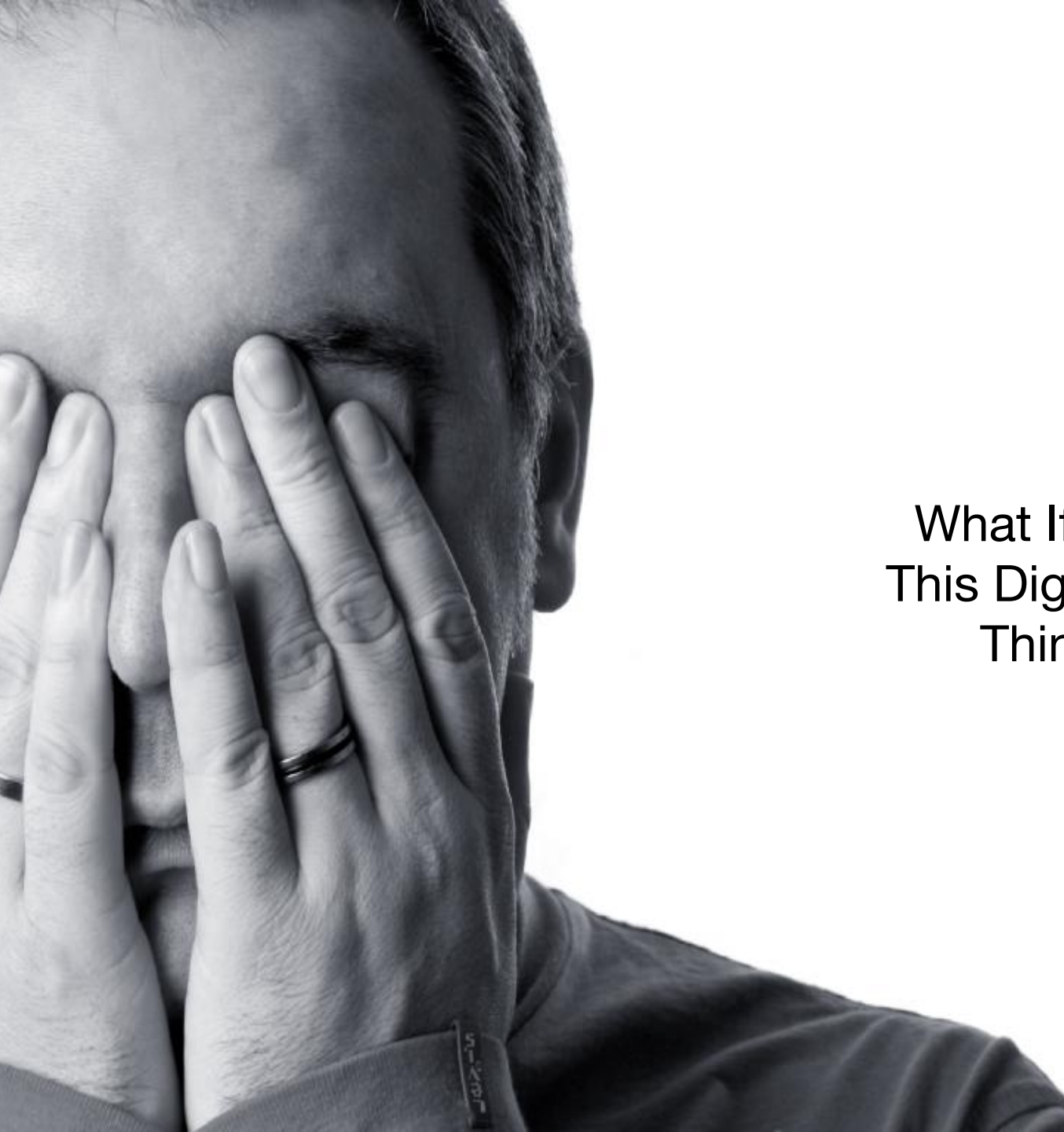


Characteristics of 'good' agile testing solutions

Daniel Burns

Karlsruhe Entwicklertag, May 2017

What If I Don't Get
This Digital-Industrial
Thing Right?

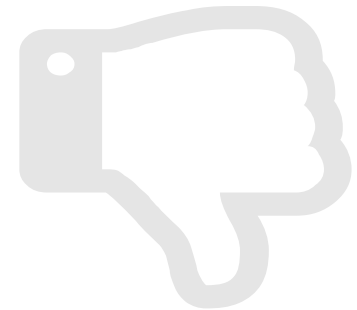


Test Automation is hard

„Automated testing tools are expected to make things faster and easier for IT companies.“

„The reality is that automated testing projects fail and the business goes back to manual testing.“

„Testing is then outsourced to off shore locations.“



Some of the common reasons for failure...

