

# Agile Project Nanagement: Agile Practice Guide





# What is Agile Project Management?

Agile project management is a modern approach to project execution, emphasizing **iterative development**, **flexibility**, and **collaboration**. It's a framework for managing complex projects in a rapidly changing environment. It prioritizes customer value, continuous improvement, and adapting to changing requirements throughout the project lifecycle. Agile methods encourage teamwork, self-organization, and frequent feedback loops.



# Core Principles of Agile Project Project Management



#### **Customer Focus**

Understanding and delivering value to the customer is paramount. 2)

#### **Iterative Development**

Projects progress in short cycles, allowing for continuous feedback and adjustments.



#### **Collaboration and Communication**

Effective teamwork and open communication are crucial for success.

# 4

## Continuous Improvement

Teams constantly seek to improve their processes and outcomes.





# Agile vs. Waterfall

#### Waterfall

Linear, sequential approach with predefined stages. Requires complete upfront planning and limited flexibility.

#### Agile

Iterative and incremental, with flexible planning and adaptability to change. Emphasizes collaboration and continuous feedback.



# The Agile Manifesto

Individuals and Interactions

Over processes and tools.

## Working Software

Over comprehensive documentation.

**Customer Collaboration Collaboration** 

Over contract negotiation.

#### **Responding to Change**

Over following a plan.

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# Agile Frameworks: Scrum, Kanban, Lean



#### Scrum

Focuses on iterative development, with defined roles, ceremonies, and artifacts.



#### Kanban

Visualizes workflow using a board with tasks and progress indicators.

#### Lean

Prioritizes customer value, eliminating waste, and continuous improvement.





# Instrydin Pathways

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# **Scrum:** Roles, Ceremonies, and Artifacts

## **Product Owner**

Represents the customer and prioritizes the product backlog.

## **Scrum Master**

Facilitates Scrum processes and removes impediments.

## **Development Team**

Self-organized team responsible for delivering the product increment.

## Sprint Planning

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The team plans the work for the upcoming sprint.

## **Daily Scrum**

A short meeting to review progress and identify impediments.

# **Scrum:** Roles, Ceremonies, and Artifacts

**Sprint Review** 

6

8

10

The team presents the completed work to stakeholders.

## **Sprint Retrospective**

The team reflects on the sprint and identifies areas for improvement.

## Product Backlog

A prioritized list of features and requirements.

## **Sprint Backlog**

A list of tasks selected for the current sprint.

## Increment

The potentially shippable product produced during a sprint.



**Customer Satisfaction** 

1

Early and quick delivery of the project collaboration

Welcome Change

2

Changes are accommodated at anytime

Ensure project deliverables/features are delivered frequently on a shorter time scale



#### **Deliver Frequently**



#### Work Together

4

Customer satisfaction-early and quick delivery of the project collaboration

#### **Motivated Team**

5

Project need to be built around motivated individuals, and they must be trusted to get the job done

Face to face interactions is the most efficient means of communication



#### Face to Face



#### Working Deliverable

7

Working Deliverable is Primary measure of progress

#### **Constant Pace**

8

Agile process promotes sustainable development

#### **Good Design**

Face to face interactions is the most efficient means of communication





Simplicity

10

The amount of work that being done needs to be minimized

#### Self-Organizing

11

Self-organized teams provide the best architectures requirements and designs

#### Reflect & Adjust

Effectiveness can be improved by the team regularly reflecting on it



# Kanban: Visualizing the Workflow



#### Visualized Workflow

Kanban boards provide a transparent view of the project workflow.

#### Work-in-Progress Limits

Limiting work in progress helps prevent bottlenecks and improve flow.

#### **Continuous Improvement**

Regularly analyzing the board helps identify areas for improvement.



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## Lean: Maximizing Customer Value



# **Agile Project Life Cycle**





# **Adaptive Planning in Agile**

**Initial Planning** 

A high-level roadmap is created.

#### **Iterative Refinement**

The plan is adapted based on feedback and changing priorities.

#### **Continuous Adaptation**



## The plan remains flexible and responds to changing requirements.

# **Iterative and Incremental Development**







#### **Initial Prototype**

A basic version of the product is built quickly.

#### **Iteration 1**

Feedback is gathered and incorporated into the next iteration.

#### **Iteration 2**

with each iteration.





