



Performance Testing At The Speed Of DevOps

DFW-Association for Software Engineering Excellence
Symposium on Software & Systems Engineering Excellence
February 23, 2019

Greetings



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Ron Franklin

30+ years in IT

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Solution Architect

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Solution Architect

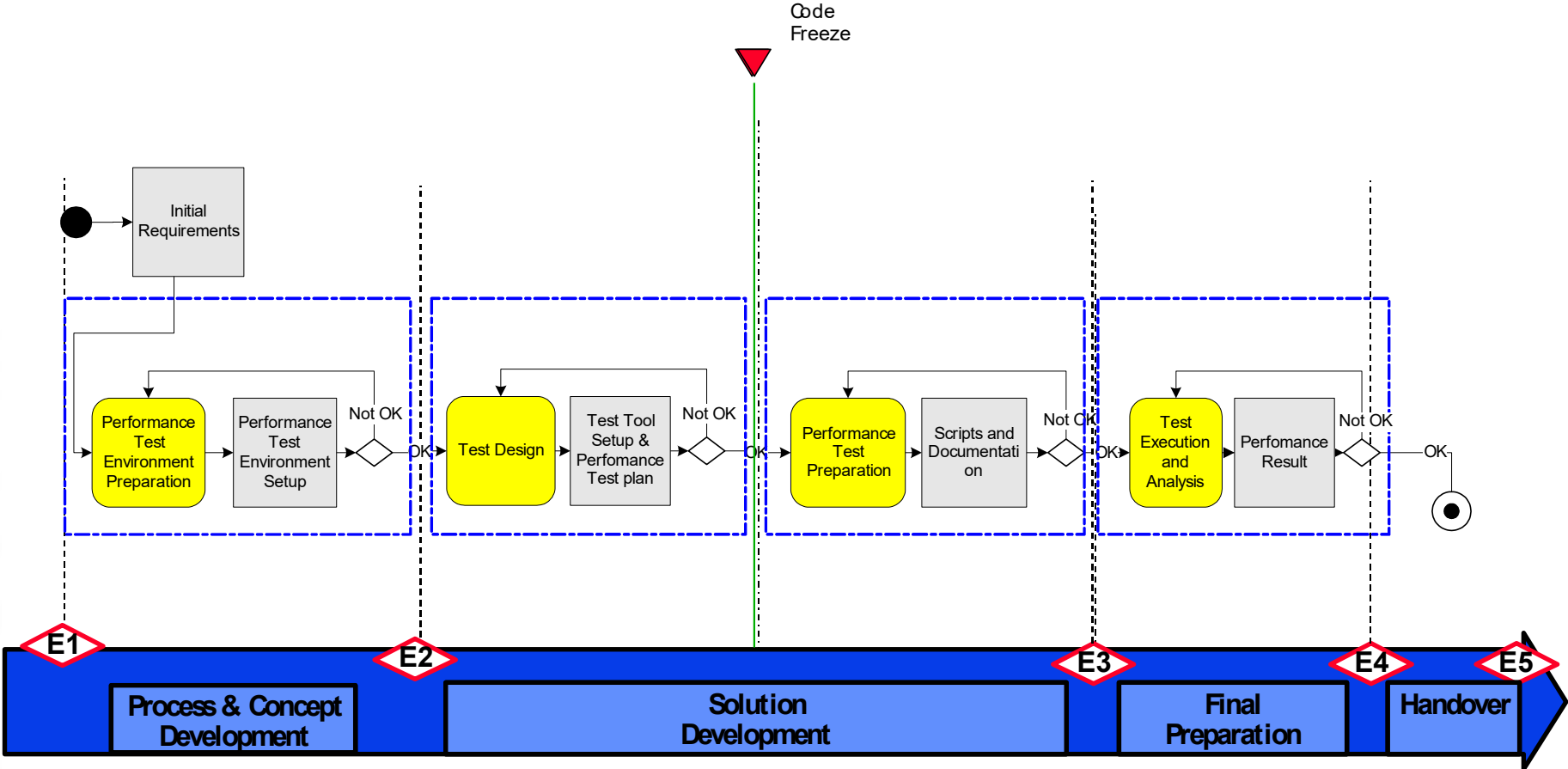