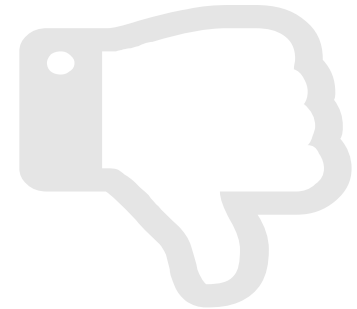
„Unrealistic Expectations, now we've invested everything works straight away“

„One size fits all.“

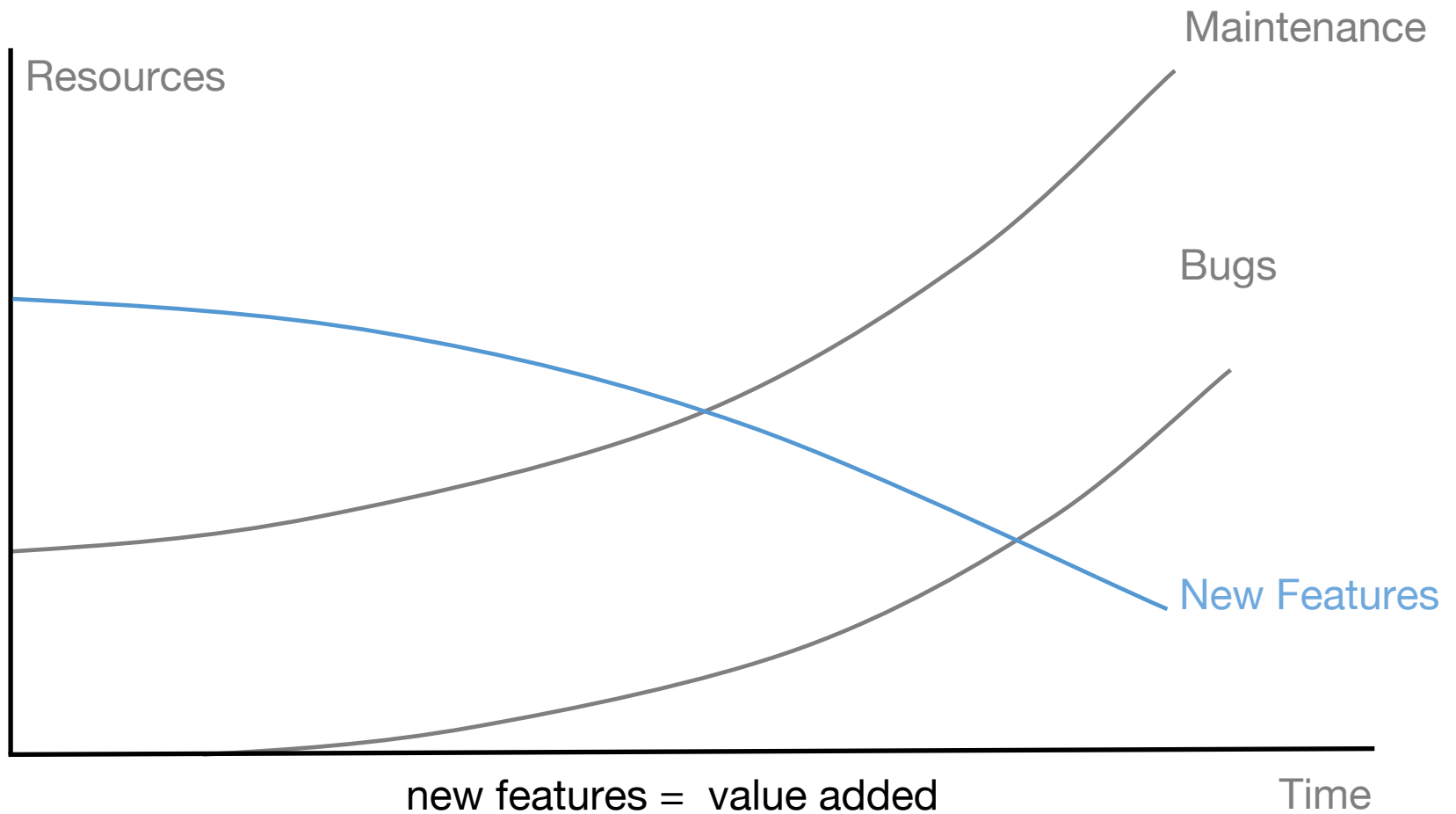
„Not understanding the testing requirements.“

