

ISTANBUL
SOFTWARE
TESTING
CONFERENCE

Old Dogs, New Tricks

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tesena
SMART TESTING



Testing Conference



New Tricks!

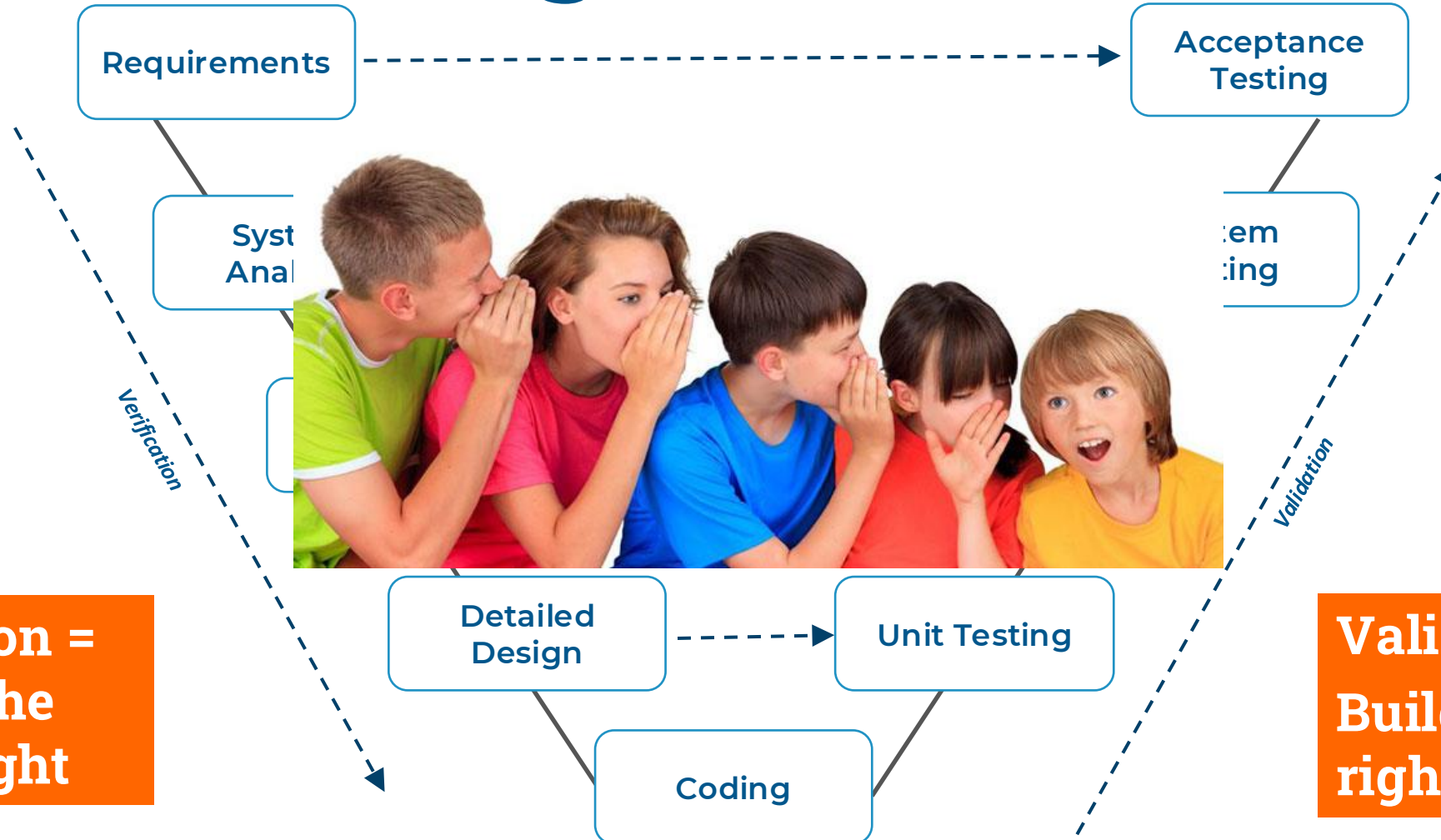
What?





