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COMPUWARE®



The Application Quality Dilemma

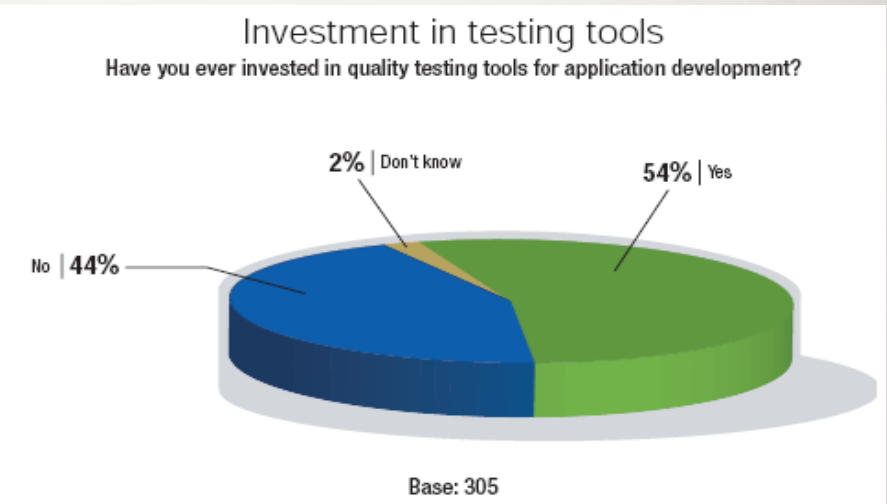
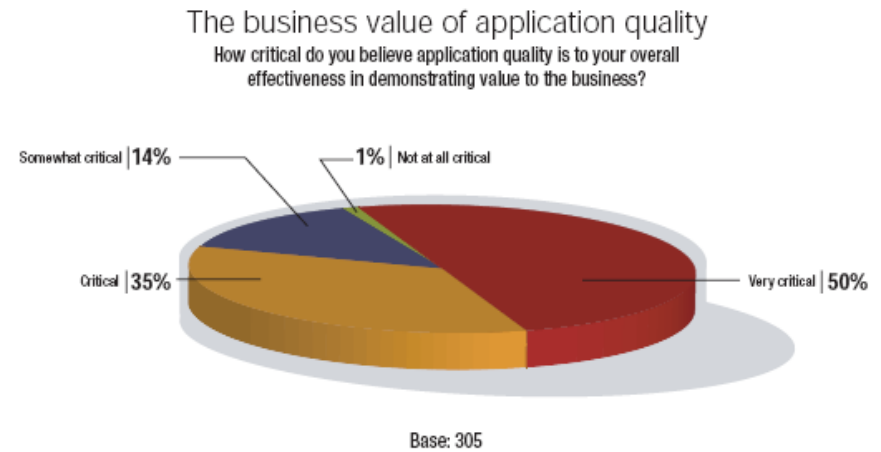
WHY TESTING ALONE DOESN'T GUARANTEE QUALITY

COMPUWARE®

Application Quality Dilemma

The Forrester Research

- 85% Consider Application Quality a Critical factor in IT effectiveness for demonstrating Business Value
- 54% of these folks have invested in Testing Tools as a mechanism to ensure a high-level of application quality
- Of those investing in testing tools (54%), less than 30% have seen a significant improvement in Application Quality (<16.2%)



Application Quality Dilemma

Cracking the Code

The Quality Dilemma

- Why is it that 70% of the companies that are using testing tools to address application quality are not reaching their desired outcomes?
- **More importantly, what are the characteristics of the 30% of companies that ARE achieving their quality goals ?**
 - *64% reported significant quality improvement*
 - *36% reported moderate quality improvement*

Application Quality Dilemma

Success Traits

- 30% did achieve high Quality. Why?
- Results pointed to:
 - Standard quality methodologies
 - Use of metric and measurement
 - Consistency of use and duration of methodology in use
 - Continuous improvement practices

Companies who have a defined quality methodology, and consistently use the methodology, experience higher quality than companies that do not.

It was found that metrics were a crucial piece to consistent use of a quality methodology.

