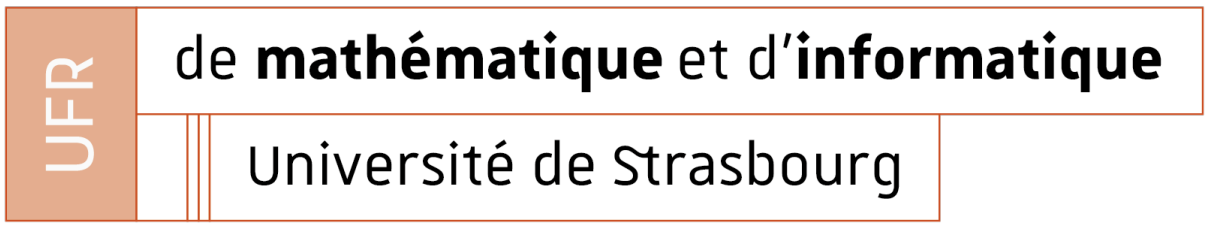
Introduction to Agile Software Development



Carpi Lapi, Regardin, Senger, Sengler

February 7, 2024

What is Agile methodology?

The Agile methodology is a project management approach that involves:

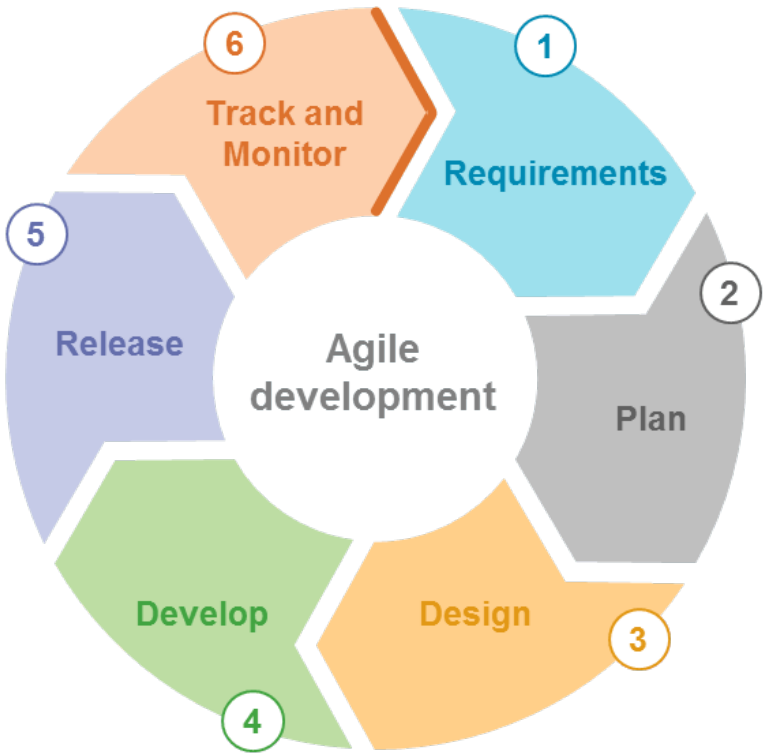
- breaking the project into phases
- emphasizes continuous collaboration and improvement

Teams follow a cycle of:

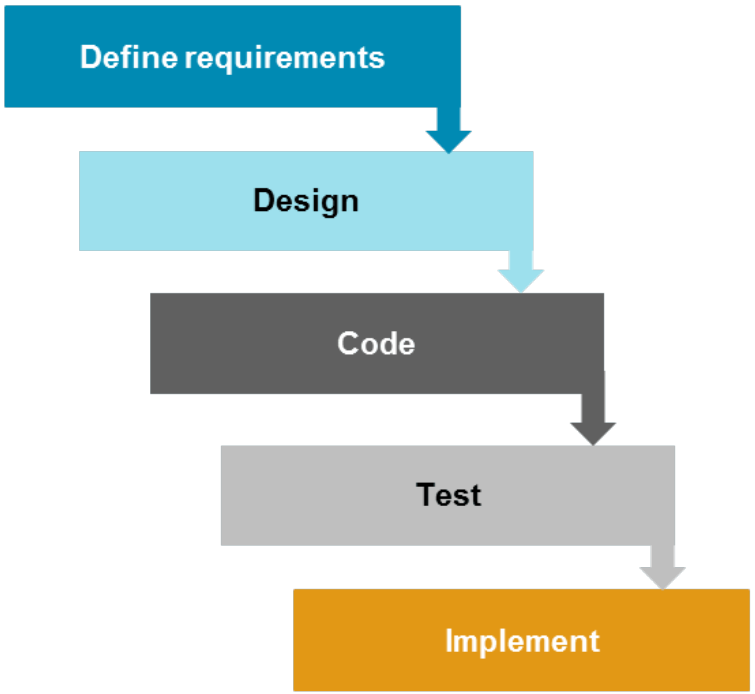
- planning
- executing
- evaluating

Agile vs Waterfall

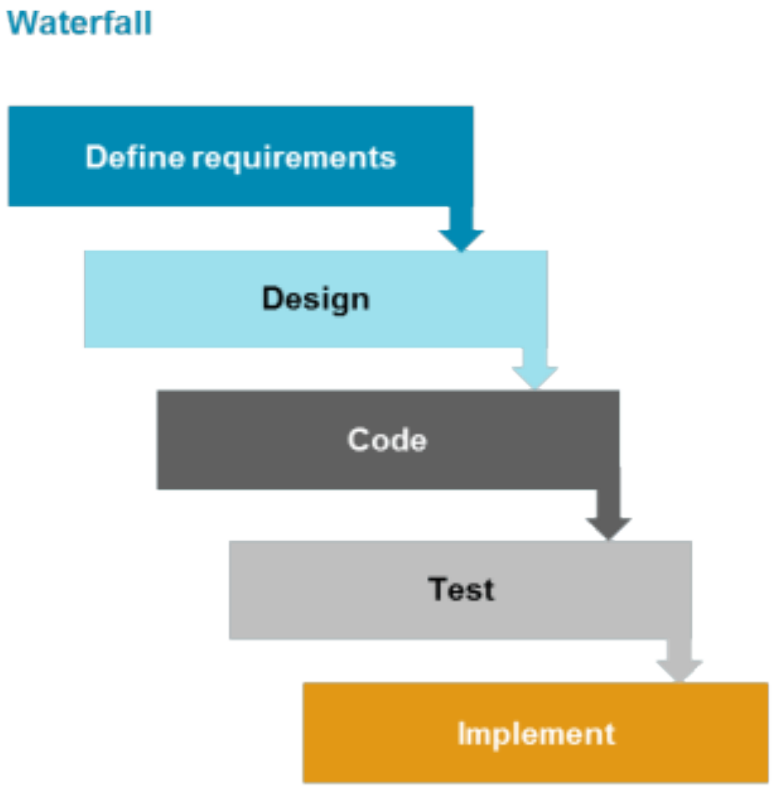
Agile



Waterfall

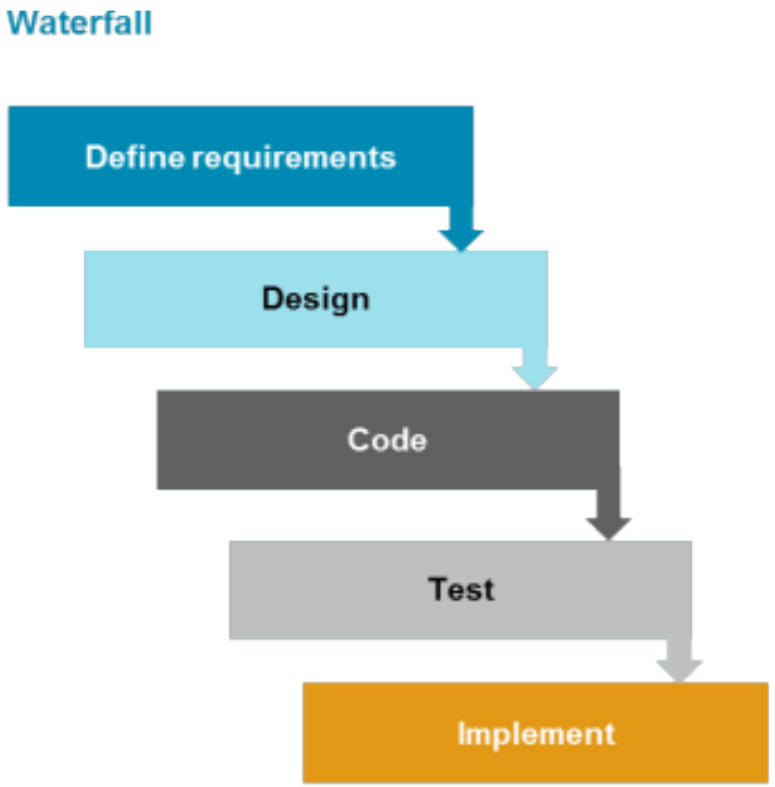


Agile vs Waterfall



