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 , involvded 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
 - Self-organized teamEach 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 princples

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 customer2- 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
- 7- Working software defines the progress8- 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

► Better time-to-time market

Advantages

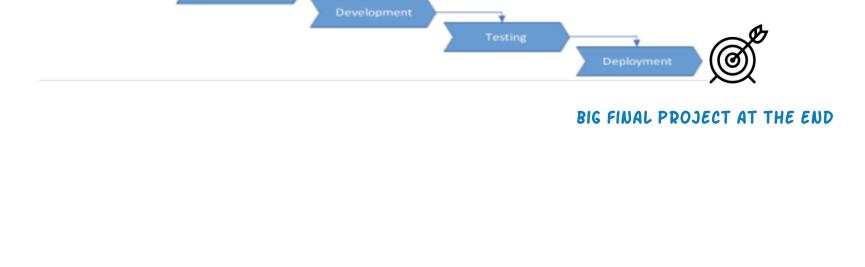
- ▶ Is a very realistic approach to software development.
- ► Strong collaboration
- ► Accept changes at any time
- project goal is defined with the clientProject Improved Quality

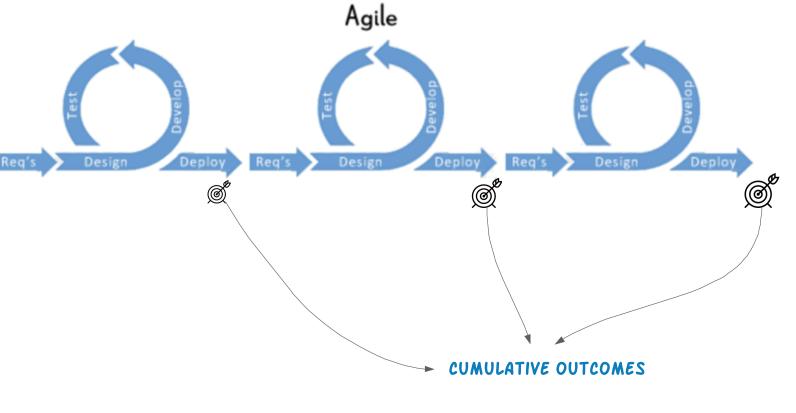
► Planning may be weak

Disadvantages

- Lack of documentationTraining and Skill Required
- Organizational Transformation business & development members

Waterfall





CYDEO