Quality Management

The Bottom Line

1. Poor quality is not a testing problem, rather it is a behavioral problem
2. Organizations that want to improve quality must :
 - ✓ Apply relevant technology
 - ✓ Set measurable goals
 - ✓ Document a repeatable / measurable methodology
 - ✓ Track statistics and results against goals
 - ✓ Adjust behavior accordingly

2007 CIO's Challenge in Software Application Development

*The Challenge of the CIO is not a tools problem,
it is a strategy and process implementation Problem*

- **Strategy Management:** Alignment to business needs
- **Impact Management:** Impact of non-compliance
- **Deployment Confidence:** Communicate in business terms
- **Application Reliability:** Assess Impacts in terms of business functions
- **Optimization of Core Processes:** Project asset management and re-use
- **Measurement & Analysis:** Real-time visibility into application quality
- **Quality Awareness:** Creating organizational awareness around the importance of quality and its value proposition to the business
- **Project Control:** Managing risk, cost and time in application development and delivery
- **Productivity:** More, Faster, Better, with what you have

The Quality Challenge

The Cost of Correcting a Defect

- **The Problem**

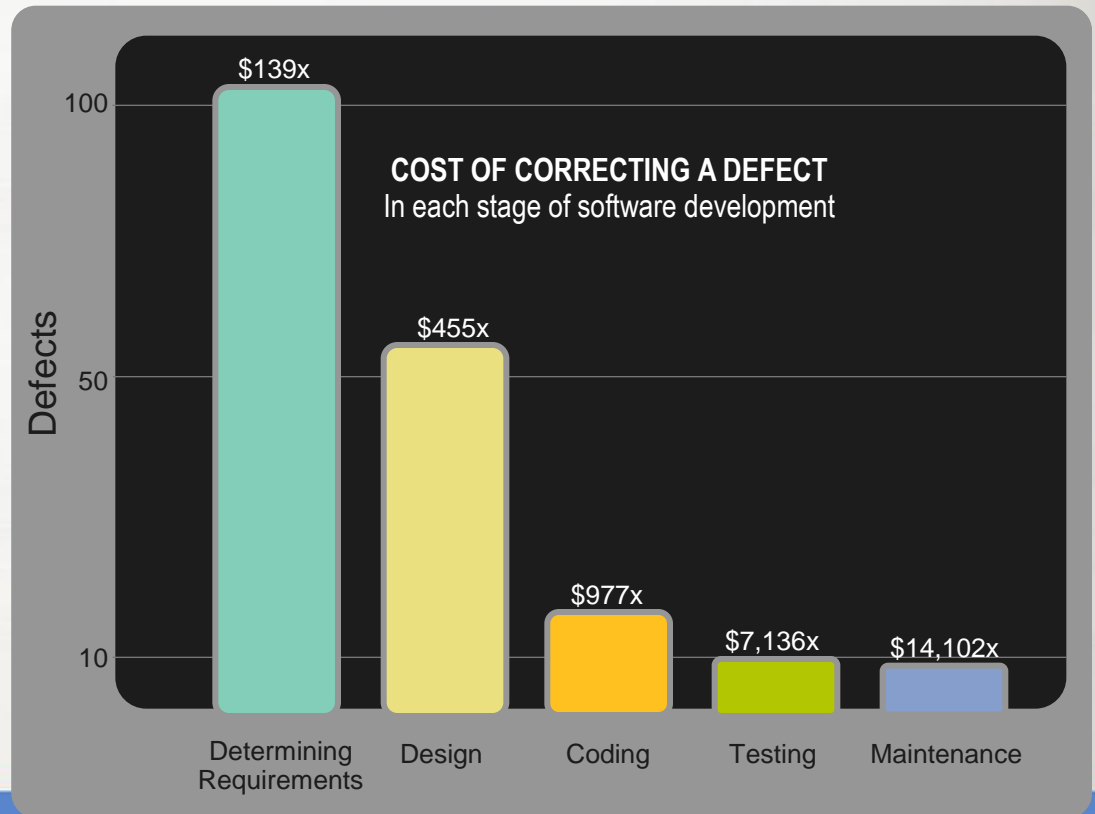
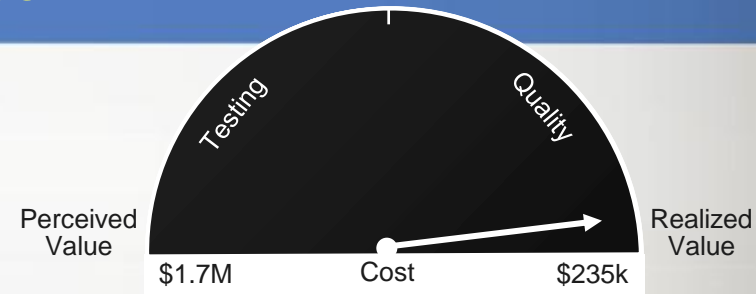
The later an application defect is found in the lifecycle, the more costly it is to resolve...

- **The Solution**

Identify and resolve defects as close to point of origin as possible through IT enabled process improvement.

