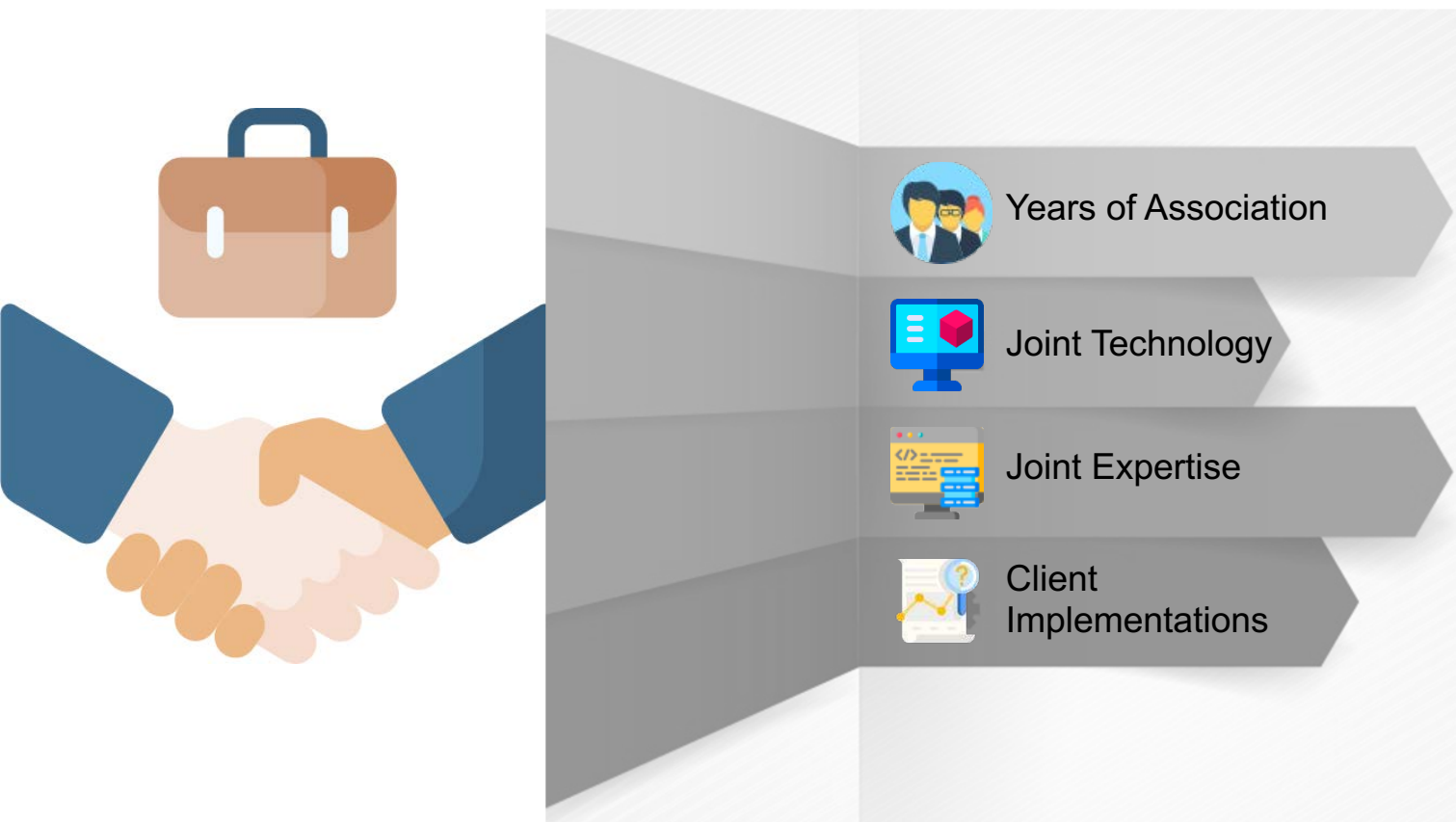HEXAWARE + CONFORMIQ

How to Reduce Testing Costs Through Automation Across Testing Life Cycle

Agenda

1 **Company Introduction**

2 Automated Testing for Guidewire

3 Right Strategies For Testing Lifecycle

4 The Optimized Approach

5 Value Delivered and Success Stories

Company Introduction

Years of Association

Joint Technology

Joint Expertise

Client Implementations

Years of Association
- ❑ 5+ years of working together to eliminate manual testing wherever possible