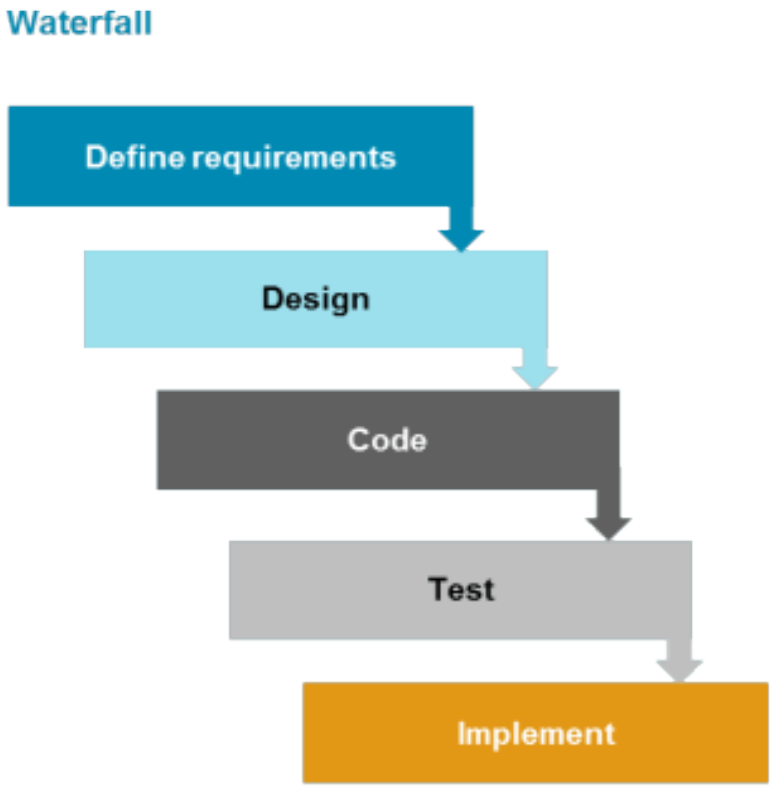
Agile vs Waterfall

- Emphasizes detailed upfront **planning**



Agile vs Waterfall

- Emphasizes detailed upfront **planning**
- Progress is measured by meeting project **milestones**