# The product is refined and enhanced



1

2

3

# Responding to Change Over Following a Plan

#### Flexibility and Adaptability

Agile teams embrace change as a natural part of the project.

#### **Continuous Feedback**

Regular feedback from stakeholders guides the project direction.

#### **Dynamic Planning**

The plan is continuously adjusted to reflect changing priorities.



# **Continuous Improvement in Agile**



Regular reflection on the process and identification of areas for improvement.

#### Kaizen

1

2

3

A culture of continuous improvement, with a focus on small, incremental changes.

#### **Learning from Experience**

Applying lessons learned to future iterations and projects.



# **Benefits of Agile Project Management**

Agile project management offers numerous advantages, leading to improved project outcomes and organizational success. It fosters collaboration, adapts to change, and delivers value to customers.

Agile practices promote a customer-centric approach, encourage continuous improvement, and ultimately enhance the overall project experience for both the team and stakeholders.





# **Increased Productivity**

1

#### **Focus on Value**

Agile teams prioritize work that delivers the most value.

#### **Iterative Development**

Rapid iterations allow for early detection and correction of issues.

#### **Elimination of Waste**

Agile methodologies aim to streamline processes and eliminate unnecessary activities.





# Improved Stakeholder Satisfaction

#### **Frequent Feedback**

Stakeholders are involved throughout the project, providing ongoing feedback.

#### Transparency and Communication

Stakeholders are kept informed of progress and any potential challenges.

#### Value Delivery

early and often.

## Stakeholders receive working software and tangible results



# **Enhanced Adaptability to Change**

Flexibility

Agile teams are designed to respond to change with ease.

#### **Customer Focus**

2

Agile teams prioritize customer needs and adapt to their evolving requirements.

#### **Iterative Development**

Changes can be incorporated in subsequent iterations, minimizing disruption.

# 3

# **Quicker Time to Market**

#### **Iterative Development**

Working software is delivered in short cycles, allowing for early releases.

#### Focus on Value

2

3

Agile teams prioritize features that provide the most value to customers.

#### **Continuous Improvement**

Teams learn from each iteration, improving efficiency and reducing time to market.



# **Challenges of Agile Adoption**

Adopting Agile project management can be challenging, requiring adjustments to organizational culture, processes, and mindsets. It involves breaking down traditional ways of working and embracing a more iterative and collaborative approach.

Successfully implementing Agile requires overcoming potential barriers, fostering a culture of collaboration, and providing adequate training and support to ensure a smooth transition to Agile practices.



# **Organizational Culture**





# Myths about Agile PM





# Impediments, Obstacles & Blockers

## Impediments

These are situations that prevents the team from achieving its objectives.

Impediments reference situations, conditions, and actions that slow down or hinder progress. (For example, the team not coming to a decision on a file saving location.)

# 2

#### **Obstacles**

An Obstacle reference barriers that should be moved, avoided, or overcome with some effort or strategy. (For example, the construction crew is unable to arrive at the worksite before permits are signed.)

## 2

#### Blockers

A Blocker reference events or conditions that cause <u>stoppages</u> in the work or any further advancement. (For example, the company has halted the use of any products in a certain firm until a new contract is signed.)



# Management Mindset



#### **Traditional Mindset**

Focus on control and adherence to rigid plans.



## Agile Mindset

Emphasizes collaboration, empowerment, and adaptability.





# Lack of Agile Experience



#### Training and Education

Providing comprehensive training and development opportunities for team members.



#### **Coaching and Mentoring**

Mentoring teams on best practices and guiding them through the transition.



#### **Knowledge Sharing**

Encouraging collaboration and knowledge sharing among team members.





# Agile Governance and PMO

#### Agile PMO

2

3

A dedicated Agile project management office to oversee Agile projects.

#### **Governance Framework**

Establishing clear policies and procedures for managing Agile projects.

#### **Metrics and Reporting**

Developing metrics and reporting mechanisms to track Agile project performance.



# Aligning Agile with Traditional Project Management Management

Agile project management can be successfully integrated with traditional project management methodologies. By leveraging the strengths of both approaches, organizations can create a hybrid system that adapts to the specific needs of their projects. This integration can optimize project execution, improve resource utilization, and enhance overall project success by combining the flexibility and adaptability of Agile with the structure and control of traditional project management.





