

expoQA[®]26

MADRID 26th, 27th & 28th May

expoqa.eu



**When Visions Collide:
Lessons from a Cross-Border Testing Challenge**

Ard Kramer

Watch out:

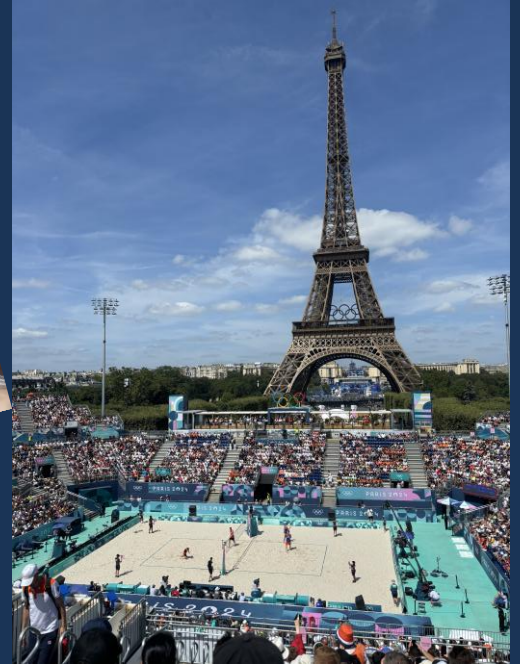
**I am a risk
(and I'm proud to be a risk)**

What does a risk mean?

For whom am I a risk?

Why am I a risk?

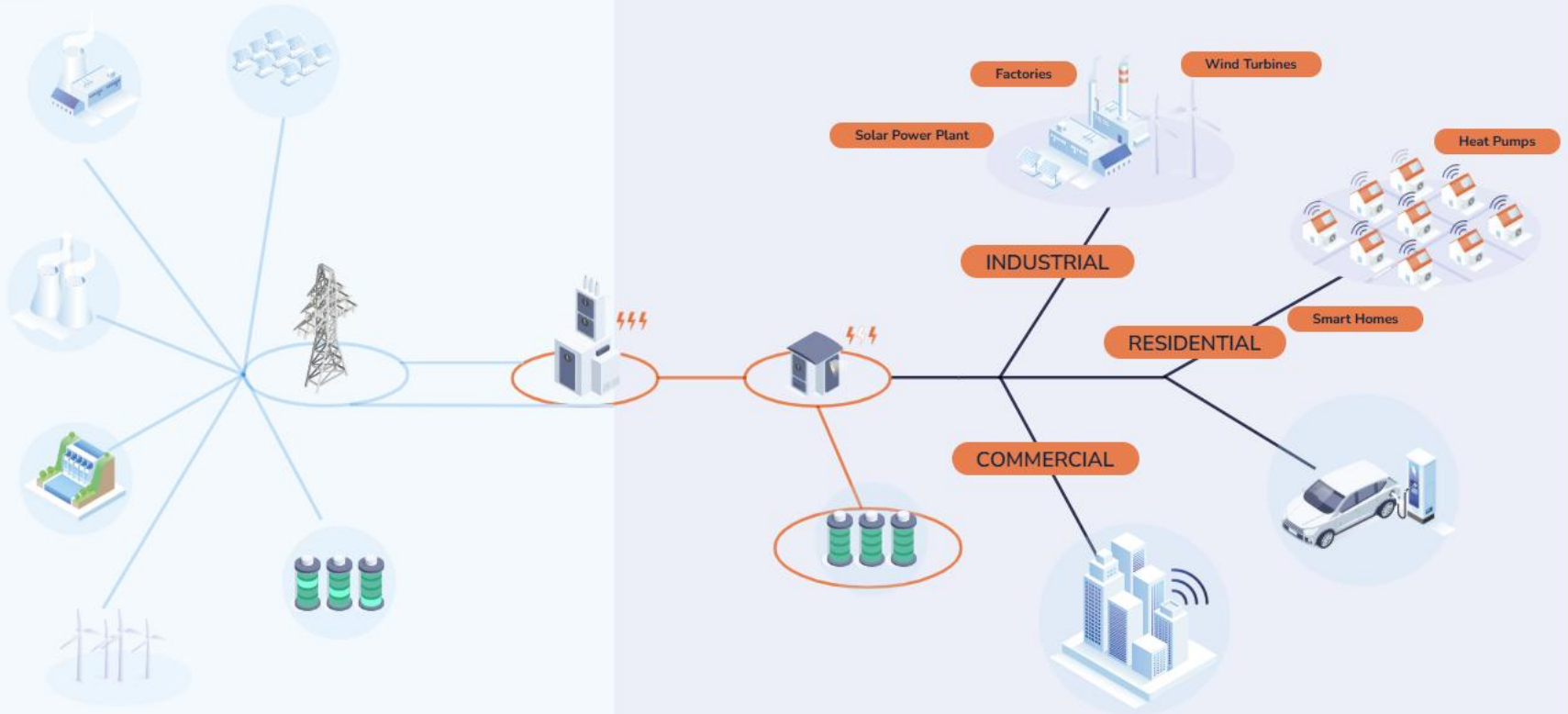
Introduction – Who is Ard?



