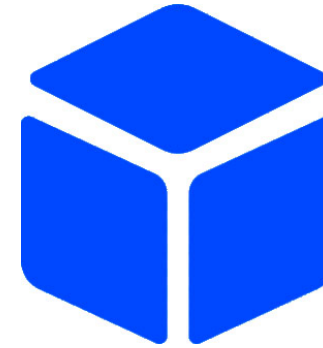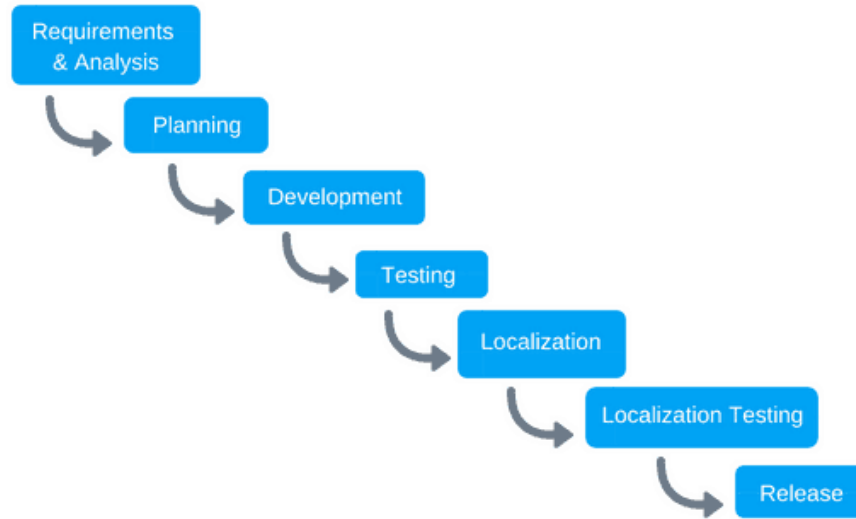# AGILE DEVELOPMENT