Old Dogs, Old Tricks

Big Old Trick



**Verification =
building the
system right**

**Validation =
Building the
right system**

The V-Model

Early Days of Test Automation



CIO



Tester

The new tricks you all have been talking about...

**Collaboration
and Soft
Skills**

Agile

**Test
Automation**

**Test Driven
Development**

**Continuous
Testing**

**Quality
Engineering**

AI

Let's see if I can use
some of these new
tricks

BANK

After a gap of many
years, this old dog
decides to go back to
testing



Except testing has become even more challenging than when I left...

IT drives business value. It gives us our competitive edge.

Our clients are used to and expect constant innovation.

They are used to and expect cheap banking services.

Our clients expect our services to be highly available and high quality.

We need to be flexible to react to constant change in the market and in regulations.

Our competitors are more innovative and faster to market than we are!

I really need fast, cheap and good.



Testing is viewed as a Bottleneck.

“Speed up testing, reduce costs but not reduce production quality.”

A middle-aged man with grey hair, a goatee, and glasses is wearing a dark blue suit jacket over a light blue button-down shirt. He is pointing his right index finger towards his chest and his left index finger towards his chest. The background is a blurred office interior with large windows.

The Agent of Change?



**Introducing Change.
Pick Your Moment.**

Introducing Change



Means changing people.



You need to respect that that's going to be hard.



To change, people need to learn.



People only learn when they...



Are curious.



Think it is meaningful enough.



Are in awe.



Are in crisis.



Eat psychedelic mushrooms.



What's slowing testing down?



Why this long acceptance testing phase in the release calendar?

Testing Obstacles?



Tester's Instinct



Big Releases



Unstable Test Environment



Fear of the Unknown

Survivors of 35 Years of Reinvention

THEN · pre-1990

Mono-business communist banks. Zero competition. Paper-based services running on communist mainframes.



35 years

NOW · 2025

Ultramodern, digital, innovative, very competitive, highly regulated and well trusted banks.



A 35-YEAR YEAR STORY OF
TURMOIL
PRIVATISATION
CRISIS
CONSOLIDATION
AND CONSTANT NEED FOR INNOVATION

...LEAVING A LEGACY

Large Business Portfolios

Multiple and deep business segments

Complex Architectures

Mix of modern and ancient, multiple core systems from consolidation

Why Big Releases?



Deeply coupled systems.

- One change can impact many systems.
- Handling cross impacts feels easier and safer in big release.

Quality Mindset

- Rollouts are complex and risk production stability
- Release less, less releases means releases have more scope

Simplification

Major Banks go through transformation programs every 10-20 years to reinvent themselves.

Testers Instincts



Testing at the end

We know we shouldn't do it, we do it anyway.

Some reasonable sounding "reasons"



Realistic



Efficient



Stability



Support

Testing at the End

Every defect means we go back and...

REDO One or more of
Requirements, Design, Coding, Deploy and
Testing

REWORK MEANS THE WORK YOU DID BEFORE IS
WASTED because you have to do it again

Question

What will you do if you find a regression, performance or security defect just a couple of days before scheduled rollout?

Why is the Test Environment Unstable?