Once upon a time

TSO

DSO



3 Stories

1. Me, the risk

2. Determine the quality of a product

3. The speed (and quality) of a solution

1. Me, the risk

Challenging the status quo

New programma



1. You are dealing with the business



2. Collaboration



3. Another way of working

Another way of testing

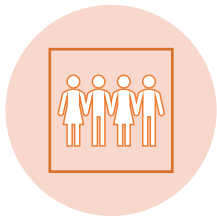
Master testplan



Testing to gain insights



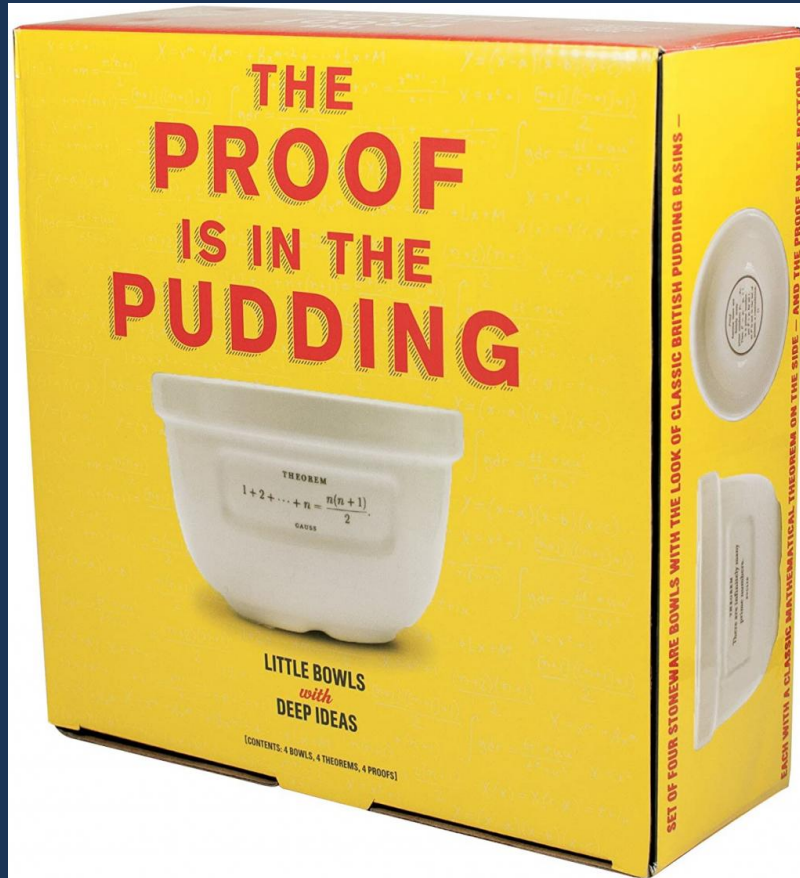
Risks exploration



Shared responsibility



Joint effort



2.

**Determine the quality
of a product**

Cultural clash?

Is testing:

A. an objective?

B. an activity?

What are good test objectives?

Good testobjective?

