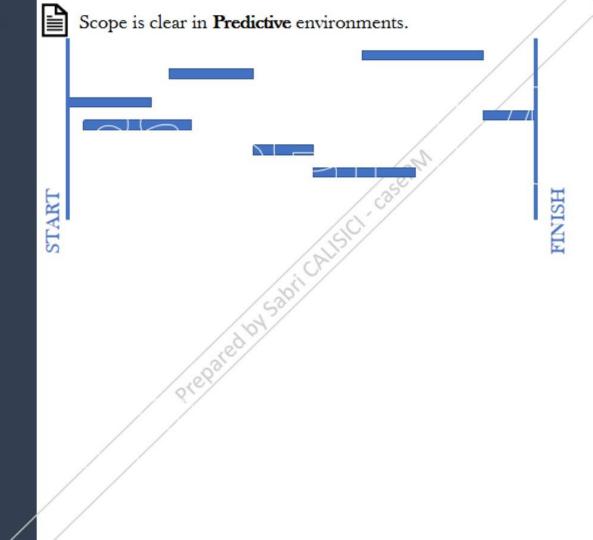
#### Some Principles

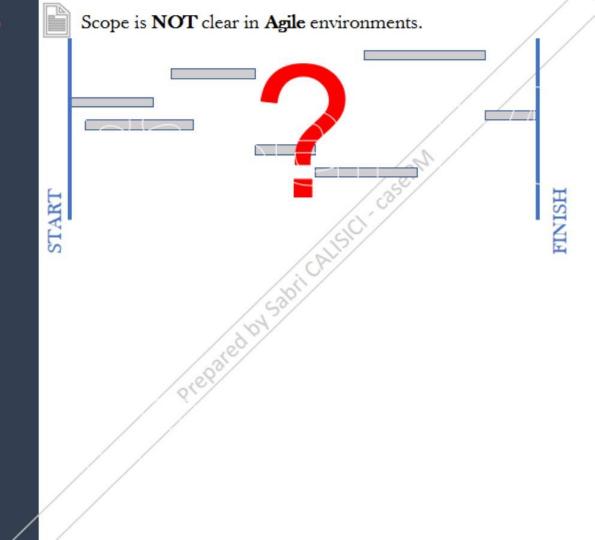
- To apply Kanban, we start with the current conditions
- We desire incremental change and continuous improvement
- We need to respect the existing environment
- We need to support and encourage leadership

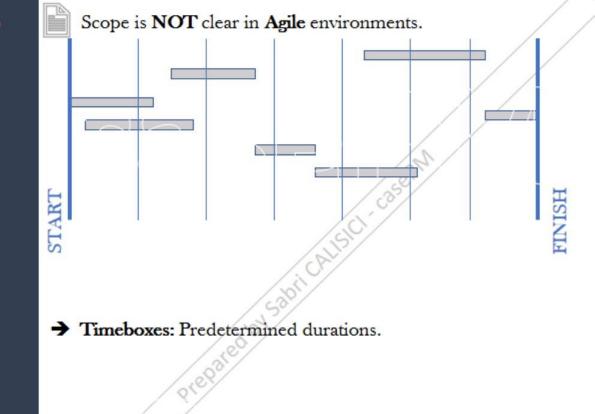
#### Advantages of the Kanban Method

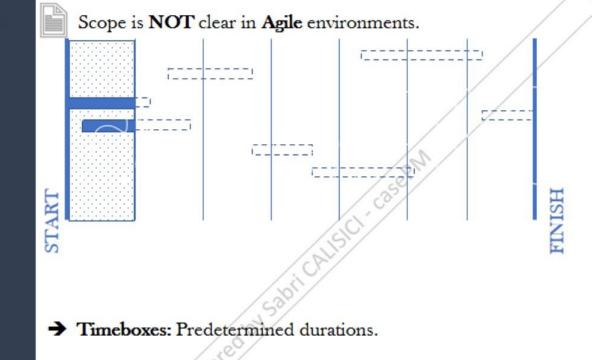
- Kanban reduces waste
- It increases efficiency, productivity and quality
- It attracts the team members' focus on the work they do
- It helps team members to focus on completed deliverables
- It prevents team members from being overloaded and provides
- a more 'homogenized' workload
- It provides flexibility