Poor Quality is
Destabilizing the
Environment

Broken,
Inconsistent, Slow
Deployments

Fear of the Unknown



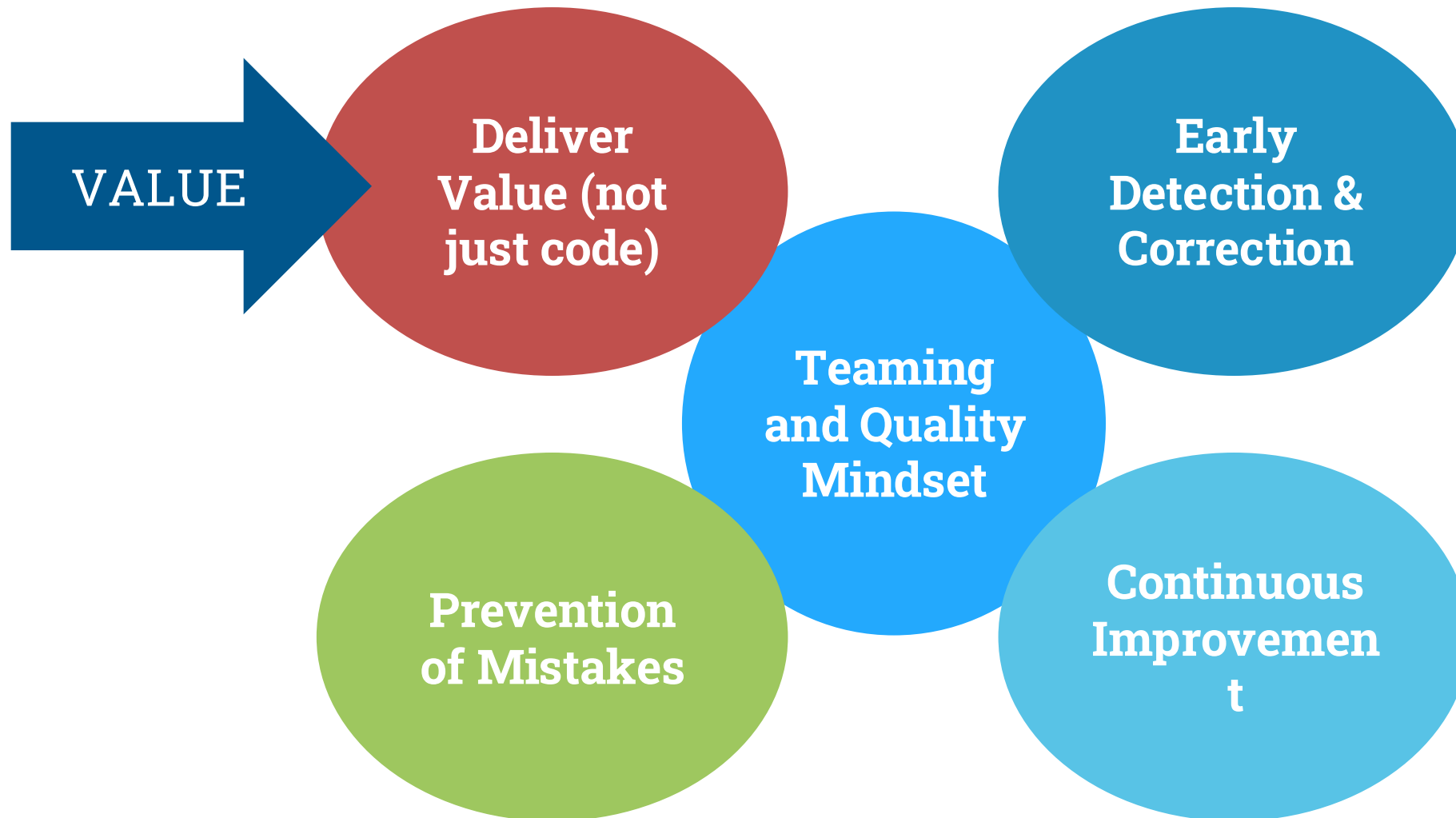
