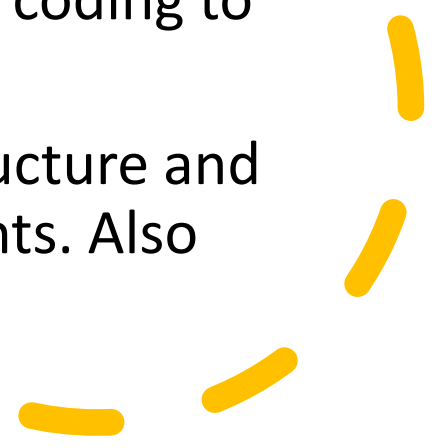



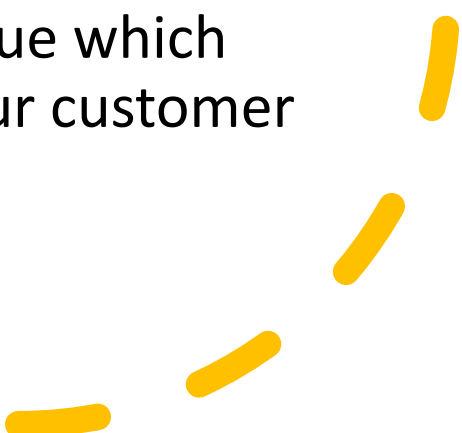
# Continuous Integration and Continuous Delivery/Deployment

CI/CD Benefits Proposal

# CI/CD Benefits

- Change the way how we think about the value we deliver to our customer
- Build confidence in team and stake holders before production delivery
- The CI/CD pipeline will cover integration and test from start coding to end delivery
- The CI/CD implement automated tools to provision infrastructure and configure servers so less human error and faster deployments. Also remove unused or redundancy resources.



- 
- If we have a complete CI/CD setup and running either locally or on managed cloud service such as CircleCI, it could help increase revenues because less time to the market
  - Thanks to CI/CD pipeline, it continuously runs tests and promptly notifies us via email or slack if a test fail so developers spend less time on issues and more time on coding.
  - CI/CD can do a quick rollback and return to production state if deployment has issue which protects our revenue and maintains our customer confidence
- 



My observation of our company current situation and I think we need to implement CI/CD:

1 - Only have unit test suites for features which run nightly by Jenkin jobs

=> It delays to catch botched merges and potential bug due to lack of check and test coverage

2 - We don't have Security Analyze phase to scan our third party and open-source packages

3 - No staging environment to deploy release candidate build and run end-to-end test



# CI/CD Stages and Pipeline

CI/CD Stages



CI/CD Pipeline