Global SIG Leader

- DevOps
- APM

Traditional Performance Test Process



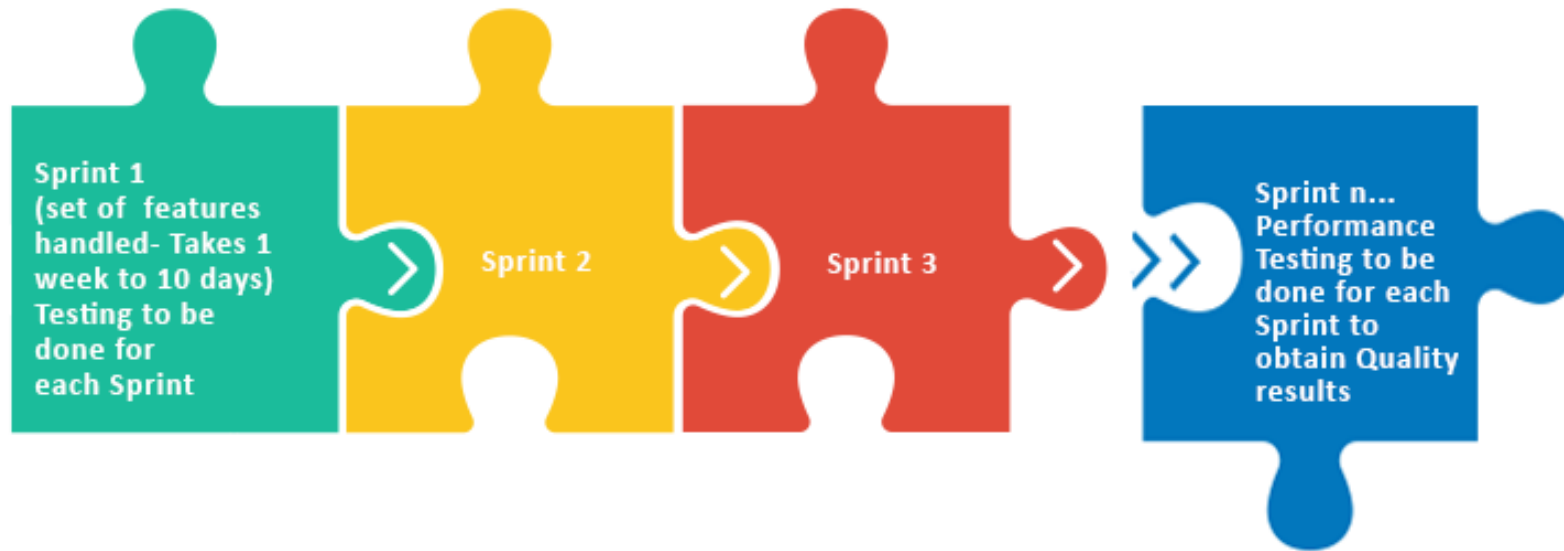
Waterfall Process



Agile Performance Testing



Agile Performance Testing Methodology



Tasks in Agile Performance Testing



Factors Affecting Agile Performance Testing



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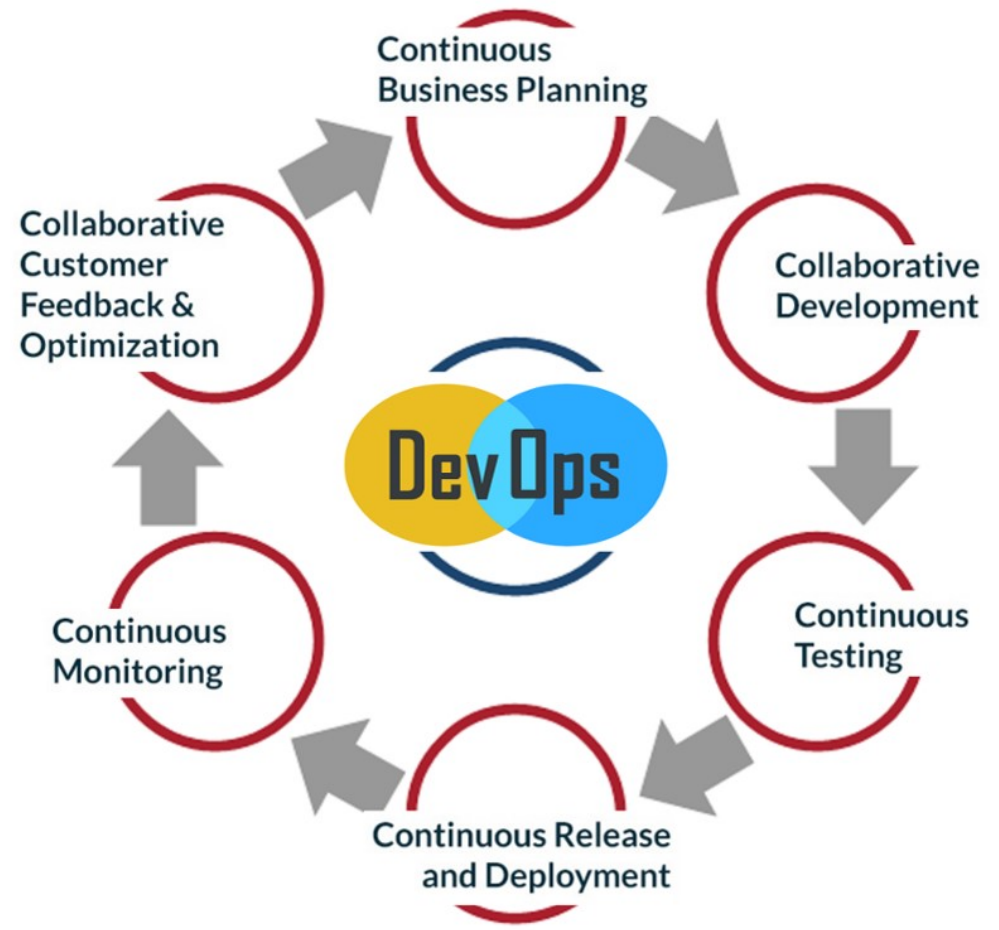
Factors Affecting Agile Performance Testing

1. Key factor for successful Performance Testing is involving the performance testers at the beginning of Sprint.
2. Trial adoptions in certain critical Agile projects might also lead to some specific performance issues cropping up.
3. In certain Agile projects, criteria for performance testing might not be properly planned for every sprint.
4. Lack of prioritization of Project teams to handle performance defects and take action quickly.