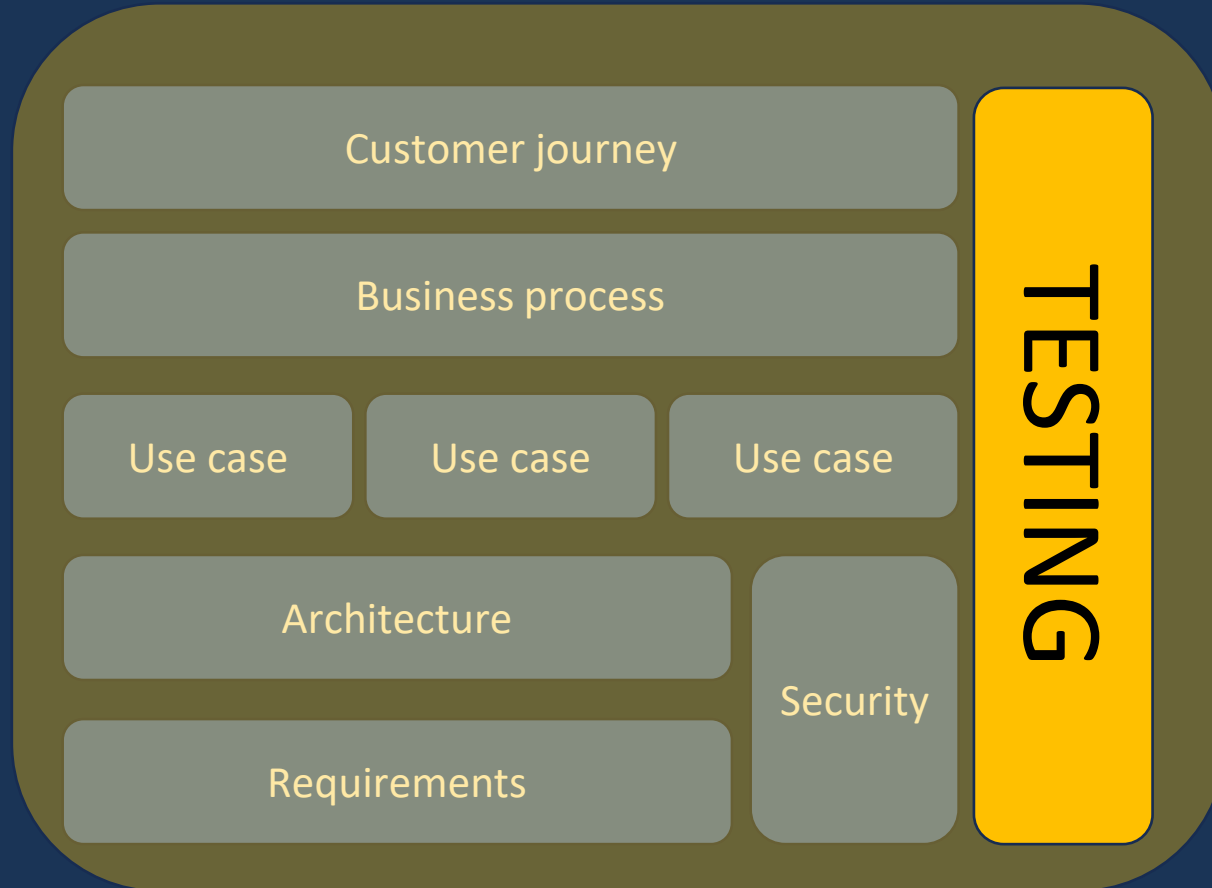
**Functional validation
and testing of <Y>
workflows**