Regression



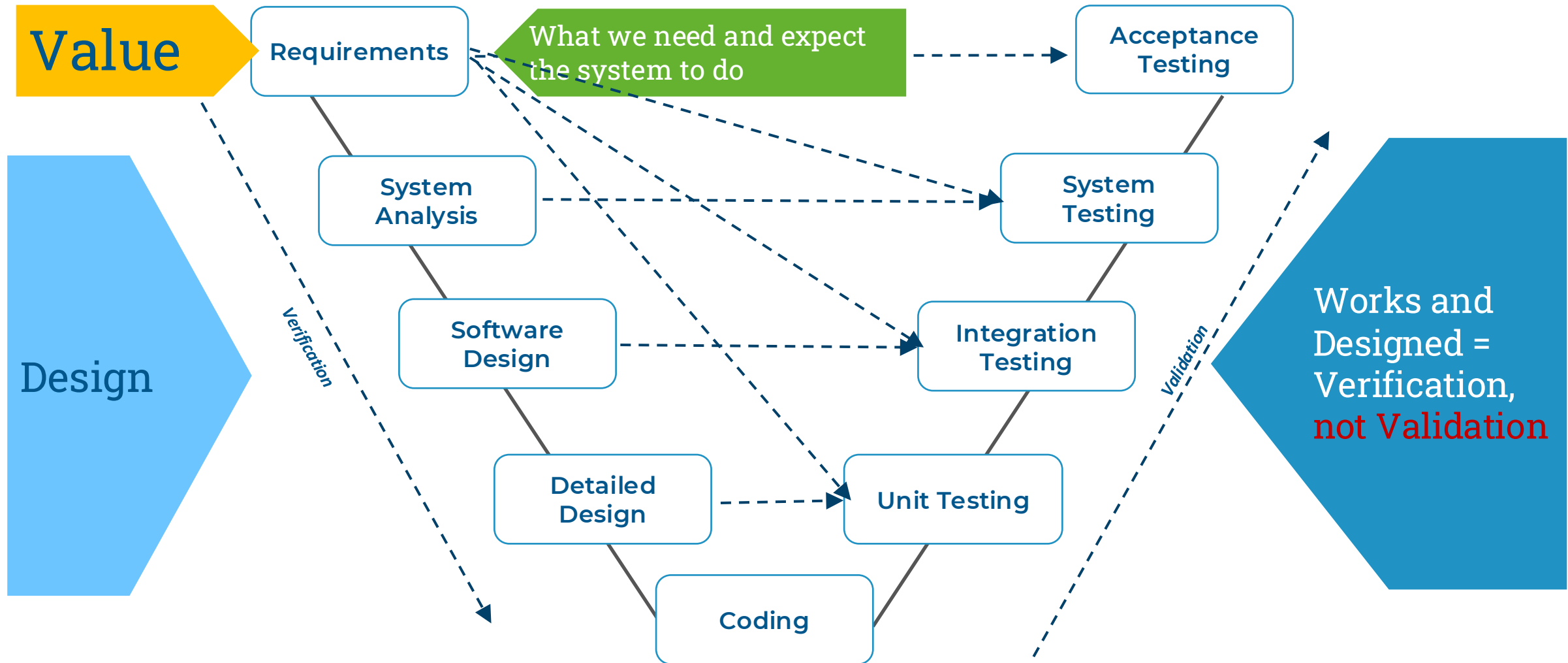
New Tricks



Quality Engineering Principles



Where's the value in the V-model?