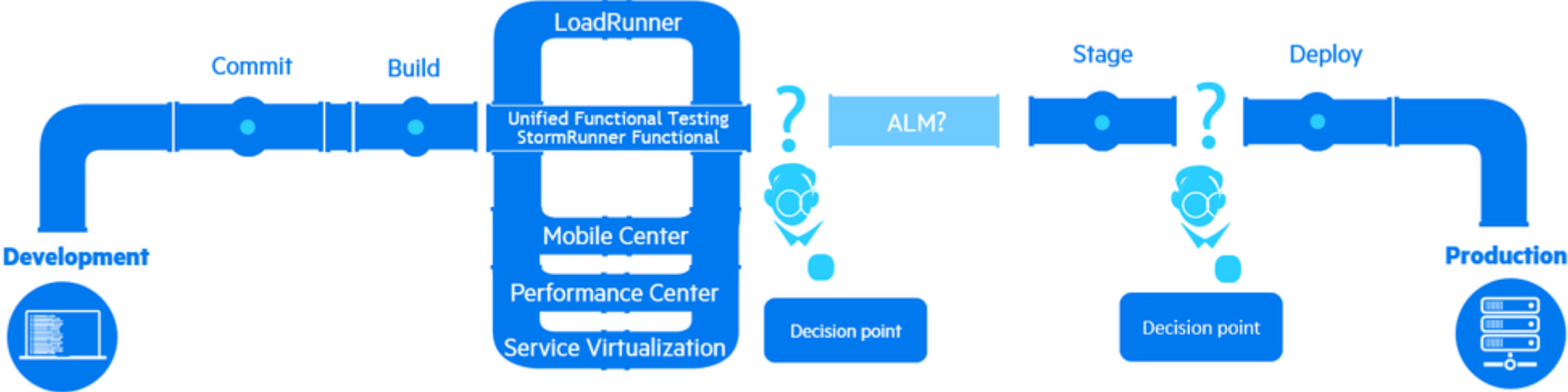
Adding DevOps To The Mix



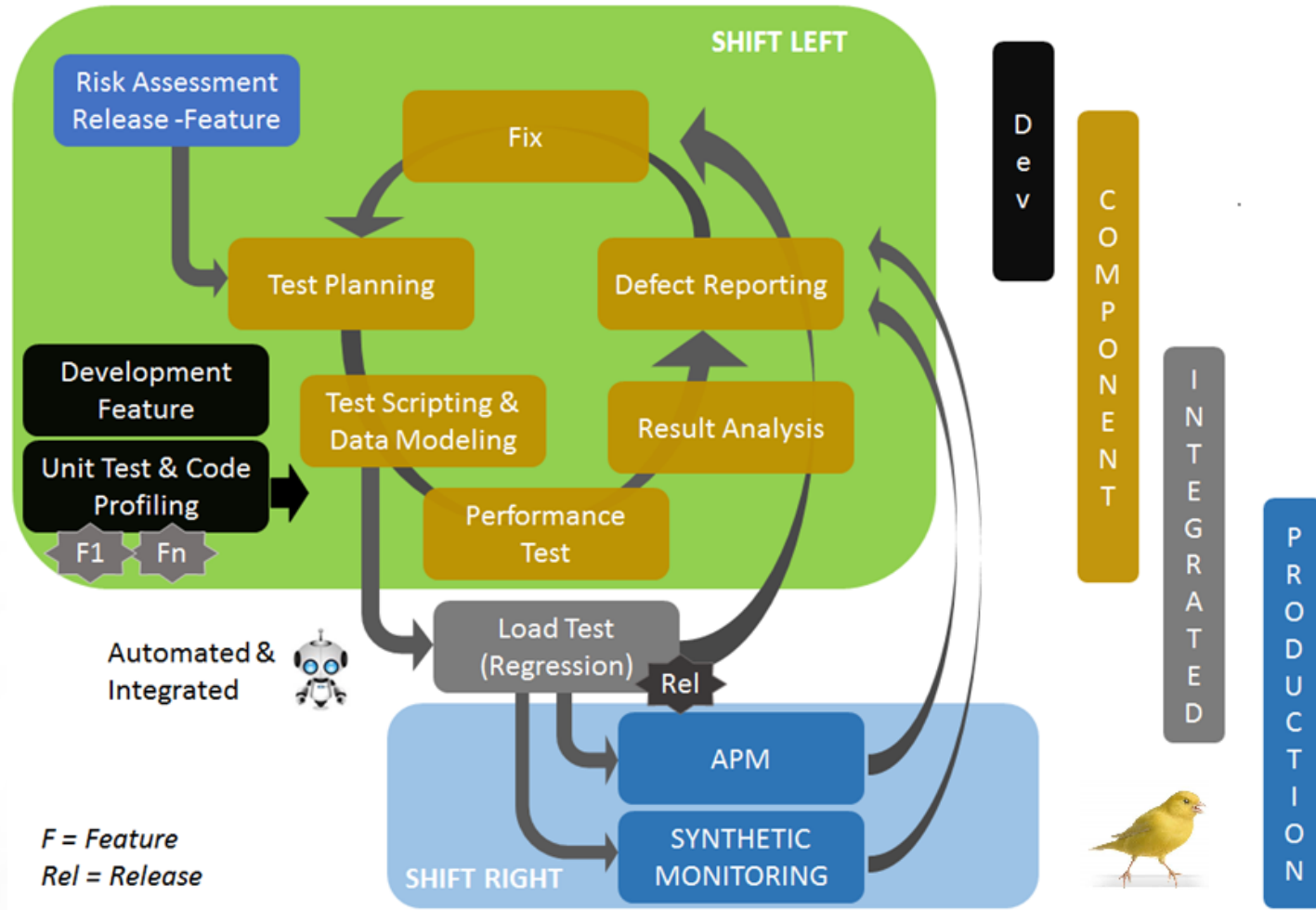
Key Concepts



DevOps Pipeline



DevOps Performance Testing Methodology



Example



Example

