



# The Technology Value Stream

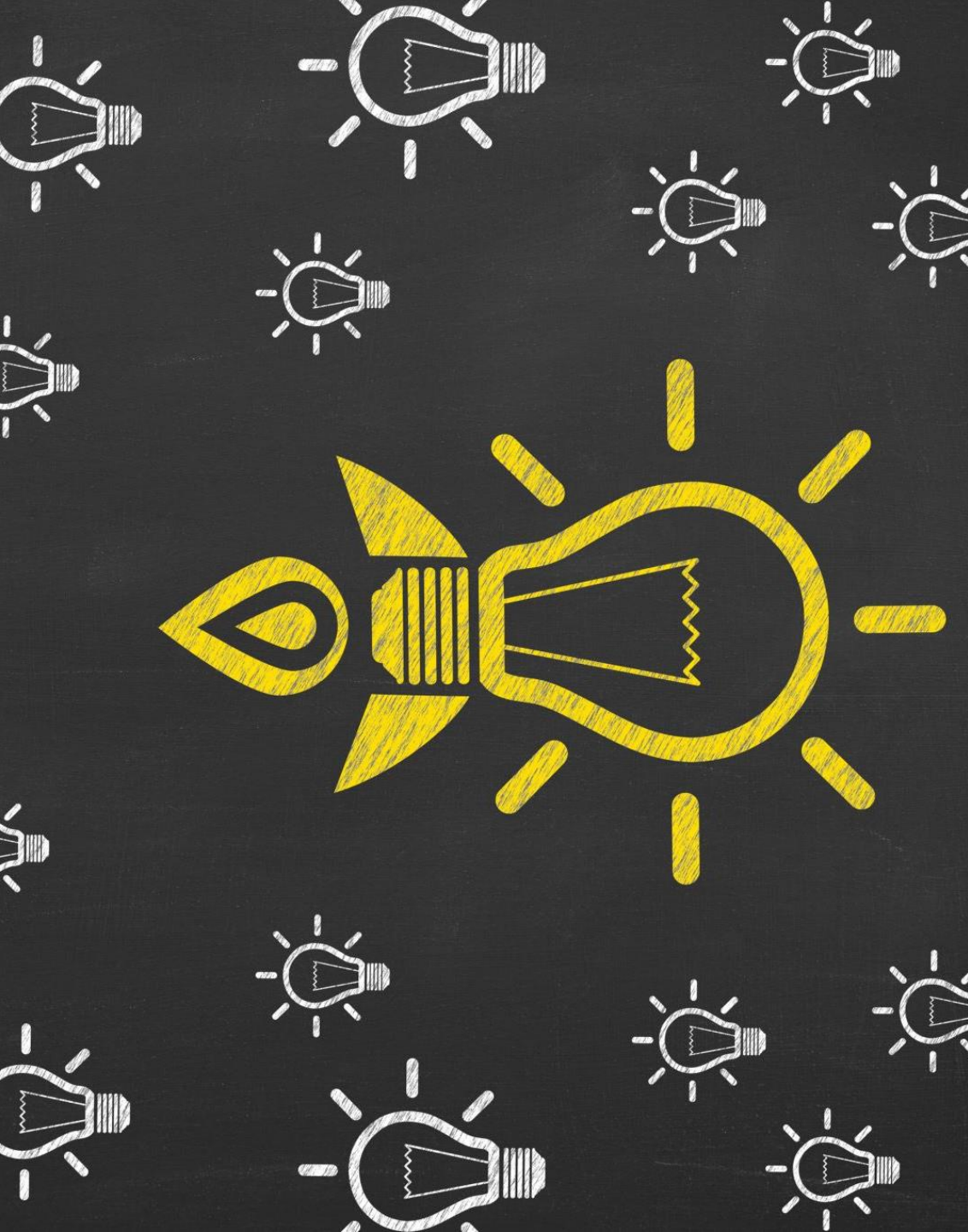
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Understanding how it can remove bottlenecks  
and reduce development times

Jason Schriener

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Module 1



# What is the Technology Value Stream

- A value stream is all activities involved in taking something from an idea to something that provides a customer value.
  - When you understand the value stream and all process involved you can Improve your processes to provide shorter lead times. This can allow you to quickly make changes, either through innovation or as a response to customer feedback.

