



# UDAPEOPLE CI/CD BENEFITS PROPOSAL



# Overview

1. What does CI/CD stand for?
2. What are our current pain points?
3. How can we benefit from CI/CD and DevOps principles?
4. What are challenges we will be confronted with?



# What does CI/CD stand for?

## Continuous Delivery

- An engineering practice in which teams produce and release value in short cycles.

## Continuous Integration

- The practice of merging all developers's working copies to a shared mainline several times a day. Puts an emphasis on automated code built, test, analysis on code quality to finally produce a high quality, deployable artifact.

## Continuous Deployment

- A software engineering approach in which the value is delivered frequently through automated deployments with smoke test, blue green strategy,...



# What are current pain points?

1. Manual release process is error-prone, lead to delays of production deployments.
2. Poor software quality since do not have time for quality analysis.
3. Deployments are complex, lack of smoke test and rollback mechanisms



# How can we benefits from CICD and DevOps

## Problem

1. Manual and error-prone release process
2. Poor software quality
3. Complex deployments and often failed

## Solution

1. Implement Continuous Integration: automate compiling, testing, code analysis and artifact storage
2. Automate Infrastructure Provision
3. Automate Smoke Test and Rollback Mechanism

## Benefits:

1. Cost reduce due to less human errors
2. Reduce troubleshooting time
3. Avoid downtime



# What are the challenges we will be confronted with?

1. High amount of initial cost and learning time.
2. CI/CD is not a one time effort, requires support and maintainance.