Image: Definition of the second of the se

OUTLINE

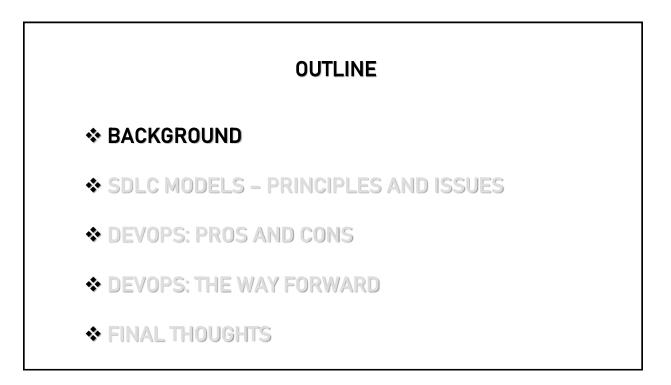
BACKGROUND

***** SDLC MODELS – PRINCIPLES AND ISSUES

* DEVOPS: PROS AND CONS

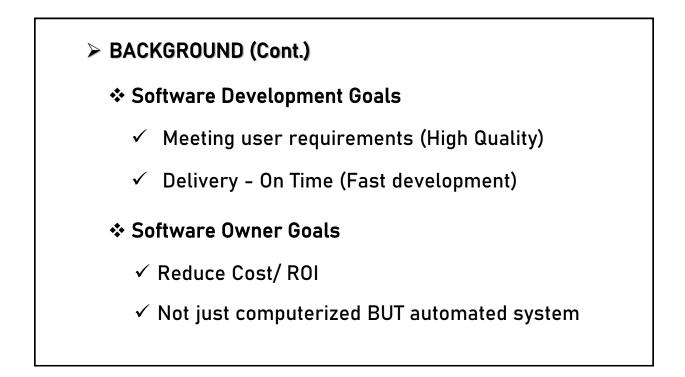
***** DEVOPS: THE WAY FORWARD

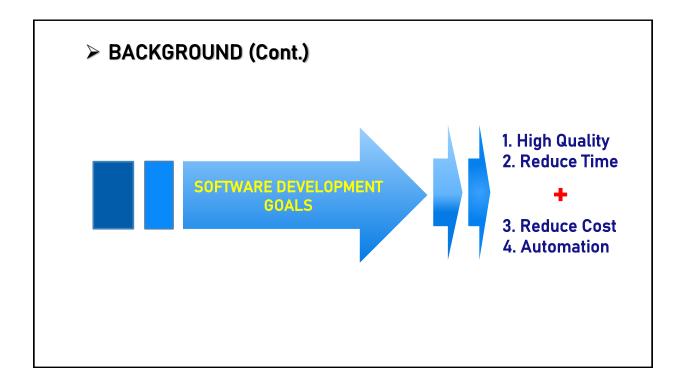
FINAL THOUGHTS

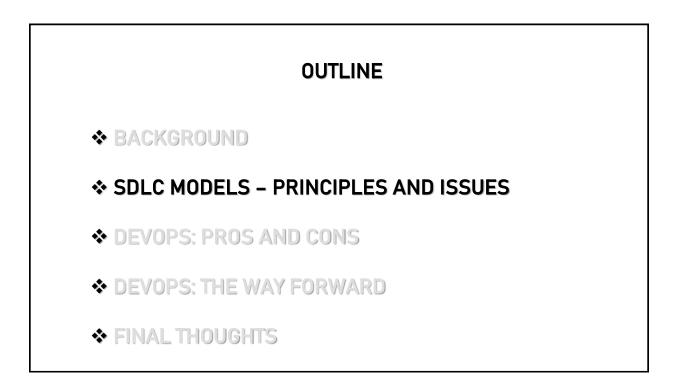


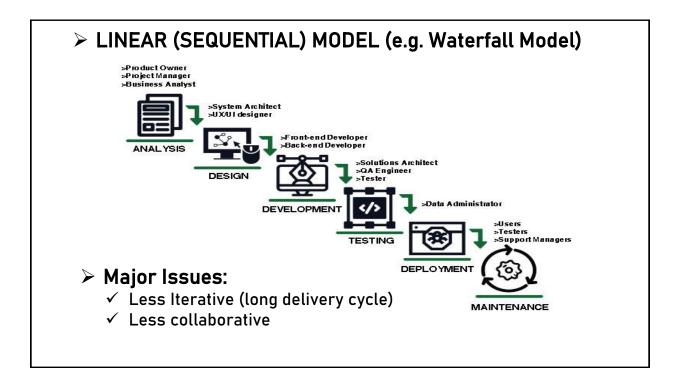
> BACKGROUND

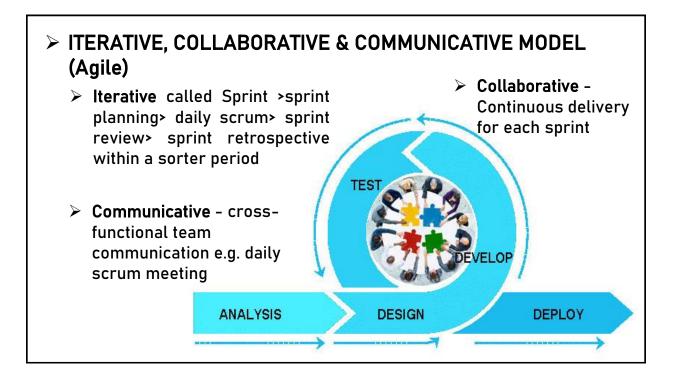
- Software Crisis and Lesson Learned From Denver International Airport (DIA) Baggage Handling System
 - ✓ Quality: Performed just a fraction of its original automation goals (Only one concourse for one airline)
 - ✓ Past The Deadline: 16 months past the 2-year deadline
 - ✓ Over budget: Cost about the extra \$560 million (Original budget: \$238 million.)











> ITERATIVE, COLLABORATIVE & COMMUNICATIVE MODEL (DevOps)

Iterative (Infinity loop >build> test> release> deploy> operate> monitor> plan> code.

