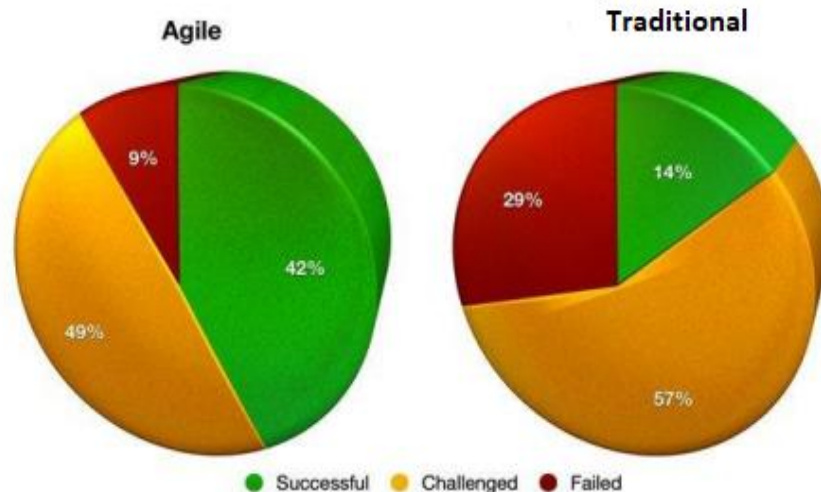**AGILE DEVELOPMENT TECHNIQUE**

AGILE::: What it means?

- Agile has become a word describing a modern software process.

- A term used to describe "lightweight" development

- A methodology for iteratively developing products

2012/2015 Standish (most used) Chaos Report:

An agile team is a team able to respond to changes. Changes in the software being built, changes to the team members, changes because of new technology, and changes of all kinds that may have an impact on the product they build. An agile team recognizes that software is developed by individuals working in teams and that the skills of these people, their ability to collaborate is at the core for the success of the project.

But agility is more than an effective response to change. It:

- Encourages team structures that make communication (among team members, between technologists and business people, between software engineers and their managers) more easy.
- It emphasizes rapid delivery of operational software.
- It adopts the customer as a part of the development team and works to eliminate the "us and them".

AGILITY PRINCIPLES:

The Agile Alliance defines 12 agility principles for those who want to achieve agility:

1. Our highest priority is to satisfy the customer through early and continuous delivery of valuable software.

2. Welcome changing requirements, even late in development

3. Deliver working software frequently, from a couple of weeks to a couple of months.

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

5. Build projects around motivated individuals. Give them the environment and support they need, and trust them to get the job done.

6. The most efficient and effective method of conveying information to and within a development team is face-to-face conversation.

7. Working software is the primary measure of progress.

8. Agile processes promote sustainable development. The sponsors, developers, and users should be able to maintain a constant pace indefinitely.

9. Continuous attention to technical excellence and good design enhances agility.

10. Simplicity is essential.

11. The best architectures, requirements, and designs emerge from self–organizing teams.

12. At regular intervals, the team reflects on how to become more effective, then adjusts its behavior accordingly.

Not every agile process model applies these 12 principles with equal weight, and some models choose to ignore the importance of one or more of the principles.

The Impact of Agile Software Development Process on the Quality of Software Product

Agile being one of the quickest methodologies for software development, allows the quality product to be delivered to the customer side. The product quality always depends upon level of satisfaction of the customers. The higher the level of satisfaction, the higher will be the quality of the product. However, it has been observed by different developers that only if the process quality is as per the requirements the product quality will be as expected, "process with high quality standards yields products with high quality standards". One can define process quality as a process that conforms to defined process specifications to get good quality product.

Overall quality is much more complicated term than it appears. There are varieties of perspectives for consideration for example, customer's perspective, developer's perspective, tester's perspective, specification based perspective, manufacturing based perspective, and quality assurance based perspective and many more.

Agile based- Different Software Quality Perspectives