



# THE TECHNOLOGY VALUE STREAM

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1.2 Assignment

# INTRODUCTION TO THE TECHNOLOGY VALUE STREAM

## Key Objectives:

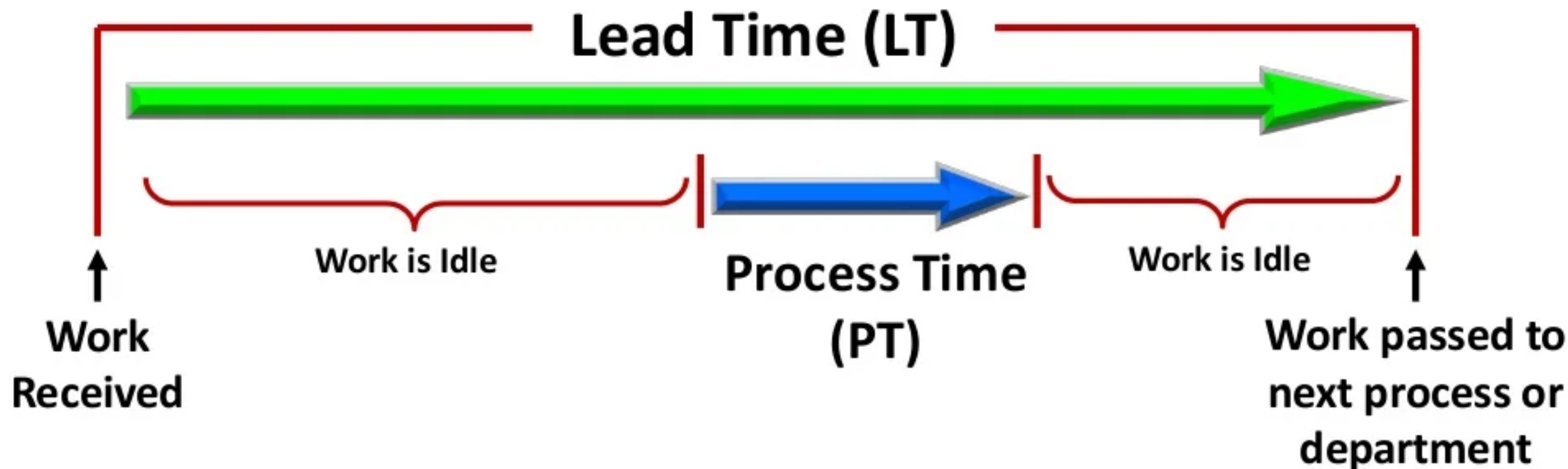
- ☐ Minimize inefficiencies.
- ☐ Shorten lead times.
- ☐ Improve deployment efficiency.

This presentation addresses:

1. Lead Time vs. Processing Time.
2. Challenges of long deployment lead times.
3. Achieving the DevOps ideal.



# Lead Time vs. Process Time



**Lead Time** = Elapsed time; Throughput time; turnaround time

**Process Time** = Touch time; work time; cycle time

# CHALLENGES WITH LONG DEPLOYMENT LEAD TIMES

Deployment lead times can take months due to:

- ☐ Manual testing and approvals.
- ☐ Disconnected teams and processes.
- ☐ Inefficient tooling.

Impact of Long Lead Times:

- ☐ Slower time-to-market.
- ☐ Increased error rates in production.
- ☐ Decreased responsiveness to customer needs.