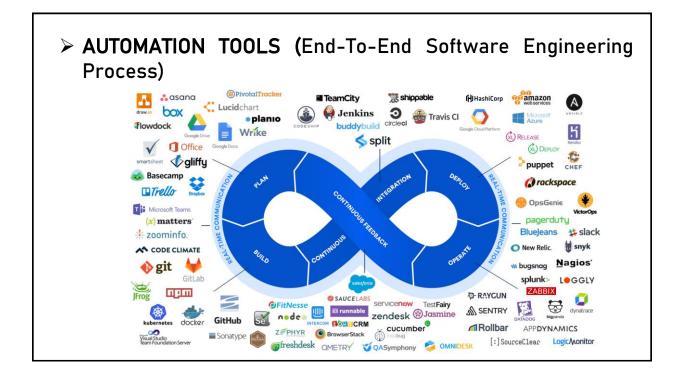
CODE

DE\

DEPLO

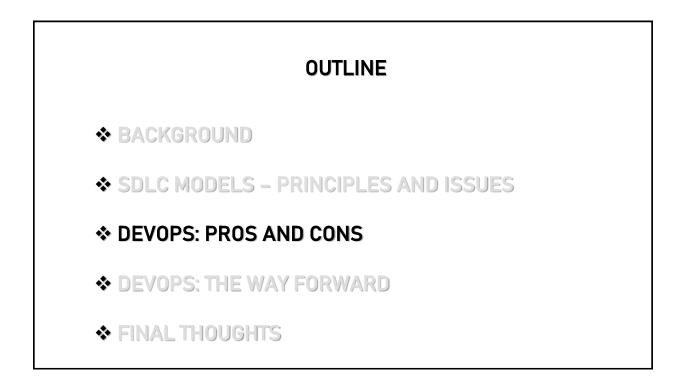
OPS

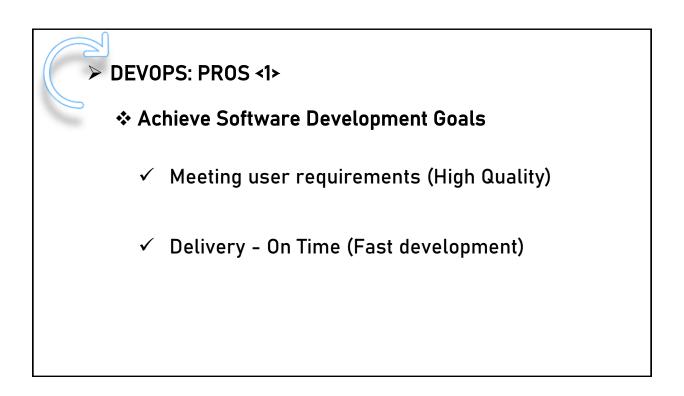
- Collaborative & Communicative Focuses on uniting the Dev(elopement) and Op(eration)s teams
- The plus point: emphasize on automation (tools) - end-to-end software engineering process -CI/CD pipeline

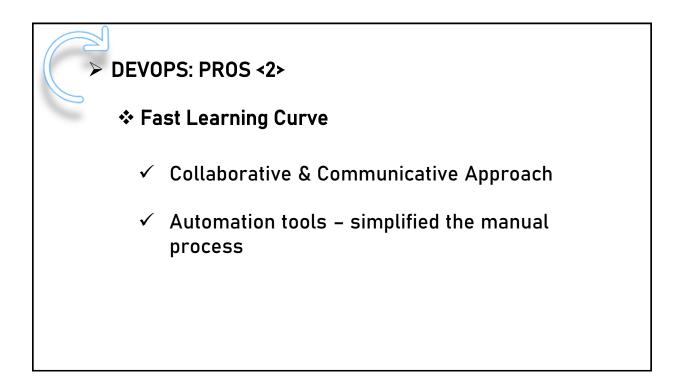


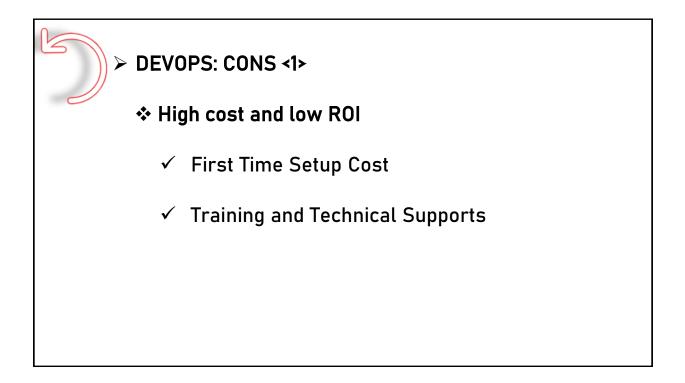
> AUTOMATION TOOLS

- 1) Version Control tools (GitHub, Bitbucket, GitLab)
- 2) Container Management tools (Docker <OS>, Kubernetes <OS>, Mesos)
- **3) Application Performance Monitoring tools** (Prometheus <OS>, Dynatrace, AppDynamics)
- 4) Deployment & Server Monitoring tools (Splunk, Datadog, Sensu <0S>)
- 5) Configuration Management tools (Chef <0S>, Puppet, Ansible<0S>)
- 6) CI / Deployment Automation tools (Bamboo, Jenkins <OS>, IBM UrbanCode)
- 7) Test Automation tools (Test.ai, Ranorex, Selenium)
- 8) Artifact Management tools (Sonatype NEXUS, JFRog Artifactory, CloudRepo)
- 9) Codeless Test Automation tools (AccelQ, Appvance, Testim.io)









> DEVOPS: CONS <2>

* High Dependency e.g. Tools, products, brands, etc.

- ✓ Proprietary e.g. licensing
- ✓ Open Source e.g. technical supports

OUTLINE

BACKGROUND

SDLC MODELS – PRINCIPLES AND ISSUES

DEVOPS: PROS AND CONS

DEVOPS: THE WAY FORWARD

FINAL THOUGHTS