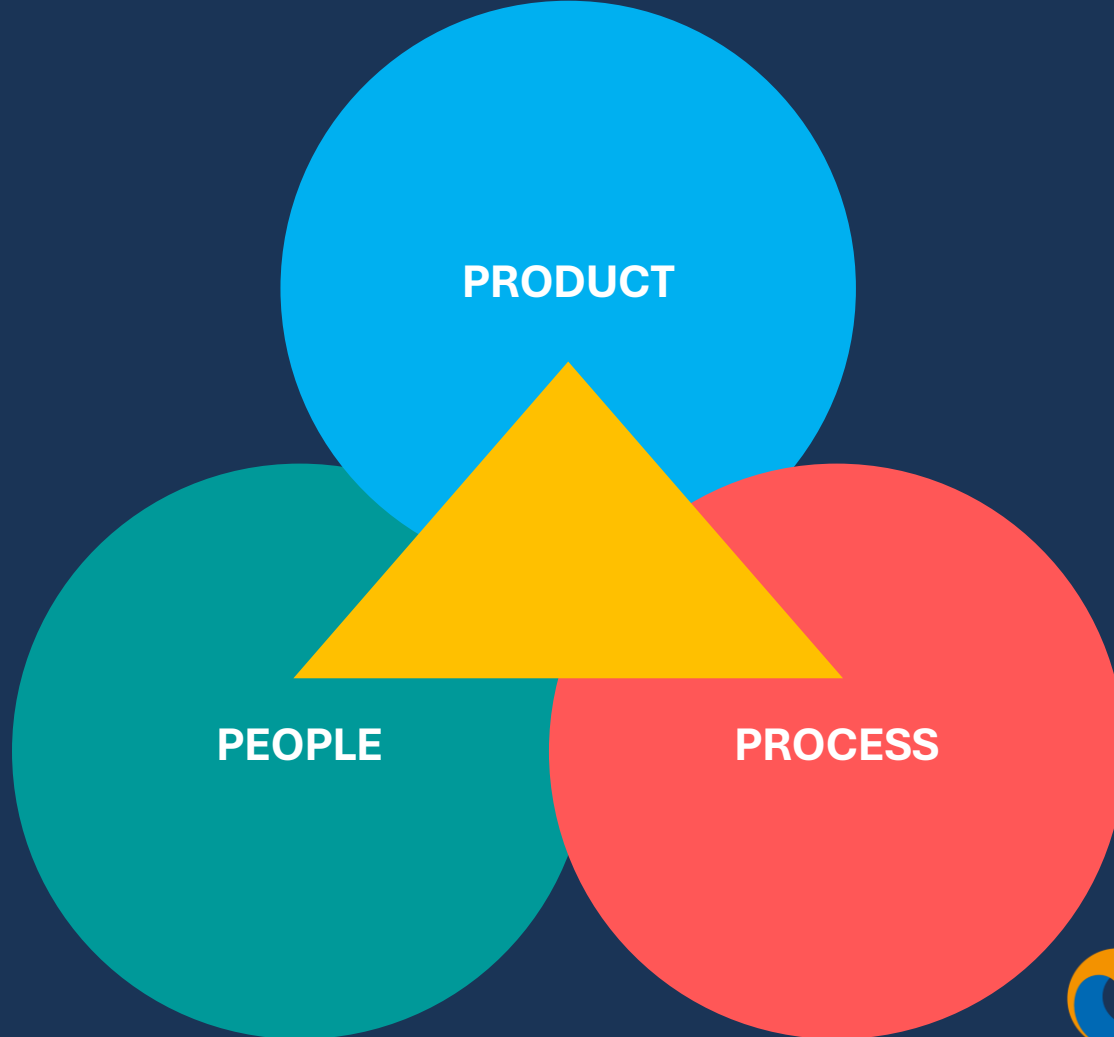
Assessment Objectives

1. Assess how <X> supports **early detection (24h) of congestion & transport issues**
2. Evaluate ability to **propose mitigation measures**
3. Determine how <X> integrates with **NOC workflows and decision-making**

Reasons we are (maybe) buying the system

All based on:

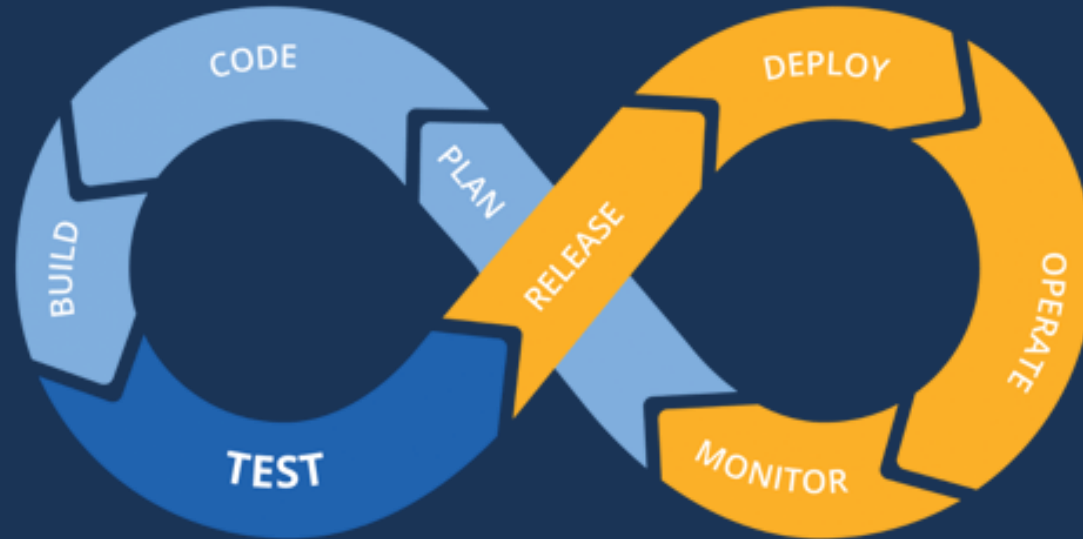




**If we can't test it,
it is a risk.....**

3.
The speed
(and quality)
of a solution

This is CI/CD



DevOps practices

Automation

Fast Feedback

Collaboration

Reliability

Risk Reduction

How CI/CD Supports that

Builds, tests, deployments are automated

Immediate test results after each commit

Shared pipelines and visibility

Repeatable, consistent deployments

Small, frequent changes, no big releases

**What problem are
you trying to solve?**

How to test (validate) a CI/CD solution?