Joint Technology
- ❑ ID2E (Integrated Design 2 Execution) Proposition
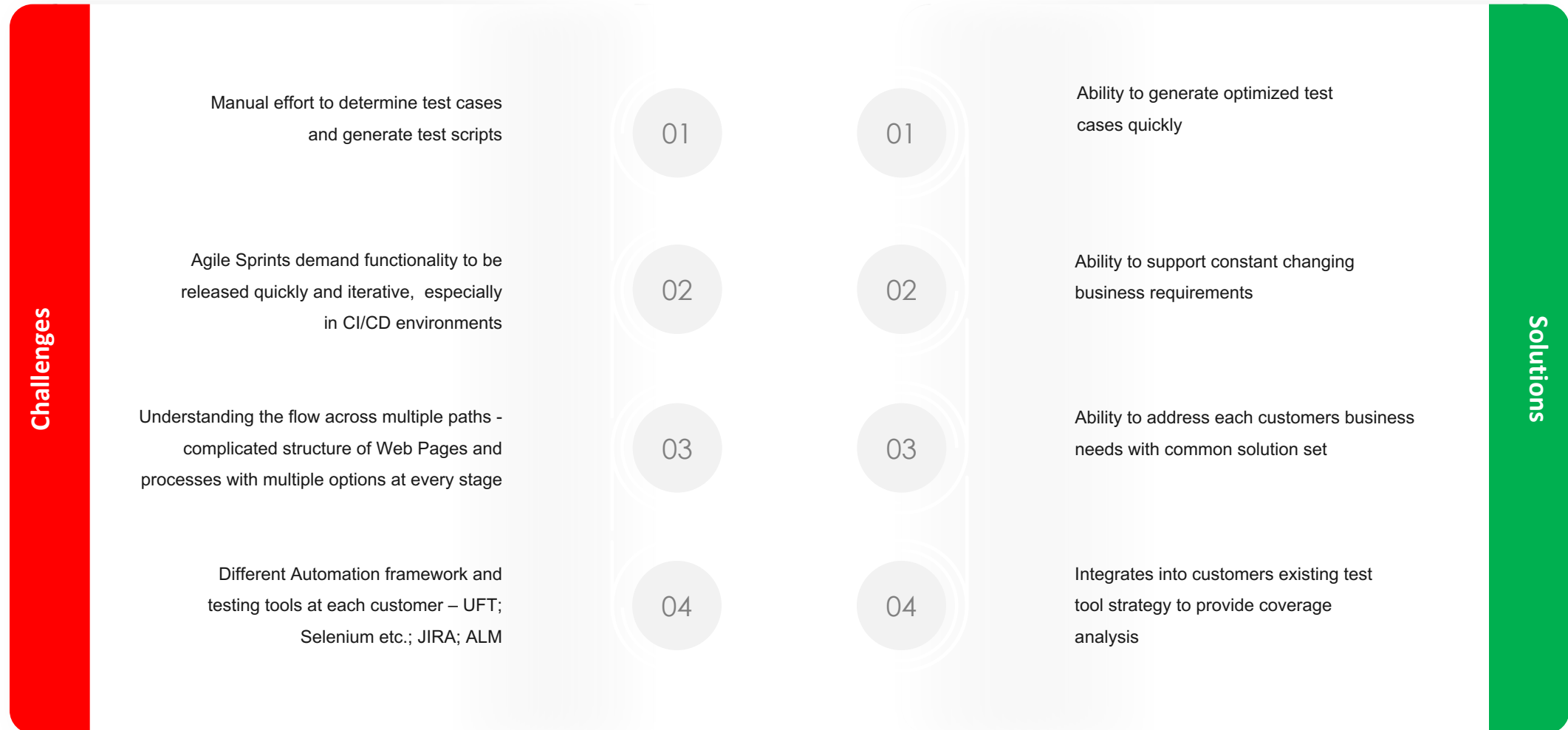- ❑ Intelligent test design and automation

Joint Expertise
- ❑ Experienced & trained resources
- ❑ Prebuilt models accelerates deployment

Client Implementations
- ❑ 15+ successful global deployments

Agenda

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Automated Testing for Guidewire – Challenges and Solution

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Challenges

Manual effort to determine test cases and generate test scripts

01

Agile Sprints demand functionality to be released quickly and iterative, especially in CI/CD environments

02

Understanding the flow across multiple paths - complicated structure of Web Pages and processes with multiple options at every stage

03

Different Automation framework and testing tools at each customer – UFT; Selenium etc.; JIRA; ALM