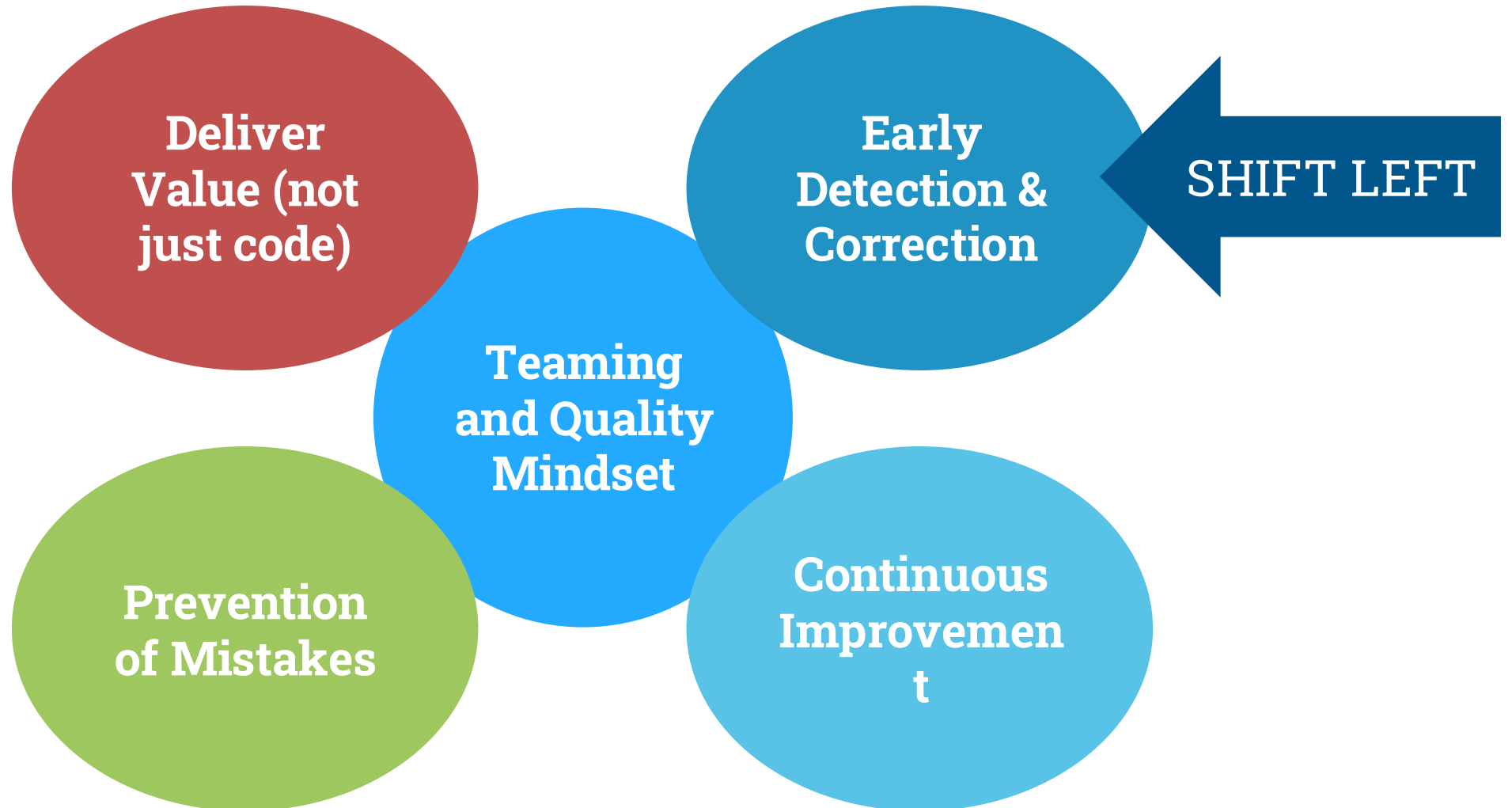
The V-Model

Business Driven Testing

Testable Business Requirements

**Early and Continuous Collaboration with
Business**

Quality Engineering Principles



Why Shift Left?