Teststages

VALIDATE PERFORMANCE OF SOLUTION

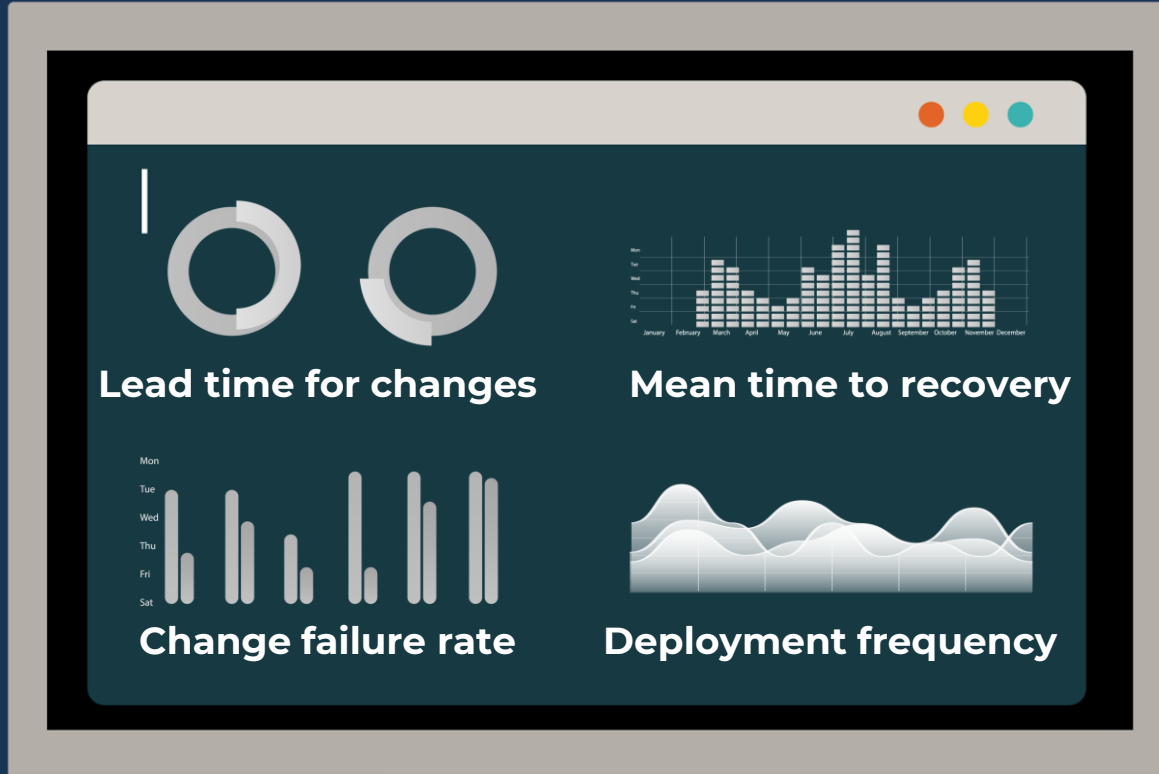


Test Stage 1 - Inspect the stationary car



Test Stage 2 - Inspect the moving car

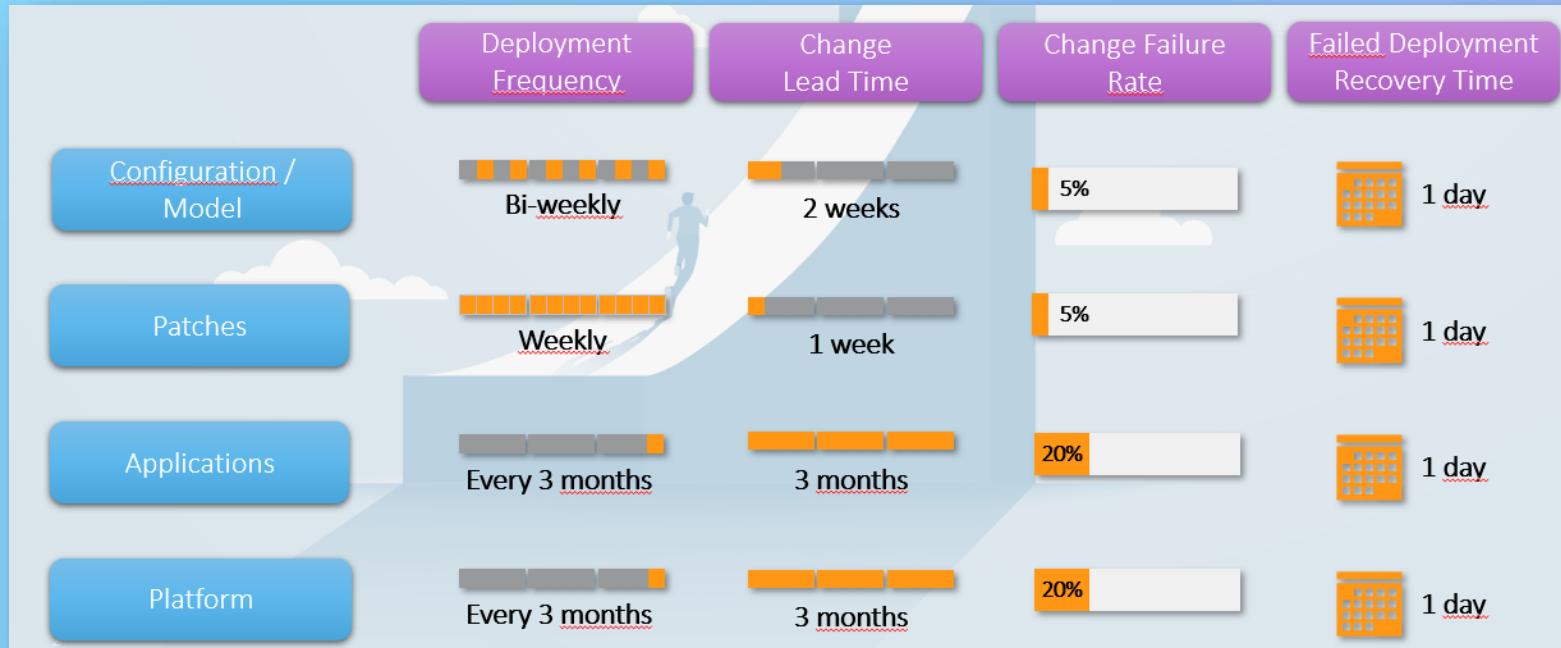
DORA DevOps metrics



Impact CI/CD Ambitions

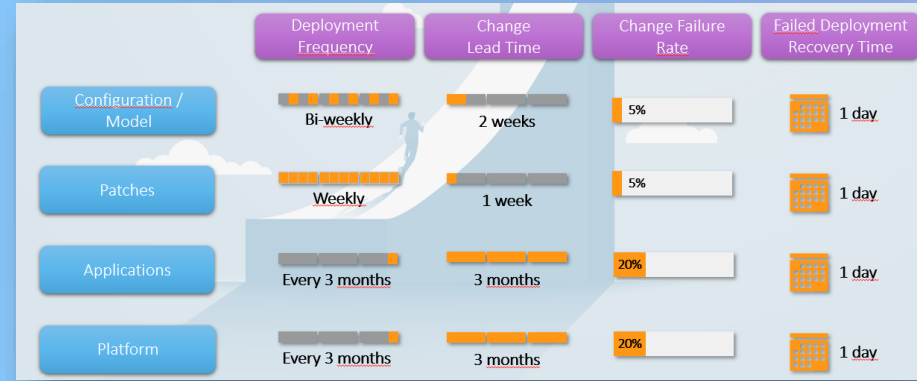
DELIVERY PERFORMANCE

Example!



Impact CI/CD Ambitions

DELIVERY PERFORMANCE



| KPI's for Applications | Current |
|---------------------------------|----------------|
| Deployment Frequency | Every 2,5 year |
| Change Lead Time | 1 year |
| Change Failure Rate | 100% |
| Failed Deployment Recovery Time | Multiple days |

Teststages

VALIDATE PERFORMANCE OF SOLUTION

Test Stage 3 - Inspect the fixes on the new stationary and moving car



Test Stage 1 - Inspect the stationary car



Test Stage 2 - Inspect the moving car

Test Results

CHANGES THROUGH RUNNING PIPELINE

Apply change

<15 min

Run pipeline: destroy and provision infra, deploy & test

2,5 – 3 hours

Correctly deployed?
?