04

01

Ability to generate optimized test cases quickly

02

Ability to support constant changing business requirements

03

Ability to address each customers business needs with common solution set

04

Integrates into customers existing test tool strategy to provide coverage analysis

Solutions

Agenda

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Right Strategies For Testing Lifecycle

Complete Automation **01**

02 **Progressive In-Sprint automation**

Know your test coverage **03**

04 **Continuous Testing**

Adopt AI based test solutions **05**
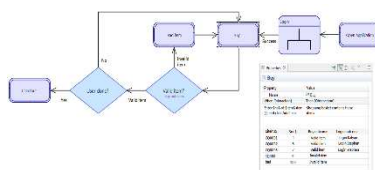
06 **Adopt integrated e2e test platform**

Technology is Key

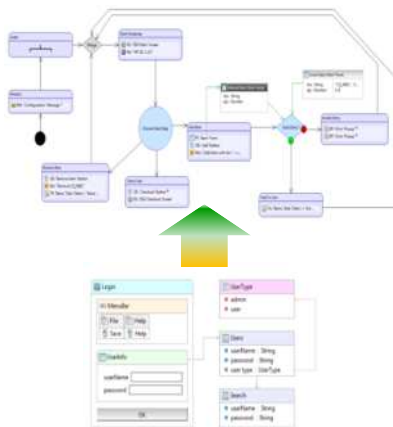# Complete Automation - Automate The Testing Process

CONFORMIQ

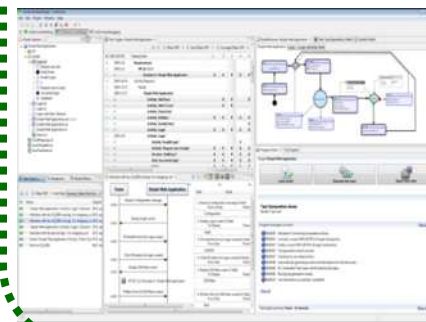**1** — Add/automate graphical model of requirements and/or user stories

2 — Add/automate graphical model of user interfaces

3 — Automate design of optimized test cases from model

4 — Automate generation of executable test scripts with validations plus documentation

Prebuilt models drive intelligent test automation

Test Case Design Automation accelerating BDD/TDD/Agile Testing
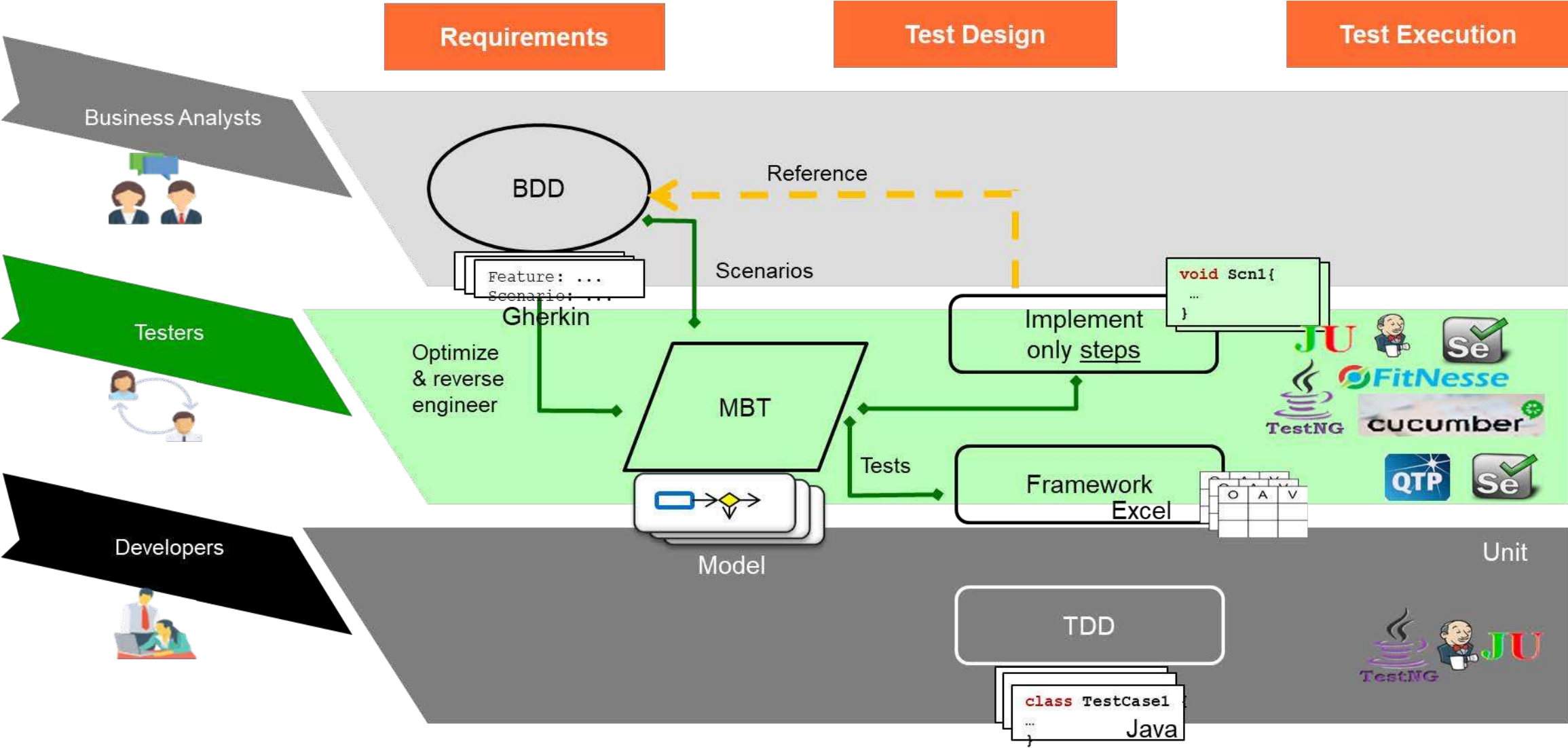
Know Your Test Coverage

