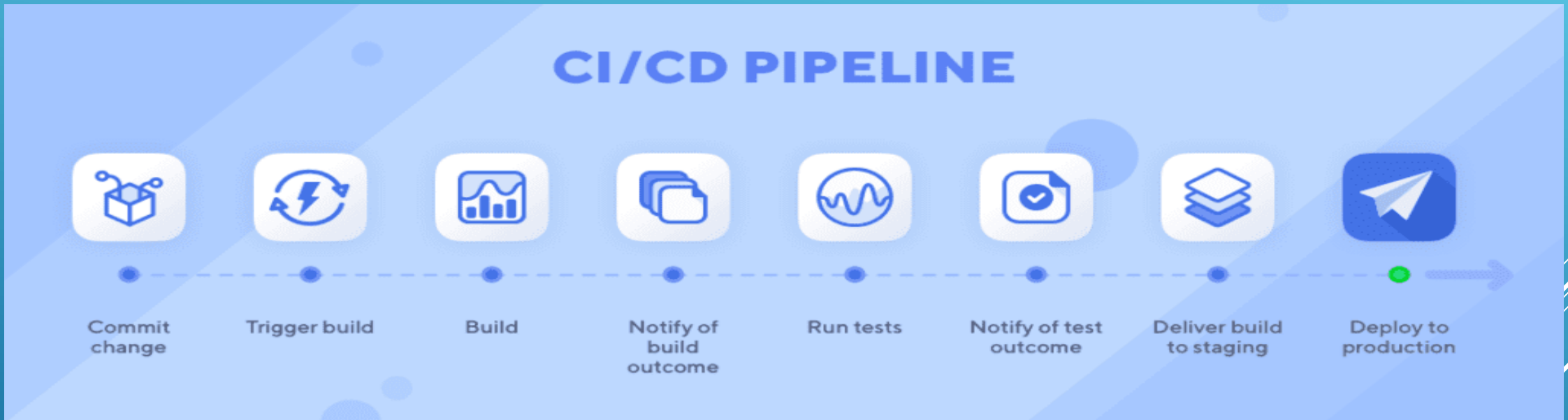# BENEFITS OF CI/CD TO UDAPEOPLE AS AN ORGANISATION

▶ WHAT IS CI/CD

▶ Continuous integration and continuous deployment (CI/CD) is a set of ideas, processes, and capabilities that enables software changes to be delivered to users in a timely, repeatable, and secure manner by introducing automation into software development processes.

CI/CD PIPELINE

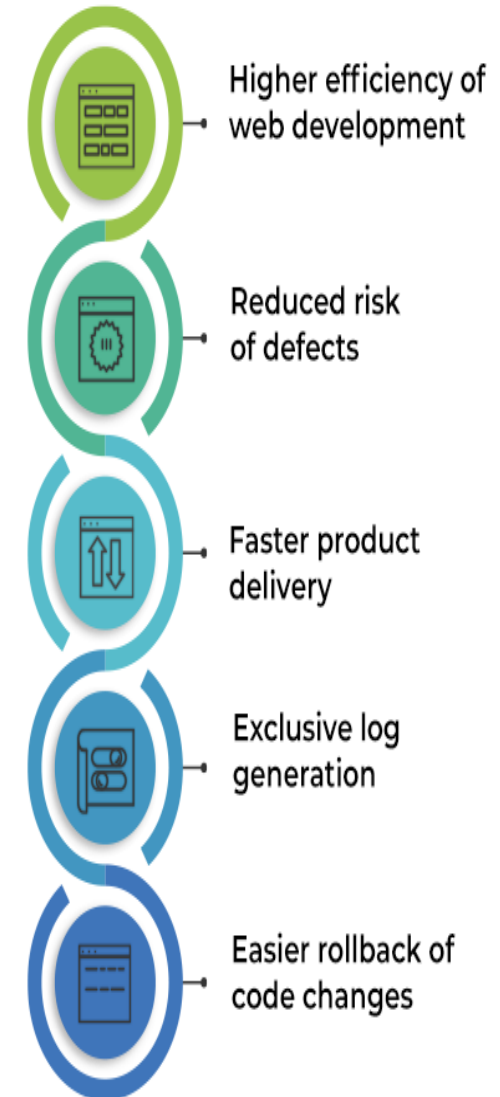| Commit change | Trigger build | Build | Notify of build outcome | Run tests | Notify of test outcome | Deliver build to staging | Deploy to production |

The "CI" in CI/CD always refers to continuous integration, which is an automation process for developers. Successful CI means new code changes to an app are regularly built, tested, and merged to a shared repository. It's a solution to the problem of having too many branches of an app in development at once that might conflict with each other.

The "CD" in CI/CD refers to continuous deployment. This is about automating further stages of the pipeline.

▶ **BENEFITS OF CI/CD TO UDAPEOPLE DEPLOYMENT PROCESS**

✓ - HIGHER EFFICIENCY

✓ - REDUCED RISKS OF DEFECT

✓ - FASTER PRODUCT DELIVERY

✓ - EXCLUSIVE LOG GENERATION

✓ - EASIER ROLLBACK OF CODE CHANGES

✓ - BETTER PLANNING

✓ - EFFICIENT TESTING AND MONITORING

✓ - COST-EFFECTIVENESS

BENEFITS OF CI/CD TO UDAPEOPLE AS AN ORGANISATION

❖ Higher efficiency in the deployment process will help maximize profit

❖ Reduced risk of defect ensures we retain our customers hence protecting revenue

❖ Faster product delivery will result in improved customer satisfaction

❖ Easier rollback of code changes will ensure faulty deployments aren't released to customers hence protecting revenue

❖ Better planning will result in improved cost control

❖ Efficient testing and monitoring will save time and avoid cost increasing mistakes

❖ All these result in Cost effectiveness and revenue maximization

➢ **Though CI/CD has some cons like time and expertise required to build deployment pipeline and employee education on CI/CD process, the proposed benefits of CI/CD to Udapeople far outweigh it's cons.**