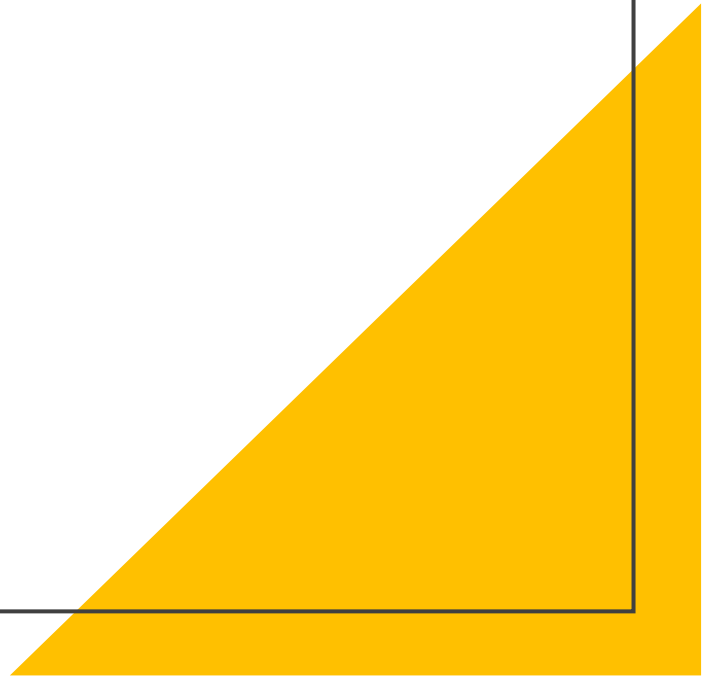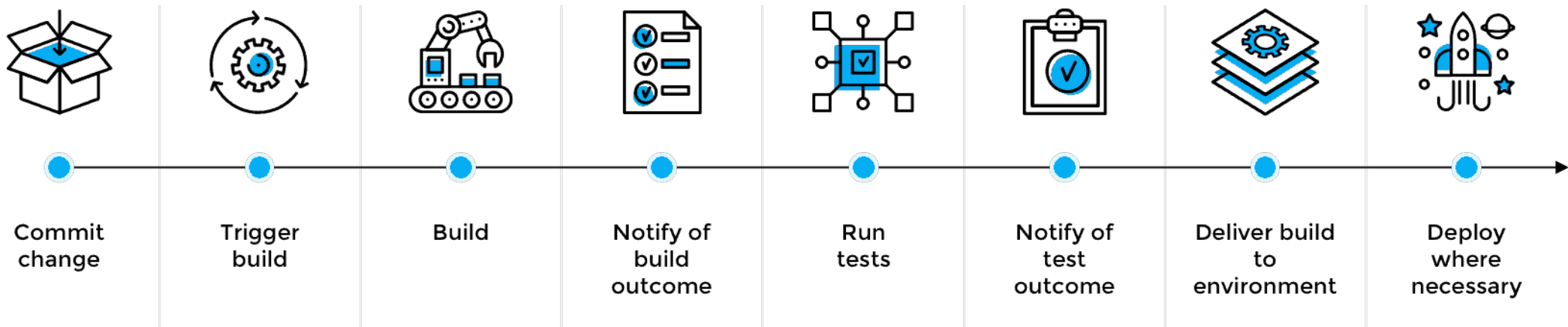# WHY UdaPeople should use CI/CD pipelines?

- Continuous Integration (CI) allows engineers to continuously integrate code into a single shared and easy to access repository. Continuous Delivery (CD) allows engineers to take the code stored in the repository and continuously deliver it to production.

- CI/CD creates a fast and effective process of getting our product to market before our competition as well as releasing new features and bug fixes to keep our customers happy.

- Using CI/CD can save cost, protect and even increase revenue.

CI/CD Pipeline

CI/CD Pipeline

| Commit change | Trigger build | Build | Notify of build outcome | Run tests | Notify of test outcome | Deliver build to environment | Deploy where necessary |

Benefits of CI/CD

Reduce/Avoid Cost

- Less developer time on issues from new developer code
- Less bugs in production and less time in testing
- Prevent embarrassing or costly security holes
- Less human error, Faster deployments
- Less infrastructure costs from unused resources

Protect Revenue

- New value-generating features released more quickly
- Less time to market

Increase Revenue

- Reduced downtime from a deploy-related crash or major bug
- Quick undo to return production to working state