SNS COLLEGE OF TECHNOLOGY

(An Autonomous Institution)

Re-accredited by NAAC with A+ grade, Accredited by NBA(CSE, IT, ECE, EEE & Mechanical)

Approvedy by AICTE, New Delhi, Recognized by UGC, Affiliated to Anna University, Chennai

Department of MCA

Topic: **AGILE CONTEXT - MANIFESTO (VALUES) - PRINCIPLES**

Course

23CAE718
AGILE SOFTWARE DEVELOPMENT

Unit I

AGILE CONTEXT – MANIFESTO (VALUES) - PRINCIPLES

Elective

II Semester / I MCA

Need of **AGILE SOFTWARE DEVELOPMENT**

Core Values of Agile

values of Agile that are mentioned in the Agile Manifesto:

Individuals and interactions over tools and processes

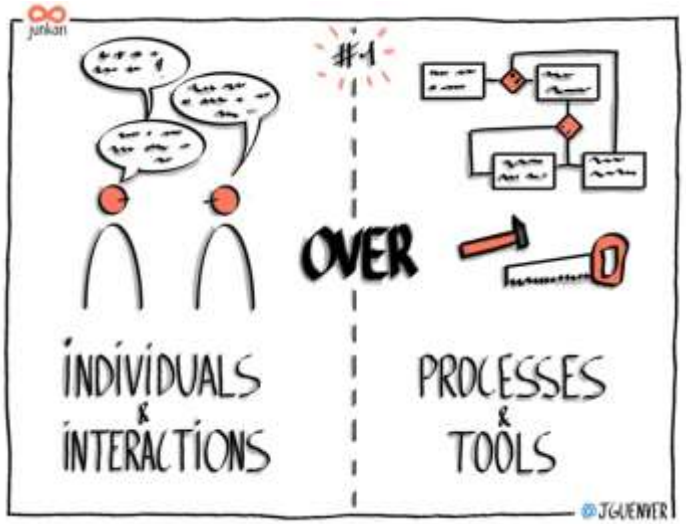
Working product over comprehensive documents

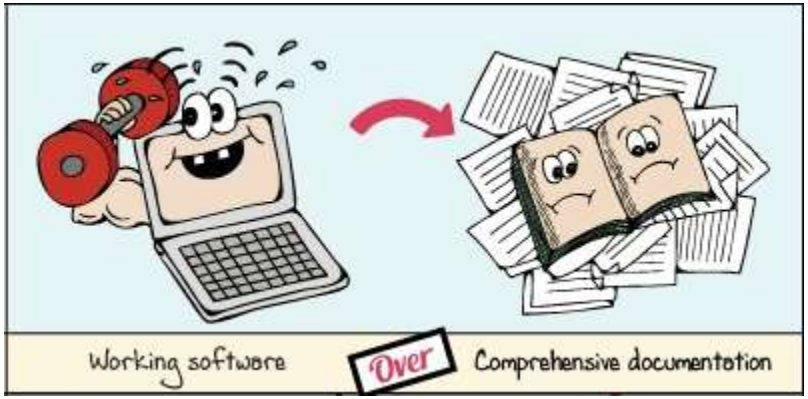
Customer collaboration over contract negotiation

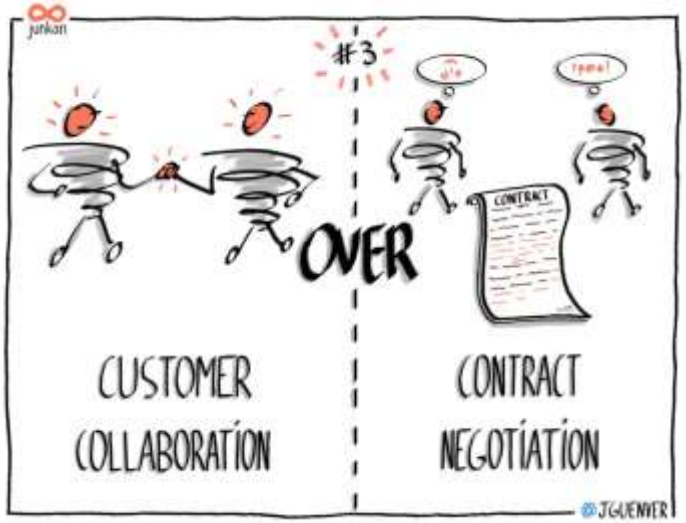
Responding to changes over following a plan

