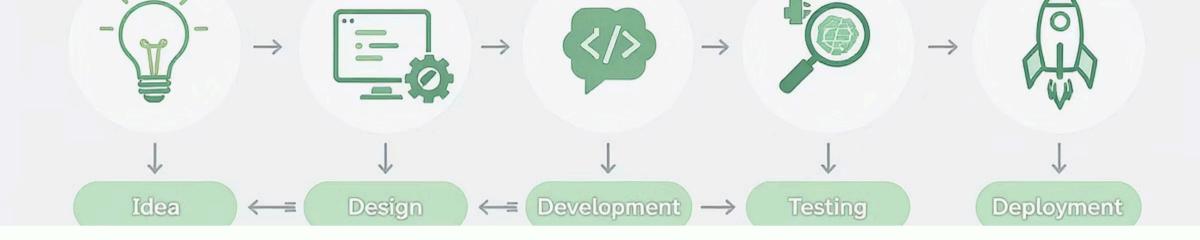


# The Technology Value Stream

This document presents a comprehensive overview of "The Technology Value Stream," focusing on key concepts such as Lead Time vs. Processing Time, the common scenario of lengthy deployment lead times, and the ideal DevOps approach for achieving rapid deployment. The findings will be structured in a presentation format, including graphics and citations as necessary.

**Solution** by Steve Stylin



# Introduction to the Technology Value Stream

#### **Definition**

The Technology Value Stream encompasses all the steps involved in delivering a product or service, from initial concept to deployment and beyond.

### **Importance**

Understanding this stream helps organizations identify inefficiencies and optimize processes.

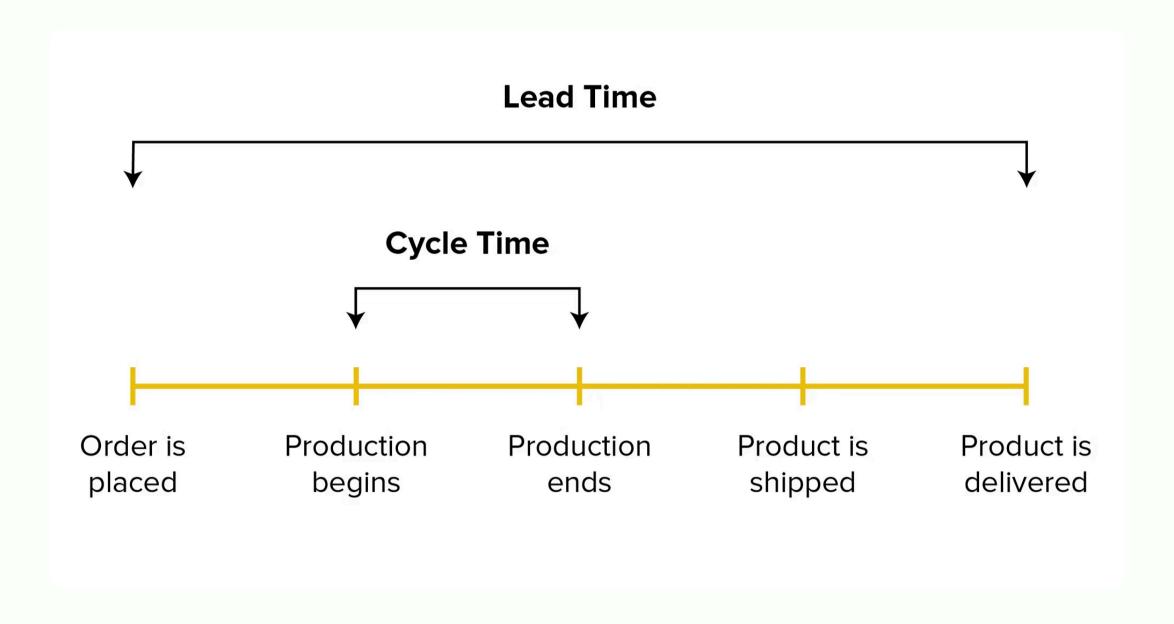
# Defining Lead Time vs. Processing Time

## **Lead Time**

The total time taken from the initiation of a request to its completion. This includes waiting time, processing time, and any delays.

## **Processing Time**

The actual time spent actively working on a task or project, excluding any waiting periods.



# The Common Scenario: Deployment Lead Times Requiring Months

#### **Extended lead times**

Many organizations experience deployment lead times that can stretch for months due to various bottlenecks.

#### Causes

fa)

ΗŢ

Inefficient processes, lack of automation, siloed teams

### **Impact**

Extended lead times can hinder responsiveness to market changes and customer needs.