Automated Test

No QA in CI processes

Artefacts can be changed w/o trace

Pipeline not continuous

No clear (common) Test Strategy

Model

Pipeline stages can be skipped

Data

Configuration

Security issues

No monitoring and alerting on applications

Full vs Incremental inconsistent

AMP toolset

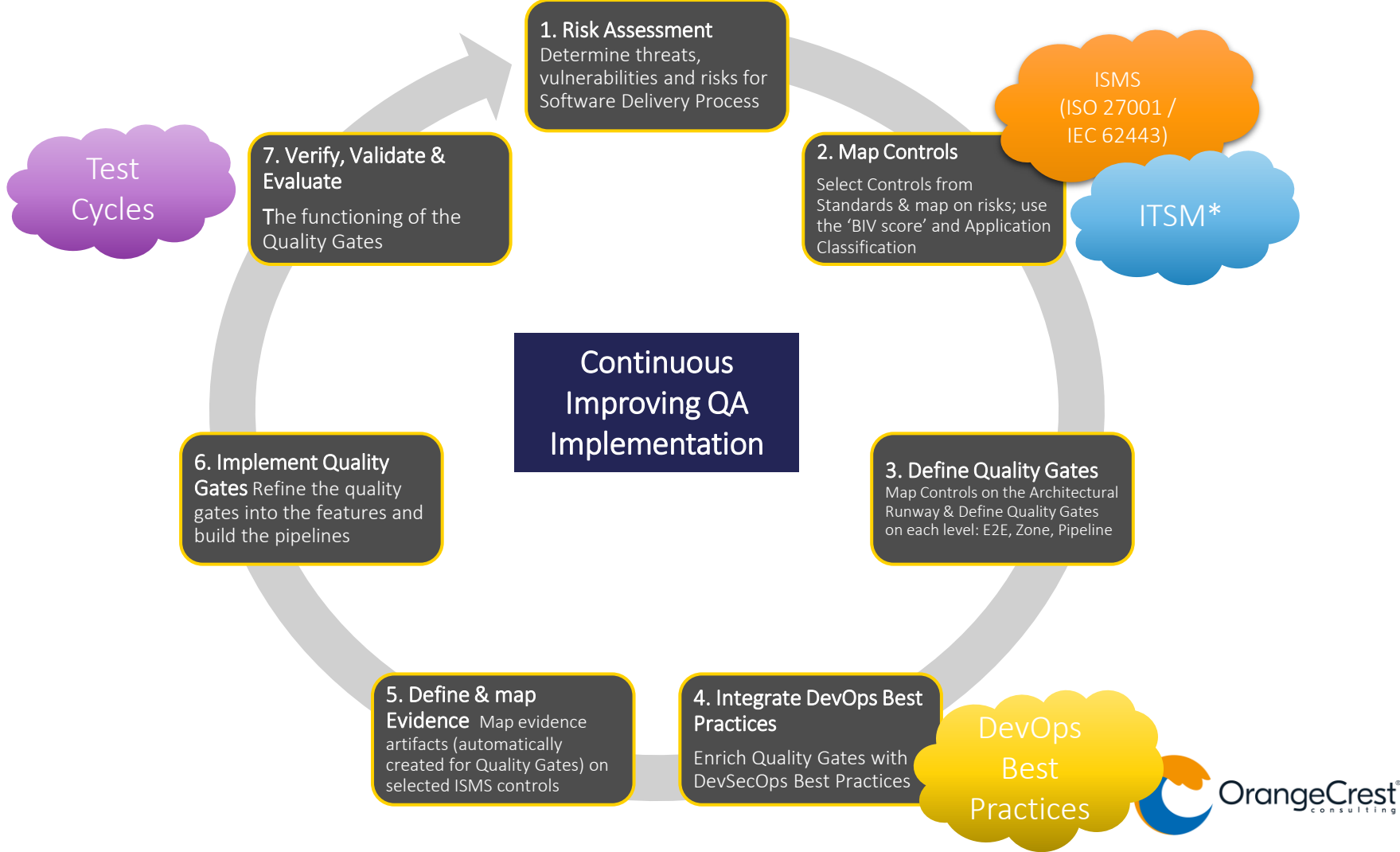
Provisioning AMP not automated

No clear vision on LCM and QA (yet)