„Lack of management buy-in.“

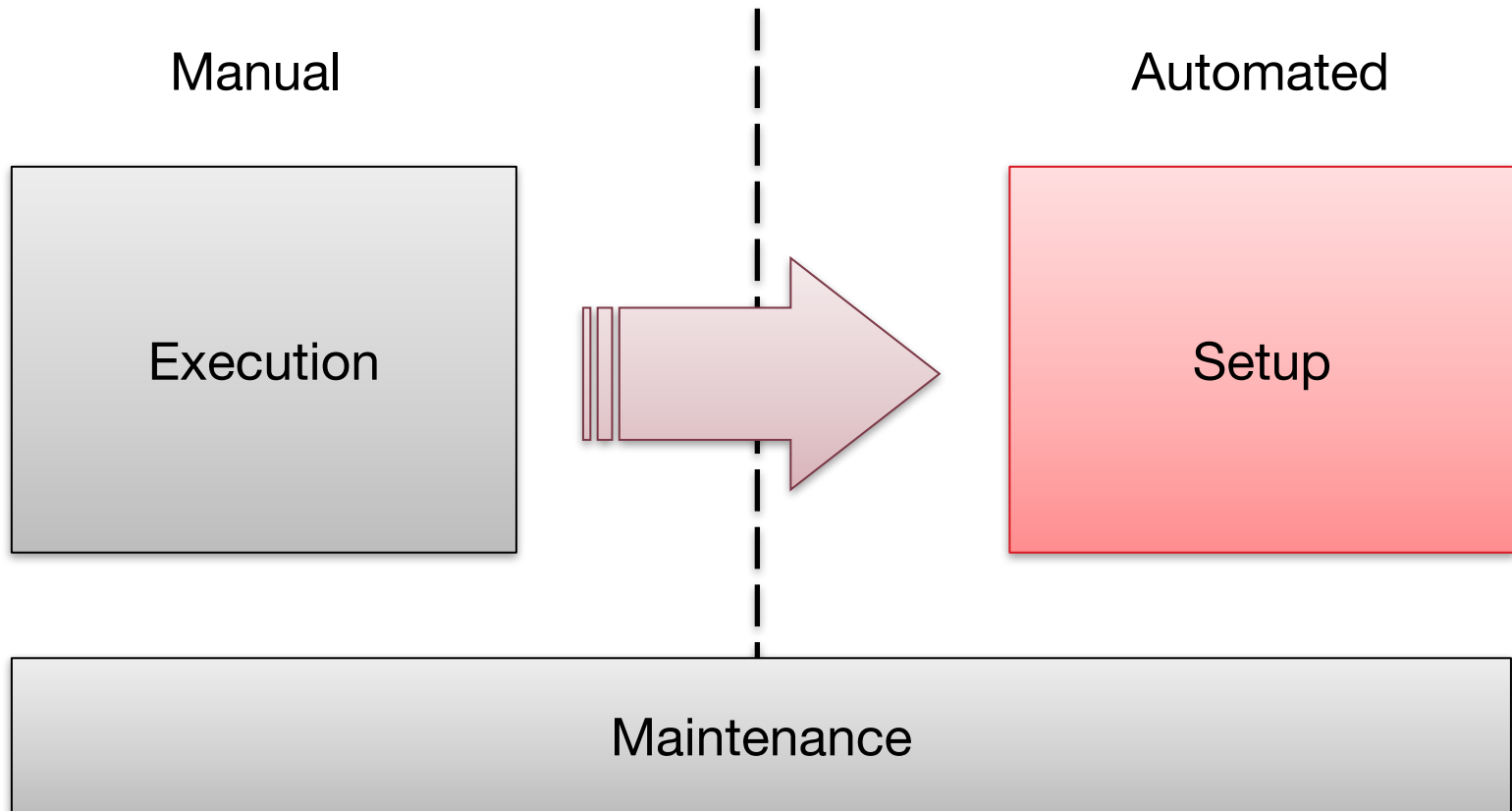
„No budget and no ongoing maintenance... fire and forget“



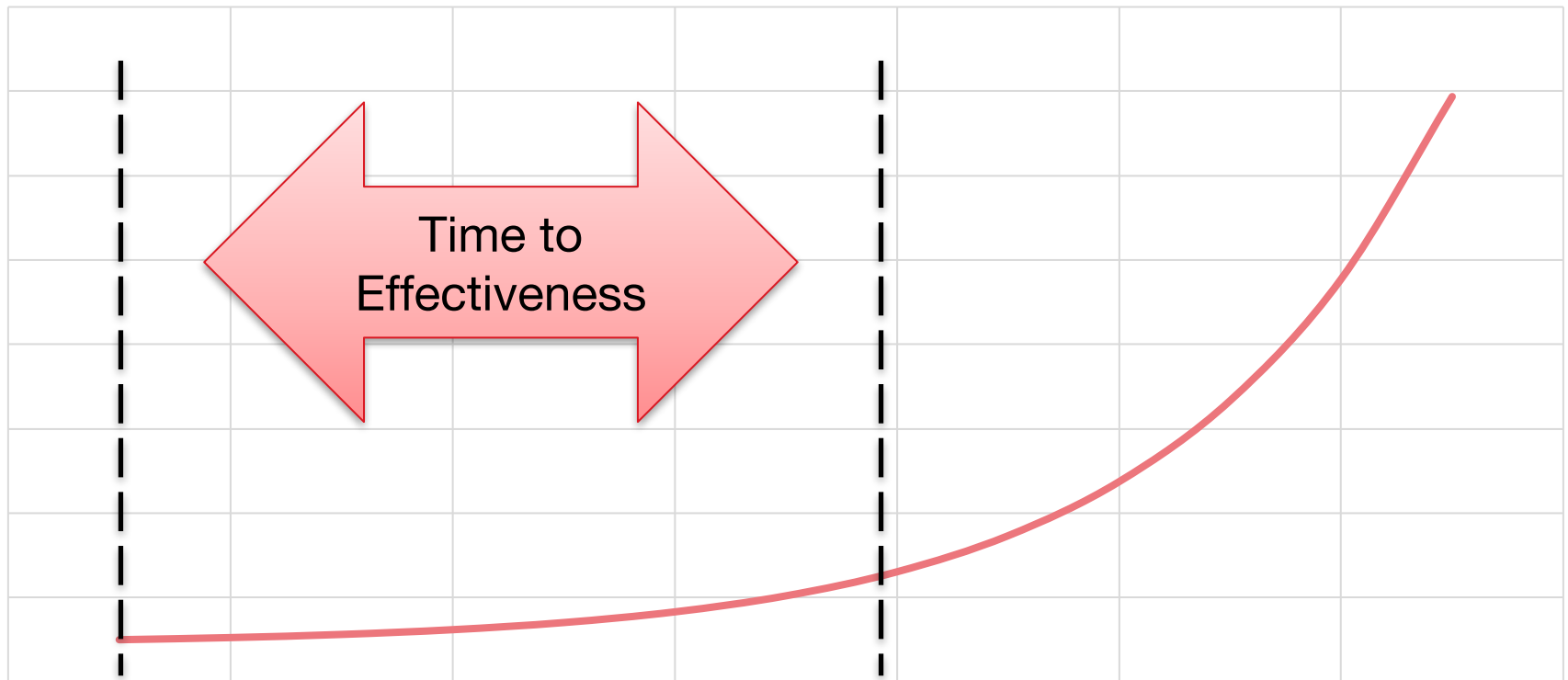
Automated testing is a **necessity** not a luxury



