



Agile methodology definition:

- Modern, well-known, wide used software project methodology
- Started in 2000
- The **goal** is: **speed up development times** in order bring new software to market faster
- This goal can be achieved by :
  1. Shortening the deployment time
  2. Getting feedback from users quickly -> the client , involved in each step of SDLC
- The **success** of the Agile process **depends on**:
  - \* Short & quick (increments in a couple of weeks and the fully functional version in a few months)
  - \* Self-organized team
  - \* Each team member
  - \* Communication
  - \* quickly adjust the working process
  - \* Quick feedback
- To implement the Agile in a company/team, first each member should know **Agile-Manifesto**

The Agile Manifesto is an advisory, public advice which contains the values and principles to follow in the Agile methodology.

Agile Manifesto = 4 **Agile Values** & 12 **Agile Principles**

**Agile Manifesto:**  
**4 values**  
**12 principles**

Agile 4 Values

- 1- Trust **individuals** and prefer **interactions** over processes and tools
- 2- **Focus** on delivering working **software** rather than complete documentation
- 3- More **customer involvement** than just negotiation
- 4- Willing to **accommodate changes** instead of being rigid to a plan

Agile 12 Principles / rules

- 1- **Satisfy the customer** - Short development cycles, quick delivery, and happy customer
- 2- **Accept changes**, revise goals
- 3- **Continuous delivery** of working software
- 4- **Collaboration** between all stakeholders throughout the project;
- 5- **Trust & support** - Show confidence in the people involved
- 6- **Face-to-face conversation** - Allow transparent **interactions**
- 7- **Working software** defines the progress
- 8- **Maintain constant pace**; Agile processes to normalize the development speed
- 9- **Good ideas & improvement**; Continues attention on technical details
- 10- **Simplicity**
- 11- **Self-organizing** is the key to good architectures, requirements, and designs
- 12- **Revisit** how to become more efficient

Advantages

- **Better time-to-time market**
- Is a very realistic approach to software development.
- **Strong collaboration**
- **Accept changes** at any time
- project goal is defined with the client
- Project Improved Quality

Disadvantages

- **Planning may be weak**
- Lack of documentation
- Training and Skill Required
- Organizational Transformation - business & development members