Stop the spread

Dung beetle effect – mistakes get bigger as they roll downhill



Easier to isolate

Faster feedback = faster root cause



Flow

Context switching is expensive



Still fresh

Faster to fix, less to re-learn



Learning loop

See cause-and-effect immediately



Rework is waste

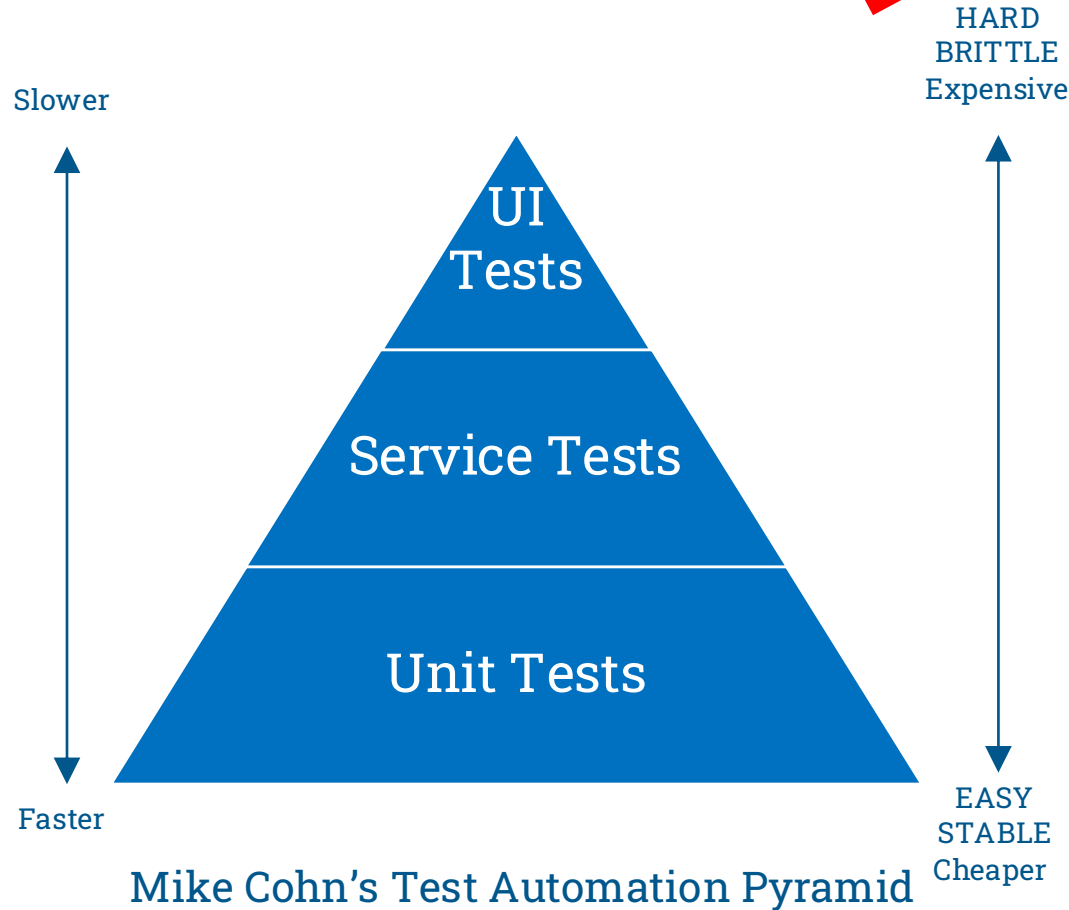
Late = expensive (testing at the end)

Test Levels

Is it just me?