# Our DevOps Ideal: Deployment Lead Times of Minutes

1

## CI/CD

Continuous Integration/Continuous Deployment



#### **Automation**

Automated testing and deployment processes



#### **Collaboration**

Cross-functional teams working together



#### **Benefits**

Faster time-to-market, improved quality, enhanced customer satisfaction



# Case Study: Successful Implementation of DevOps

90%

5x

**Reduction in Lead Time** 

**Deployment Frequency** 

After DevOps implementation

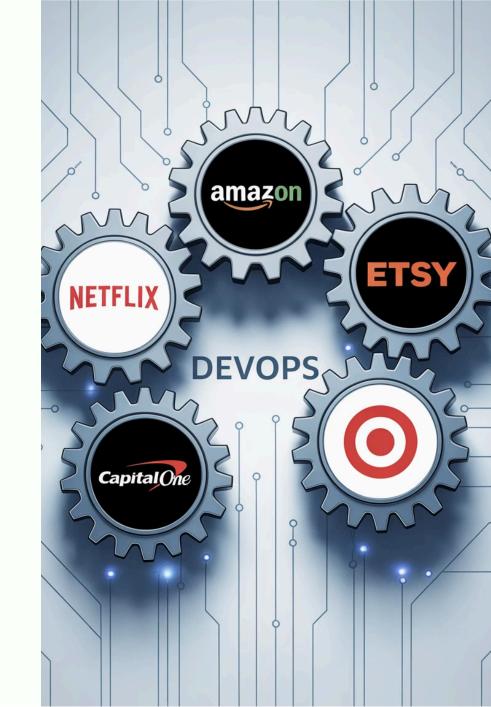
Increase in deployment rate

70%

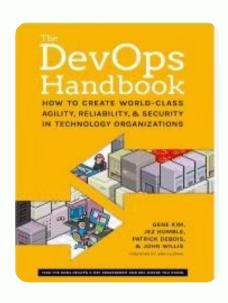
**Defect Reduction** 

Fewer bugs in production

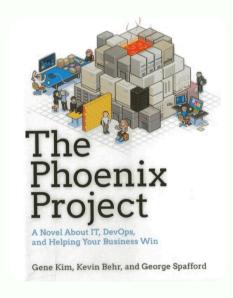
DevOps success stories of Top 5 market leaders of USA.



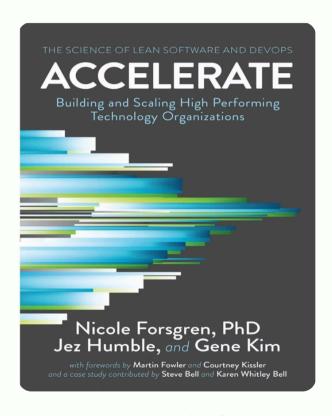
# Tools and Technologies Supporting the Technology Value Stream



Gene Kim, Jez Humble, Patrick Debois, John Willis



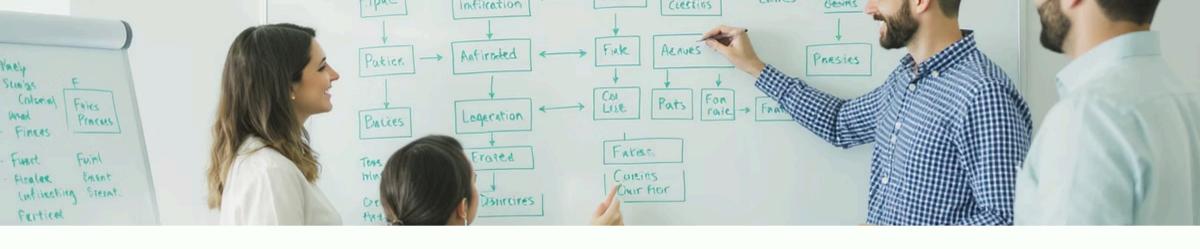
Gene Kim, Kevin Behr, George Spafford



Nicole Forsgren, Jez Humble, Gene Kim

Arora, S. (2025, February 5). *DevOps success stories of Top 5 market leaders of USA*. Compunnel.

https://www.compunnel.com/blogs/devops-success-stories-of-top-market-leaders/



## Conclusion

### **Understand the Value Stream**

Recognize the importance of optimizing the Technology Value Stream for organizational success

### **Assess Current Practices**

Evaluate existing deployment processes and identify bottlenecks

## Implement DevOps Methodologies

Adopt DevOps practices to enhance efficiency and reduce lead times

# **Thank You**

Thank you for reading