- **The Outcome**

Deliver high quality application on time, in scope, and within budget that align with the business.



Quality Point Mapping to SDLC

Plan

Define

Construct

Test

Deploy

Test Strategy

Functional Requirements

KPA-1
Test Planning

Test Plans

Test Cases

KPA-2
Test Development

Test Results

KPA-4
Test Execution

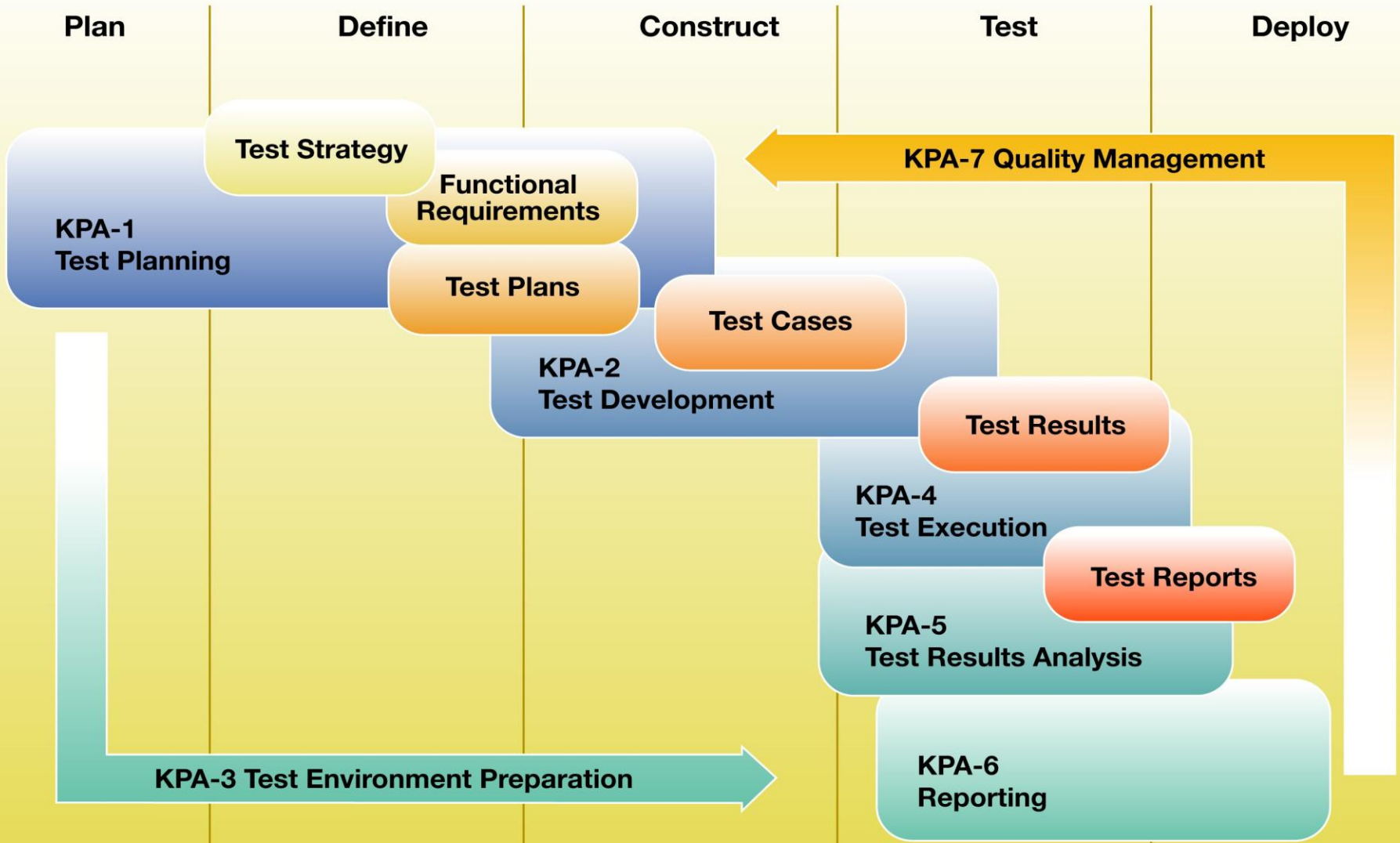
Test Reports

KPA-5
Test Results Analysis

KPA-6
Reporting

KPA-7 Quality Management

KPA-3 Test Environment Preparation



A Quality Framework: Driving Better Results

Compuware Quality Maturity Model™ (CQMM)