~~The Test Automation~~ Pyramid



Not only
writing
automation
scripts

Testing a system's feature through the application screens is hard

Testing through the service layer is a good compromise

Testing a system's feature isolated from everything else is easy

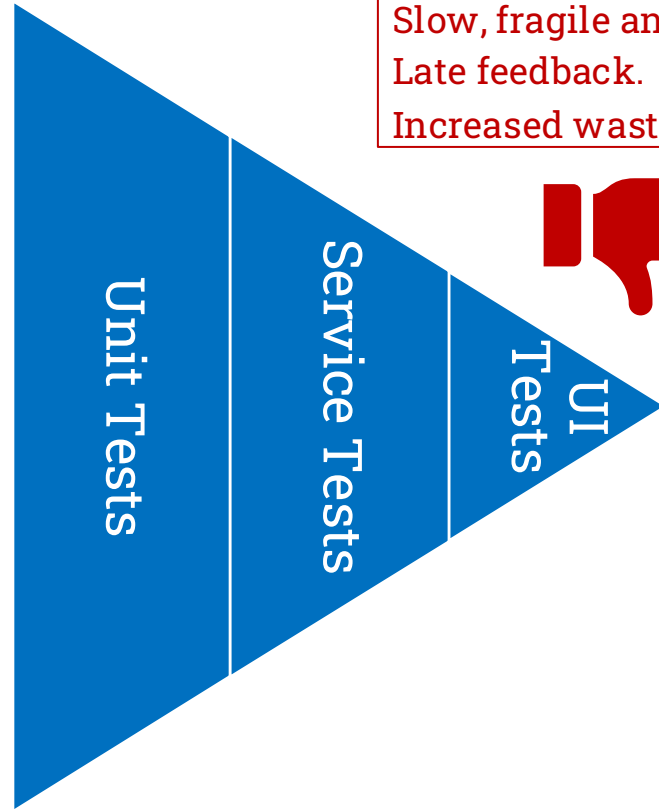
Decoupled Testing

Testing things in isolation means you won't get blocked by late deliveries or bad quality of other things

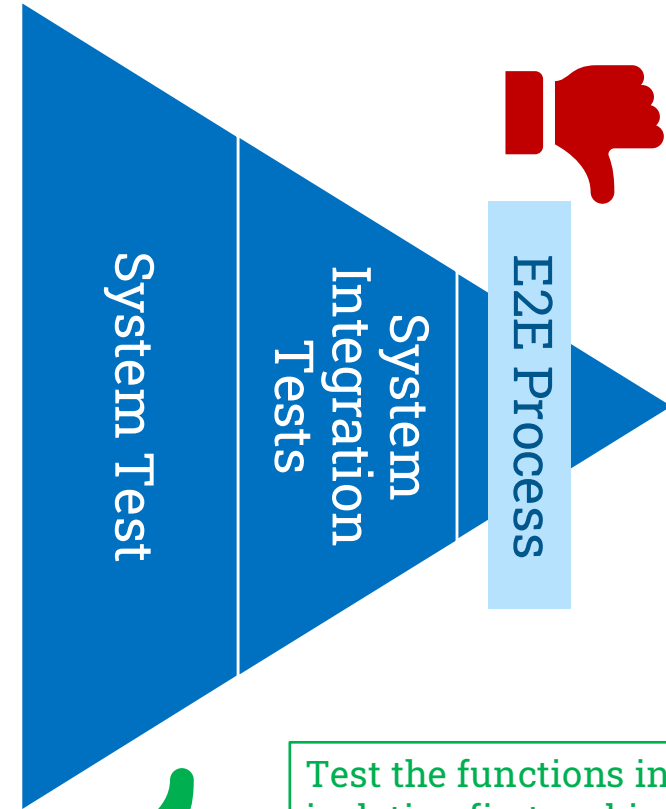
Alt-Pyramids



Slow, fragile and expensive testing.
Late feedback.
Increased waste and rework.



Faster, robust and cost-effective testing.
Fast feedback.
Decreased waste and rework.



Test the functions in isolation first and in many combinations

Golden Rules

Always Test the Top of the Pyramid

It gives the highest confidence that the system actually works.

Test the UI and the End-to-End Process

You need to prove the journey the user or business process takes

Make it Effective and Efficient

Don't repeat the same test as you move right – each layer should add something new and you can reduce the test variants on the functions or features.

The BIG “Buts”

UNIT

Unit Tests Don't Fulfil Their Potential

- Developers have high code coverage in unit tests, but quality still **BAD?**
- Mocks or simulators are needed to isolate the unit – these are **NOT REALISTIC**

SERVICE

Testing Services Doesn't Fulfil Their Potential

- We test interfaces a lot, but the integration between systems still doesn't work
- Testing one side of a conversation doesn't prove both sides are having the same conversation

SYSTEM

The System Needs to be Integrated to Work

- It's not possible to test a system's function in because I need integration with other systems
- We cannot mock out the integration – mocks and simulators are **NOT REALISTIC**