# **Hybrid Approaches**

#### Waterfall with Agile Sprints

Integrating short Agile iterations within a traditional Waterfall framework.

# Scrum with Traditional Planning

Utilizing Scrum principles with a more structured upfront planning phase.

#### Kanban with Waterfall Tasks

Applying Kanban to visualize tasks and workflows within a Waterfall project.

# Agile Portfolio Management

Prioritization

Prioritizing projects based on strategic goals and customer value.

#### **Resource Allocation**

Allocating resources effectively across multiple Agile projects.

3

#### **Performance Tracking**

Monitoring the progress and performance of Agile projects within the portfolio.



# **Agile Program Management**







#### **Program Vision**

Defining the overall vision and goals for the program.

#### **Coordination and Collaboration**

Ensuring effective coordination and communication between Agile teams. **Program Tracking** 

Monitoring the progress and whole.



# performance of the program as a

# **Agile Risk Management**



#### **Proactive Risk Identification**

Identifying potential risks early in the project lifecycle.

#### **Risk Mitigation Planning**

Developing strategies to minimize the impact of potential risks.

#### Adaptive Risk Response

Continuously monitoring and adjusting risk responses as needed.



# **Identifying and Mitigating Risks**

#### **Risk Identification**

#### **Risk Assessment**

Using techniques like brainstorming, risk checklists, and stakeholder interviews.

Evaluating the likelihood and impact of each risk.

#### **Risk Mitigation Planning**

risks.



## Developing strategies to reduce the likelihood or impact of identified



# **Adaptive Risk Response**

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**Continuous Monitoring** 

Regularly monitoring risks and their potential impact on the project.

#### **Risk Response Updates**

Updating risk response plans as needed based on new information.

#### **Communication and Transparency**

Keeping stakeholders informed of potential risks and mitigation strategies.







# **Agile Quality Management**

#### **Continuous Integration**

Regularly integrating code changes into the main branch.

## **Automated Testing**

code quality and functionality.

#### **User Acceptance Testing**

Involving users in testing to ensure the product meets their needs.



# Automating tests to ensure

# **Agile Metrics and KPIs**





Measures the team's productivity and ability to deliver value.



#### **Burndown/Burnup Charts**

Track the progress of work and identify potential risks.



#### **Cycle Time**

Measures the time it takes to



# complete a task from start to finish.



# Velocity



**Story Points** 

Used to estimate the effort required to complete a user story.



#### **Trend Analysis**

Monitoring velocity over time to identify trends and areas for improvement.





#### **Sprint Capacity**

## The amount of work a team can complete in a sprint.



# **Burndown/Burnup Charts**





# **Cycle Time**

#### Lead Time

The time it takes to complete a task from when it is requested to when it is delivered.

#### Throughput

The number of tasks completed per unit of time.

#### **Bottlenecks**

Identifying bottlenecks in the



# workflow to improve cycle time.



# **Customer Satisfaction**

#### **Feedback Surveys**

Gathering feedback from customers through surveys and questionnaires.

#### **User Interviews**

Conducting interviews with users to understand their needs and experiences.

## Net Promoter Score (NPS)

Measuring customer loyalty and satisfaction using a single question survey.



1

2

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# Agile Team Dynamics

#### **Self-Organization**

Teams are empowered to make decisions and manage their own work.

#### **Collaboration and Communication**

Open communication and effective collaboration are essential for success.

#### **Trust and Respect**

A culture of trust and respect is vital for team performance.





## **Self-Organizing Teams**



#### Empowerment

Teams are given the authority to make decisions and manage their work.

#### Shared Responsibility

Team members are accountable for the success of the project.

#### **Continuous Learning**

Teams are encouraged to learn from their experiences and improve their skills.

# **Collaboration and Communication**

#### **Daily Stand-up Meetings**

## **Sprint Reviews**

Short, daily meetings to review progress and identify impediments. Regular meetings to present the work completed in a sprint to stakeholders.

#### Retrospectives



## Meetings to reflect on the sprint and identify areas for improvement.

# **Servant Leadership**





# **Agile Coaching and Mentoring**







# **Implementing Agile Transformation**

1

# 2

#### **Assess Organizational Readiness**

Evaluating the organization's culture, processes, and resources.

Defining the goals, objectives, and

**Develop an Agile Adoption Strategy** 

approach for Agile adoption.