Agile vs Waterfall

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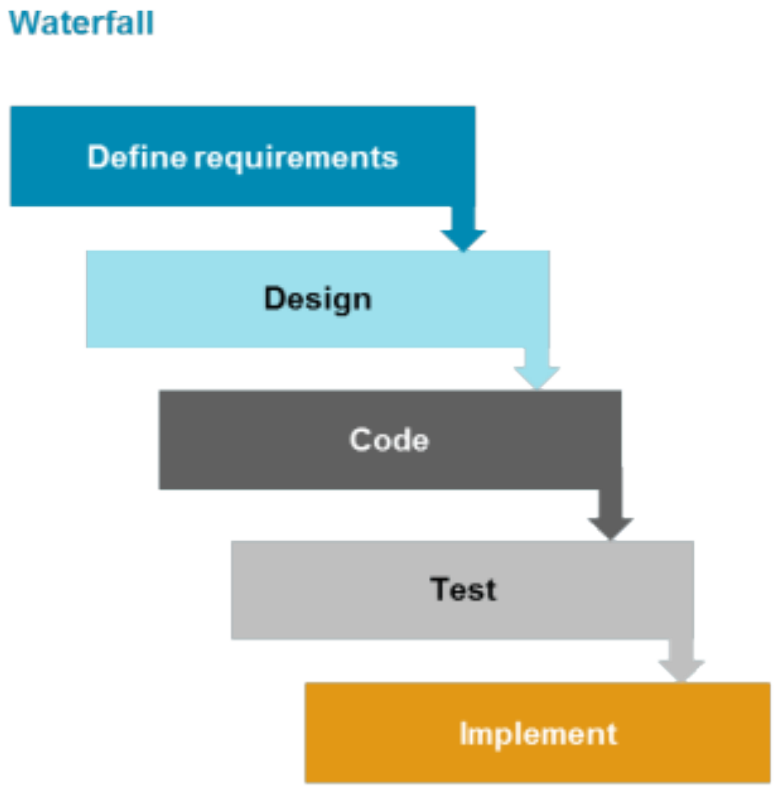
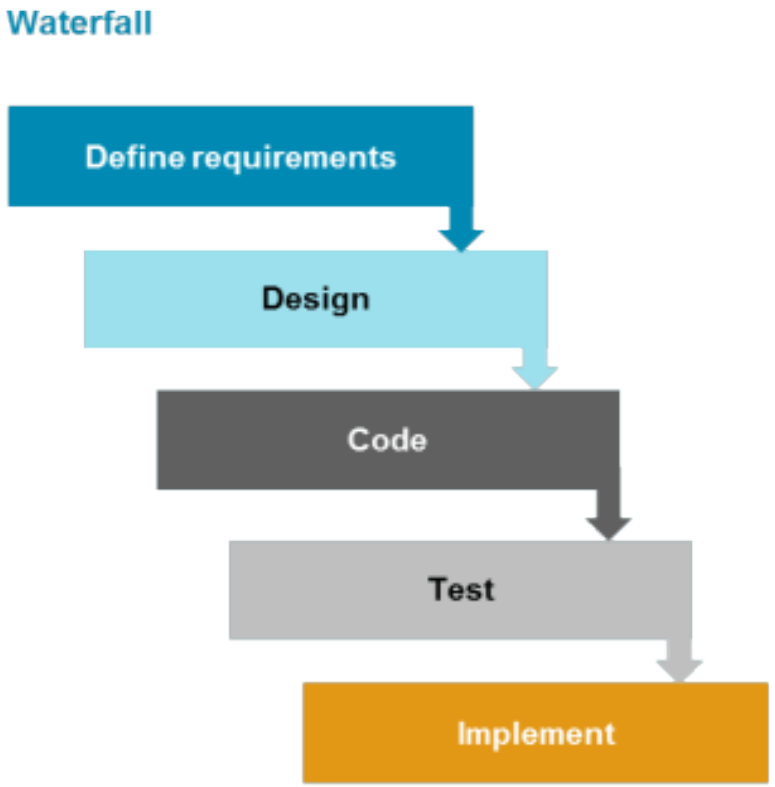
- Rigidity can lead to **difficulties in responding to changes**



Agile vs Waterfall

- Emphasizes detailed upfront **planning**
- Progress is measured by meeting project **milestones**
- Rigidity can lead to **difficulties in responding to changes**
- Suitable for projects with **well-defined requirements**