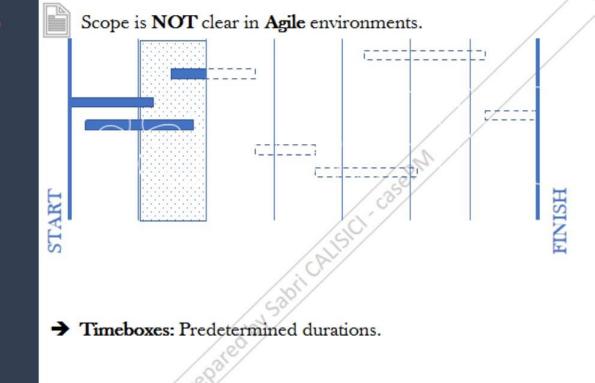


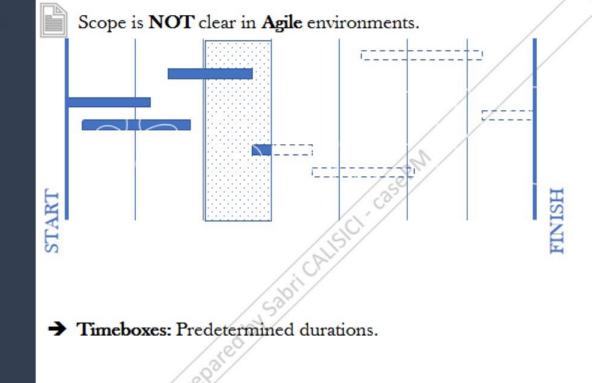


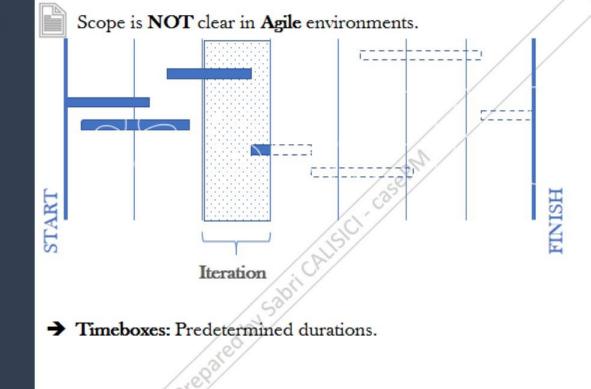


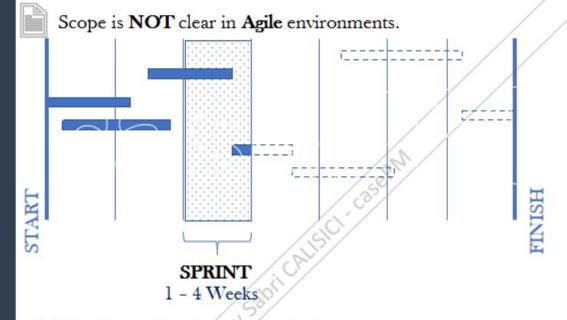




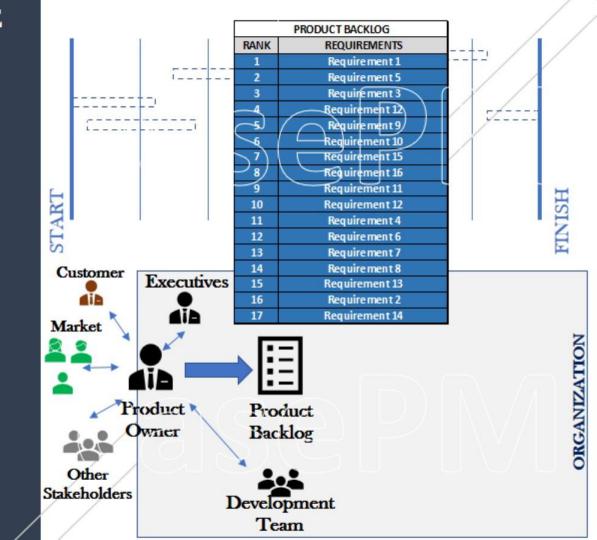


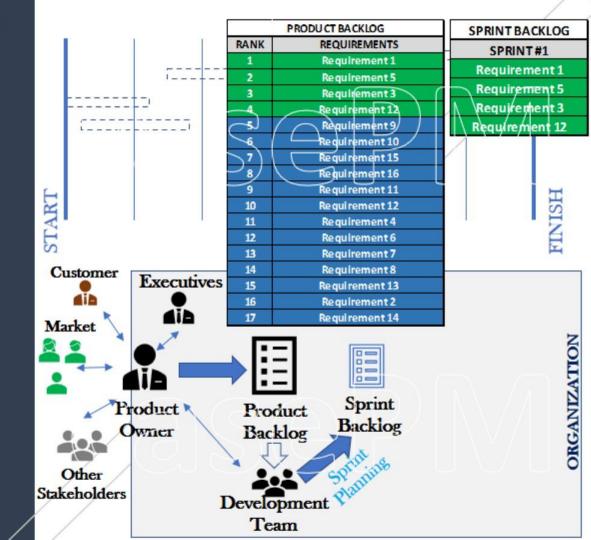


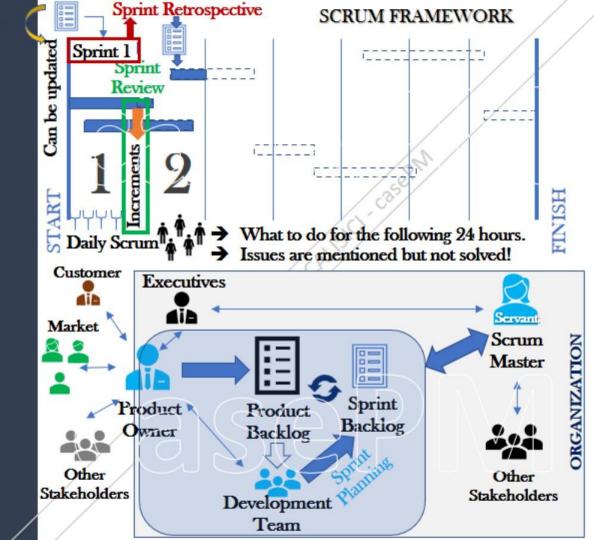




- → Timeboxes: Predetermined durations.
- → Sprint: The specific term used in Scrum for timeboxed events (iterations).









Scrum

While applying the Scrum, consider:

- → Transparency: Processes and outcomes should be clearly visible to everyone.
- → Inspection: The processes and outcomes should be inspected continuously.
- → Adaptation: Everything can be changed.

Artifacts: Things representing work or value,

- Product Backlog
- Sprint Backlog
- Increments

	PRODUCT BACKLOG	
RANK	REQUIREMENTS	
1	Requirement 1	
2	Requirement 5	
3	Requirement 3	
4	Requirement 12	
5	Requirement 9	
6	Requirement 10	
7	Requirement 15	
8	Requirement 16	
9	Requirement 11	
10	Requirement 12	
11	Requirement 4	

SPRINT BACKLOG		
SPRINT #1		
Requirement 1		
Requirement 5		
Requirement 3		
Requirement 12		

Requirement -> STORY

Scrum

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#### STORY

- "As a/an....., I want to...... So that......"
- "As an Admin, I want to see all the customers and their email addresses in a list, so that I can reach them easily any time I need."
- "As a Customer, I want to find the contact information of the application owner everywhere in the app, so that I can ask questions anytime I wish."