Infra template (AMI)

Tested

Discussed



DevOps practices

Automation

Fast Feedback

Collaboration

Reliability

Risk Reduction

How CI/CD Supports that

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Wrap up & Conclusions

3 Stories

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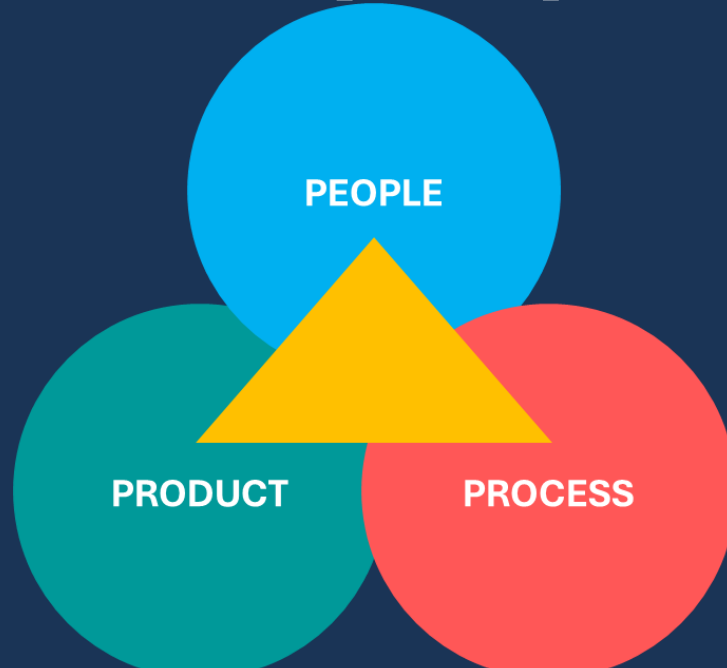
3 Stories

1. Me, the risk



3 Stories

2. Determine the quality of a product



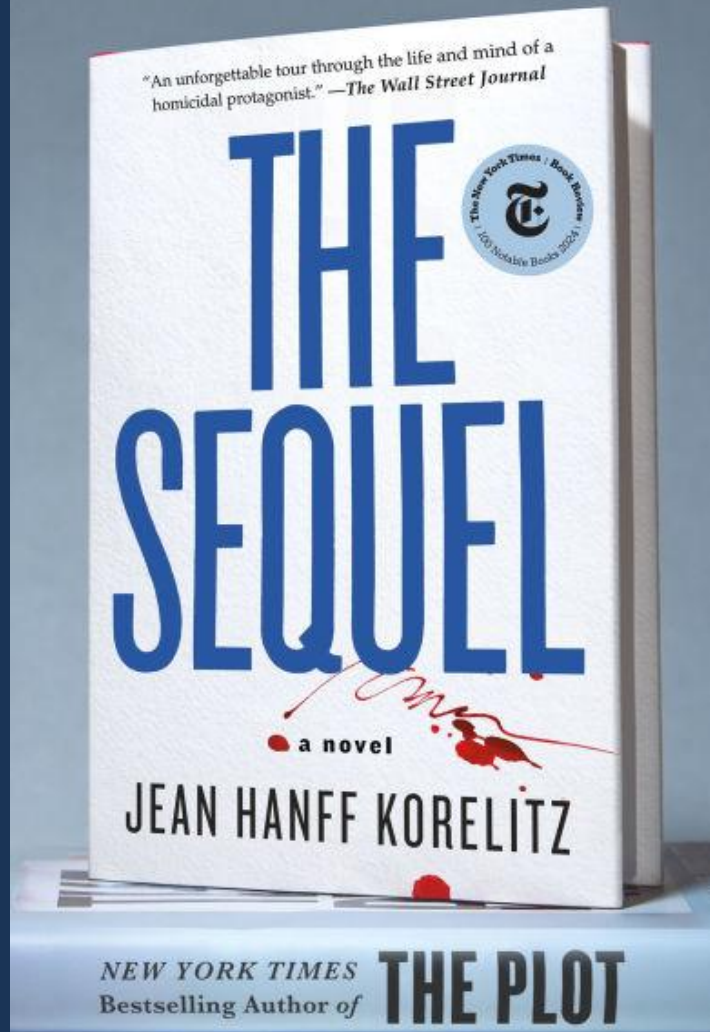
3 Stories

3. The speed (and quality) of a solution



End of story?

**“Am I a risk”
part 2?**



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Thank you for attending

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