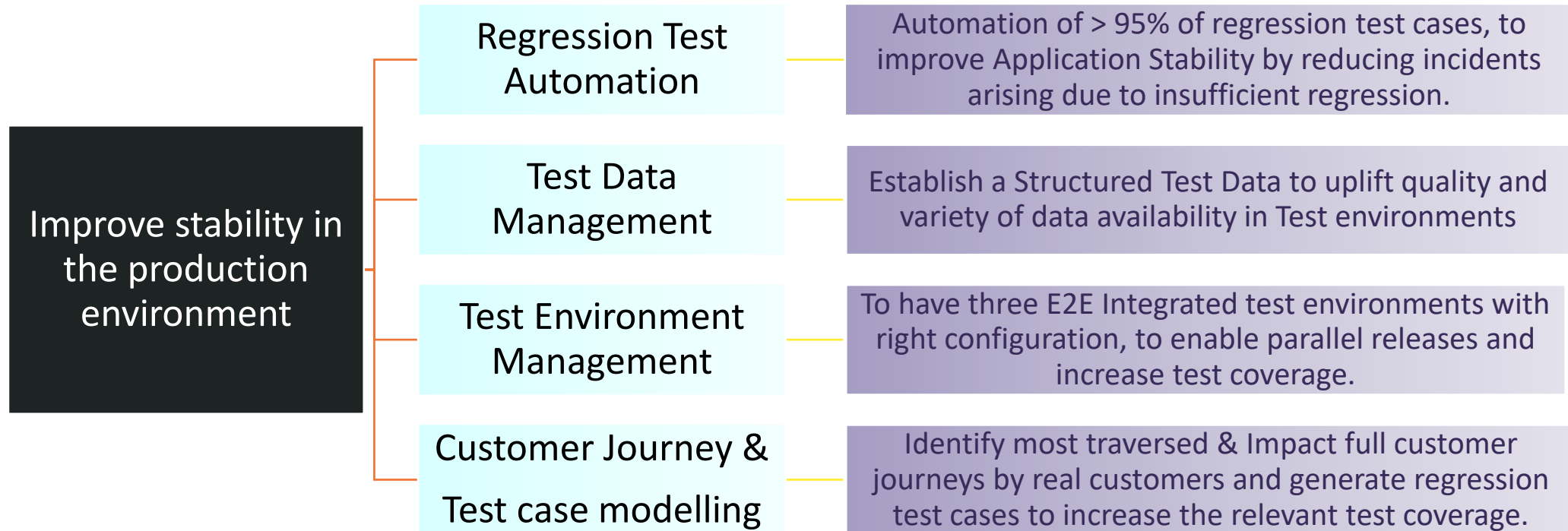


TDC Energize Regression Test Automation Case study



Program Context

TCS has been a strategic QA partner to TDC for past 10 Years and has traversed the path along with TDC in providing end to end Enterprise test services to multiple programs executed by TDC.



- ✓ RTA program focused on automating **47 critical applications** covering **3000+ test cases** and **350+ E2E scenarios** to achieve enhanced test coverage , productivity and efficiency

Problem Statement

- ✓ High production incident and Less regression cycle in each release
- ✓ Based on TCS analysis , 48 Applications contribute to 93% of the production application Incidents and 99% of Pre-Prod Defects . 10 Applications contribute 40% of the production incidents out of which 20% is code, configuration and test data related.