Scrum

While applying the Scrum, consider:

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Provide transparency

for Inspection and Adaptation purposes.

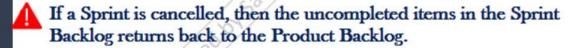
Scrum

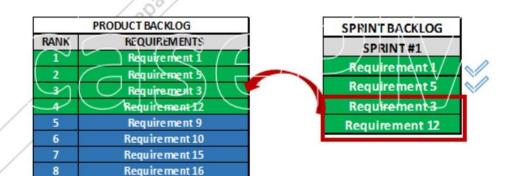
#### The Roles of the Scrum Team Members

- Product Owner
- Development Team
- Scrum Master

#### **Product Owner**

- → Aims to improve the value of the outcomes
- → Communicates with customer and other stakeholders
- → Creates the Product Backlog
- → Owns the Product Backlog
- → Reviews the external business environment and the market
- → Can cancel a Sprint if it is needed





Scrum

#### The Roles of the Scrum Team Members

- Product Owner
- Development Team
- Scrum Master

### Development Team

- → Executes the project work
- → Creates the Sprint Backlog
- → Can make changes to the Sprint Backlog
- → To work, they don't depend on others outside the team
- → The Development Team is a self-organizing team

Scrum

#### The Roles of the Scrum Team Members

- Product Owner
- Development Team
- Scrum Master

#### Scrum Master

- → Promotes and supports Scrum within the organization
- → Facilitates the team and the Scrum processes
- → Uses her leadership skills
- → Uses Emotional Intelligence
- → "Serves" the team as a servant-leader
- → Removes the impediments which may cause problems
- → Ensures the Scrum processes are working well

Scrum

#### Scrum Events

- Sprint
- Sprint Planning
- Daily Scrum
- Sprint Review
- Sprint Retrospective