# DEPLOYMENT LEAD TIMES OF MINUTES

**Goal:** Achieve deployment lead times measured in minutes, not months.

## **How to Achieve This Ideal:**

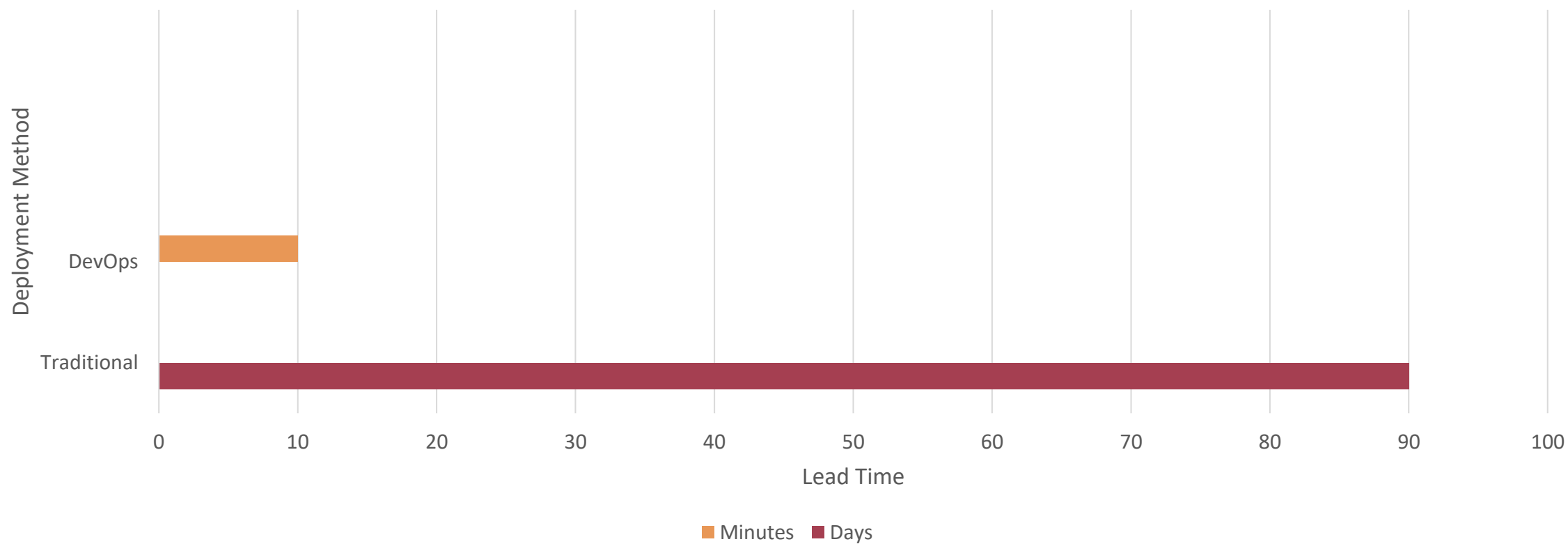
- Automation (CI/CD pipelines).
- Collaboration across teams (Dev, QA, Ops).
- Continuous testing and monitoring.

## **Benefits:**

- Faster feature delivery.
- Improved reliability and customer satisfaction.



# DEPLOYMENT LEAD TIMES: TRADITIONAL VS. DEVOPS



# KEY PRACTICES FOR OPTIMIZING LEAD TIMES

## **Key Strategies:**

- Implement Infrastructure as Code (IaC).
- Adopt trunk-based development.
- Automate testing and release processes.
- Monitor performance with real-time metrics.

## **Cultural Shift:**

- Break down processes between teams.
- Strengthen collaboration and shared accountability.

# CONCLUSION

## Main Points:

### •Key Takeaways:

- Reducing lead time improves overall efficiency and responsiveness.
- Transitioning from months-long deployment cycles to minutes is achievable with DevOps practices.

### •Benefits of the DevOps Approach:

- Faster feature delivery.
- Enhanced reliability and fewer errors.
- Increased customer satisfaction and competitive advantage.

## Call to Action:

- Embrace automation, collaboration, and continuous improvement to optimize your technology value stream.





# REFERENCES

THE DEVOPS HANDBOOK, 2ND ED., BY KIM, HUMBLE,  
DEBOIS, WILLIS, & ALLSPAW, 2016.



THANK YOU

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