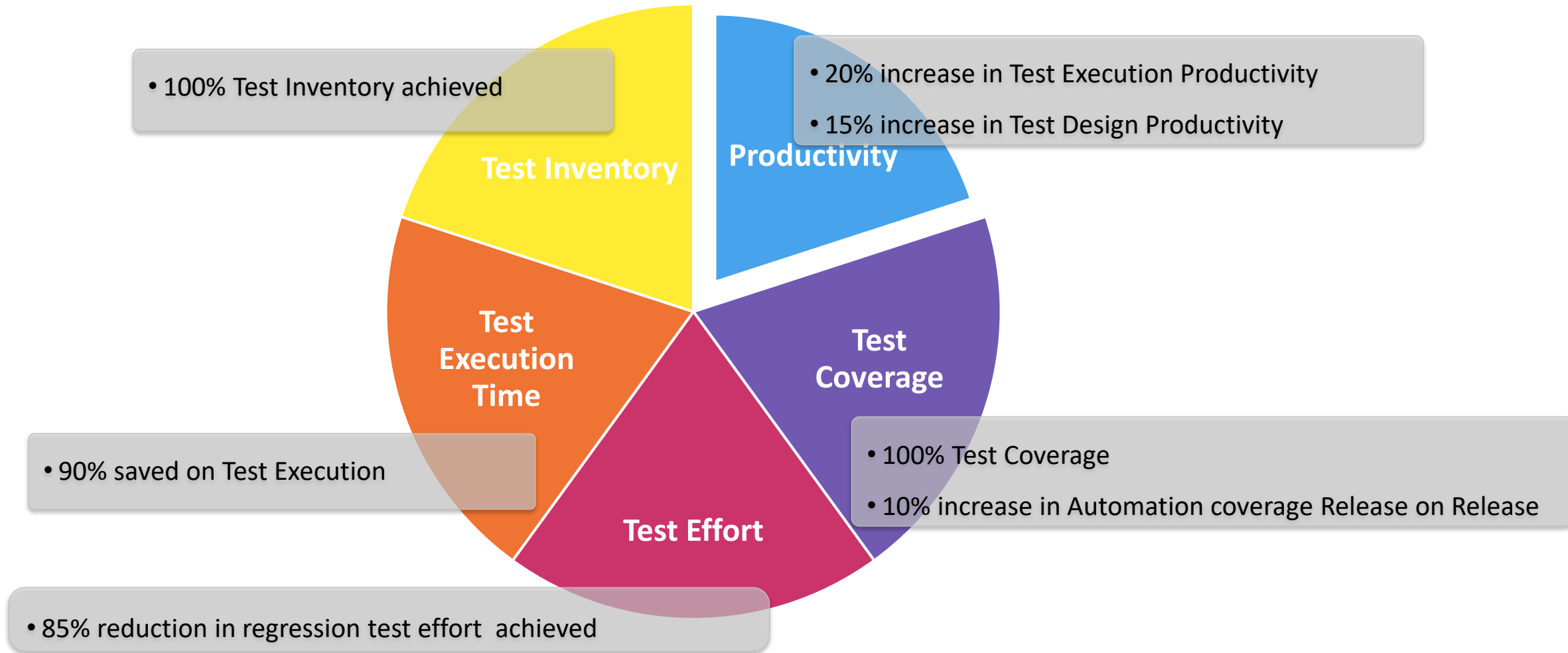
TCS Proposition : Automation of Regression and End-End Test Cases for 47 Applications

Outcome : Improvement in Application Stability by potential reduction of Code/Config incidents arising due to regression coverage

TCS Approach

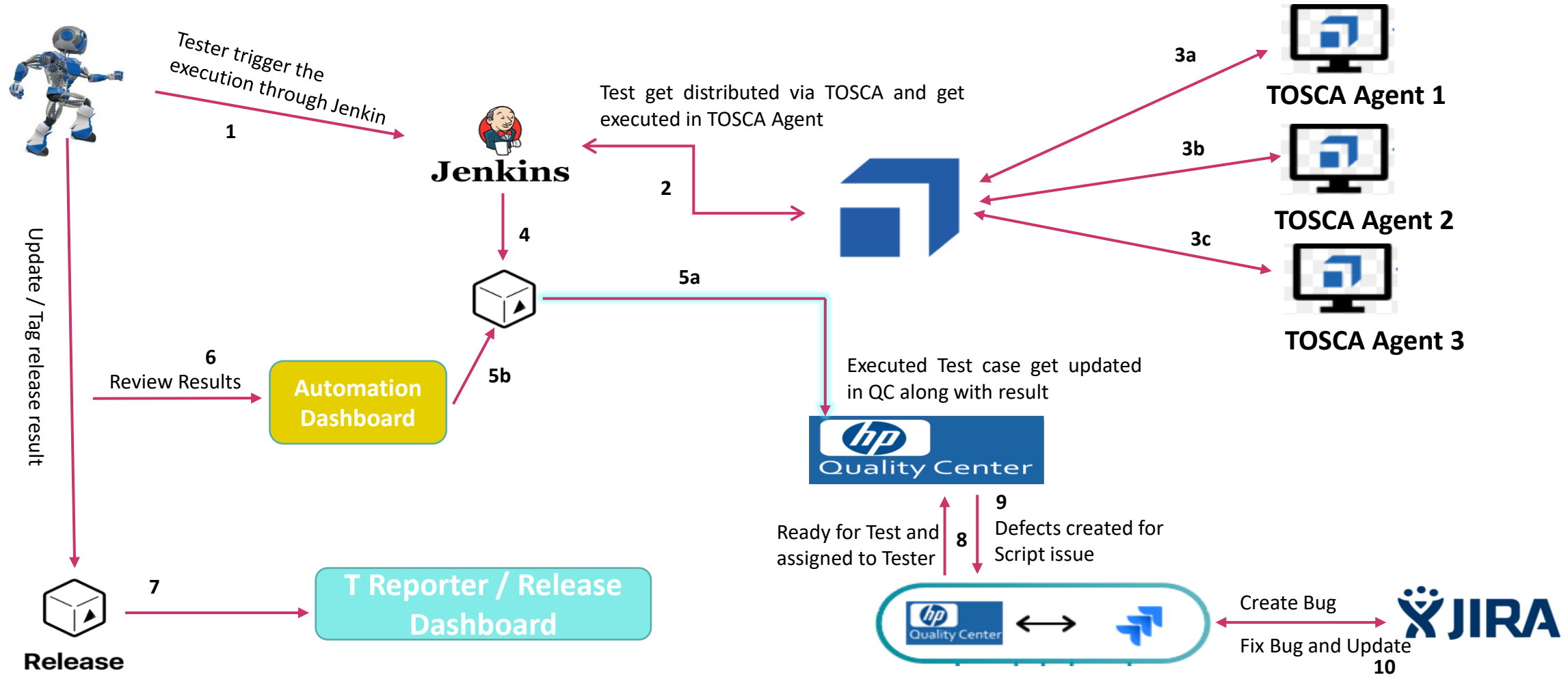
- ✓ As part of engagement 3 step activities were planned – Test Inventory Build & Refactoring, Maximize Regression Test Automation, Test Data Quality Uplift
- ✓ 47 critical applications contributing to the maximum number of production incidents are selected for the program and they are categorized into 10 sprints. Applications within sprints is selected in a manner that each sprint has similar volume and complexity
- ✓ Based on customer agreement script less tool **TOSCA** was used for automation
- ✓ **Test Inventory Build & Refactoring**
 - For applications having test inventory perform refactoring to improve test coverage and build for those applications without test inventory
 - Test Inventory will be built with the end-to-end value chain driven approach
- ✓ **Maximize Regression Test Automation**
 - Build/Enhance automation scripts for all 48 applications using existing automation frameworks with end to end value chain view
- ✓ **Test Data Quality Uplift**
 - Build test data to support the automation scripting and execution
- ✓ Program will be delivered in an iterative manner using Agile methodology in 10 sprints

Result Achieved



Best Practices

E2E Automation Setup was build to achieve 100% automation and parallel test execution



Key Differentiators

Faster Delivery with Quality

- ✓ TCS presence in Domain teams and QA department helped to align automation deliveries to Release Calendar thereby aiming at optimal benefit realization
- ✓ TCS experience in tools like Tosca, JIRA and ALM

TCS E2E Presence

- ✓ TCS to leverage its incumbent knowledge across various IT and Operations team to do this analysis and perform course correction, if any, during the engagement

TCS Experience in TDM

- ✓ With its end to end application knowledge TCS Test Center have been catering to test data needs for all critical projects, release regression
- ✓ Several tools have been created to manage test data like SIM Reservation tool, Copper address management

Thank you

Video Testimonial from Quality Head of Nuuday published on TCS.com

External Reviews provided by Customer on TCS QA Capabilities

Gartner®

5/5 Customer Rating which helped TCS to boost overall Score and jump a quadrant above in gartner ratings

Assesment Score received for TCS Nuuday QA team on TOSCA Implementation

**TRICENTIS
Tosca**

8/10 Assesment score for TCS Nuuday QA team

Nuuday Powers Ahead in the Quality Stakes

Lars Burmann, Director, Head of Department (Test & Release), Nuuday, a subsidiary of TDC, talks about how TCS helped modernize their QE programs, helping the Danish telecom giant ace its quality journey.

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nuuday



LARS BURMANN

DIRECTOR, HEAD OF DEPARTMENT (TEST & RELEASE)
NUUDAY

Customer Video Testimonial Reference to TCS partnership :

<https://www.tcs.com/nuuday-tdc-denmark-transformational-qe-programs>