Know your tests and coverage before execution of optimized always current test cases

CONFORMIQ
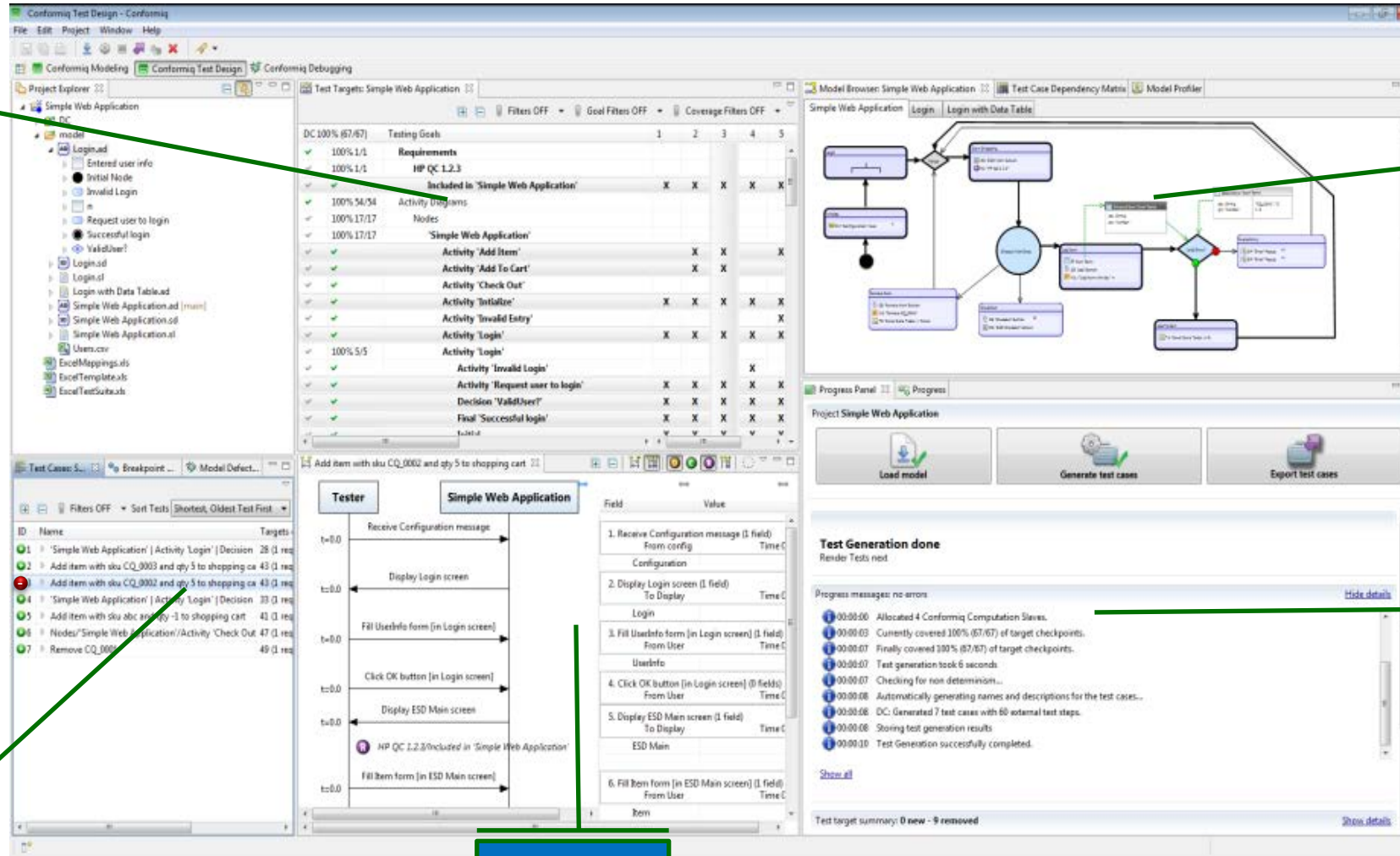
Test Coverage Matrix