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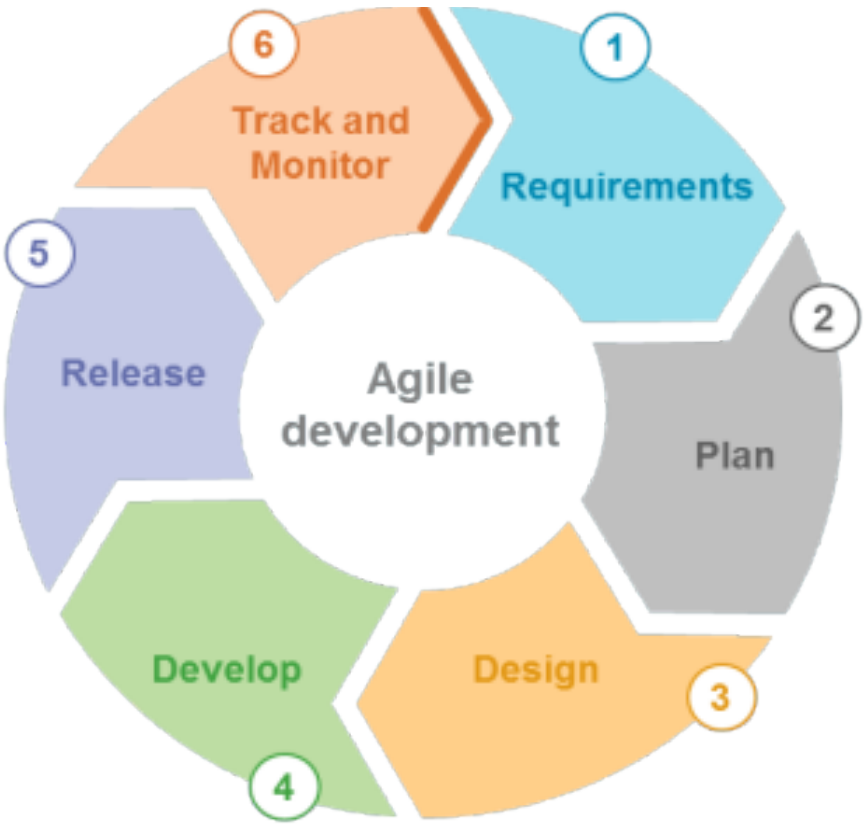
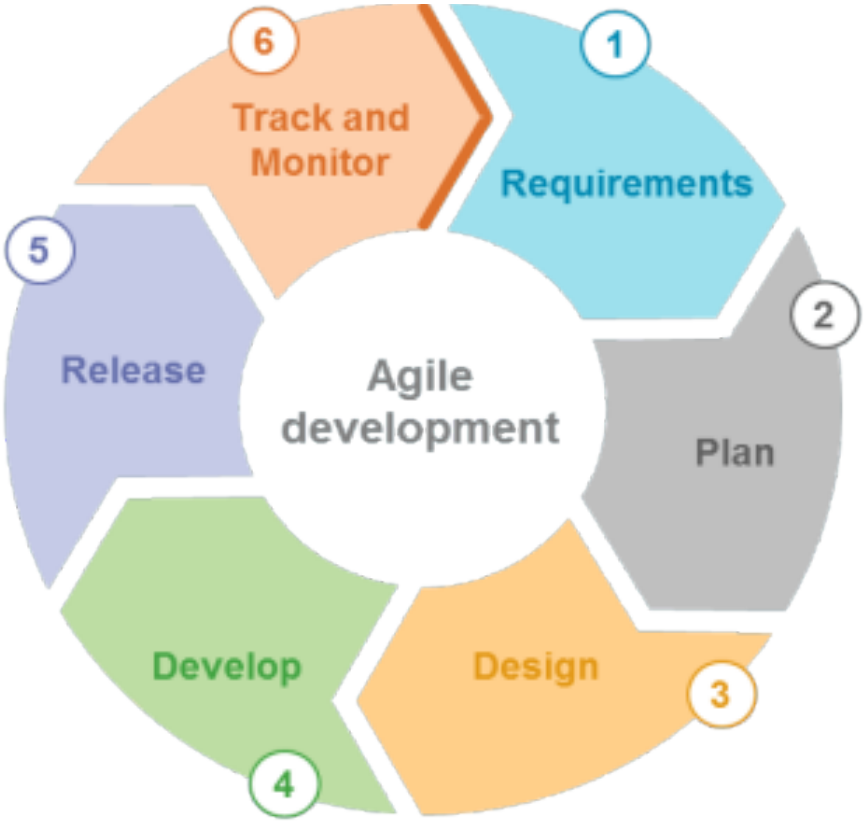
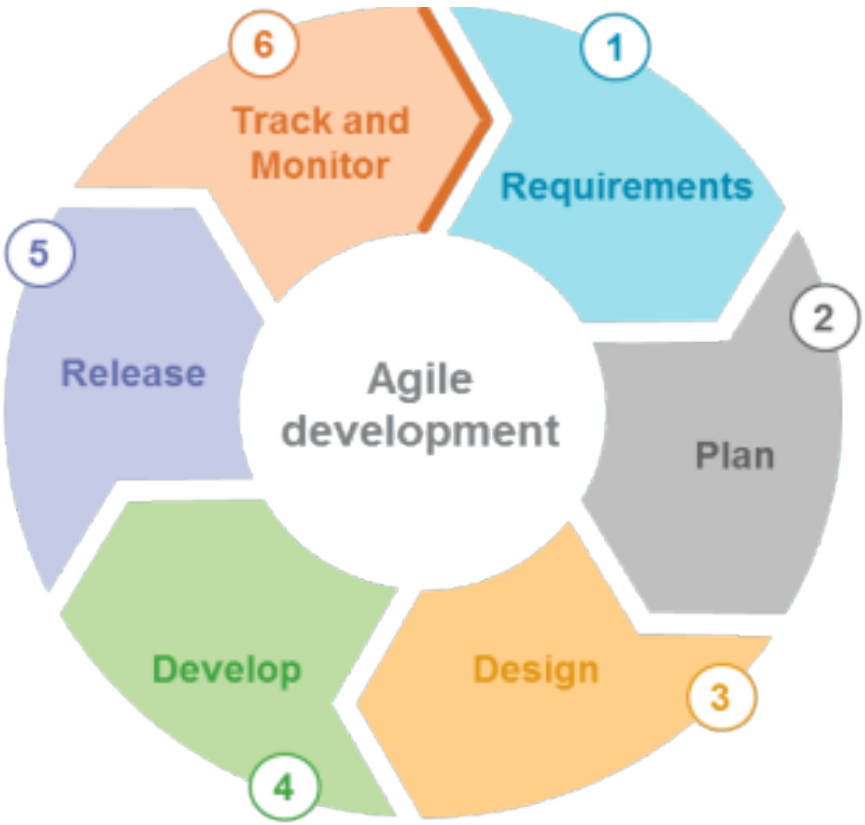


