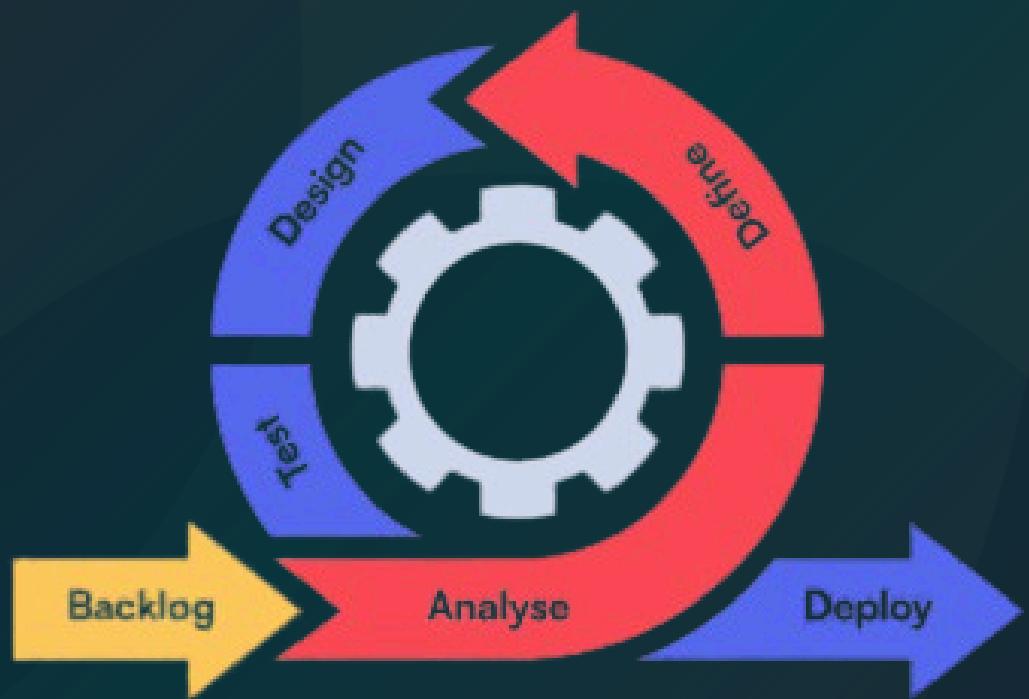


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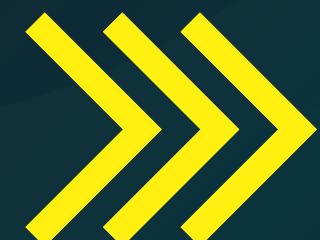


01

WHAT IS AGILE METHODOLOGY



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02

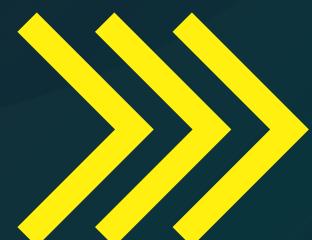
Agile Methodology

Introduction

- Agile is a software development methodology that promotes flexibility, iterative progress, and customer collaboration.
- It was introduced to overcome the limitations of traditional (Waterfall) software development.
- Agile development follows an incremental and iterative approach, where software is developed in small, manageable cycles.
- Agile emphasizes continuous feedback, adaptability, and customer satisfaction over rigid planning.



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Agile Manifesto - Core Values