Cost of Testing – Manual v Automated



Critical success factor is to minimise the "Time to Effectiveness"



Let's start with the basics then... the **bottom line**



Core ‘-ilities’ of **any** test automation tool



1. Maintainability



2. Reliability

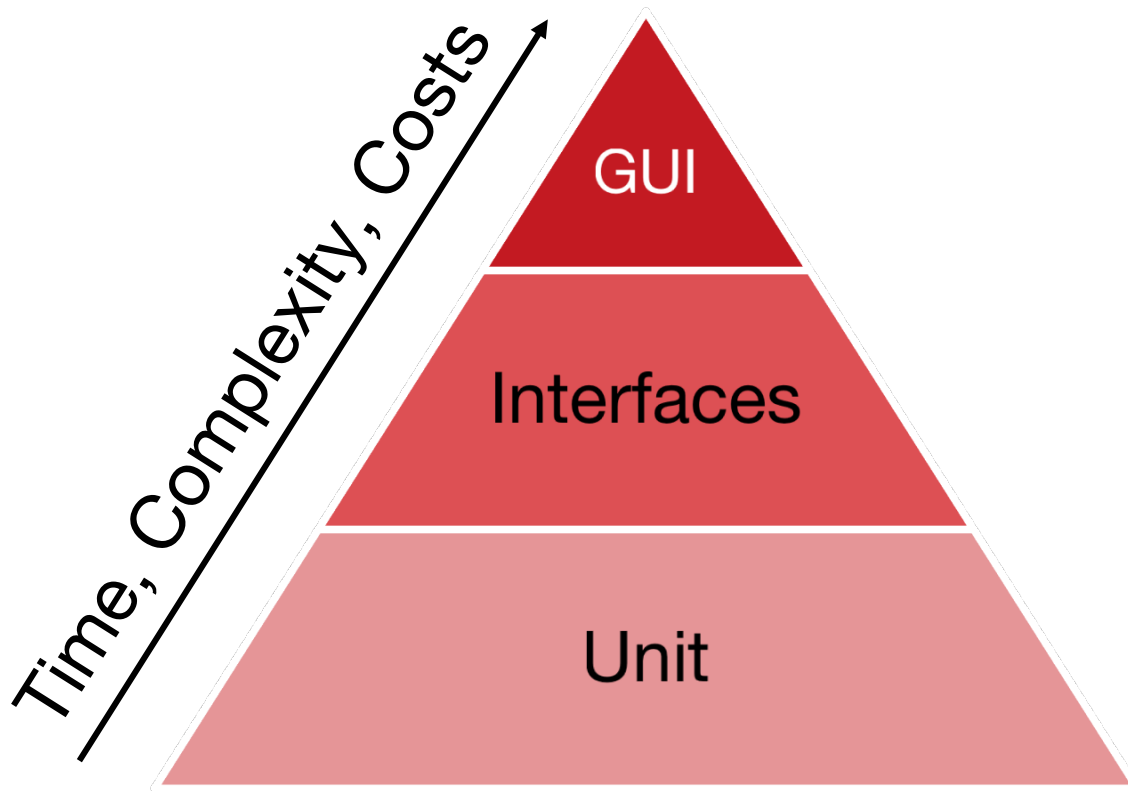


3. Scalability

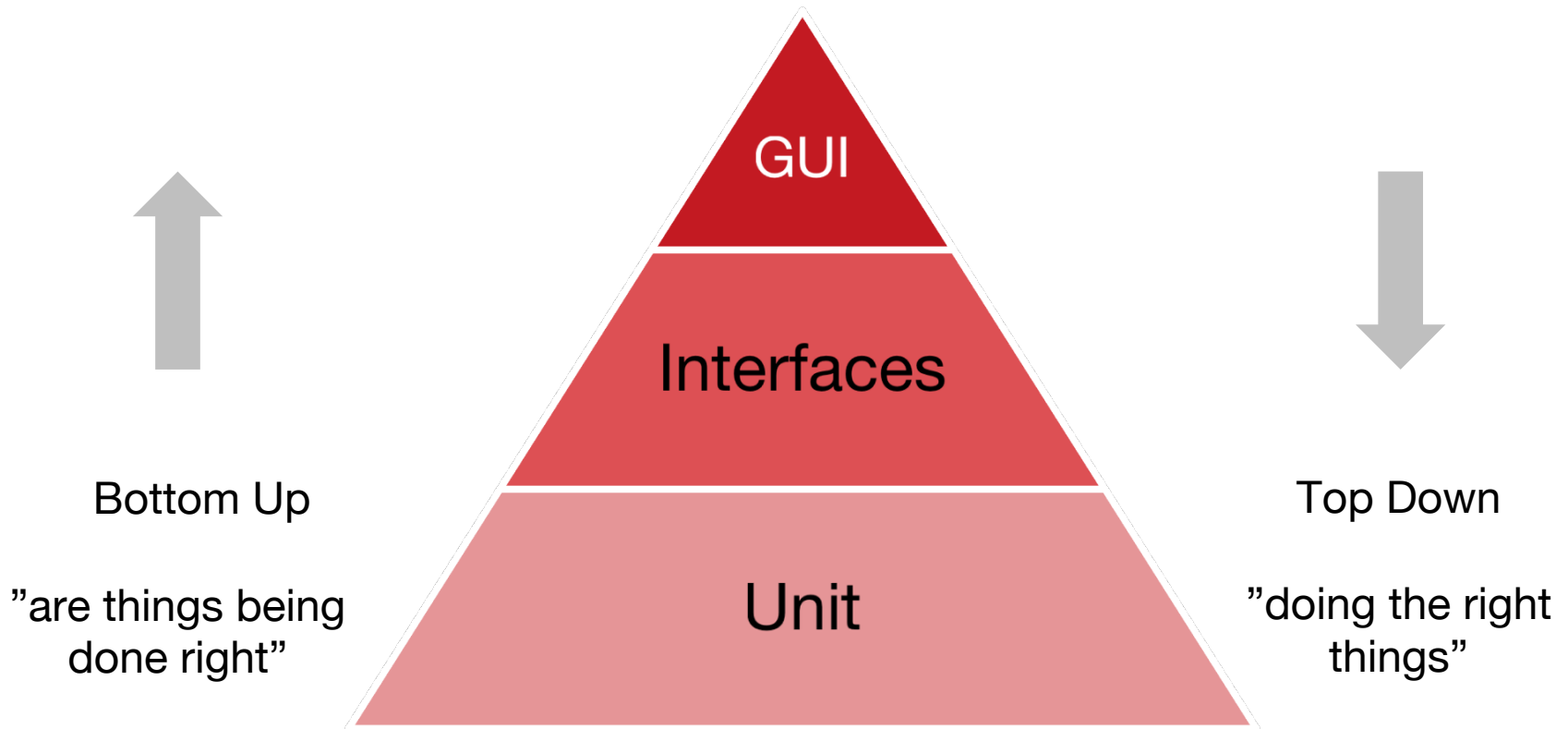


4. Traceability

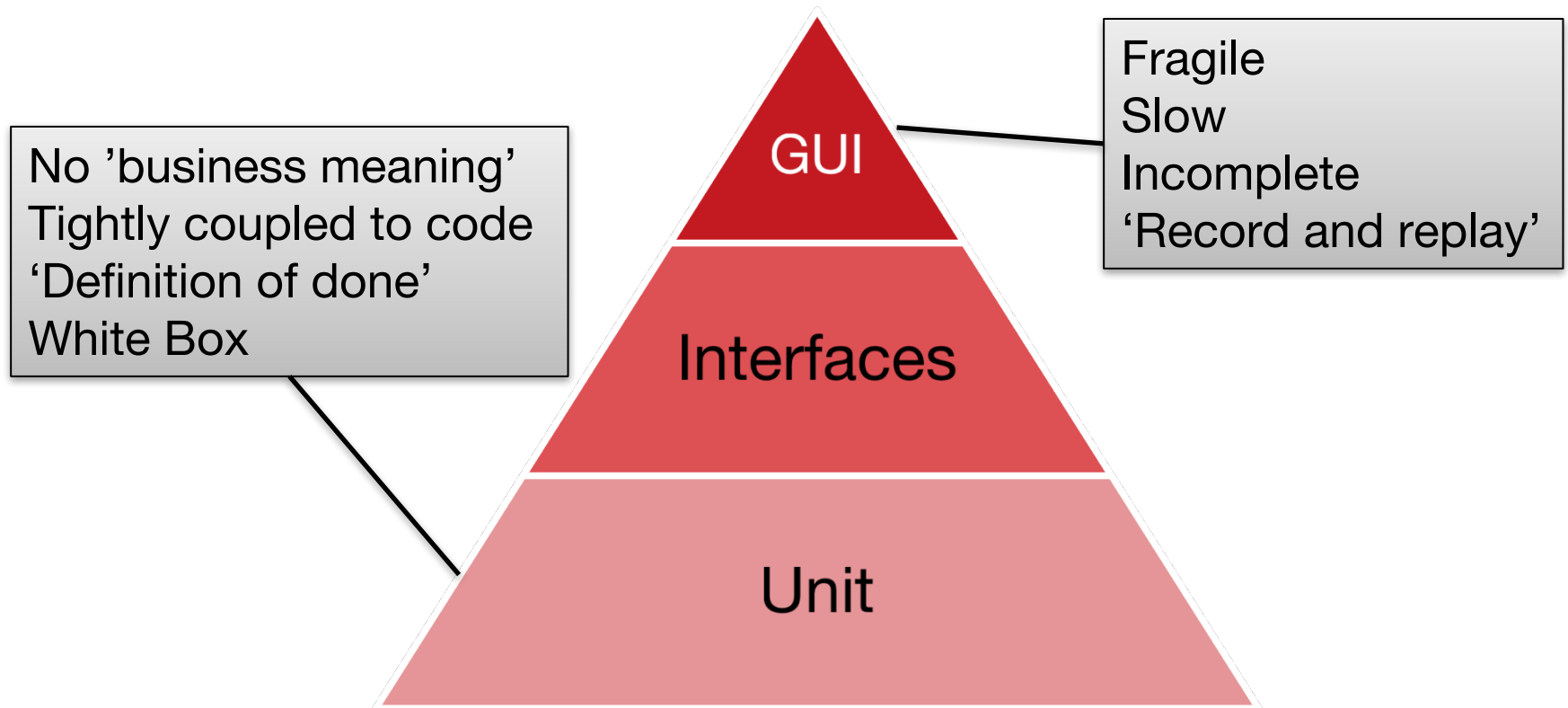
Agile Testing Pyramid – The basics



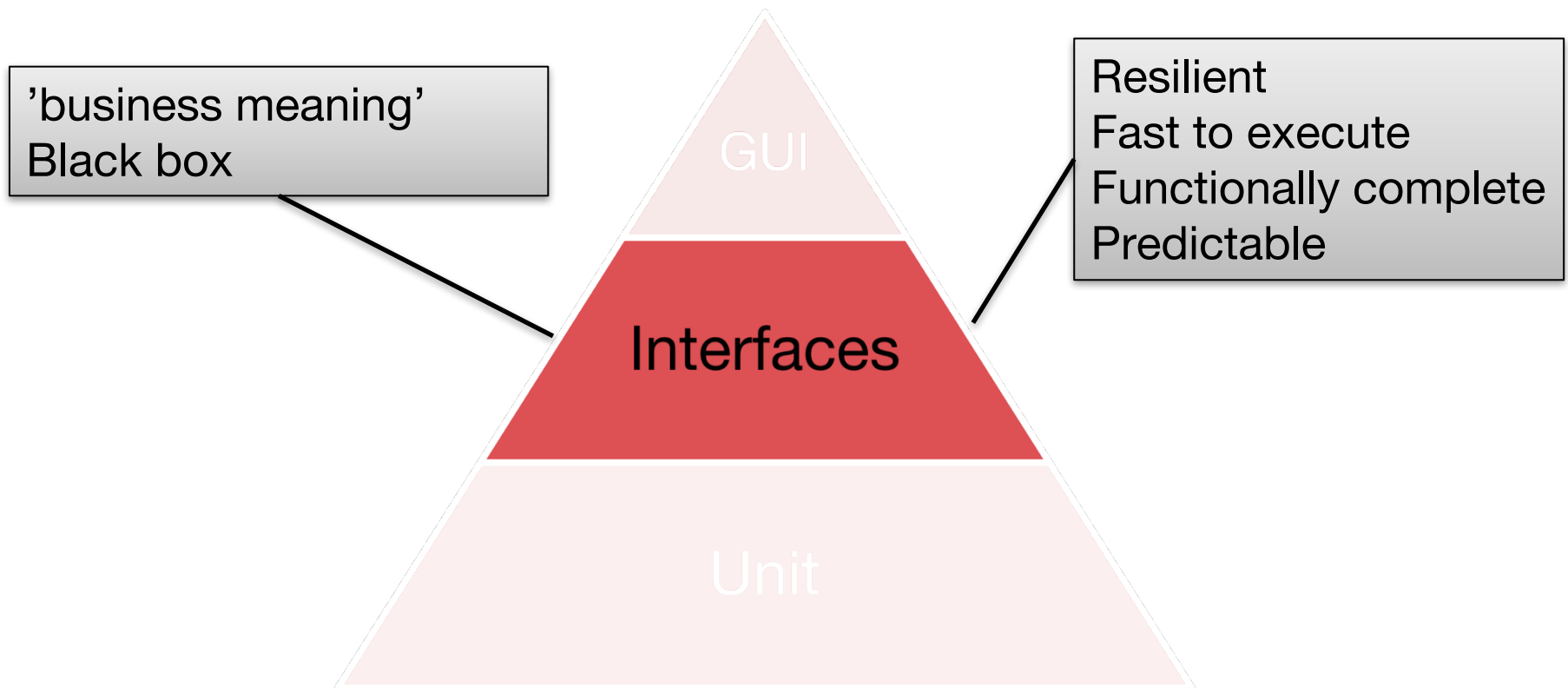
Agile Testing Pyramid – Two different world-views



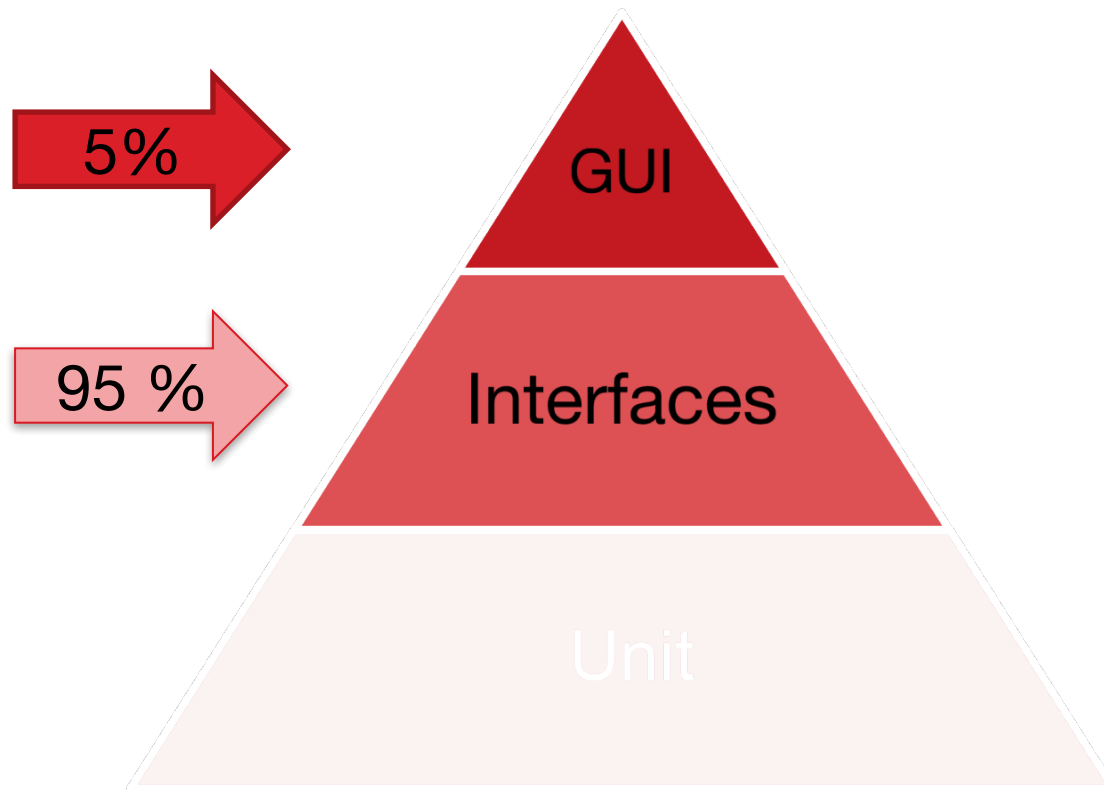
Agile Testing Pyramid – Problems



Agile Testing Pyramid – Win comes with at the API

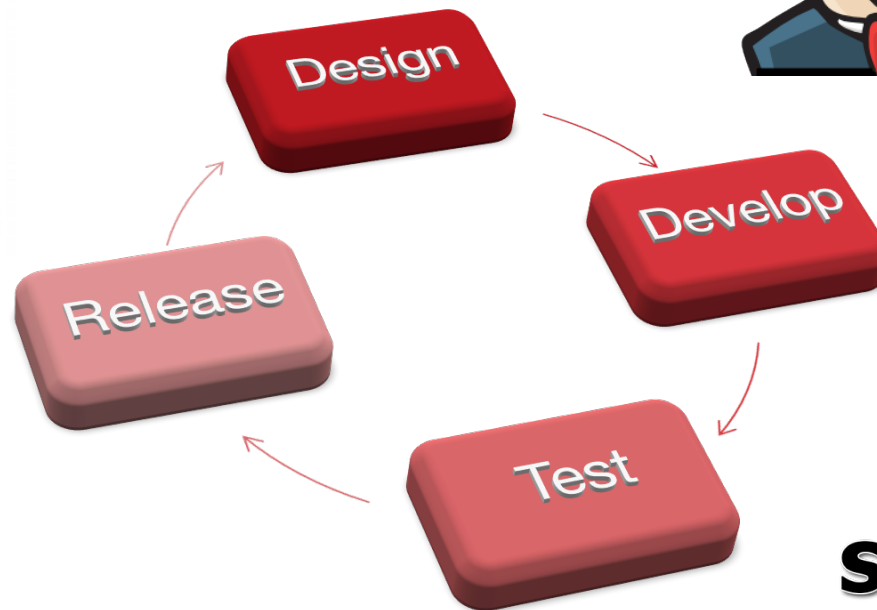


Okay... you still need 'some' GUI tests



#1 Focus on the **API** (but you still need the GUI)

Tightly bound to C.I. Tools



sonarqube 

#2 - Continuous Testing

Communication - From Verification to Feedback



#3 - Feedback

Zero Tolerance for failures

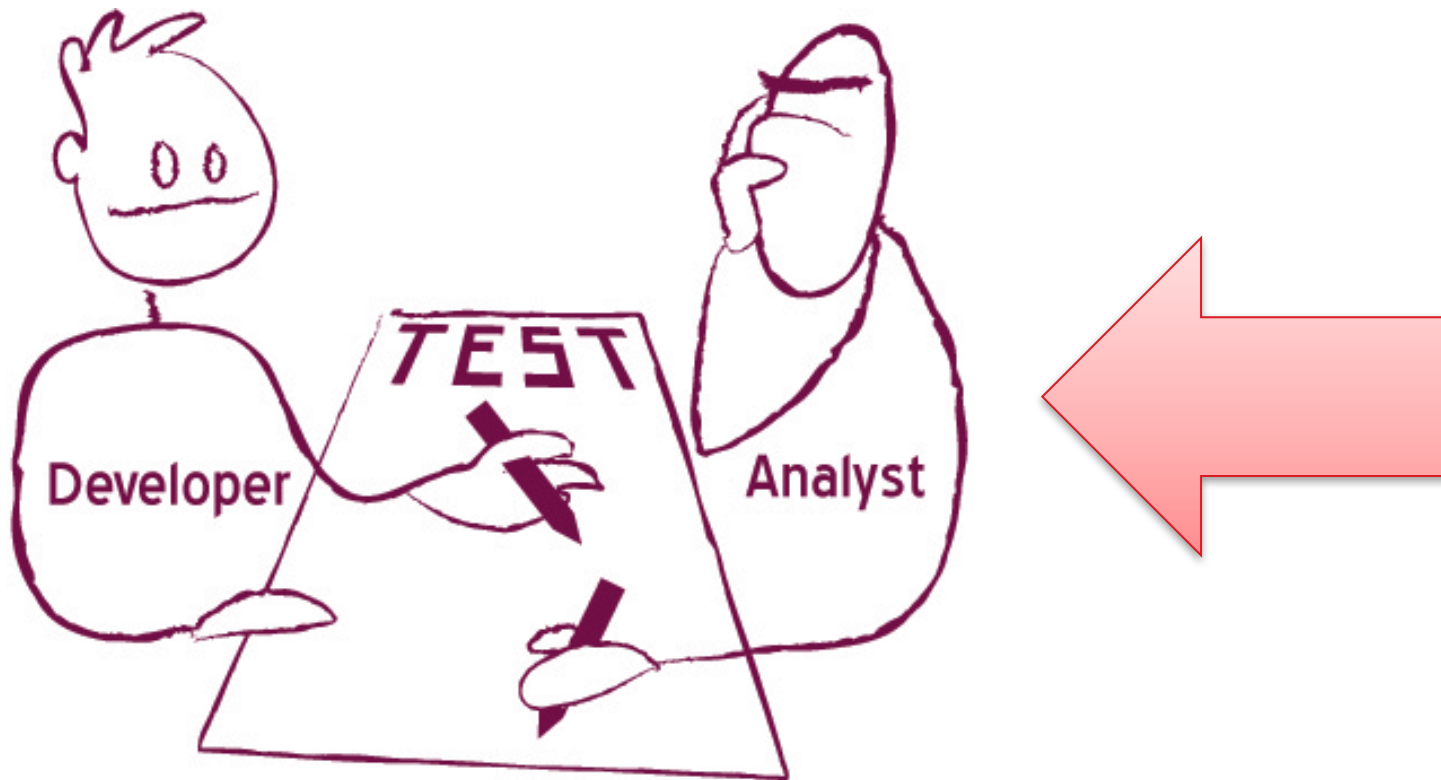
#4 - Quarantine

Access to the whole system



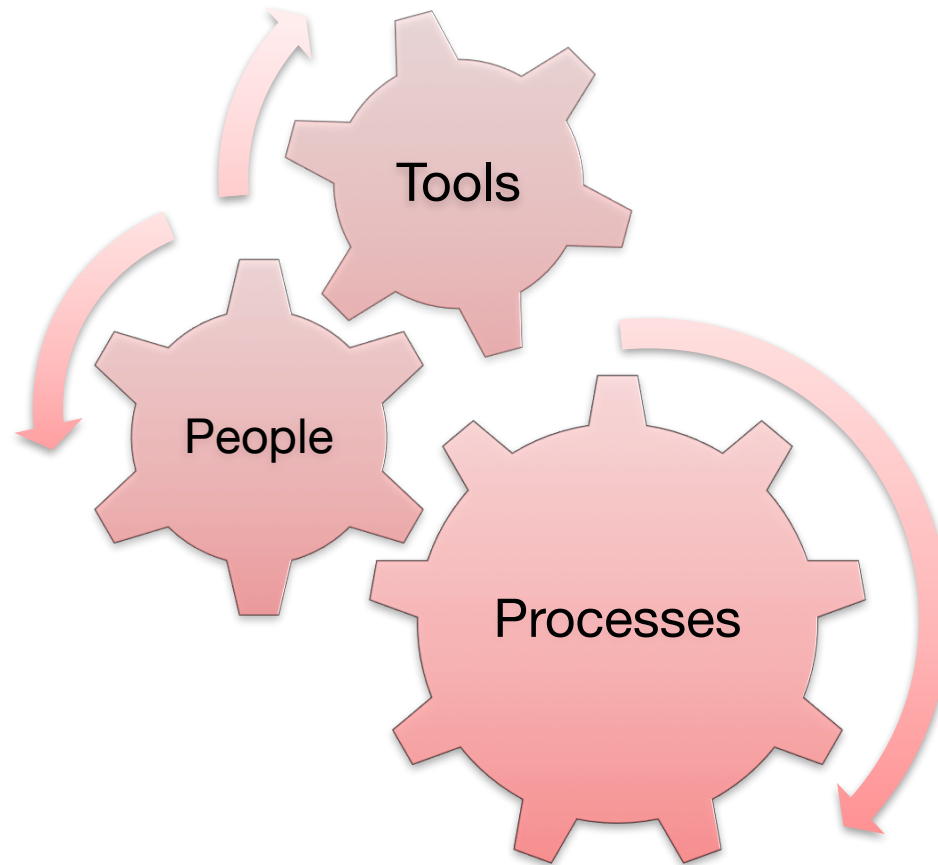
#6 - Full stack analysis

Development **starts with the tests** and it integrates the entire process



#7 - Push to the Left

More than just a tool... its a fully integrated **solution**



#8 - Set, Implement, Enforce Processes

A Checklist...

Core -ilities



Agile Test Characteristics

Focus on the API

Continuous Testing

Feedback

Quarantine

Multi Purpose

Full Stack Analysis

Push to the left

Set, Implement, Enforce Processes

A Better Checklist...

MR(s) T



Maintainability
Reliability
Scalability
Traceability

F.A.C.E.T.I.M.E.

Full Stack Analysis
Focus on the **A**PI
Continuous Testing
Feedback
Quaran**T**ine
Set, Implement, Enforce Processes
Multi Purpose
Push to the **I**eft



TESTIFI **T**

Test everything, all the time!

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