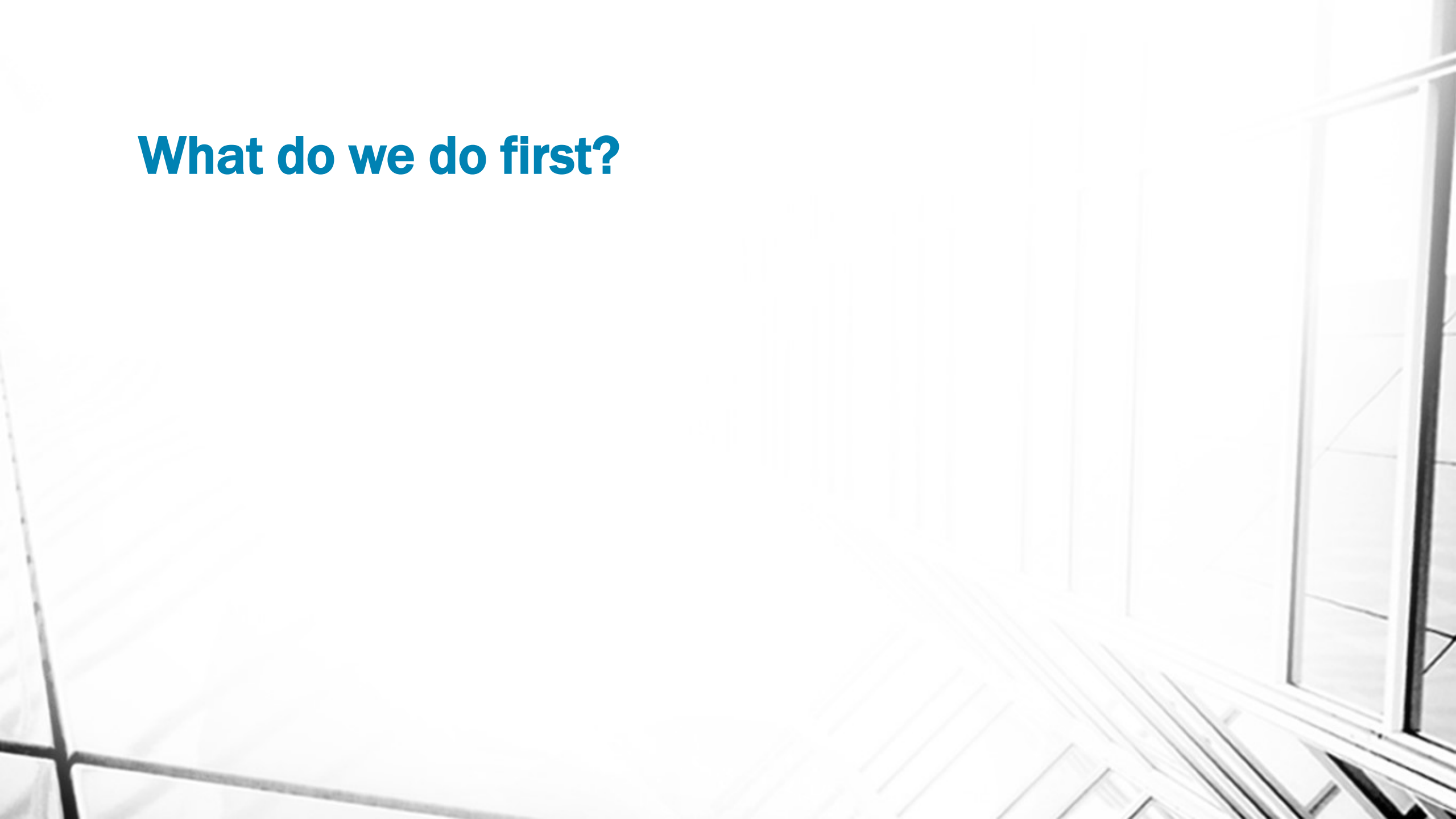
The process we will discuss is in use at a Fortune 500 company.

Example

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They have synthetic monitoring in place at over 150 locations worldwide.