# 3

#### **Pilot Agile Initiatives**

Testing Agile practices in small, focused projects to gain experience.



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# **Assess Organizational Readiness**







#### **Culture and Values**

Assessing the organization's culture and its alignment with Agile principles.

#### **Organizational Structure**

Evaluating the existing organizational structure and its potential impact on Agile implementation.

## **Resources and Support**

Assessing the availability of resources, such as funding, personnel, and technology.



#### For Agile RESOURCES



# **Develop an Agile Adoption Strategy** Strategy





# What are User Stories?

#### As a Tool

A tool that provides users with simple, natural language explanation of one or more features written from the end user's/customer's perspective

#### **Not Detailed**

- Its just to mention how a certain type of work/feature will bring value to the end-user. The role of the end user and the transaction involved
- Could be Internal or External
- Explains the interface very brief, this help in visualizing the interface to be provided and its uses.

Framework like **Epics** and Initiatives



## **Building Block of Agile Framework**

# Forms the building block of Agile

# **Scrum Framework**





# Scrum Framework

## THE SCRUM FRAMEWORK

#### Scrum Ceremonies

- Sprint Planning •
- **Daily Scrum** 0
- Sprint Review
- Sprint • Retrospective

#### Scrum Roles

- Product Owner
- Scrum Master
- Development Team

#### Scrum Artifacts

- Product Backlog •
- Sprint Backlog ۲
- Product Increment



#### usefyi.com

# The Roles



#### The Product owner

- Determines the product features
- Accept or reject work result
- Maximizes ROI
- Determine the release date and content
- Adjust features and Reprioritization & refining the product backlog



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Team, your wan you celiskitieal tivmes your work of shore there to fiest wterningour."

#### **The Scrum Master**

- Help team to learn & apply scrum to obtain business value
- Helps time to adopt agile practices
- Removes impediments & stoppages
- Protects team from interference .....

The Team

project stakeholders.





## Collection of individuals that work together to delivered projected requirements/deliverables to the





- The Scrum Master/Project Manager facilitates the meeting
- The Team members discuss past and next 24 hours activities
- Impediments, risk and issues are discussed 'offline'
- The Product Owner if present is there as an observer

Daily scrum, 15minutes, team synchronize action and discuss what must be done in the next 24hours.





- Team shows what is accomplished during the sprint, what is agreed upon and what is accomplished. Allows time for observations, ask questions and give feedback
- The Product Owner presents the product backlog to the stakeholders to get feedback for upcoming springs and things related to the backlog
- Checking whether the promised is fulfilled in its entirety
- Informal

# **Sprint Retrospective**

	Lesson Learnt	Past mistakes
Sprint Retrospective	Potential issues and risks	Solutions and new ways to resolve or respond to issues and risks in sequent iteration and springs are identified and documented
	Data from incorpora plannin	n here are ted when ng new

sprint.





# **Prioritization Techniques to Determine Objectives**



value.





# **Agile Certification and Professional Development**

Agile certification programs provide individuals with recognized credentials, demonstrating their knowledge and expertise in Agile principles and practices. These certifications enhance professional credibility and demonstrate commitment to Agile methodologies.

They also offer opportunities for continuous learning and skill enhancement, keeping individuals updated on the latest Agile trends and best practices. By pursuing Agile certifications, individuals can advance their careers and contribute effectively to Agile transformations within organizations.



# Agile Project Manager Certification

Certified ScrumMaster (CSM)

A popular certification for Scrum practitioners, focusing on the Scrum framework. Certified Associate in Project Management (CAPM)

A certification for project managers, with a focus on Agile principles and practices.

#### **Agile Certified Practitioner (PMI-ACP)**

A certification for project managers, emphasizing Agile methodologies and tools.





# **Scrum Master Certification**

![](_page_62_Picture_2.jpeg)

#### **Certified ScrumMaster (CSM)**

Offered by the Scrum Alliance, focusing on the Scrum framework.

![](_page_62_Picture_5.jpeg)

(PSM)

principles.

![](_page_62_Picture_8.jpeg)

**Certified Scrum Professional (CSP)** (CSP)

A higher-level certification for experienced Scrum Masters.

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#### **Professional Scrum Master (PSM)**

## Offered by Scrum.org, emphasizing a deeper understanding of Scrum