Quality Control
Finding Defects

Quality Assurance
Minimizing Defects

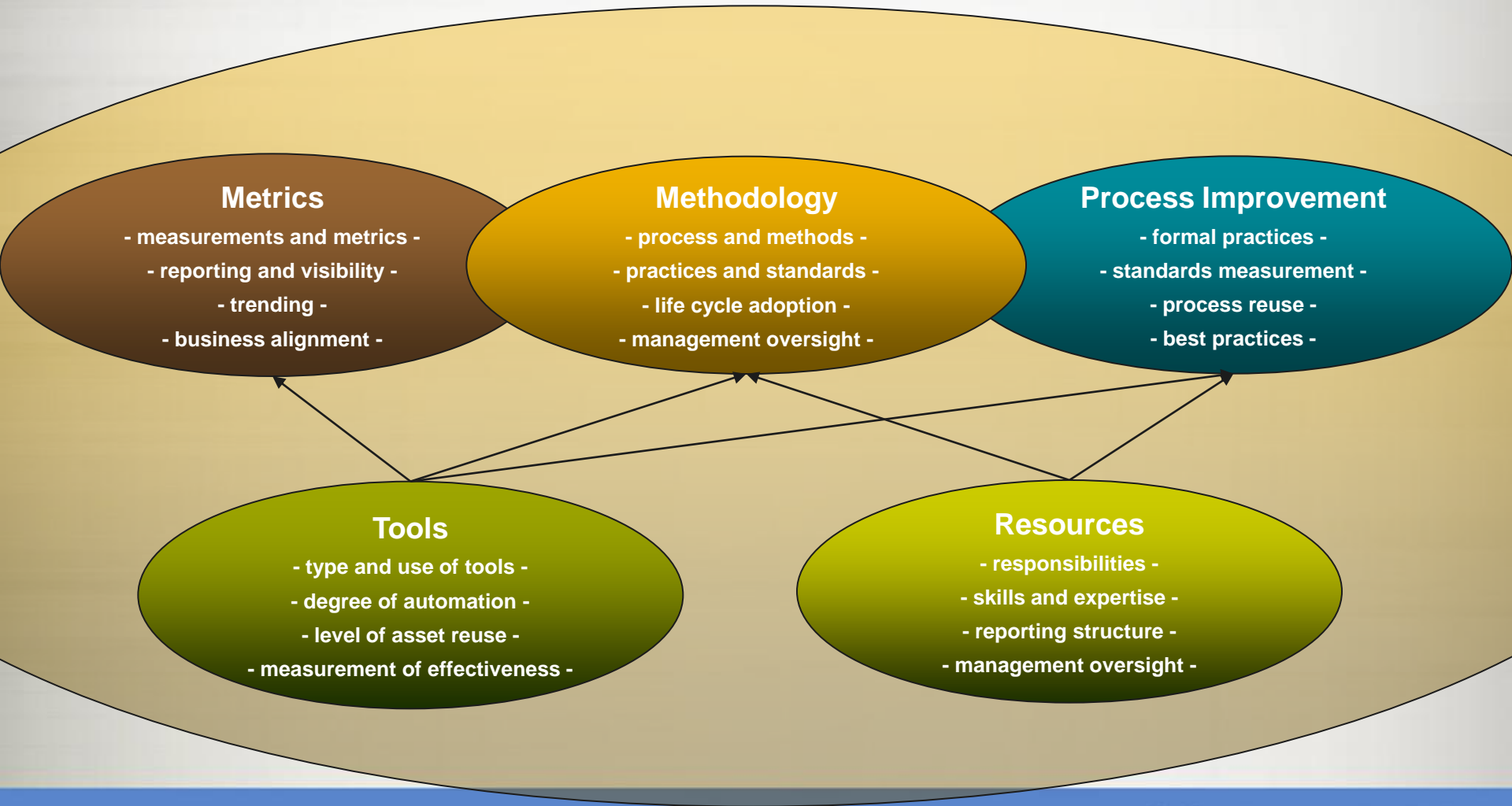
Quality Management
Balancing Risk and Cost