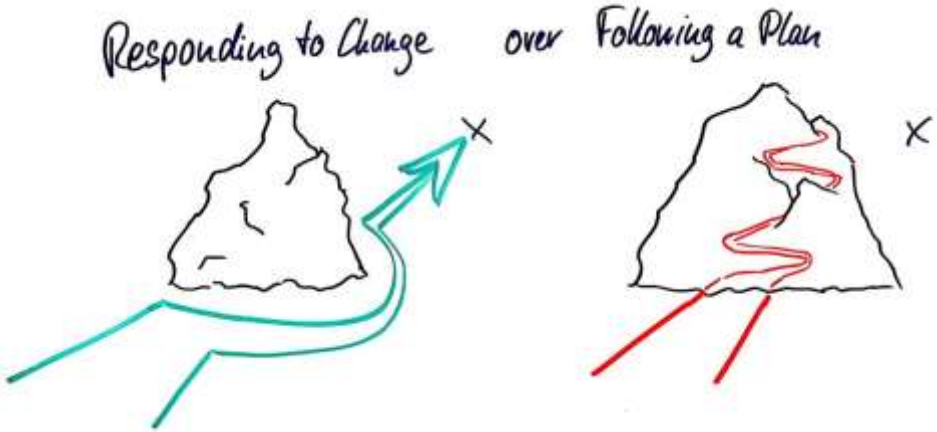
Need of **AGILE SOFTWARE DEVELOPMENT**

Core Values of Agile



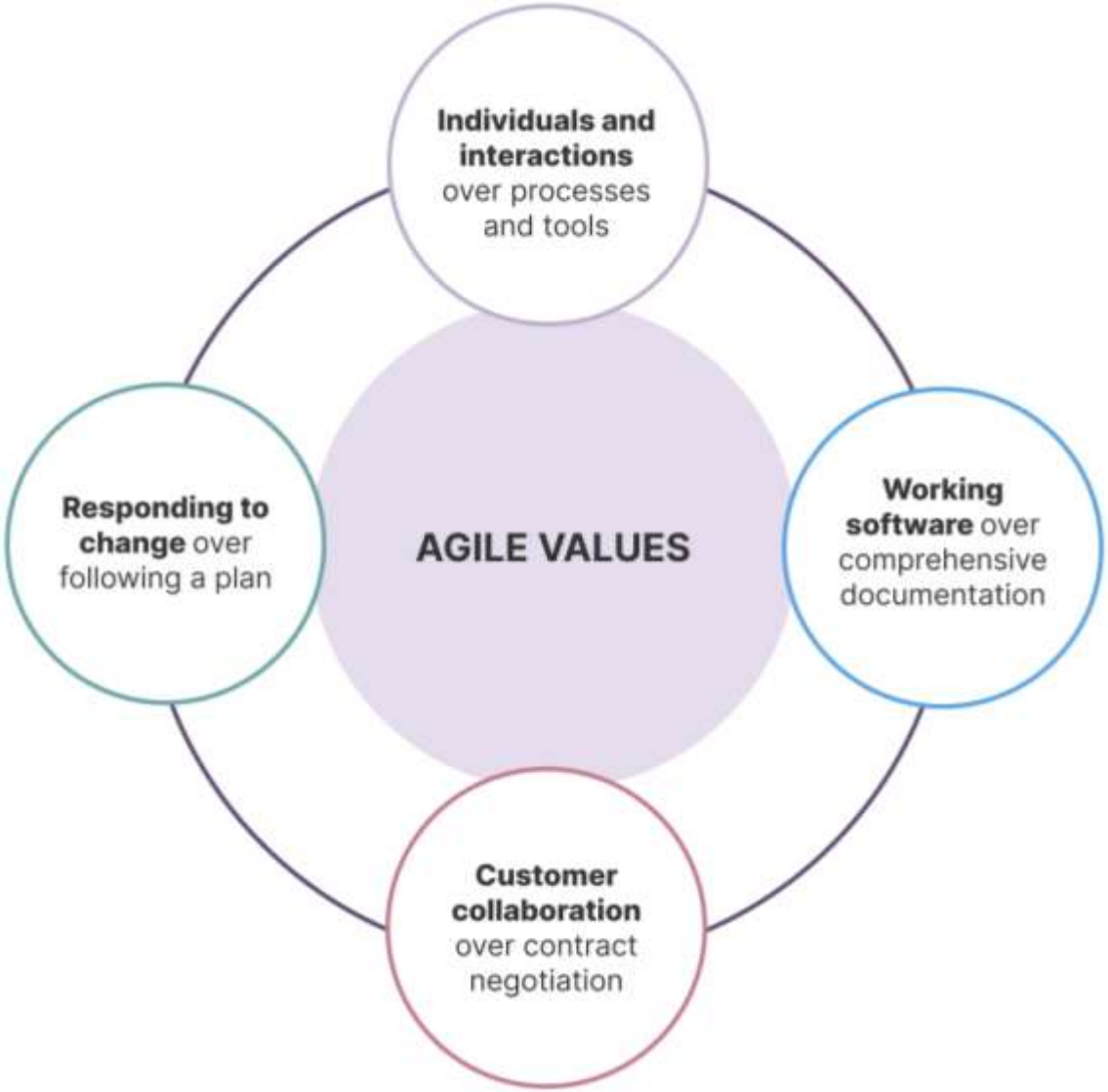






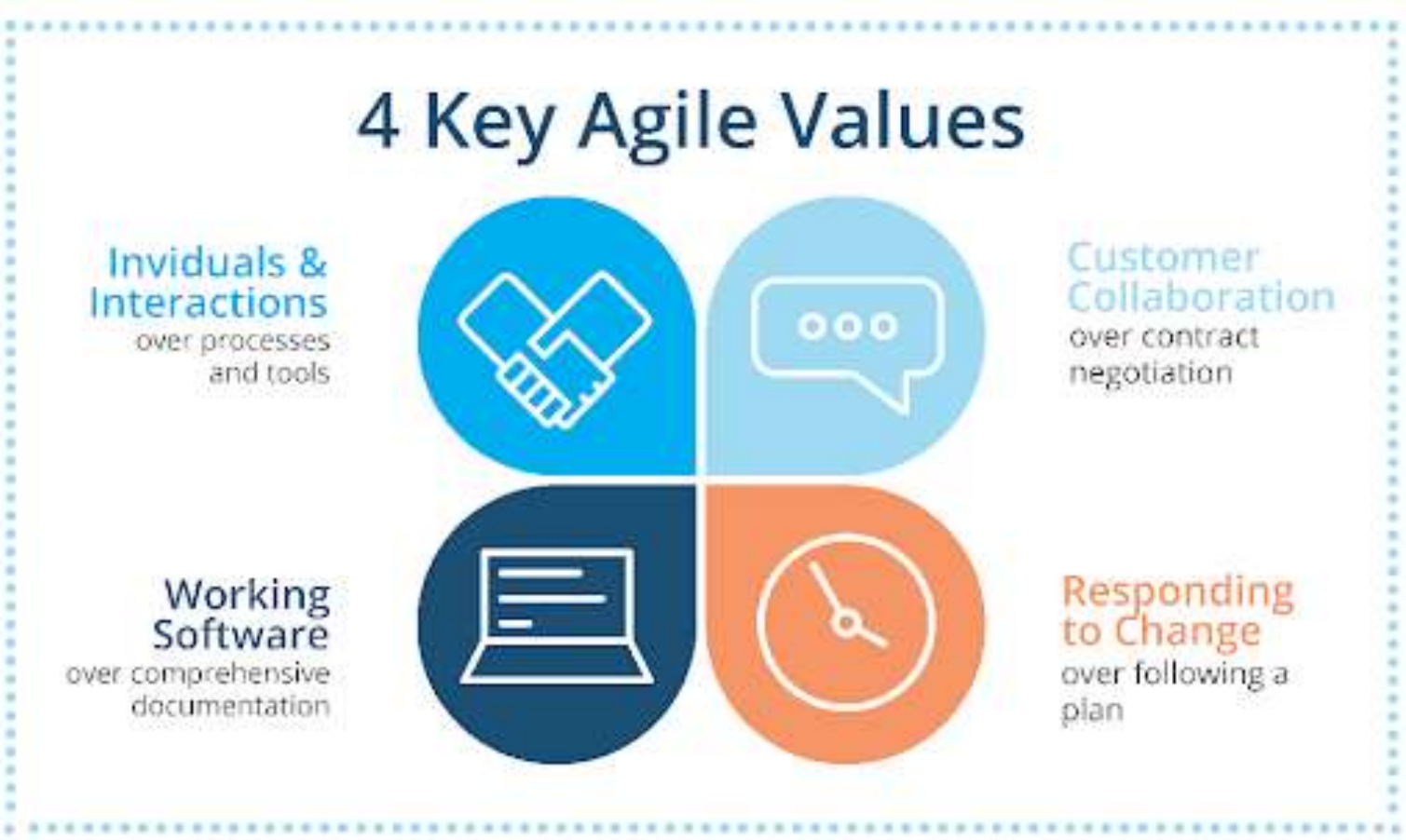
Need of **AGILE SOFTWARE DEVELOPMENT**

