

## Agenda <3

Introduction to CI/CD

The benefits of CI/CD

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The implementation process and costs

Conclusion and next steps



#### What is CI/CD?

CI/CD is a methodology for software development that allows developers to build, test, and deploy code changes quickly and safely. It consists of two stages:

Continuous Integration: Developers merge their code changes into a shared repository multiple times a day, which triggers automated tests to detect any issues early on.

Continuous Delivery: Once the code changes pass all tests, they are automatically deployed to production. This allows businesses to release new features and fixes more frequently and with greater confidence.



### The Benefits of CI/CD:

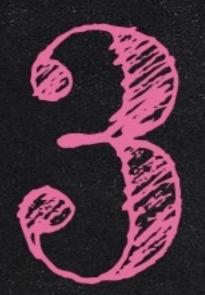
CI/CD has several benefits for businesses, including:

Faster Time-to-Market: CI/CD enables developers to release new features and fixes more frequently, reducing the time it takes to get valuable updates to customers.

Improved Quality: Automated testing catches errors early on in the development process, reducing the likelihood of bugs and improving the overall quality of the product.

Greater Stability: Continuous Delivery ensures that code changes are deployed consistently and reliably, reducing the risk of downtime or other production issues.

Increased Efficiency: CI/CD automates many repetitive tasks, freeing up developers to focus on higher-value work and reducing the time and effort required to deploy code changes.



# How CI/CD aligns with UdaPeople's values:

CI/CD aligns with UdaPeople's core values of efficiency, innovation, and excellence in several ways:

- Efficiency: CI/CD simplifies the software development process, enabling developers to work more proficiently while decreasing the time it takes to deliver new features and fixes to customers.
- Innovation: With faster release cycles facilitated by CI/CD, UdaPeople can be more innovative and responsive to customer needs, allowing them to stay ahead of competitors.
- Excellence: CI/CD plays a critical role in ensuring that UdaPeople's products are of the highest quality, delivering a superior user experience to customers and driving customer satisfaction..



### Implementation Process and Costs:

Implementing CI/CD for UdaPeople will require the following steps:

- Establish a CI/CD pipeline utilizing tools such as CircleCI.
- Integrate the pipeline with UdaPeople's current development workflow.
- Provide training to developers on how to utilize the new pipeline and include it in their daily tasks.
- Continuously monitor and sustain the pipeline to ensure its sustained effectiveness.

The expenses associated with CI/CD implementation will include:

- Time and effort for pipeline setup and integration with existing systems at UdaPeople.
- Provision of training and support to developers to ensure their proficient use of the new pipeline.
- Continuous maintenance and monitoring costs.



### Conclusion and Next Steps:

To sum up, the implementation of CI/CD for UdaPeople would be a strategic investment that is in line with our core values of efficiency, innovation, and excellence. By reducing the time-to-market, enhancing quality, and improving overall efficiency, CI/CD has the potential to boost revenue growth, safeguard existing revenue, and minimize costs. To proceed with the implementation of CI/CD, we will require the approval and authorization of the key decision-makers within our organization.