

Agile Software Project Management

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Chapter 2

Agile Concepts



Agile Concepts

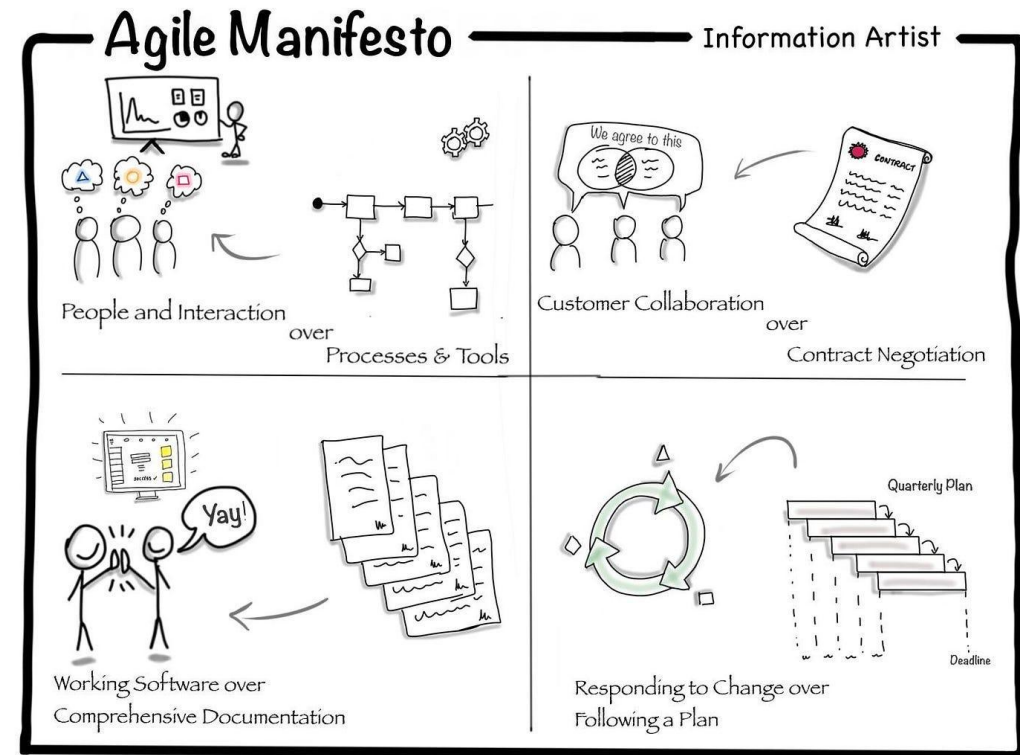
- Overview of agile principles and values.
 - Based on the Agile Manifesto.
 - Key focus: Iterative, adaptable, and collaborative approaches.
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Agile Manifesto

- Foundation of agile project management.
- Consists of:
 - Values
 - Guiding Principles

Agile Values

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



Value 1: Individuals and Interactions

- Key Idea: People and their collaboration > Processes and tools.
- Agile Focus:
 - Prioritize the team and communication.
 - Traditional management focuses on rigid tools/processes.

Value 2: Working Software

- Key Idea: Deliver working software > Lengthy documentation.
- Agile Focus:
 - Customer values functional software.
 - Documentation is secondary and supportive.

Value 3: Customer Collaboration

- Key Idea: Collaboration > Contract negotiation.
- Agile Focus:
 - Flexibility for changing requirements.
 - Value-driven approach over rigid scope definitions.

Value 4: Responding to Change

- Key Idea: Adaptability > Strict adherence to plans.
- Agile Focus:
 - Changes are welcomed and expected.
 - Speed and value-added responses prioritize customer needs.

Foundations of Agile

12 Principles

Customer Satisfaction

Priority: Satisfy the customer by delivering valuable software early and continuously.

Goal: Maximize customer happiness through frequent and useful updates.

Foundations of Agile – 12 Principles

Welcome Changing Requirements

Emphasis: Embrace changes, even late in development, to provide a competitive advantage.

Benefit: Agile processes adapt to evolving business needs.

Foundations of Agile – 12 Principles

Frequent Delivery

Frequency: Deliver working software at regular intervals, from a couple of weeks to a few months.

Objective: Ensure timely feedback and continuous progress.

Foundations of Agile – 12 Principles

Collaboration

Focus: Business people and developers must work together daily throughout the project.

Outcome: Enhanced communication and better understanding of requirements.

Foundations of Agile – 12 Principles

Empowered Individuals

Key: Build projects around motivated individuals and trust them to deliver.

Support: Provide the necessary environment and resources.

Foundations of Agile – 12 Principles

Face-to-Face Communication

Preference: The most efficient and effective way to communicate information is through face-to-face conversations.

Impact: Reduces misunderstandings and fosters collaboration.

Foundations of Agile – 12 Principles

Working Software

Definition: Working software is the primary measure of progress.

Philosophy: Focus on delivering functional products over extensive documentation.

Foundations of Agile – 12 Principles

Sustainable Development

Balance: Maintain a sustainable pace of work for teams and stakeholders.

Purpose: Prevent burnout and ensure long-term productivity.

Foundations of Agile – 12 Principles



Technical Excellence and Design

Foundation: Continuous attention to technical excellence and good design enhances agility.

Goal: Deliver robust, maintainable, and adaptable solutions.

Foundations of Agile – 12 Principles

Simplicity

Principle: Maximize the amount of work not done (focus on simplicity).

Approach: Eliminate unnecessary features and processes.

Foundations of Agile – 12 Principles



Self-Organizing Teams

Structure: The best architectures, requirements, and designs emerge from self-organizing teams.

Result: Empowered teams deliver better solutions.

Foundations of Agile – 12 Principles

Reflection and Adaptation

Practice: At regular intervals, the team reflects on how to become more effective and adjusts its behavior accordingly.

Goal: Continuously improve processes and performance.

Agile in Practice



- Customer focus.
- Collaboration and communication.
- Frequent, value-driven deliveries.
- Simplicity and adaptability.

Summary

Agile Manifesto: Values + Principles.

Core Values: Collaboration, working software, adaptability.

Guiding Principles: Customer satisfaction, frequent delivery, technical excellence.

Agile = People-focused, iterative, and flexible.