Core Values of Agile



Need of **AGILE SOFTWARE DEVELOPMENT**

Core Values of Agile



AGILE – CONTEXT – 12 PRINCIPLES

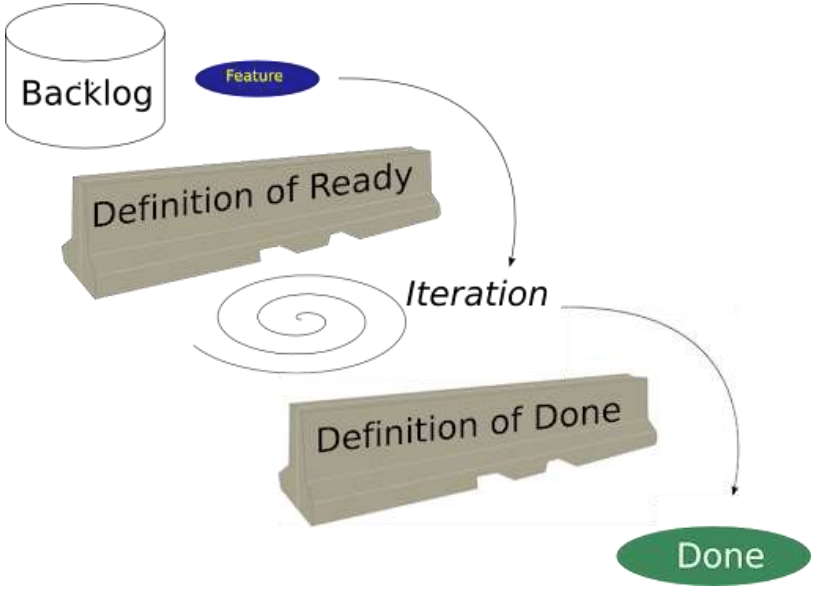
Agile Principles

Focus on customer satisfaction:

AGILE – CONTEXT – 12 PRINCIPLES

Accept changes

Deliver work frequently



AGILE – CONTEXT – 12 PRINCIPLES

Work as a team

Work with a motivated team

AGILE – CONTEXT – 12 PRINCIPLES

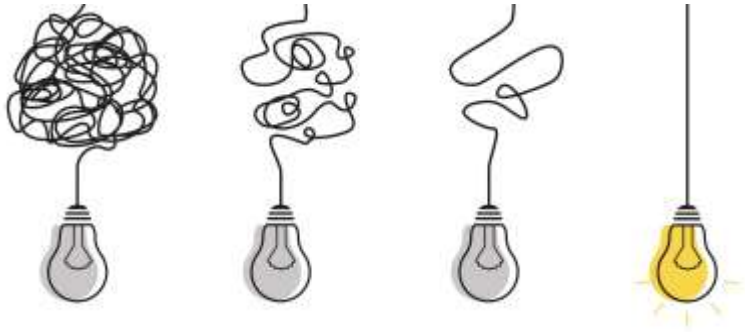
Have face-to-face interactions with the team

