CI/CD

Benefits and Business Impact from Adopting it.

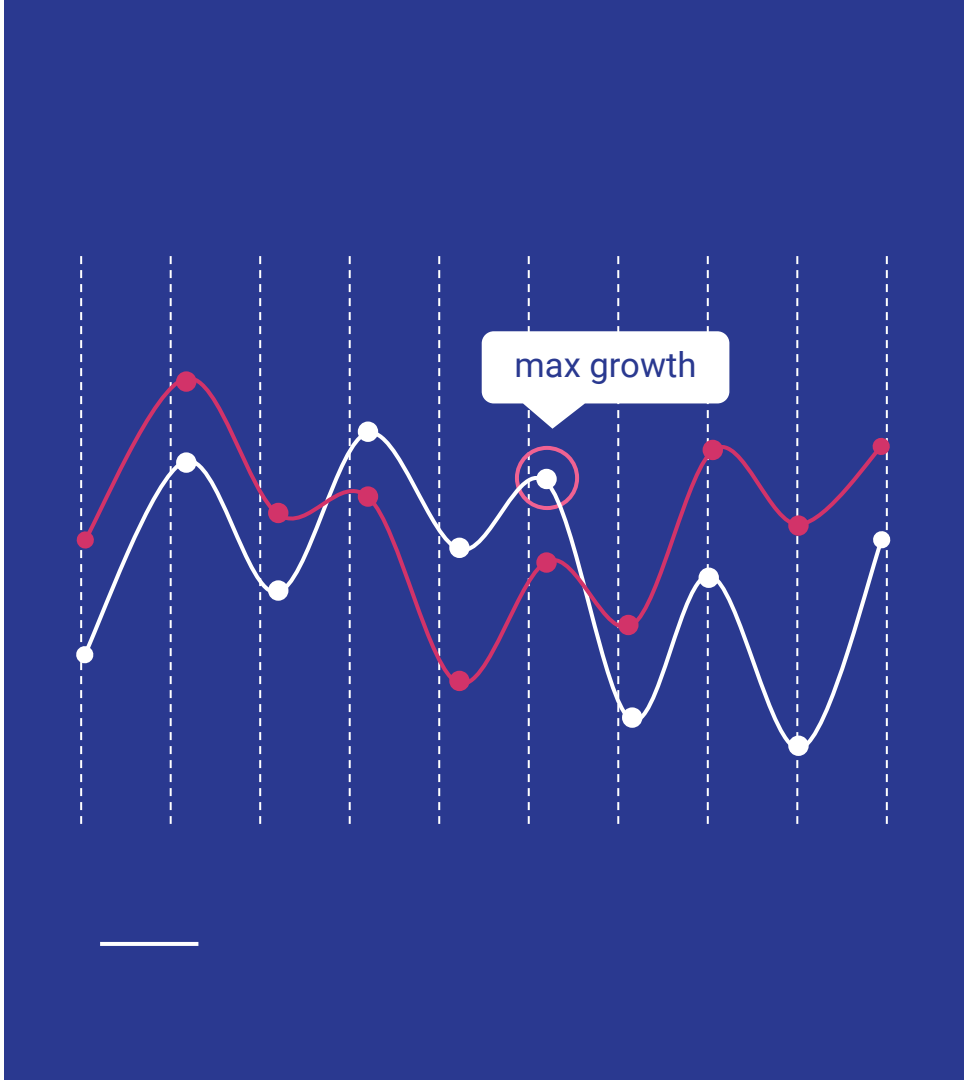
Continuous Integration

The practice of merging all developers' working copies to a shared mainline several times a day. It's the process of "**Making**". Everything related to the code fits here, and it all culminates in the ultimate goal of CI, a high quality, deployable artifact.

Continuous Deployment

A software engineering approach in which the value is delivered frequently through automated deployments. Everything related to deploying the artifact fits here. It's the process of "**Moving**" the artifact from the shelf to the spotlight.

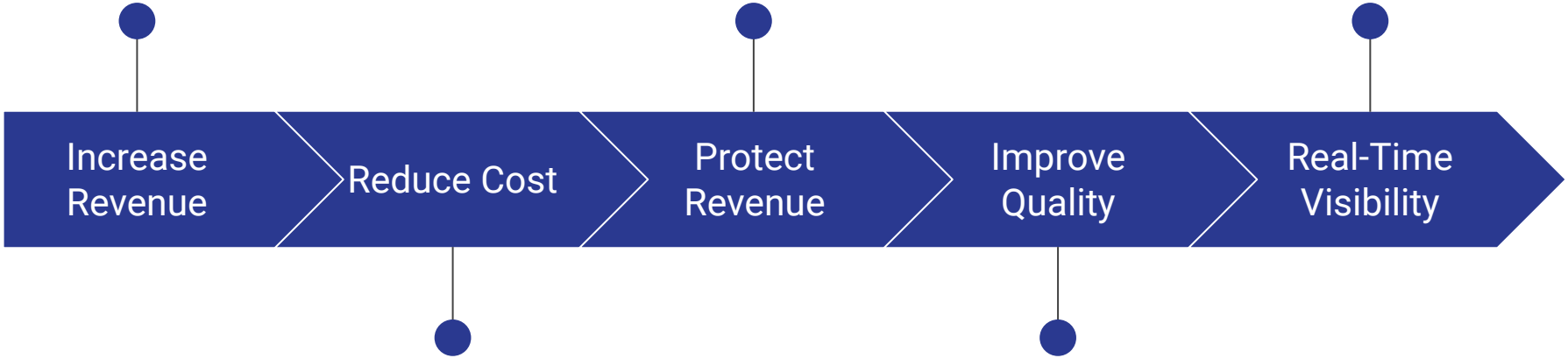
Impact



Bring Products to Market Faster
Start generating revenue from the features that we are deployed rather than waiting for the entire app to be completed.

Automated Tests & Rollback by Job Failure.
Reduced downtime from a deploy-related crash or major bug and quick undo to return production to working state.

Stakeholders can easily see
where a project stands at any given moment—spot bottlenecks, inefficiencies, and use those insights to optimize the process.



Automate Infrastructure Creation & Cleanup
It standardizes deployment processes across all projects that lead to faster deployments, less human error and Less infrastructure costs from unused resources.

Catch Unit Test Failures & Security Vulnerabilities
Less bugs in production and works across multiple environments and prevent costly security holes.

Conclusion

The benefits of CI/CD impact all ends of the development lifecycle, the customer experience, and the big-picture business strategy.

It plays a critical role in software development and delivery and helps smaller teams move faster, respond to constant changes, and incorporate real time feedback—all of which contribute to cost savings, profitability, and a higher-quality end-product.