Software Development

Off-The-Shelf Product

Competitive Service
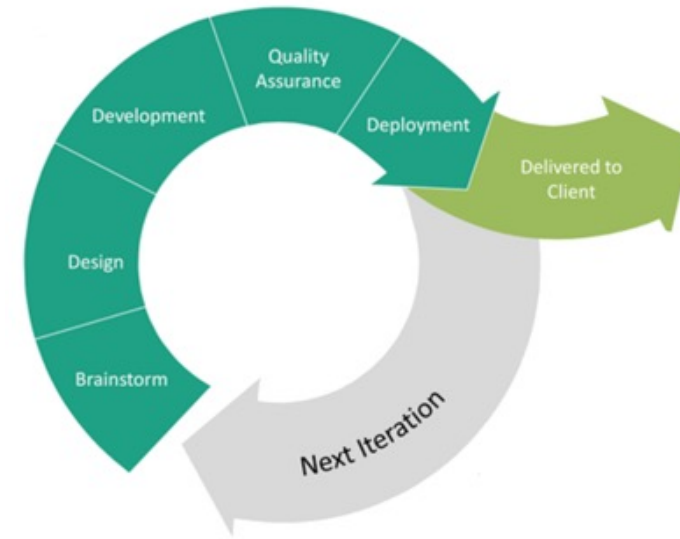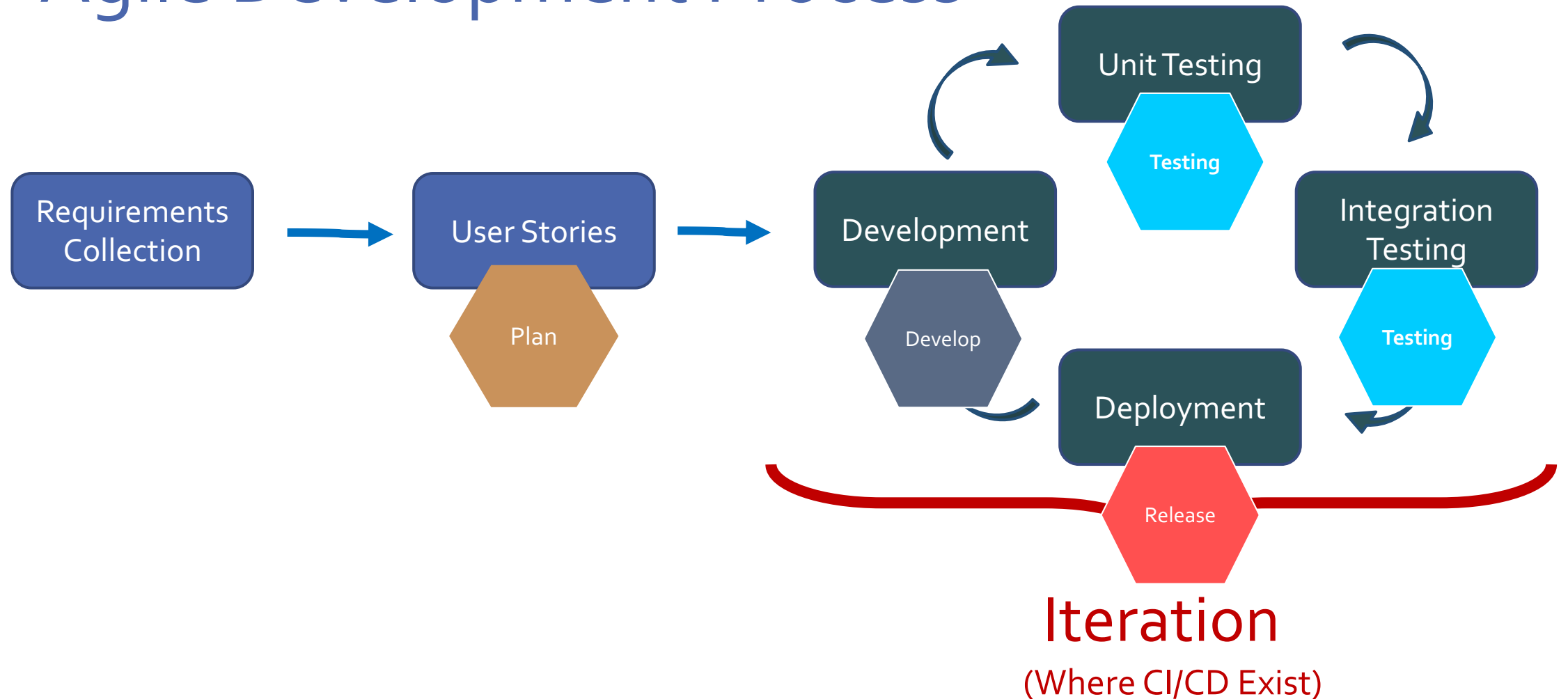
Software Development Methodology

Incubation
Waterfall

Iteration
Agile

Idea: build a framework that is nimble enough to adapt for changing demands

Agile Development Process

Requirements Collection → User Stories (Plan) → Development (Develop) → Unit Testing (Testing) → Integration Testing (Testing) → Deployment (Release)

Iteration
(Where CI/CD Exist)

4

Types of Agile

- Kanban
  - Focus on rapid assignments
  - No much emphasis on completion dates
  - *Consider a customer a team that responds to customer bug reports: new tasks are frequent and sudden*
  - In this scenario, team members do the following:
    - Collect all the work that needs to be done
    - Put the work in the right order
    - Assign and complete the work as fast as they can

Types of Agile

- Scrum
  - Best for teams working on new features with a tight schedule
  - Work is broken into iterative batches called sprints
  - When new work is discovered, it is appended to the next sprint
  - Consider a development team working to deliver the next feature to their project
  - In this scenario, team members do the following:
    - Collect all the work that needs to be done
    - Put the work in the right order
    - Define checkpoints for the project, which will later become sprints
    - Reprioritize on every sprint