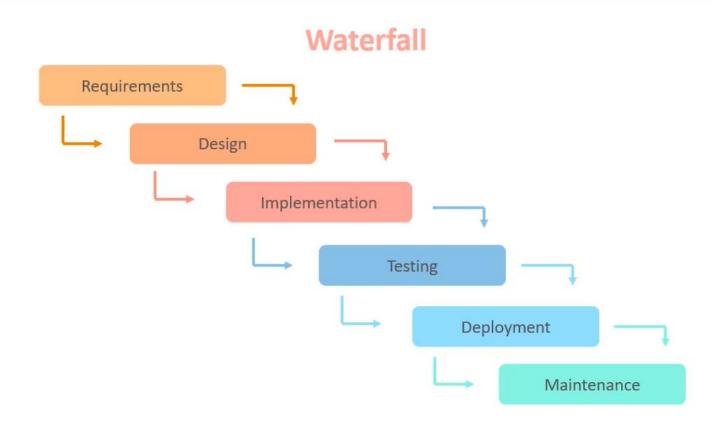
GIS RNRICH PROGFRAM (MODULE 2)

Agile Methodology

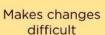
What Issues does Agile help us Resolve?





These are some of the reasons why the move to an alternative to the waterfall model was necessary:







It doesn't focus on the end-user/ client



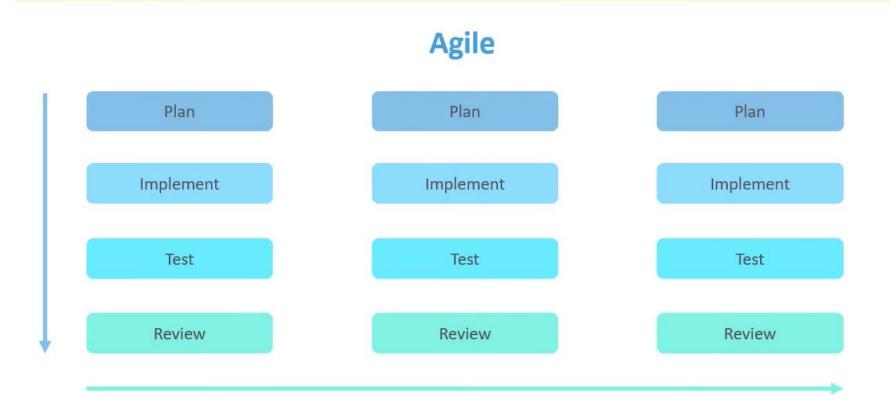
The testing phase is delayed until most of the project is completed



Measuring the progress within stages is difficult

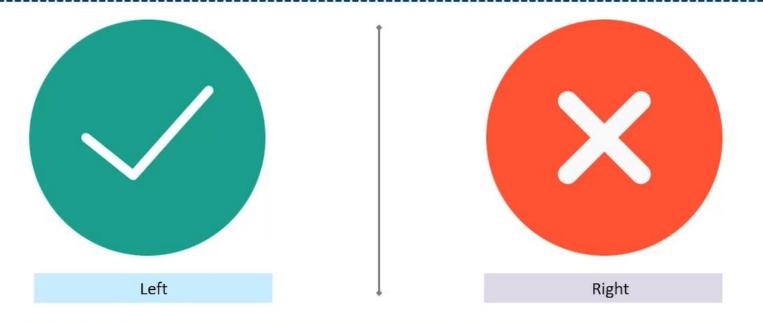


What Issues does Agile help us Resolve?





We are uncovering better ways of developing software by doing it and helping others do it. Through this work we have come to value:



That is, while there is value in the items on the right, we value the items on the left more.

1



Individuals and interactions



Processes and Tools.

2



Working Software



Comprehensive Documentation

3



Customer Collaboration



Contract Negotiation

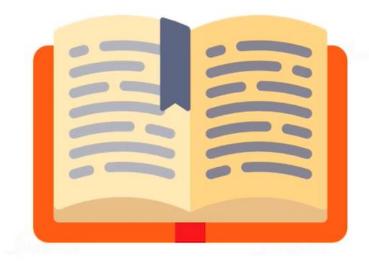




Responding to a change



Following a plan



Agile Principles



What are the benefits of Agile?



Transparency





Transparency

Predictable Costs and Schedule



Transparency



Predictable Costs and Schedule



Allows for Change



Transparency



Predictable Costs and Schedule



Allows for Change

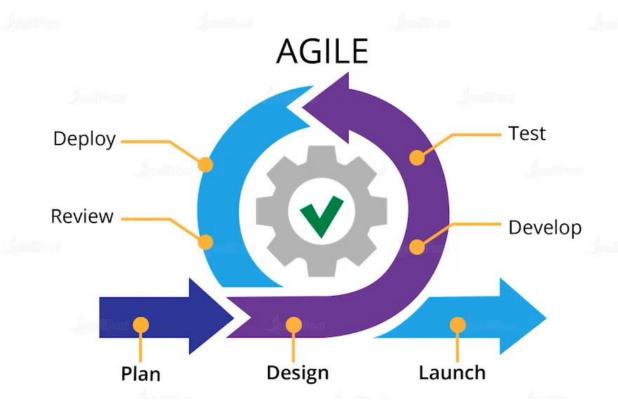


Improves Quality



How to implement Agile?

How to implement Agile?





Here are some of the principles that need to be followed to a make a process agile:



1 Customer Satisfaction

You need to satisfy the customer through early and quick delivery of the product



Here are some of the principles that need to be followed to a make a process agile:



2 Welcome Change

Changing needs need to be addressed, even late in the development process



Here are some of the principles that need to be followed to a make a process agile:



2 Welcome Change

Changing needs need to be addressed, even late in the development process

Agile Principles

The Agile Manifesto

Here are some of the principles that need to be followed to a make a process agile:



3 Deliver Frequently

Ensure software is delivered frequently, focusing on a shorter timescale



Here are some of the principles that need to be followed to a make a process agile:



4 Work Together

Developers and business individuals need to work together through the course of the project



Here are some of the principles that need to be followed to a make a process agile:



5 Motivated Team

Projects need to be built around motivated individuals and they must be trusted to get the job done



Here are some of the principles that need to be followed to a make a process agile:



6 Face-to-face

Face-to-face conversation is the most efficient means of communication

Agile Principles

The Agile Manifesto

Here are some of the principles that need to be followed to a make a process agile:



7 Working Software

Working software is the primary measure of progress

Agile Principles

The Agile Manifesto

Here are some of the principles that need to be followed to a make a process agile:



8 Constant Pace

The agile process promotes sustainable development



Here are some of the principles that need to be followed to a make a process agile:



9 Good Design

Agility can be improved by focusing on technical excellence and good design



Here are some of the principles that need to be followed to a make a process agile:

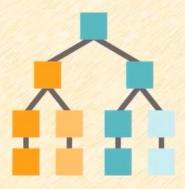


10 Simplicity

The amount of work that's not being done needs to be minimized



Here are some of the principles that need to be followed to a make a process agile:



11 Self-organization

Self-organized teams provide the best architectures, requirements, and designs



Here are some of the principles that need to be followed to a make a process agile:



12 Reflect and Adjust

Effectiveness can be improved by the team regularly reflecting on it



Agile Practices

Practices of Agile



Daily standup



Sprints



Splitting user stories



Pair programming



Test-driven development



Agile Frameworks

Agile Frameworks:

