



VERIFICATION & VALIDATION **DURING THE SOFTWARE** **DEVELOPMENT LIFE CYCLE**

PRESENTERS:

ROXANA ONAC

AGENDA

- INTRODUCTION
- QUALITY ASSURANCE & QUALITY CONTROL (QA & QC)
- QUALITY MANAGEMENT SYSTEMS (QMS)
- CONTINUOUS IMPROVEMENT (CI)
- REQUIREMENTS/ DESIGN
- TEST PLANNING
- TEST DESIGN
- TEST EXECUTION
- TEST REPORTING

WHAT DO YOU KNOW ABOUT ENDAVA?

WE DELIVER GLOBAL TRANSFORMATION



OFFICES

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COPENHAGEN

UNIVATE, Njalsgade 76

DENVER

2420 17th St.

FRANKFURT

Eschersheimer Landstraße 14





PHILOSOPHY

OUR PHILOSOPHY IS SIMPLE

"We focus on helping people succeed. The people who work for us, the people who engage with us, and the people who use the systems and applications we design, build, and operate."

JOHN COTTERELL, CHIEF EXECUTIVE, ENDAVA





BE MORE

we're prodigies and hard workers, peace lovers and fighters,
we're designers and project managers, automation testers and architects,
we're leaders and rebels, skaters and bikers,
but above all, we are people who believe they can be more

[See Videos >](#)



OUR AREA OF EXPERTISE



QA & QC

QUALITY **ASSURANCE** AND QUALITY **CONTROL**

WHAT IS THE **DIFFERENCE?**

QA & QC



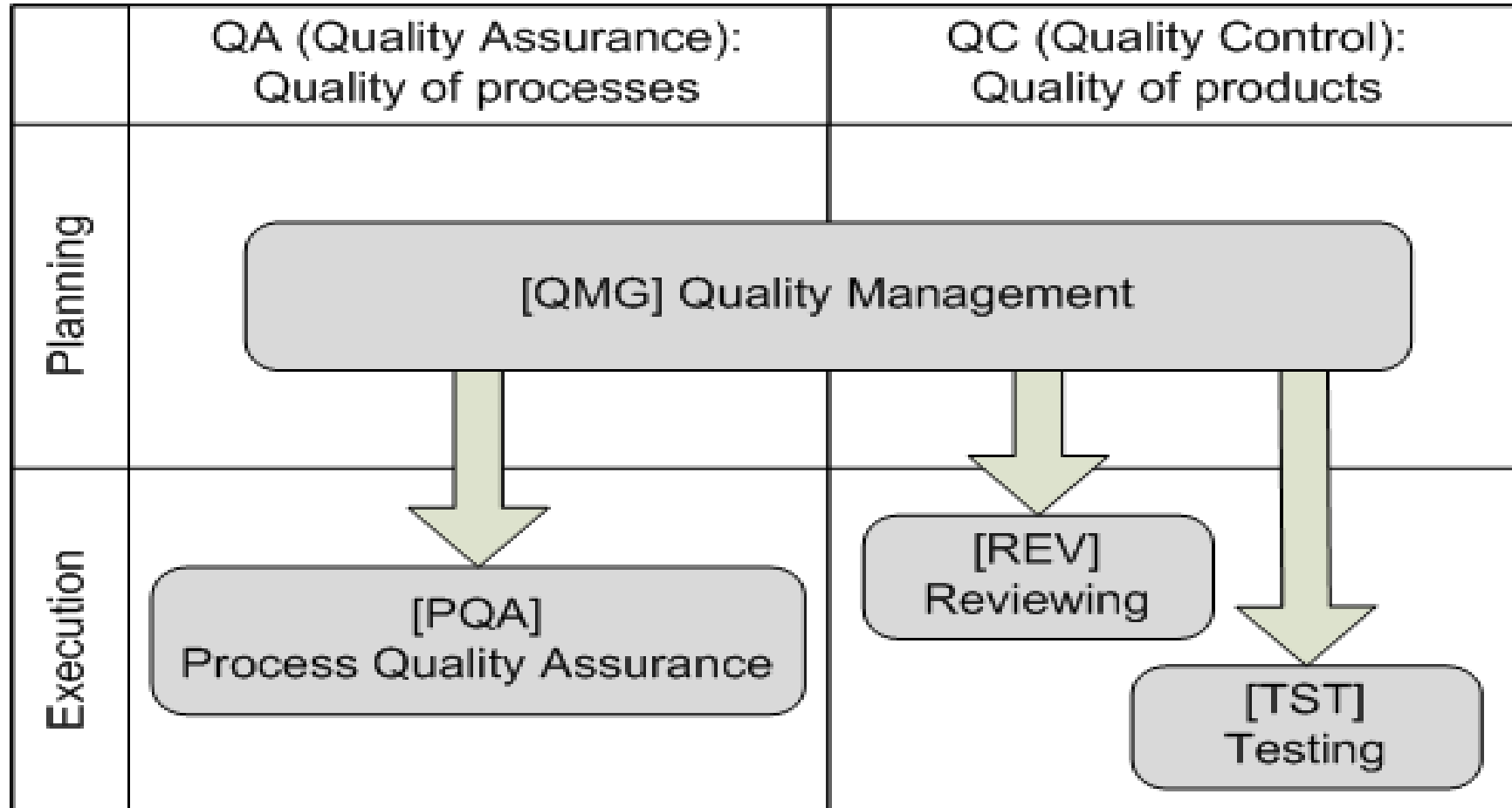
QMS

**A QUALITY MANAGEMENT SYSTEM (QMS)
IS A SET OF **POLICIES, PROCESSES** AND **PROCEDURES**
REQUIRED FOR **PLANNING** AND **EXECUTION**
(PRODUCTION/DEVELOPMENT/SERVICE) IN THE CORE
BUSINESS AREA OF AN **ORGANIZATION****

QMS



QMS



MEASURING QUALITY

- IF YOU CANNOT **DEFINE** IT, YOU CANNOT ACHIEVE IT

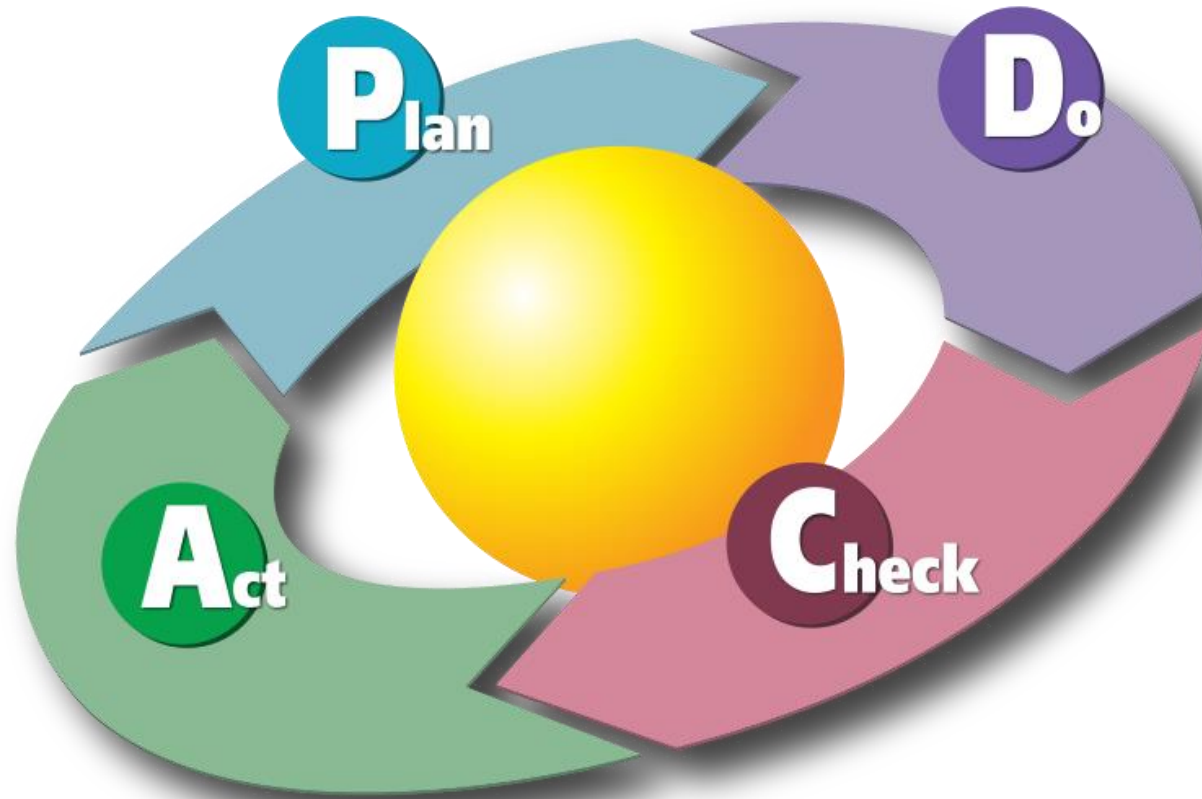
- IF YOU CANNOT **MEASURE** IT

You do not know how you are progressing

You do not know when you have arrived

You cannot demonstrate it

CI



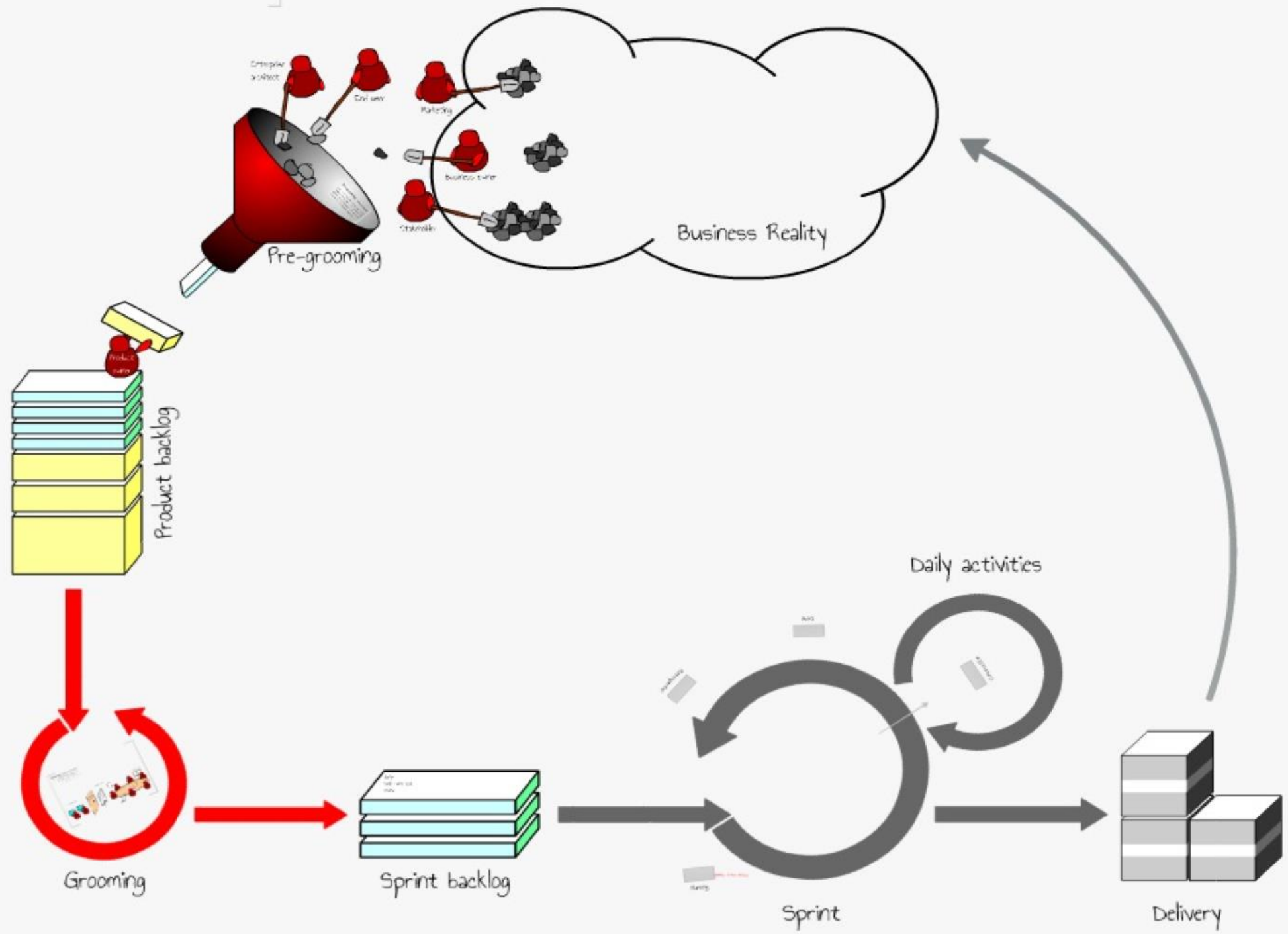
CI

■ MAIN DRIVER WAS THE VERY DIVERSIFIED WAY OF WORKING:

- Multiple technologies
- Multiple methodologies
- Various level of client control
- Locations
- Company growth, etc

■ MAIN GOAL IS TO ENSURE COMPANY-WIDE SPREAD OF

- Lessons learned
- Best practices
- Ensure a uniformed way-of-working between projects



SUMMARY

- QA & QC GIVE THE **BEST RESULTS** TAKEN TOGETHER
- **CUTTING CORNERS** IS NOT AN OPTION
- **DELIVERING QUALITY IS EVERYBODY'S JOB**
- YOU HAVE TO DEFINE **“WHAT IS QUALITY”** IN ORDER TO ACHIEVE IT
- **CONTINUOUS IMPROVEMENT**
- **QA PROCESSES** MUST BE PRESENT IN EACH STAGE OF THE **DEVELOPMENT LIFECYCLE**

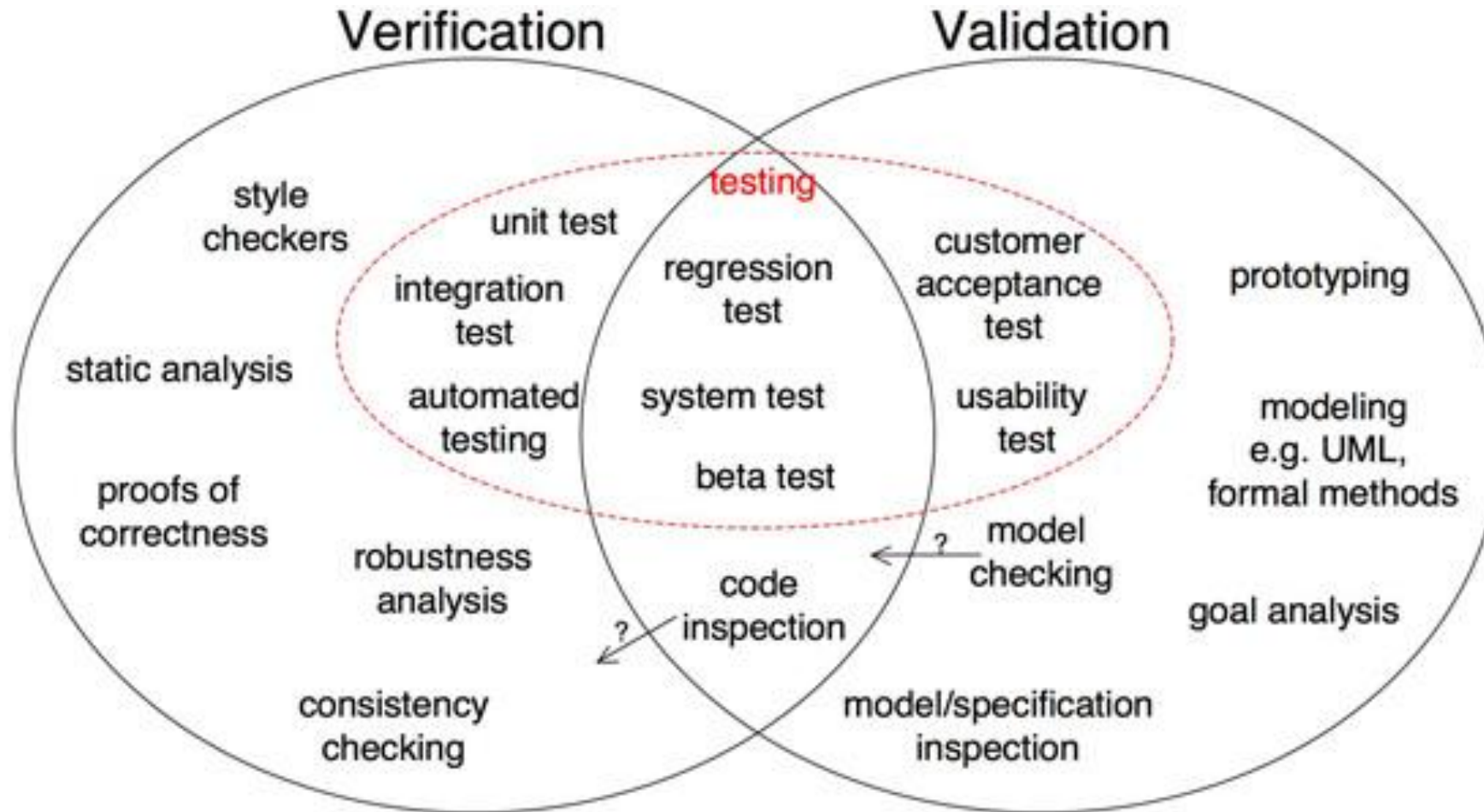
ASK QUESTIONS

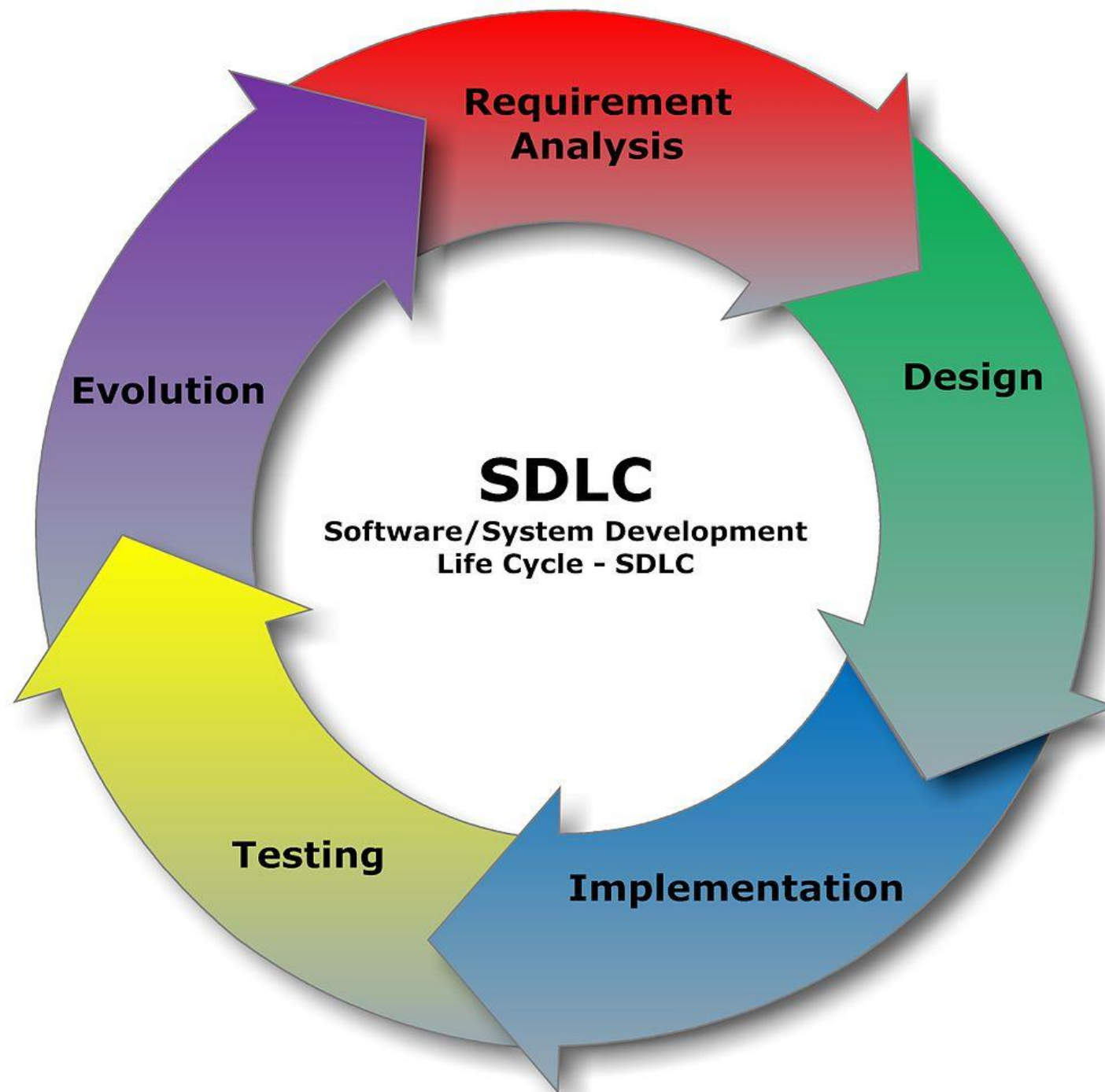


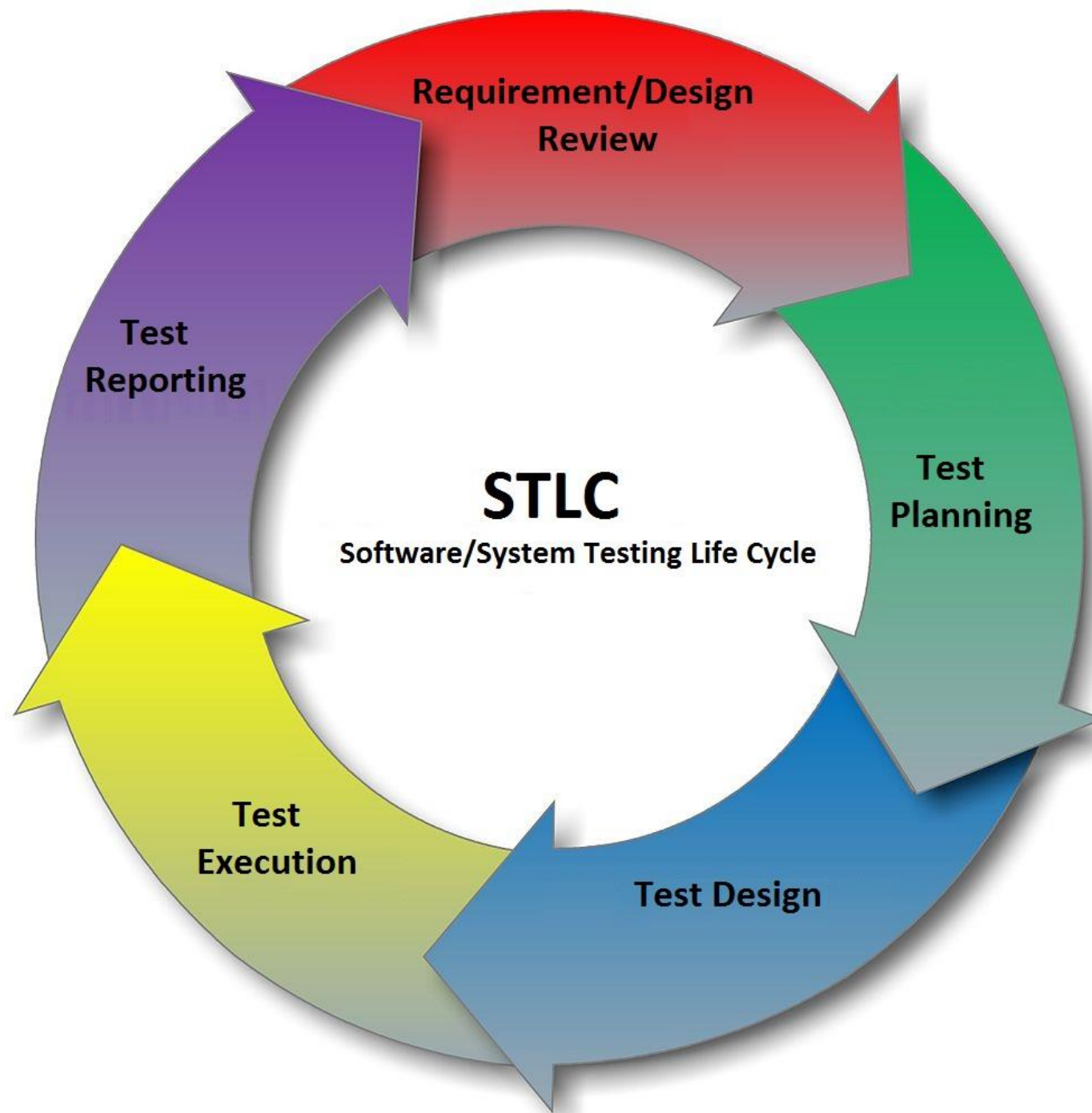
WHY IS SOFTWARE TESTING NECESSARY?

VERIFICATION & VALIDATION

.....



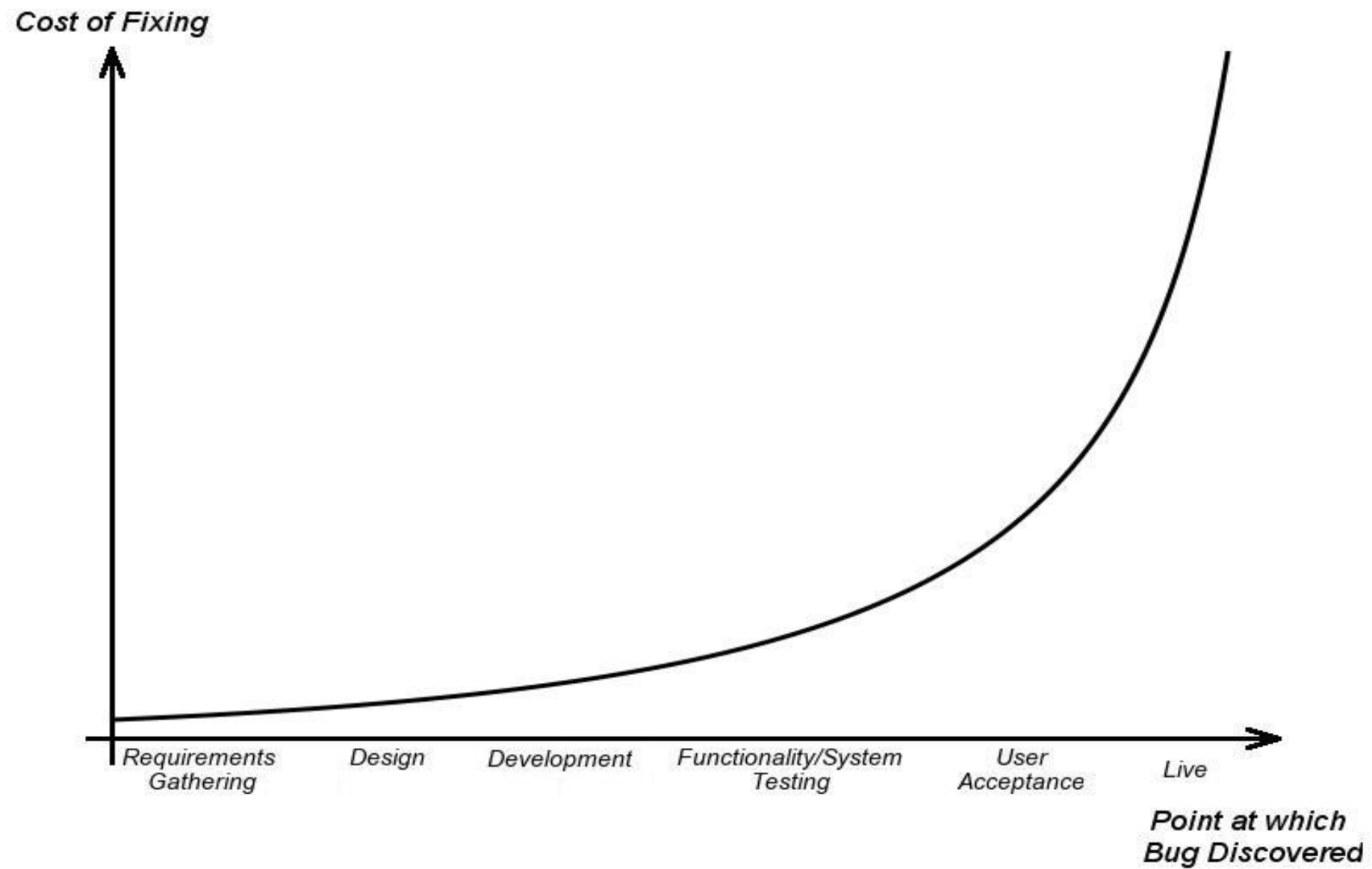


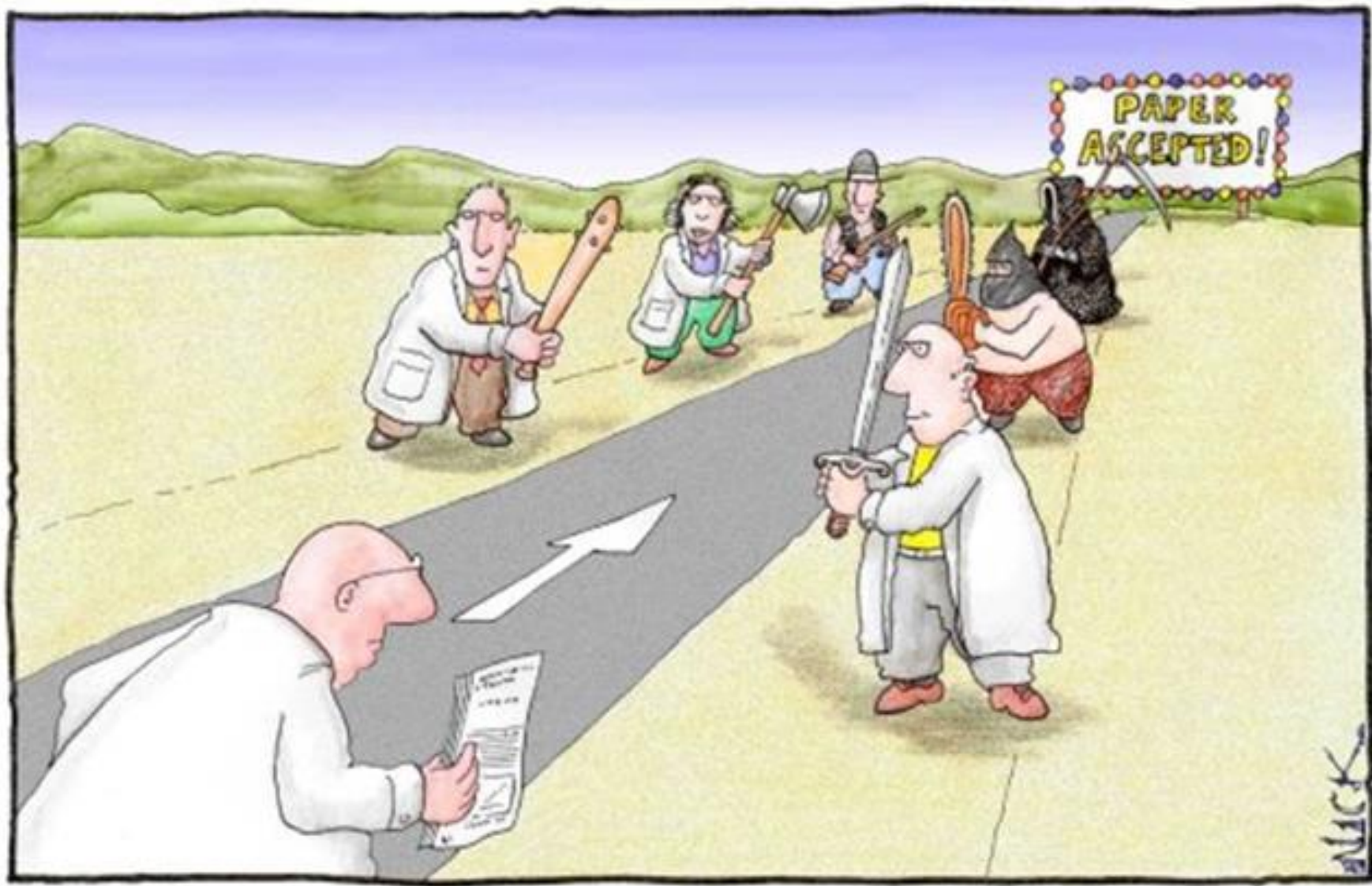


REQUIREMENTS/ DESIGN/ REVIEW

WE ARE FINDING A DEFECT IN REVIEW **9 TIMES FASTER** THAN IN TESTING.

WE ARE SOLVING A DEFECT FOUND IN REVIEW **5 TIMES FASTER** THAN A
DEFECT FOUND IN TESTING.





TEST PLANNING

TESTING TYPES

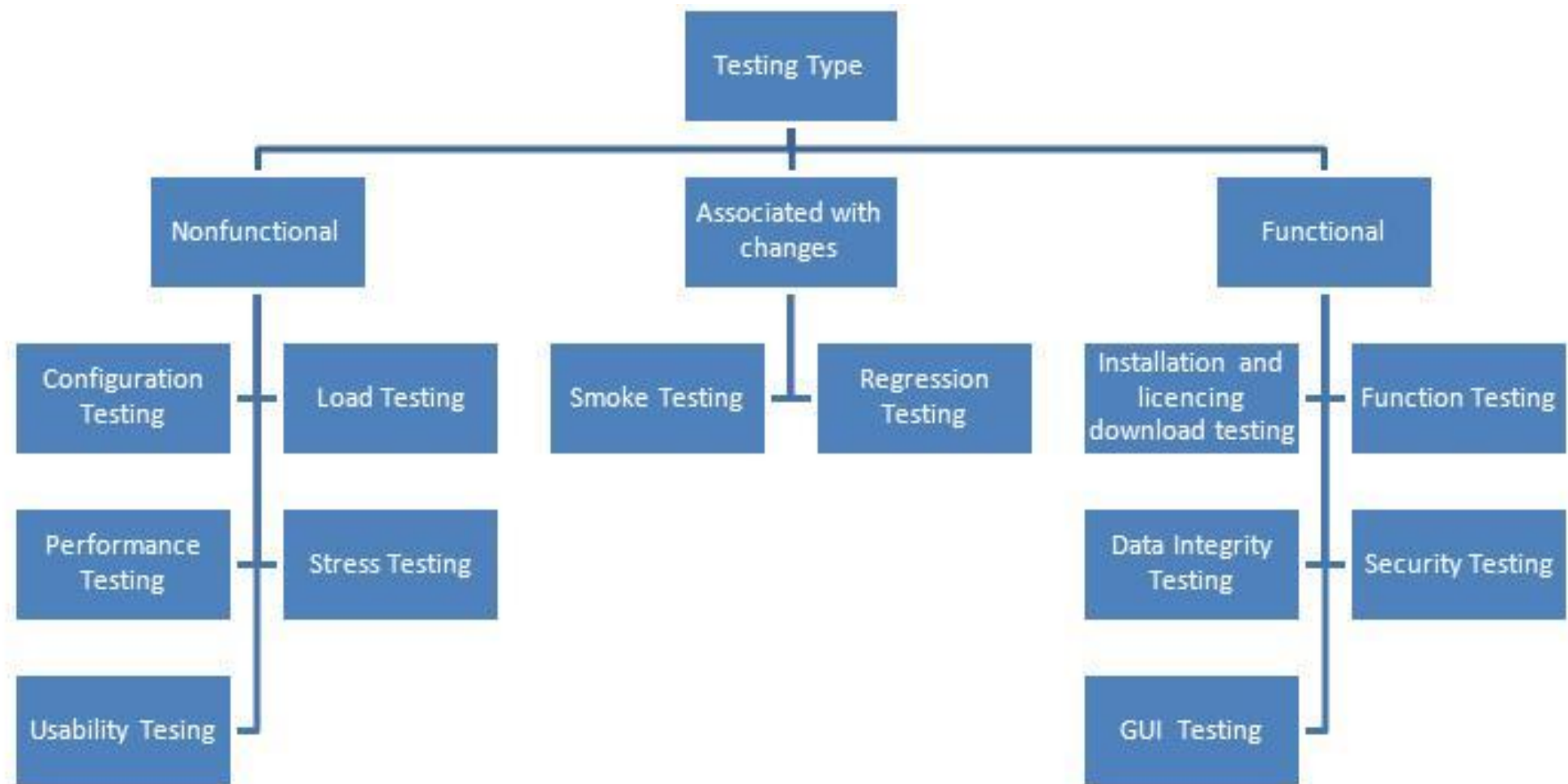
TESTING LEVELS

SCOPE

ACTIVITIES

DELIVERABLES

TESTING TYPES



TESTING LEVELS

		Unit tests	System tests	Integration tests	Acceptance tests
Responsible:		Endava	Endava	Endava	Client
Test types	Functional tests	•	•	•	•
	Functional: Security		•		
	Non-Funct: Usability		•		•
	Non-Funct: Load, stress & performance		•		
	Regression tests		•	•	

TEST DESIGN

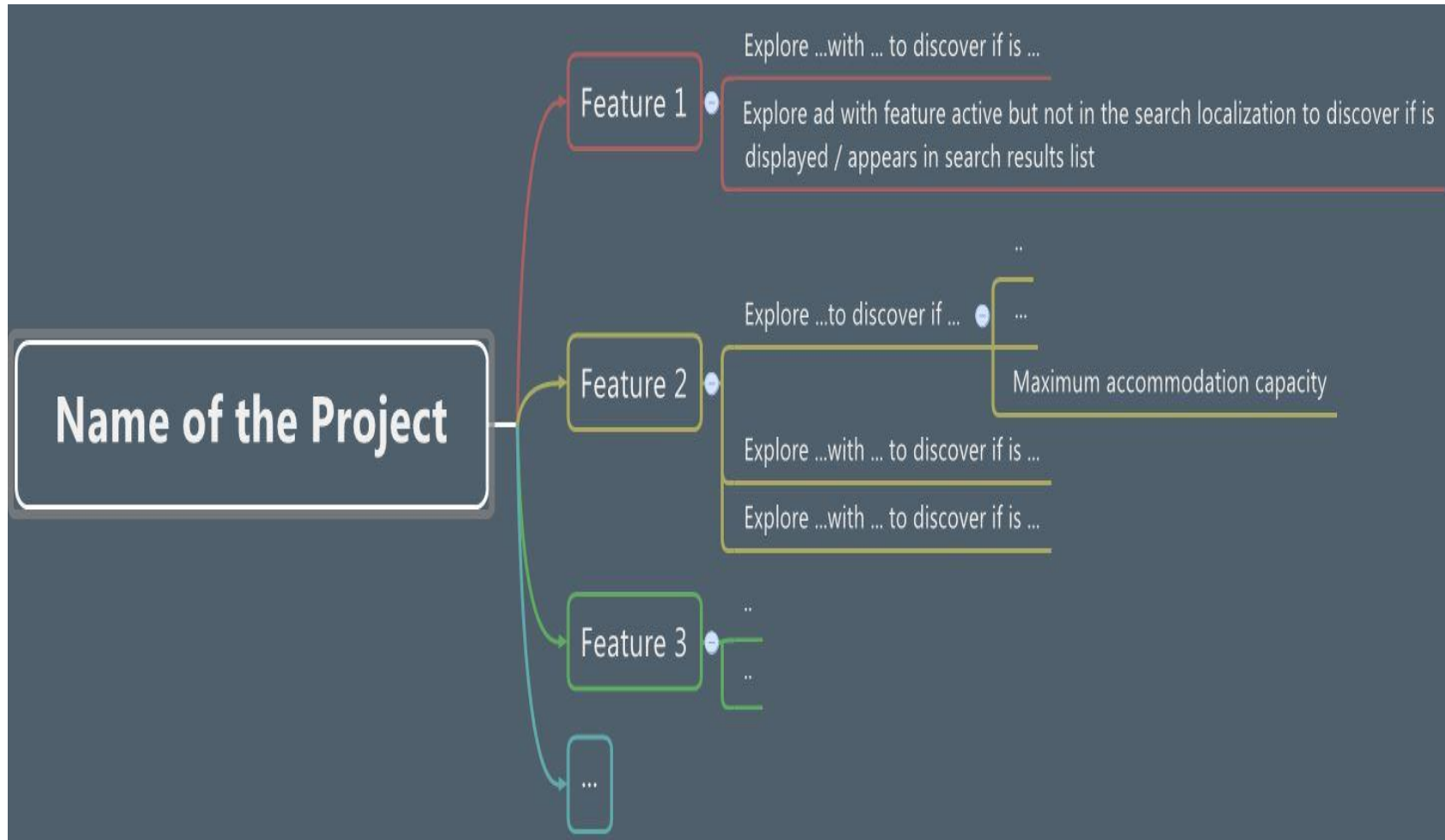
TOOLS

SCOPE

ACTIVITIES

DELIVERABLES

TEST SCENARIO



Version 1

Created on 13/09/2012 09:01:58 by florin.sibianu

Last modified on 10/01/2013 14:34:14 by florin.sibianu










Summary

Verify that user can't create a new organization setting the flags Trust Center false;Scoring center nothing checked ;Health Self Management false ;Initial Call false ; DefCoach=0 but i can save if it creates and then adds a new default coach (DefCoach=1).

This are the settings for Moove organization

Preconditions

Admin credential should be known before starting the test

 #	Step actions	Expected Results	Execution	
1	Login using the admin credential Click on Control Panel Under "Portal" section click on "User and Organizations" link Click on Add button and select "Regular organizations" (from the dropdown) Fill in Name and press Save	Admin home page should load Liferay control panel page should load "User and Organizations" page should load Add "New Organization" page should load New organization should be created (a message should be displayed: "Your request completed successfully "); custom field should appear under "Organization Information" page	Manual	 
2	Click on "Custom fields: under "Organization Information" section	Custom field page should load	Manual	 
3	Set the fields Trust Center to false; Scoring center nothing checked; Health Self Management false ; Initial Call false and then press Save (at this moment there is no default coach present on that organization)	An error should be shown a this configuration can't be saved	Manual	 
4	Under "Portal" section click on "User and Organizations" Click on the organization created before Add a new default coach for that organization	"User and Organization" page should load Organization page should load New default coach for that organization should be created	Manual	 
5	Click on Edit organization button and then on "Custom Fields"	Organization's custom field page should load	Manual	 
6	Set the fields Trust Center to false; Scoring center nothing checked; Health Self Management false ; Initial Call false and then press Save (at this moment there is a default coach present on that organization)	This configuration should be saved	Manual	 

Create step

Execution type : Manual

Test importance : High

Review Remarks:

Common Quality Attributes



TEST EXECUTION

TYPES AND LEVELS – START DOING

REGRESSION TESTING

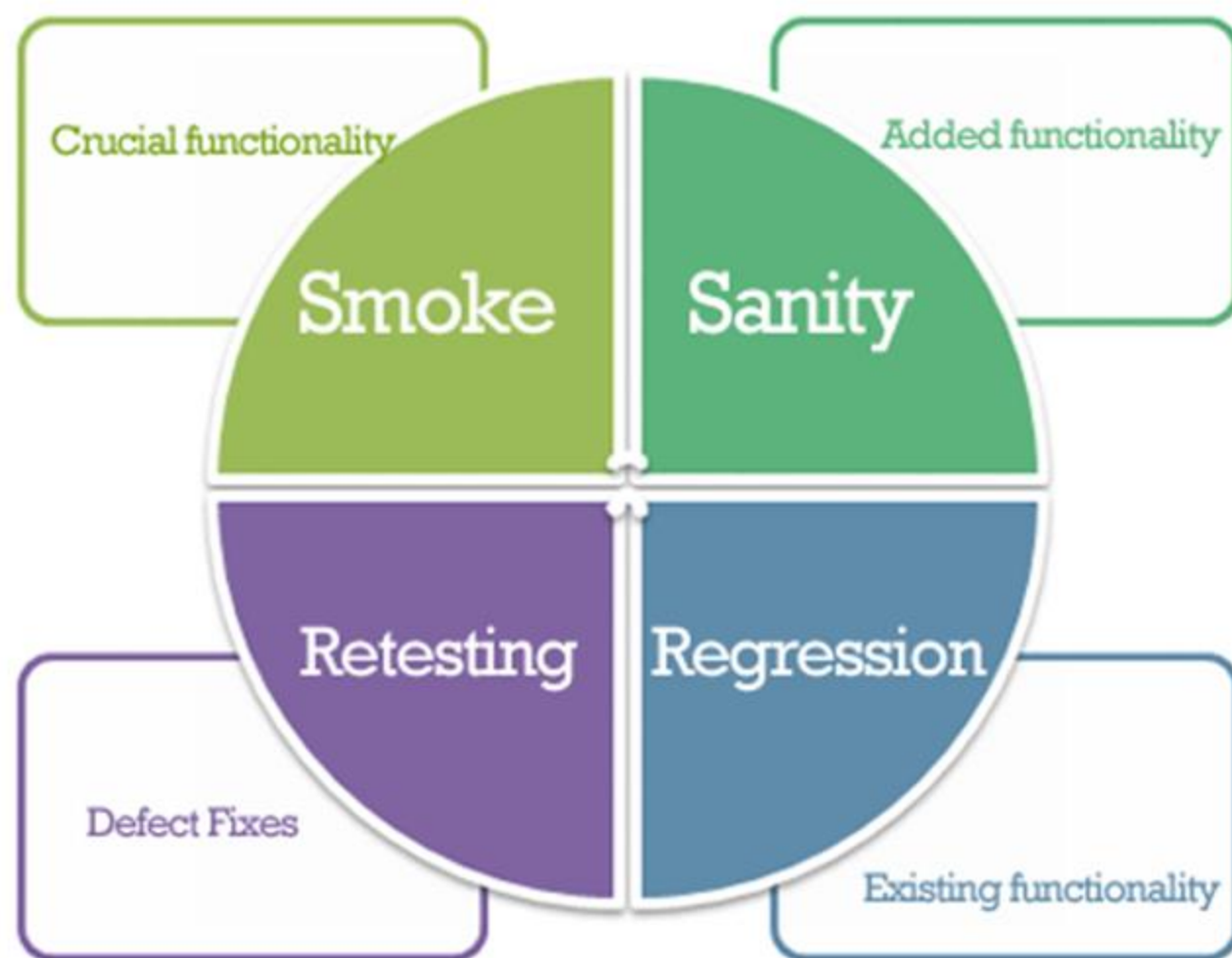
SMOKE TESTING

SANITY TESTING

SCOPE

ACTIVITIES

DELIVERABLES



Regression:
"when you fix one bug, you
introduce several newer bugs."



TEST REPORTING

ISSUE REPORTING – WHERE, HOW ?

TESTING ARTIFACTS / DELIVERABLES

SCOPE
ACTIVITIES
DELIVERABLES

ACTIVITIES

DEFECT REPORTING
MEASUREMENTS
TEST REPORTS

**DEMONSTRATE THE ADDED VALUE AND
THE QUALITY WE ARE DELIVERING
TO OUR CUSTOMERS,
BY MEASURING KEY INDICATORS
THAT DRIVE IMPROVEMENT AND INCREASE
CLIENT'S SATISFACTION**

EXAMPLES OF PROJECT'S METRICS

.....
Selected metrics should be **meaningful**, **useful** at different levels (team, management, client), **easy to collect**.

PRODUCTIVITY METRICS

Estimation deviation
Sprint predictability
Velocity
Backlog health
Waste
Effort / time analysis

QUALITY METRICS

Defects Detection Rate
Defects per product
CNC (% rework)
Cost of Quality
Unit Test Coverage
Code Complexity
Test automation

PRODUCT METRICS

Security
Performance

RESPONSIVENESS METRICS

Cycle time
Lead time

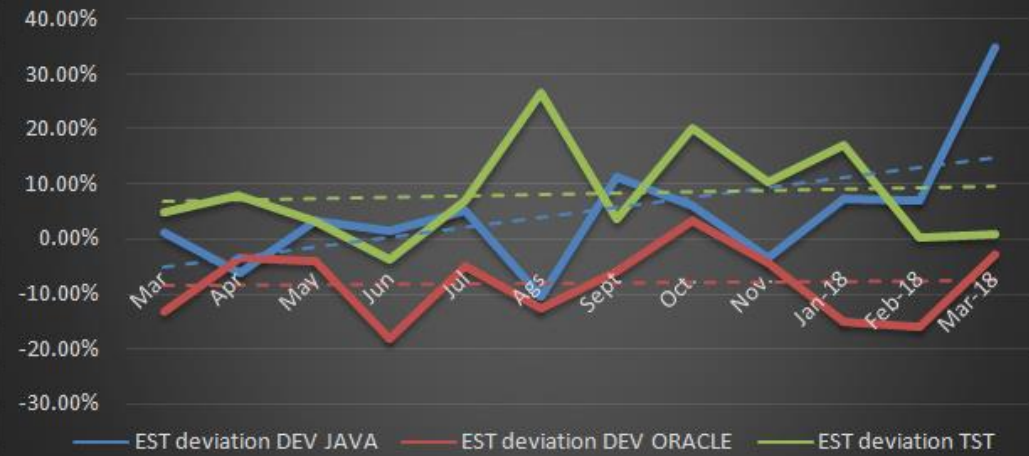
SATISFACTION METRICS

Team morale
PO satisfaction
Client satisfaction

Estimation deviation per month



EST. Deviation DEV (Java, Oracle) & TST



%Review from time on DEV



%Re-work from time on sprint



Average time on defects (hours)



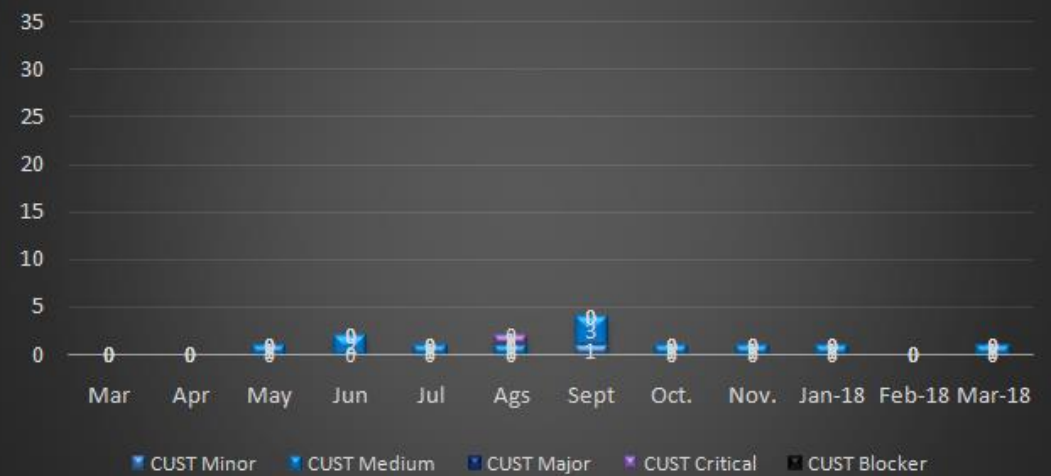
%Time w/o meetings



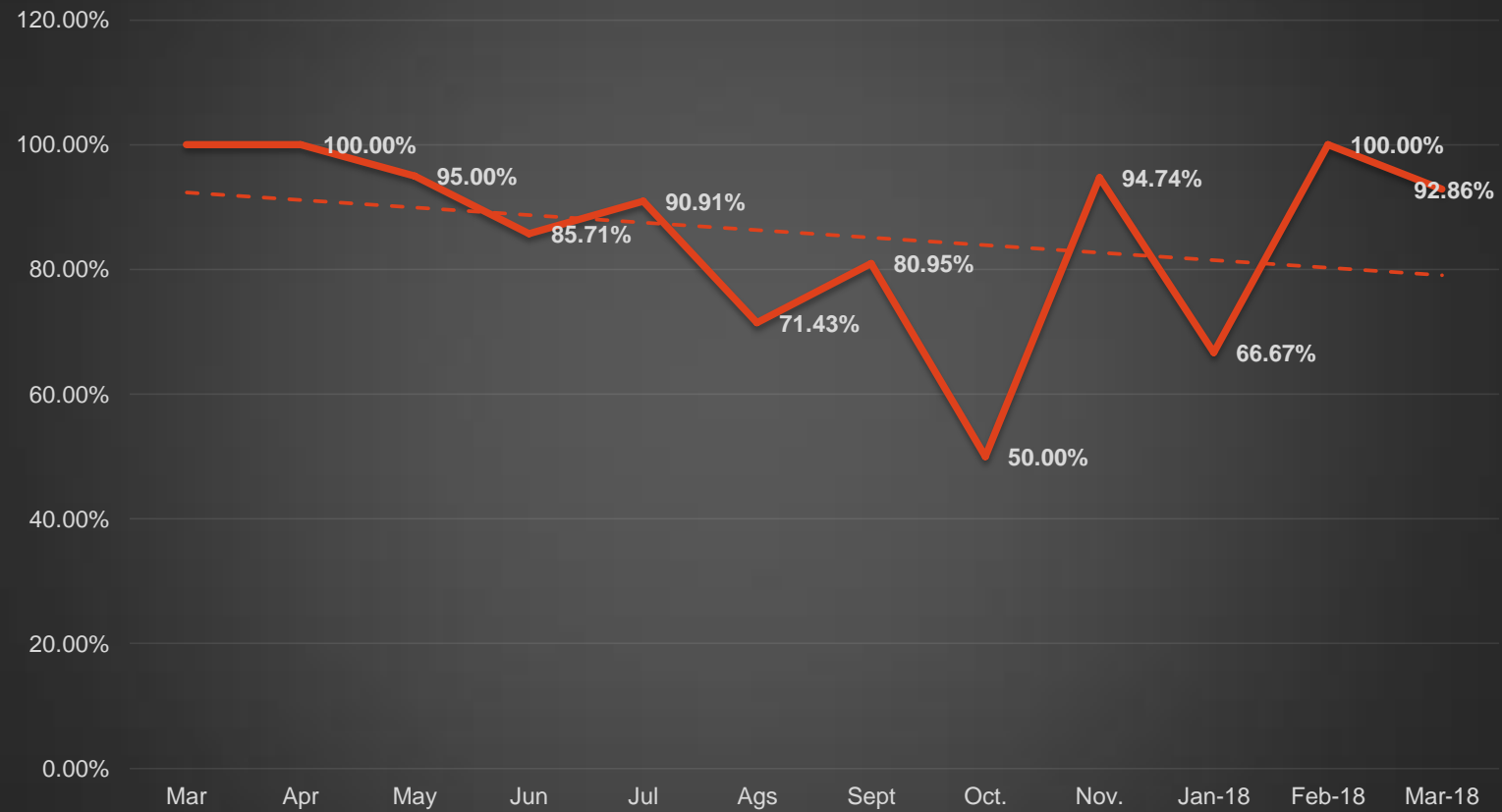
Defects by TST per severity



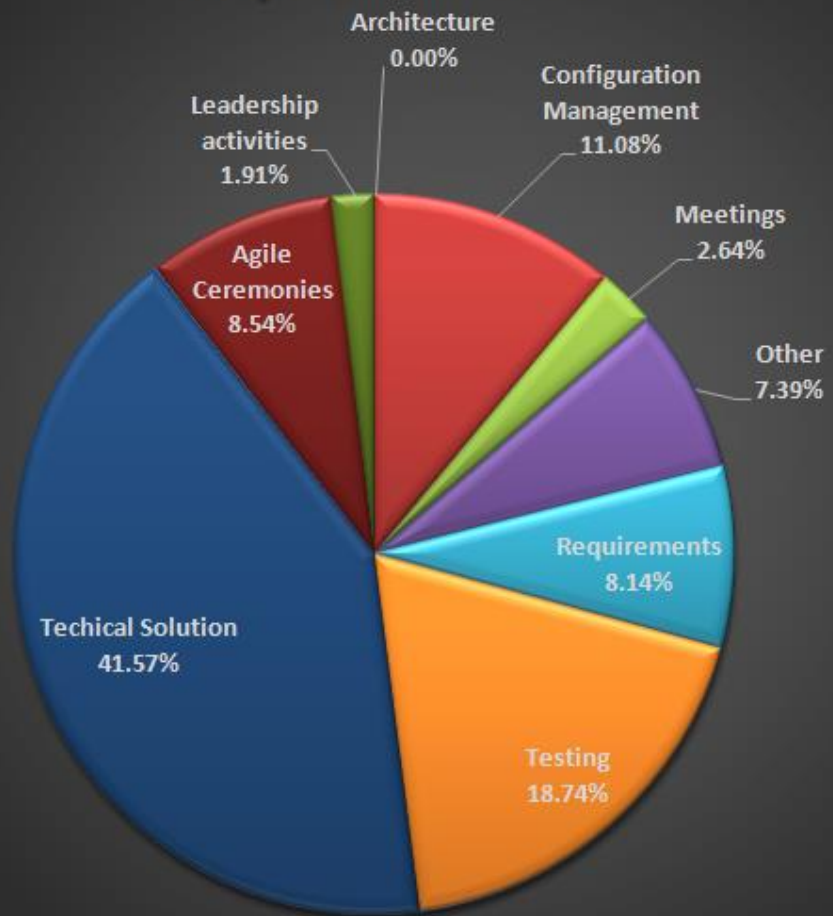
Defects found by client



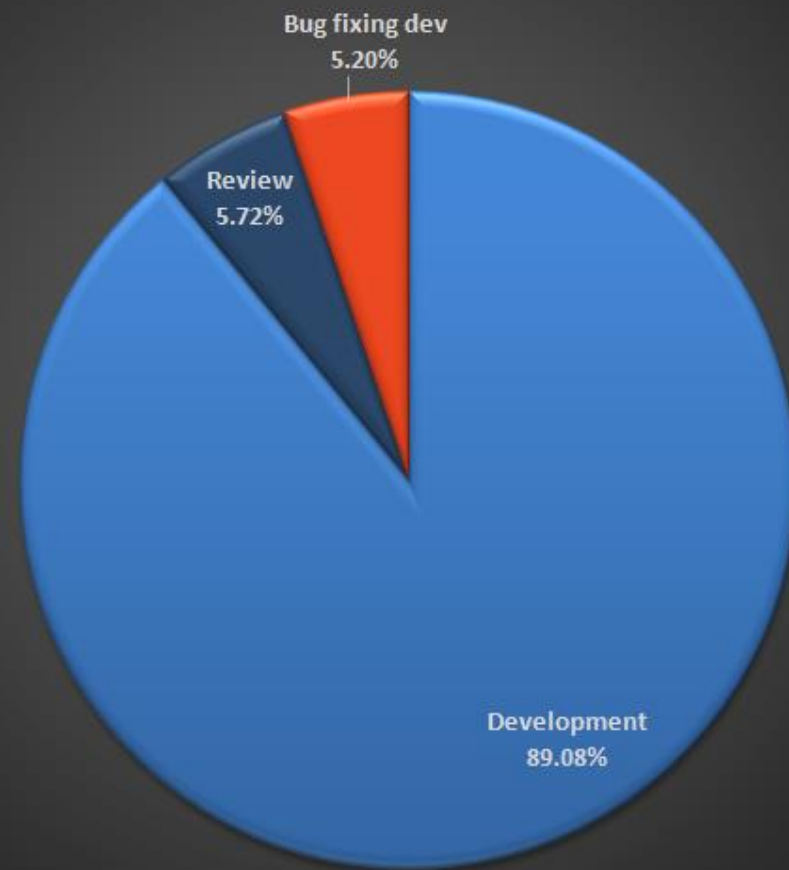
DDR TST vs. CUST



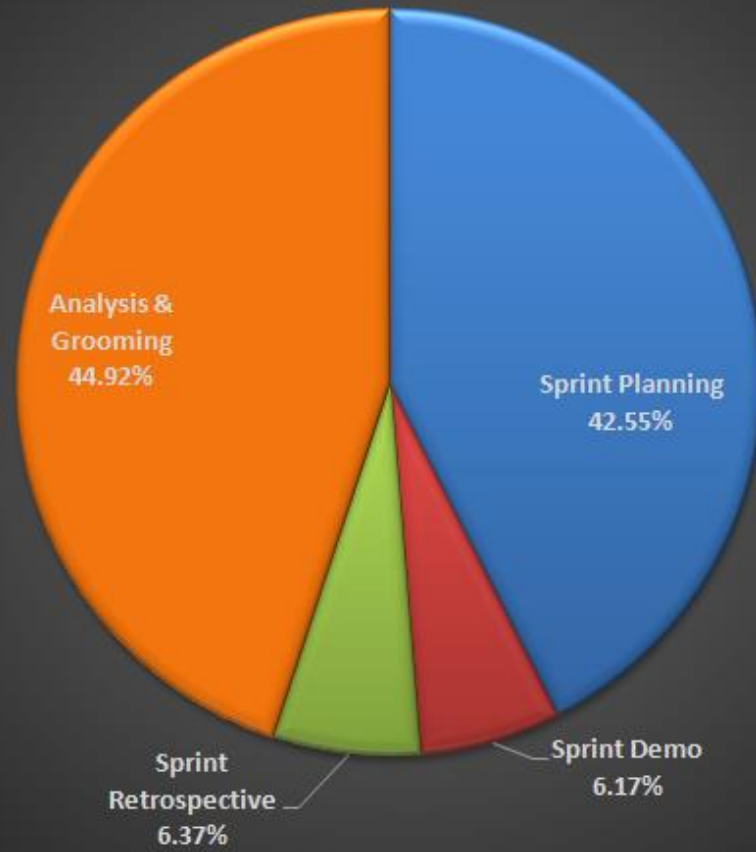
Project hours 2018



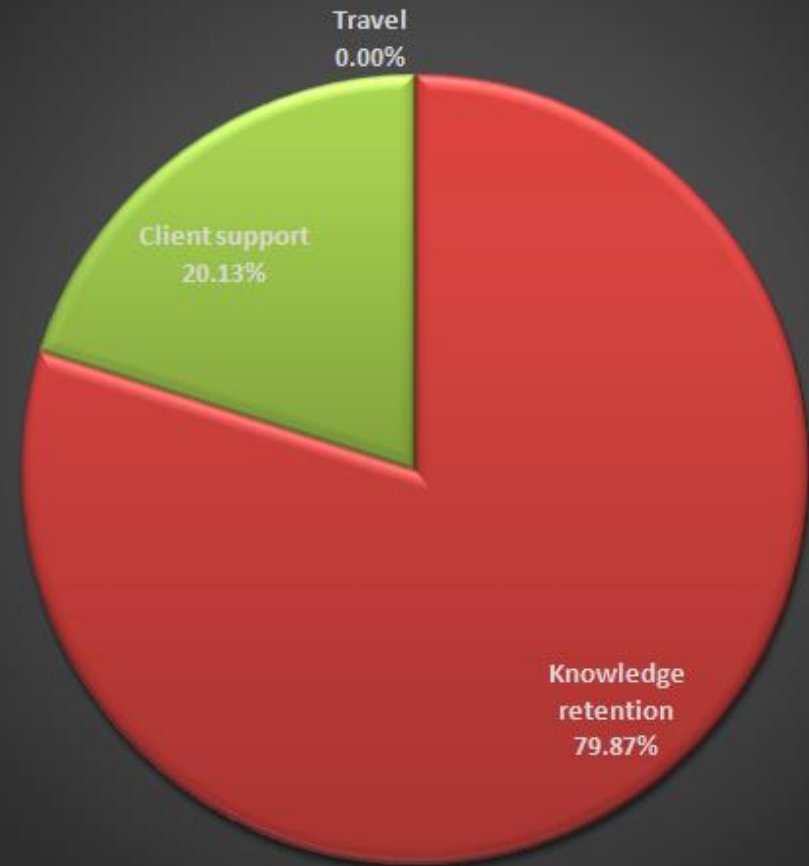
Technical Solution hours



Agile Ceremonies



Other activities



DELIVERABLES

TEST PLANS

TEST CASES / SCENARIOS

TEST SCRIPTS (AUTOMATION)

DEFECTS LOGS

TEST REPORTS

EXIT REPORT

RBTASLA-104

When the base currency is other than US or Euros(example Japan Yen), the values does not change after changing the base currency to Euros

Edit Comment Assign More Closed -> Open

Details

Type: Bug Status: CLOSED
Priority: Blocker Resolution: Cannot Reproduce
Affects Version/s: None Fix Version/s: None
Component/s: None
Labels: None
Source System: NA
Incident ID:
Steps to Reproduce: Find out a client whose base currency is other than USD or Euros.
Now change the base currency of this client through MDM to USD and observe the value on the CR UI
Actual Result: The value remained same but the text changed for JPY to USD(see the attached screenshot)
Expected Result: Would expect the value to change depending on the currency selected

Description

When the base currency is different than Euros and USD, the mtm value does not change after the base currency changes. Please see the screenshot

Attachments

Drop files to attach, or [browse](#).



3976_560_JPY.PNG

07-Oct-14Y 12:27 PM 53 kB



3976_560_USD.PNG

07-Oct-14Y 12:28 PM 47 kB



MTM recalculation on PROD

10-Feb-15Y 12:08 PM 103 kB

People

Assignee: Christophe de Breuck (Inactive)
[Assign to me](#)
Reporter: Poonam Patil (Inactive)
Votes: Vote for this issue
Watchers: Start watching this issue

Dates

Created: 07-Oct-14Y 12:27 PM
Updated: 23-Feb-15Y 12:30 PM
Resolved: 18-Feb-15Y 3:08 PM

Time Tracking

Estimated: 0m
Remaining: 0m
Logged: 6h 15m
☒ Include sub-tasks

Development

[Create branch](#)

Agile

Completed Sprint: Sprint 10 ended 02-Mar-2015
[View on Board](#)

HipChat discussions

2 SUBJECT OF THIS TEST REPORT

1. Test Scope

- The present test report concerns Client Reporting release 5.7.0, delivered by Endava on 02.03.2017. The release's main scope is to deliver the changes regarding Tridion migration phase two, the email templates and the Configuration page in MDM. As some impact was on all applications, they will all be delivered: MDM, HPO CR, HPO widget, Loans ACBS widget, OG, EOY OG, OAG and mail jobs.
- Development and testing for this release was done with widgets and HPO CR installed with the theme version BlueLight theme 3.76.0.

2. Test Strategy

- The following tables include the user stories delivered, as well as the test approach and conditions (scenarios) covered within those stories.
- All testing was done manually except where otherwise specified.
- The main focus was on testing the integration of the new ContentManagement service with all the applications, fail and error handling were also in scope.
- Informations about how to run the jobs can be found in the documentation from the References table, section #2.

3 PROGRESS AND QUALITY REPORT

This part serves as the quality report of the released packages. Also, it is used for alignment on the areas covered by our testing team and . testing team.

3.1 PROGRESS OF THE TEST EXECUTION

HPO Client Reporting			
User Story/Bug	Test approach/conditions	Browser	Defects& comments
3244 MAINTAIN AND USE EMAIL SUBJECT AND CONTENT IN CLIENT REPORTING INSTEAD OF TRIDION	Tested the email sent from HPO CR: Disagree mail, approval mail sent at Reopen and approval mail sent at Close and Save new. Regression done on the Disclaimers	FF 51.0.1 Chrome	RABOCR-3959 RABOCR-3966 RABOCR-3969
3244	sendConfirmationMetadata service there was impact also on this service for the Confirmations. The email sent was the main focus of testing	NA	-

```

1 Feature: HPO Details - Check the upcoming maturities tables from MyOverview page
2
3 As an authorized Client Reporting client user, I want to be able to select a certain client I am authorized for and:
4 - see the when client's open transactions will mature
5 - check the upcoming maturities per product group
6 - check the upcoming settlements of the open trades, based on the period chosen (TBD)
7
8
9 @DONE
10 @HighPriority
11 Scenario Outline: The one where I have some upcoming ID transactions.
12 Then I should see the upcoming events for <product type>
13 |Client Id|Product Type|Expiration date|Transaction Summary|Rate|
14 |<client id>|<product type>|<expiration date>|<transaction summary>|<rate>|
15
16 Examples:
17 |client id|product type|expiration date|transaction summary|rate|
18 |300203933|Cross Currency Swap|14-jun-2018|EUR 124.500.000,00|35,00%|
19 |300203933|Forward Rate Agreement|23-jun-2018|EUR 124.500.000,00|35,00%|
20
21
22 @DONE
23 @HighPriority
24 Scenario Outline: The one where I have some upcoming FX transactions.
25 Then I should see the upcoming events for <product type>
26 |Client Id|Product Type|Expiration date|Transaction Summary|Rate|
27 |<client id>|<product type>|<expiration date>|<transaction summary>|<rate>|
28
29 Examples:
30 |client id|product type|expiration date|transaction summary|rate|
31 |300203933|FX Option|29-okt-2017|U koopt Put USD 10,55 / Call BRL 500,00|-30,500000|
32 |300203933|FX Option|29-okt-2017|U koopt Call BRL 500,00 / Put USD 20,77|-30,500000|
33
34
35 @DONE
36 @HighPriority
37 Scenario Outline: The one where I have some upcoming Com transactions.
38 Then I should see the upcoming events for <product type>
39 |Client Id|Product Type|Expiration date|Transaction Summary|Rate|
40 |<client id>|<product type>|<expiration date>|<transaction summary>|<rate>|
41
42 Examples:
43 |client id|product type|expiration date|transaction summary|rate|
44 |300203933|Commodity Option|26-okt-2017||USD 125,45|

```


ASK QUESTIONS



KAHOOT.IT

.THX

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