Agile vs Waterfall



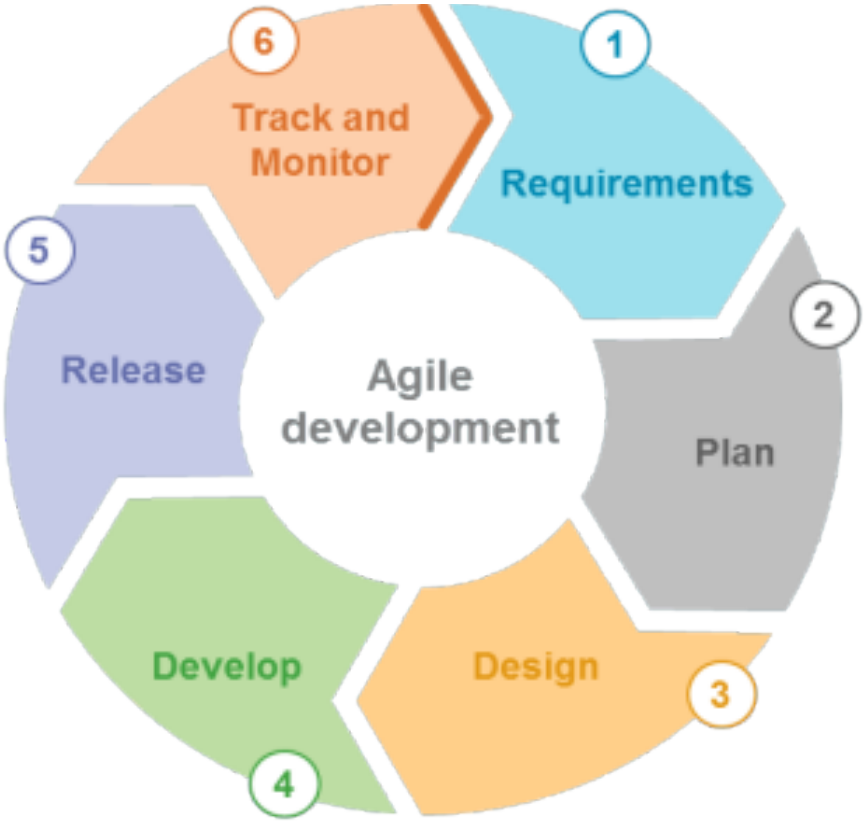
- **Iterative** and incremental development