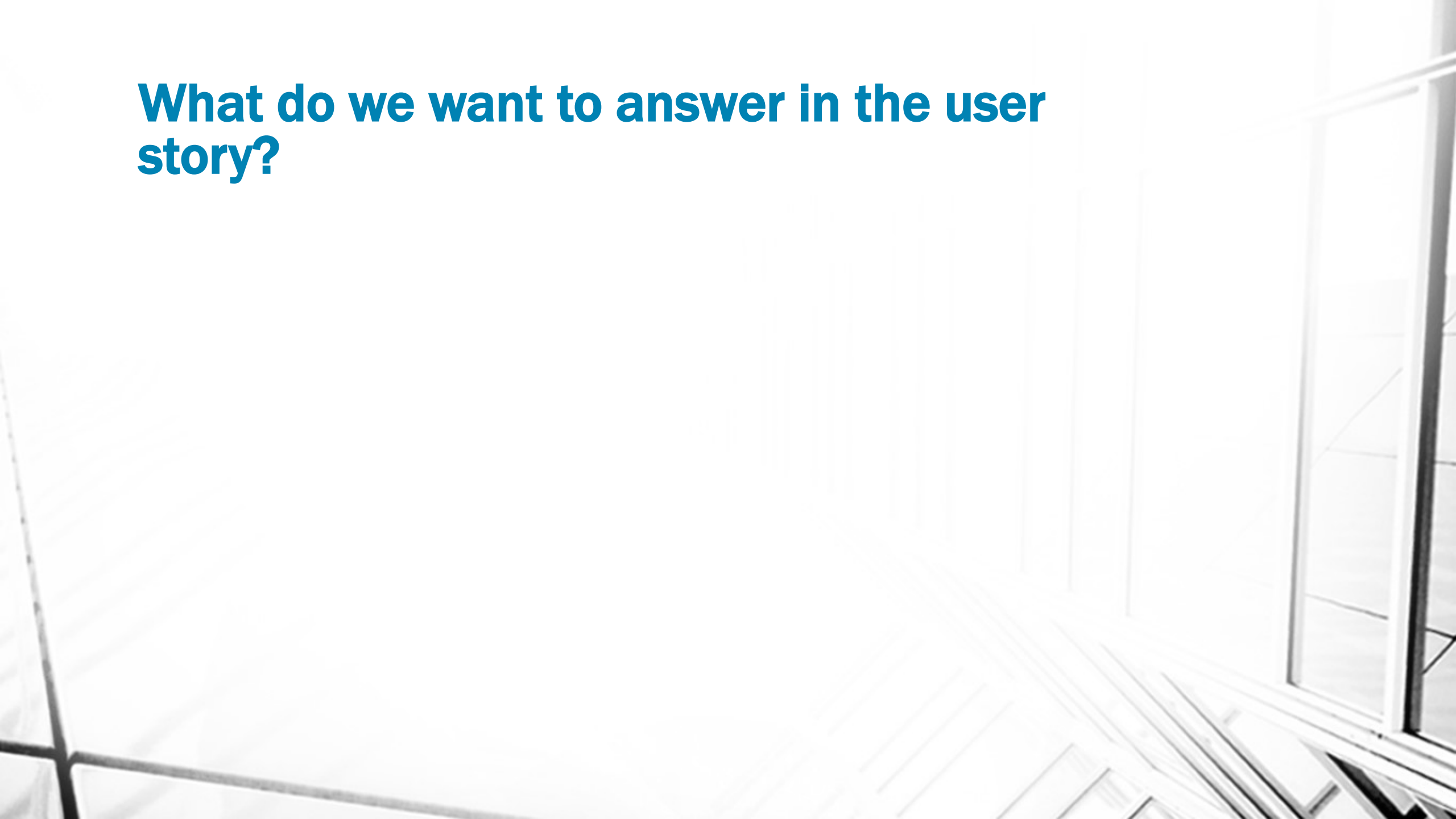
What do we do first?



What do we do first?

Make sure there is a user story in the last sprint to deploy monitoring into the Production environment.

What do we want to answer in the user story?



What do we want to answer in the user story?

From where do we want to monitor?

What do we want to answer in the user story?

From where do we want to monitor?

What parameters are needed for each location?

What do we want to answer in the user story?

From where do we want to monitor?

What parameters are needed for each location?

What is the frequency of monitor samples?

What do we want to answer in the user story?

From where do we want to monitor?

What parameters are needed for each location?

What is the frequency of monitor samples?

What are the monitoring thresholds?

What do we want to answer in the user story?

From where do we want to monitor?

What parameters are needed for each location?

What is the frequency of monitor samples?

What are the monitoring thresholds?

Who gets alerted when there is a deviation?

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From where do we want to monitor?

What parameters are needed for each location?

What is the frequency of monitor samples?

What are the monitoring thresholds?

Who gets alerted when there is a deviation?

Do you need to generate documentation?

**How long does it take to setup monitoring
in Production?**



How long does it take to setup monitoring in Production?

Typically, it will take from 2 days to 1 week to implement.

Questions?



A modern architectural interior featuring a white staircase with a glass railing. The ceiling is composed of a grid of white beams and glass panels, creating a bright and airy atmosphere. The overall design is clean and minimalist.

Thank You!