CONTINUOUS INTEGRATION & CONTINUOUS DEPLOYMENT (CI/CD)
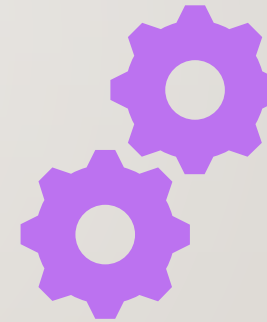
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UNDERSTANDING CI/CD

Continuous integration/continuous delivery (CI/CD) is a software development practice that combines development and operations teams and their day-to-day tasks. It applies automation to developing, testing, and delivering applications.

CI/CD help teams bring better software to market faster, work more effectively, and reduce risk.

Manual Processes - High Risk
CI/CD - Low Risk

WHY CI/CD ?

1. INCREASED REVENUE

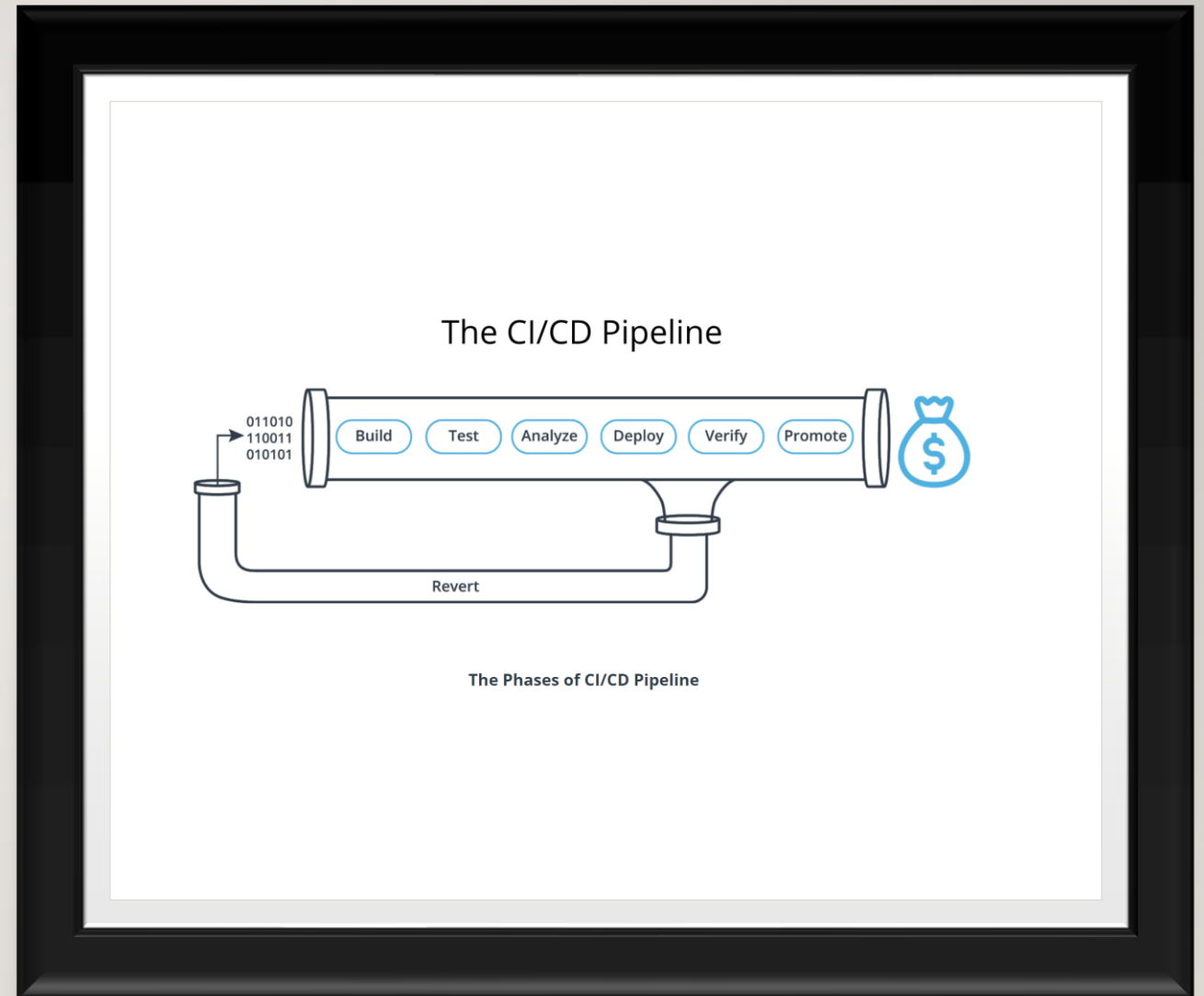**2. REDUCED COST**

3. PROTECTING REVENUE

4. COST AVOIDANCE

SOME TRANSLATIONS

What CI/CD does	What does this mean	Business Benefit
Catch Compile Errors After Merge	Less developer time on issues from new developer code	Reduce Cost
Catch Unit Test Failures	Less bugs in production and less time in testing	Avoid Cost
Automate Infrastructure Creation	Less human error, Faster deployments	Avoid Cost
Faster and More Frequent Production Deployments	New value-generating features released more quickly	Increase Revenue
Automated Smoke Tests	Reduced downtime from a deploy-related crash or major bug	Protect Revenue
Detect Security Vulnerabilities	Prevent embarrassing or costly security holes	Avoid Cost

SUMMARY

The picture depicts phases CI/CD Pipeline and tells us that when CI/CD is introduced to any project, the ultimate output is - *Saving Money and Increasing Revenue*

The CI/CD Pipeline

Build Test Analyze Deploy Verify Promote

Revert

The Phases of CI/CD Pipeline

THANKU