Focus on the working product

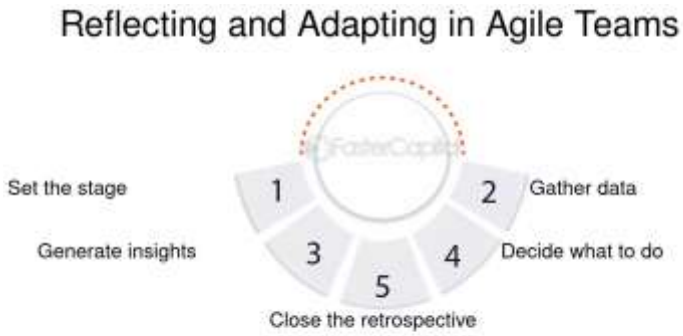
AGILE – CONTEXT – 12 PRINCIPLES

Ensure sustainable development

Have simplicity



Maintain a self-organizing team



AGILE – CONTEXT – 12 PRINCIPLES

Agile Principles

Focus on customer satisfaction: The first priority of Agile is to ensure customer satisfaction via quick and continuous delivery of necessary products.

Accept changes: It is important to address the changes in requirements, even if they are introduced late in the development process. Agile implements changes to help companies gain a competitive advantage over their rivals.

Deliver work frequently: The product needs to be delivered frequently, keeping in mind the shortest timescale for customer preference.

Work as a team: The development team and the business team must work together for the entire duration of a given project.

AGILE – CONTEXT – 12 PRINCIPLES

Work with a motivated team: While working with a team, ensure that the team members are trusted, motivated, and have faith in the project. You must also create an environment where the team members can work with each other and receive the support required.

Have face-to-face interactions with the team: Having face-to-face conversations and interactions with team members is among the most effective methods for communicating and conveying the required information.

Focus on the working product: The significant measure that shows progress is the working software; it indicates the progress toward the final result.

Ensure sustainable development: Agile methods can promote sustainability when developers, sponsors, and users are able to maintain a regular and constant pace.

AGILE – CONTEXT – 12 PRINCIPLES

Have simplicity: It is important to have simplicity in your product to waste minimal time, use most of the time efficiently, and get the work done.

Maintain a self-organizing team: The best type of design and architecture can only be achieved through a team consisting of self-organizing members.

Reflect and update: The team reflects on making the product more effective regularly. The team further adjusts and makes improvements in the features of the product.