# Understanding Lead Time and Processing Times



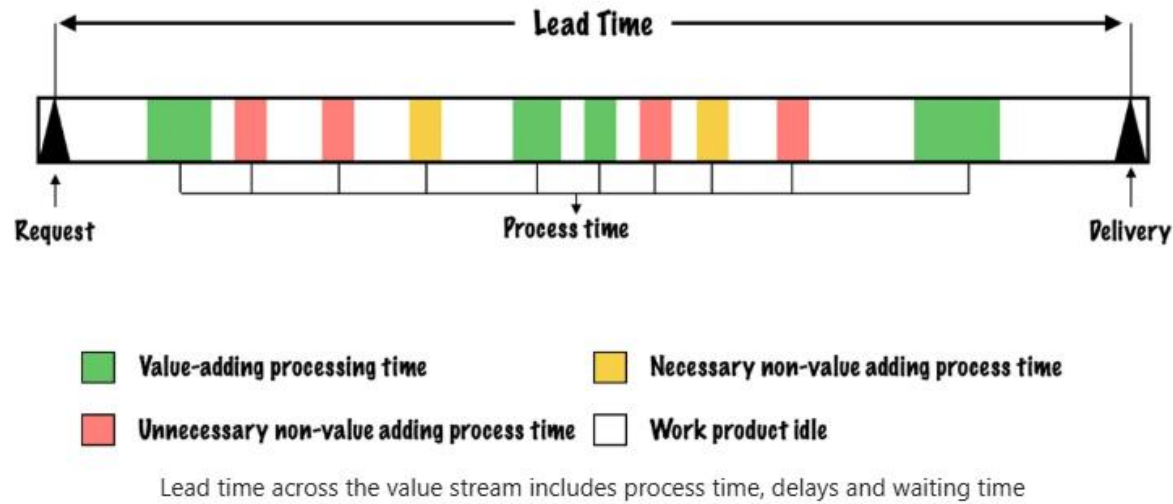
## Lead Time

The total amount of time it takes from when a request is made until it is delivered – The time the customer experiences



## Processing Time

The time spent actively working on the request



Credit: Jurevicius, 2023

A typical lead time includes waste such as idle times and non-value adding processes. Removing/Reducing these can improve overall lead times.

# Deployment Lead Time

- This is one area of lead time where significant improvements can be made.
- Things that can slow things down.
  - Too many manual approvals.
  - Slow testing phases
  - Lack the ability to easily scale





# What are Ideal Deployment Times

According to the DORA report 2024:  
"Elite Performers: Under 24 Hours  
Low Performers: 1 to 6 months"  
(Walsh, 2025).



# How to Achieve Ideal Deployment Times

- Streamline approval processes
- Use automated testing procedures
- Make smaller changes
- Monitor deployment times – See what works and what doesn't
- Utilize Blue/Green deploys – Allows you to deploy one version while the other remains active to serve live traffic
- Optimize infrastructure and scalability

# Streamlined processes equals faster delivery

- Fast Deployment times allow for smaller releases which reduces risks
- Allows for quick response to consumer feedback
- Rapid development and innovation allows for a better user experience.





# References:

- Alexandre Walsh (May, 2025) Deployment Time: What It Is, How to Measure & Improve. Axify <https://axify.io/blog/deployment-time>
- Jurevicius, O. (2023, October 27). Value Stream Mapping (VSM): All You Need to Know - SM Insight. Strategic Management Insight. <https://strategicmanagementinsight.com/tools/value-stream-mapping-vsm/>