Agile vs Waterfall



- **Iterative** and incremental development
- Customer **feedback** is incorporated throughout the process

Agile vs Waterfall



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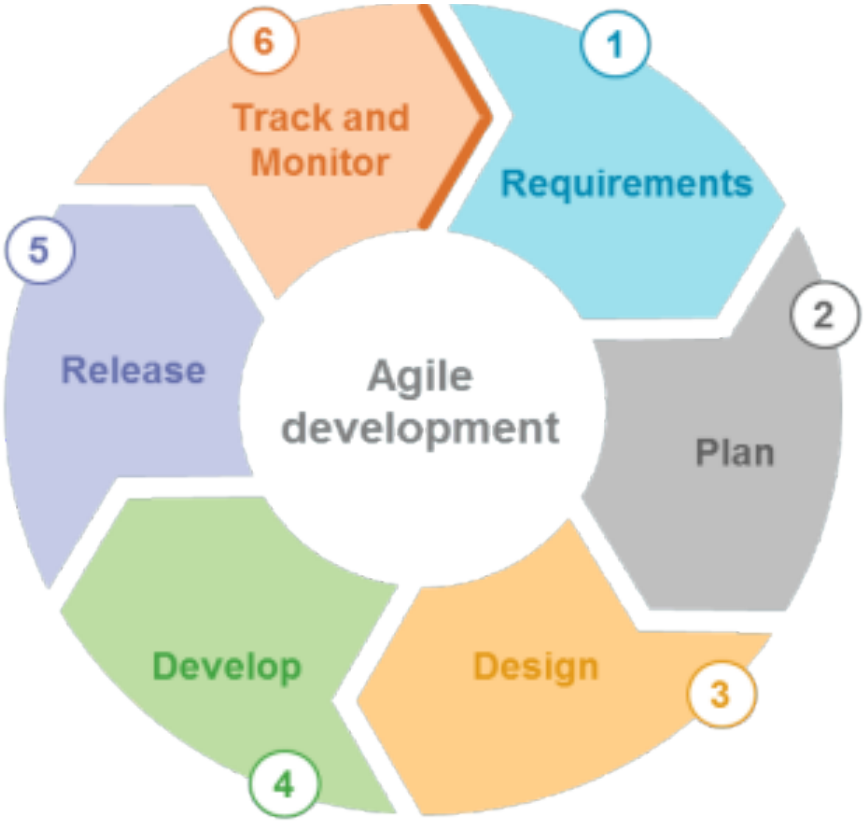
- Customer **feedback** is incorporated throughout the process
- Embraces **flexibility** and customer collaboration

Agile vs Waterfall



- **Iterative** and incremental development
- Customer **feedback** is incorporated throughout the process
- Embraces **flexibility** and customer collaboration
- **Adaptive approach** to changing requirements

General Agile guideline

Marie

The Agile Timeline

Antoine

Pros and Cons of the Agile Method

Antoine

Conclusion

Remain flexible, stay agile !

References

- https://www.youtube.com/watch?v=goJu-DFGJ0o
- https://www.youtube.com/watch?v=1evfn3qTYGM
- https://project-management.com/agile-project-management/