Quality Governance™
Maximizing Value



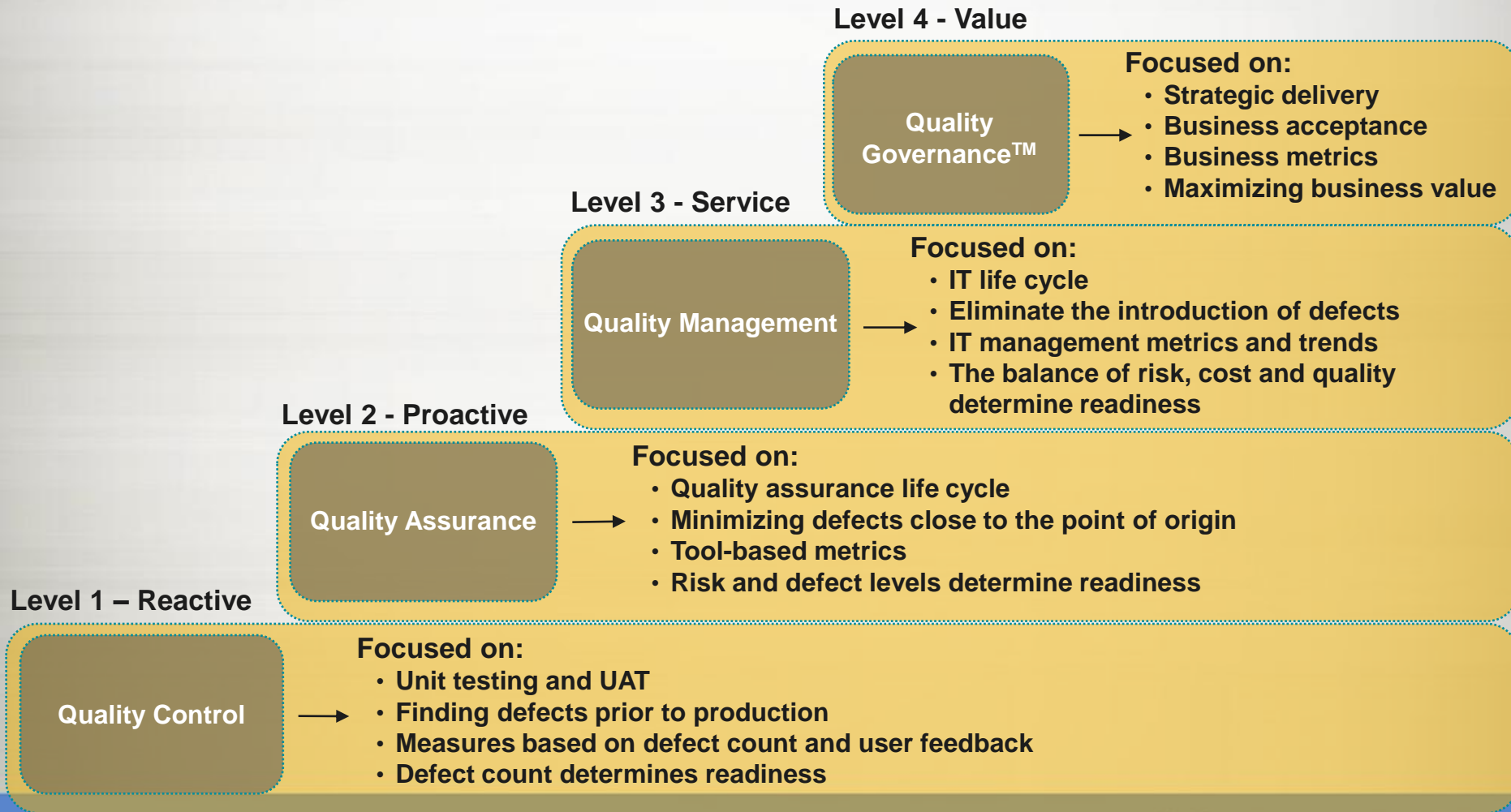
- **Compuware's Quality Framework:**
 - Focused on the driving better results – as measured by deploying high quality applications that provide a high value experience for the end user
 - Takes a phased, customer-focused approach to application quality maturity

Maturity Model: The Key Components



Compuware Quality Maturity Model™ (CQMM)

A Focus on Process Maturity

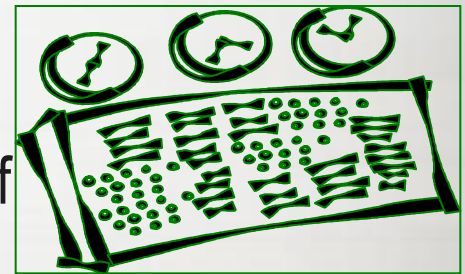


Quality Management

The Solution

Provide the technology infrastructure via a Centralized Quality Management Console (Portal)

- Process control and workflow management capabilities enabling an organization to establish repeatable and standardized processes
- Graphical Views of Key Performance Metrics including adherence to defined Quality Gates
- Detailed Reporting Views for examining details before taking action
- Multidimensional Data Views for identification of process improvement opportunities



Thank You