AGILE – CONTEXT – 12 PRINCIPLES

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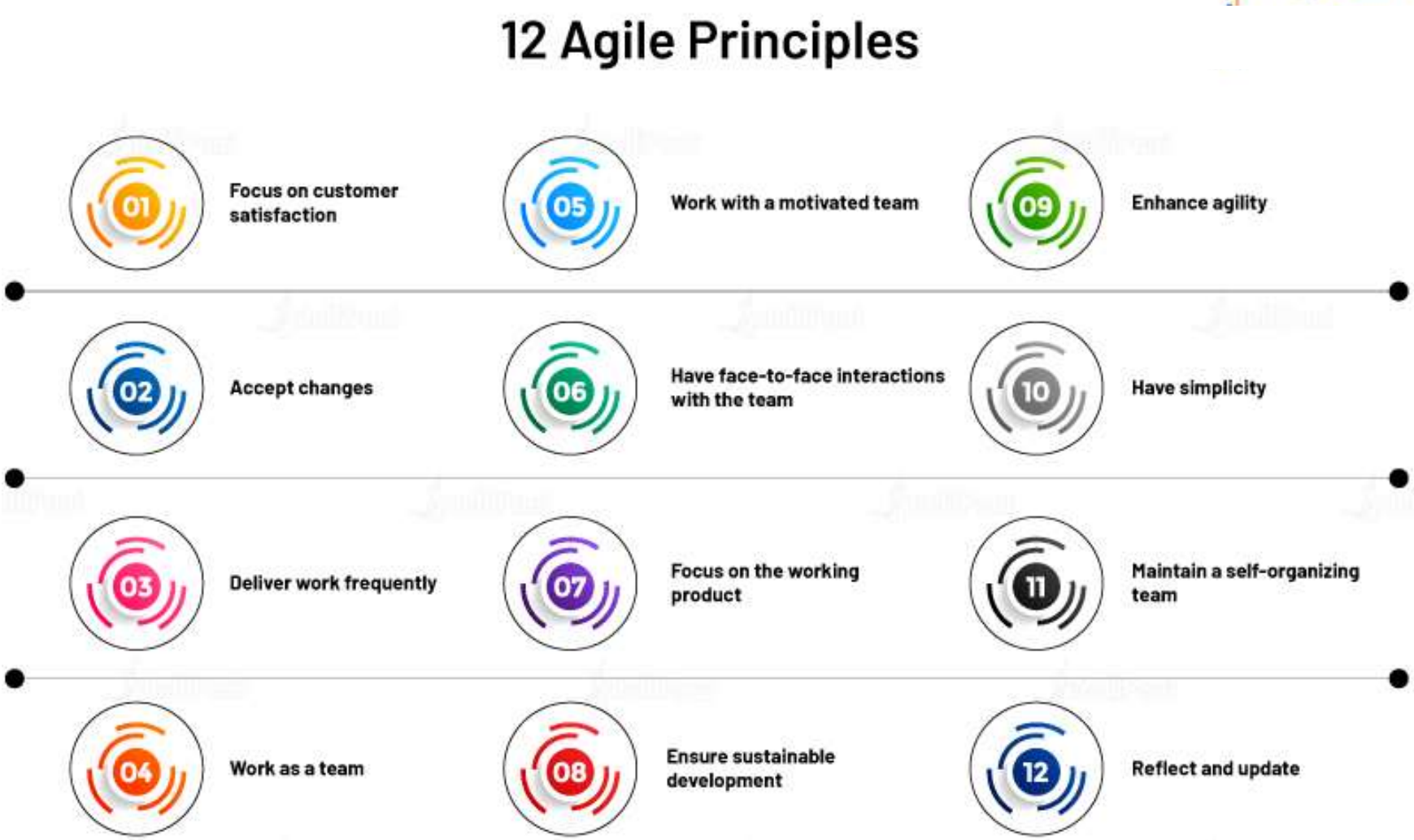

AGILE – CONTEXT – 12 PRINCIPLES

Customer Satisfaction: Manifesto provides high priority to satisfy the costumer's requirements. This is done through early and continuous delivery of valuable software.

Welcome Change: Making changes during software development is common and inevitable. Every changing requirement should be welcome, even in the late development phase. Agile process works to increase the customers' competitive advantage.

Deliver the Working Software: Deliver the working software frequently, ranging from a few weeks to a few months with considering the shortest time period.

Collaboration: Business people (Scrum Master and Project Owner) and developers must work together during the entire life of a project development phase.

Motivation: Projects should be build around motivated team members. Provide such environment that supports individual team members and trust them. It makes them feel responsible for getting the job done thoroughly.

AGILE – CONTEXT – 12 PRINCIPLES

Face-to-face Conversation: Face-to-face conversation between Scrum Master and development team and between the Scrum Master and customers for the most efficient and effective method of conveying information to and within a development team.

Measure the Progress as per the Working Software: The working software is the key and primary measure of the progress.

Maintain Constant Pace: The aim of agile development is sustainable development. All the businesses and users should be able to maintain a constant pace with the project.

Monitoring: Pay regular attention to technical excellence and good design to maximize agility.

Simplicity: Keep things simple and use simple terms to measure the work that is not completed.

Self-organized Teams: The Agile team should be self-organized. They should not be depending heavily on other teams because the best architectures, requirements, and designs emerge from self-organized teams.

Review the Work Regularly: The work should be reviewed at regular intervals, so that the team can reflect on how to become more productive and adjust its behaviour accordingly.

References

Text Books

1. Ken Schawber, Mike Beedle, “Agile Software Development with Scrum”, International Edition, Pearson.

2. Robert C. Martin, “Agile Software Development, Principles, Patterns and Practices”, First International Edition, Prentice Hall.

Web Resources

- https://www.myagilepartner.com/blog/index.php/2019/04/10/scrum-model/
- https://www.edureka.co/blog/what-is-agile-methodology/
- https://intellipaat.com/blog/what-is-agile/

Thank you