

## ☐ Different Agile Approaches and their comparative Analysis.

- 1) How it works?
- 2) Applicability?
- 3) Effectiveness in terms of costs?

### Solution

Agile methodology is a group of project management and product development approaches that prioritize flexibility, collaboration, and customer satisfaction. There are several Agile approaches, each with its unique characteristics and application contexts. Here's a comparative analysis of some popular Agile approaches, focusing on how they work, their applicability, and their effectiveness in terms of costs.

#### 1. Scrum:

##### How it works:

→ Scrum is a framework that divides the work into sprints.



- A team works on a backlog of tasks which are prioritized by the Product owner.
- Scrum involves several roles: Scrum Master, who facilitates the process.
- It uses ceremonies like Daily Standups, Sprint Planning, Sprint Review and Sprint Retrospective.

### Applicability:-

- Best suited for: Projects with rapidly changing or evolving requirements.
- Teams: Work well with cross-functional teams.
- Project size: Suitable for both small and medium-sized projects.



## Effectiveness in terms of Costs:-

- Cost-effective: Scrum promotes iterative progress and early delivery.
- Efficiency: By focusing on incremental development, scrum avoids extensive upfront planning.

## 2. Kanban:

### How it works:-

- Kanban focusses on visualizing the flow of tasks via a kanban board with columns.
- There is no fixed iteration length like in scrum.



### Applicability:

- Best suited for: Projects where work arrives unpredictably and tasks need to be
- Teams: Ideal for teams with steady or varied work streams.

### Effectiveness:

- Cost Effective: Kanban optimizes the flow of work, reducing delays and the need for rework.
- Efficiency: Reduces bottlenecks and inefficiencies by limiting WIP.