The Agile Manifesto (2001) defines four key values

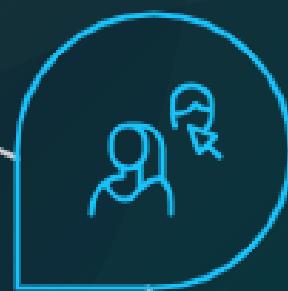
Customer Collaboration

Involves customers throughout the development process



Open Communication

Encourages transparent dialogue among team members



Working Software

Prioritizes functional software over extensive documentation



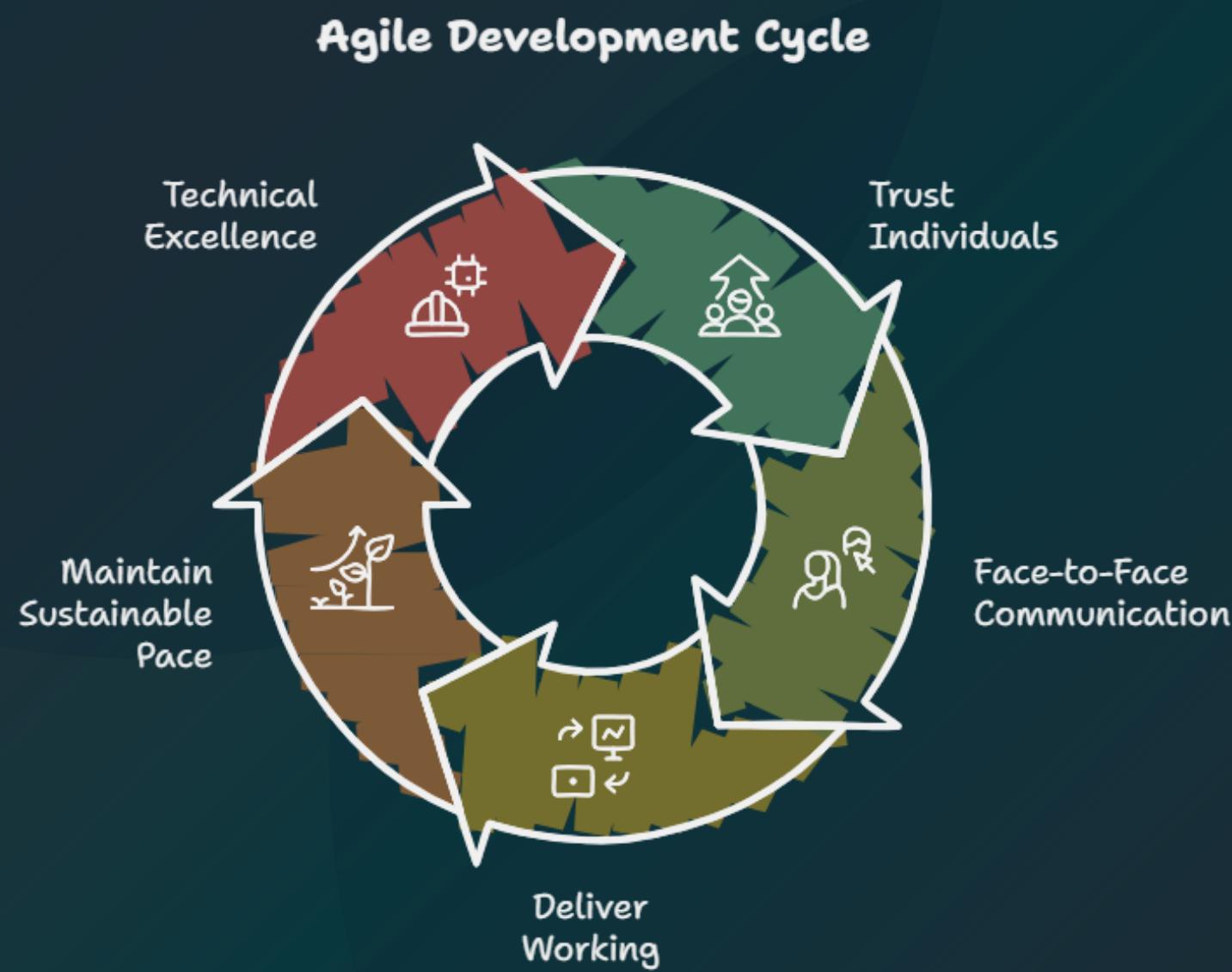
Teamwork

Emphasizes collaborative efforts for shared goals



Agile Principles

The Agile Manifesto also defines principles



Agile Methodologies (Frameworks)

- **Scrum
Framework**

A time-boxed, iterative framework that organizes work into sprints (usually 2–4 weeks).

Agile Methodology Cycle



- **Kanban
Framework**

Focuses on visualizing workflow, limiting work-in-progress, and optimizing cycle time.



Agile vs. Waterfall

Which project management methodology should be used?

Agile

Emphasizes flexibility and iterative progress, allowing quick adaptation to changes.



Waterfall

Follows a linear and sequential approach, ensuring each phase is completed before moving on.

Agile Lifecycle (Workflow)

- Concept & Requirement Gathering-Define high level business needs.
- Product Backlog Creation-List features & tasks prioritized by importance.
- Sprint Planning Select tasks for the current iteration.
- Sprint Execution & Development Coding, testitation.



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Benefits of Agile

- Fast Time to Market-Delivers usable software in early iterations.
- Higher Customer Satisfaction Frequent feedback
- ensures alignment with customer needs.
- Better Quality Continuous testing and quick bug fixes.
- More Flexibility Easily accommodates.

Challenges in Agile

- Frequent Requirement Changes Can be hard to manage in large projects.
- High Customer Involvement Needed Not always feasible.
- Difficult to Estimate Costs & Time Due to evolving



When to Use Agile?

- Projects with changing requirements.
- When quick delivery is needed.
- When customer involvement is high.
- For complex and innovative software development.

When should Agile methodology be used?

Changing Requirements

Agile is ideal for projects where requirements are likely to evolve.



Quick Delivery

Agile facilitates rapid development and delivery cycles.

High Customer Involvement

Agile encourages active customer participation throughout the project.

Complex Innovation

Agile supports innovative and complex software development.





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