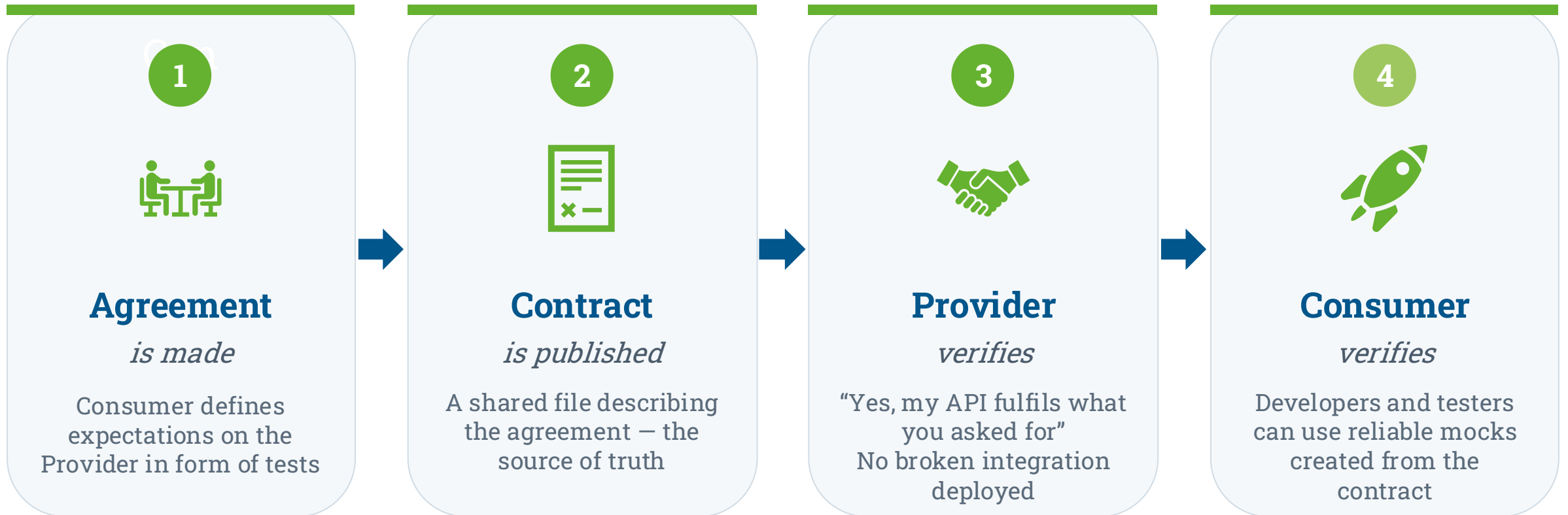
I think I have a testing Ace up my sleeve



Contract-driven testing

Contract-Driven Testing

Two teams stay in sync – without integration tests



Ace Card Benefits

1

Broken integrations don't get deployed to test environments – environments are more stable

2

Decoupled testing means more and better testing earlier

Applying techniques like specification and example means we can include business-like use cases — so we can test that the value is being delivered early and providing even more realistic mocks

Pipeline Driven Testing

Every Code Change Deployed through CI/CD

Major Release

Fixing Release

Hot Fix

DoR

• Deploy tests fail:

• Deploy tests fail:

DoD

Pipelines give me

- Automated deployments – fast, consistent, accurate
- More and more reliable testing
- Automate my automation
- Early and continuous smoke and regression testing
- Possibility to create quality gates for fast feedback
- Code is tested before it is integrated (contract tests pass)
- Testing as part of deployment
- Gets the attention of IT guys (just say “CI/CD”)

**Test
Automation.**

**You've heard it
all already.**



What tricks are we trying to apply?



Shift Left



Shift Down



Pipeline Driven
Testing



Quality Gates
with a Goal



(Contract) Test-
Driven
Development



Business-Driven
Testing



Decoupled
System Testing

MAYBE



**Big Ships Don't
Change Direction Fast**



**A Steady Hand on the
Tiller**



**People Don't Change
Direction Fast**

You are not Taylor Swift!



THANK YOU



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Thank you!