Test Case Coverage

Design Change Impact Analysis

Test Generation Information

Test Steps & Data
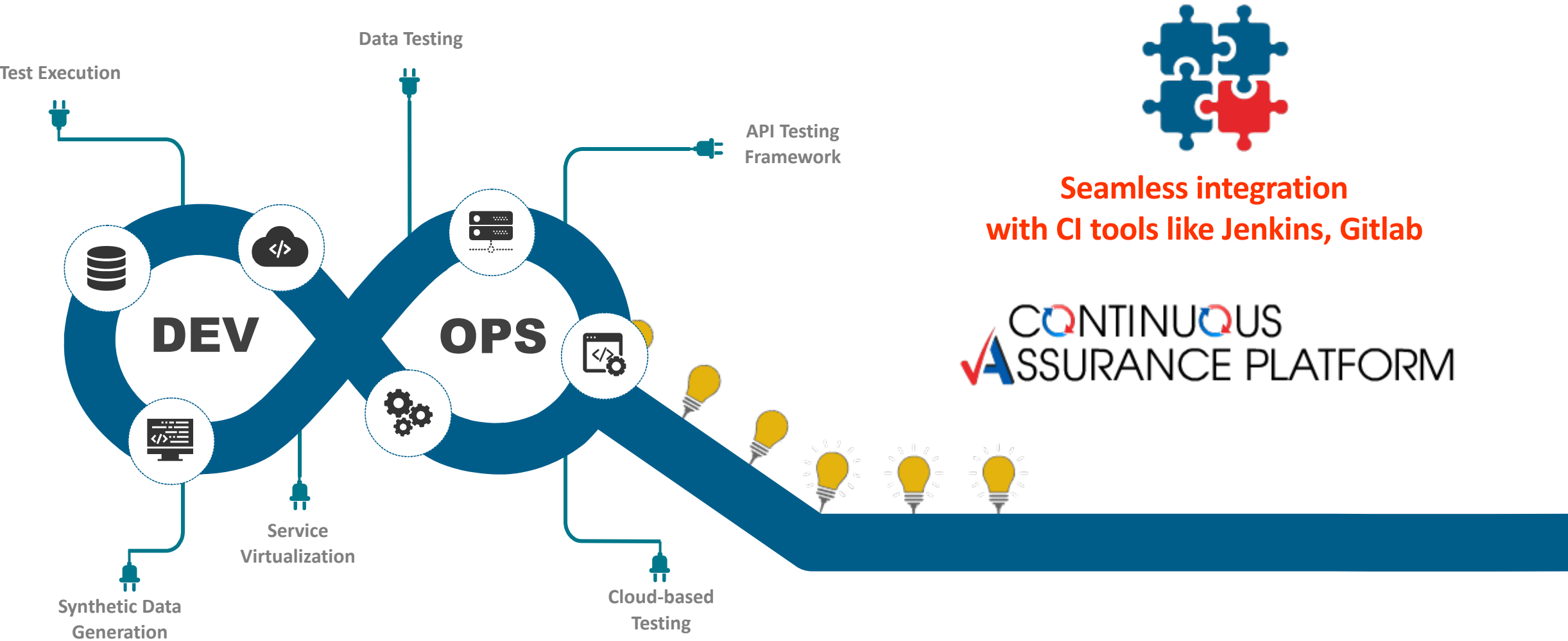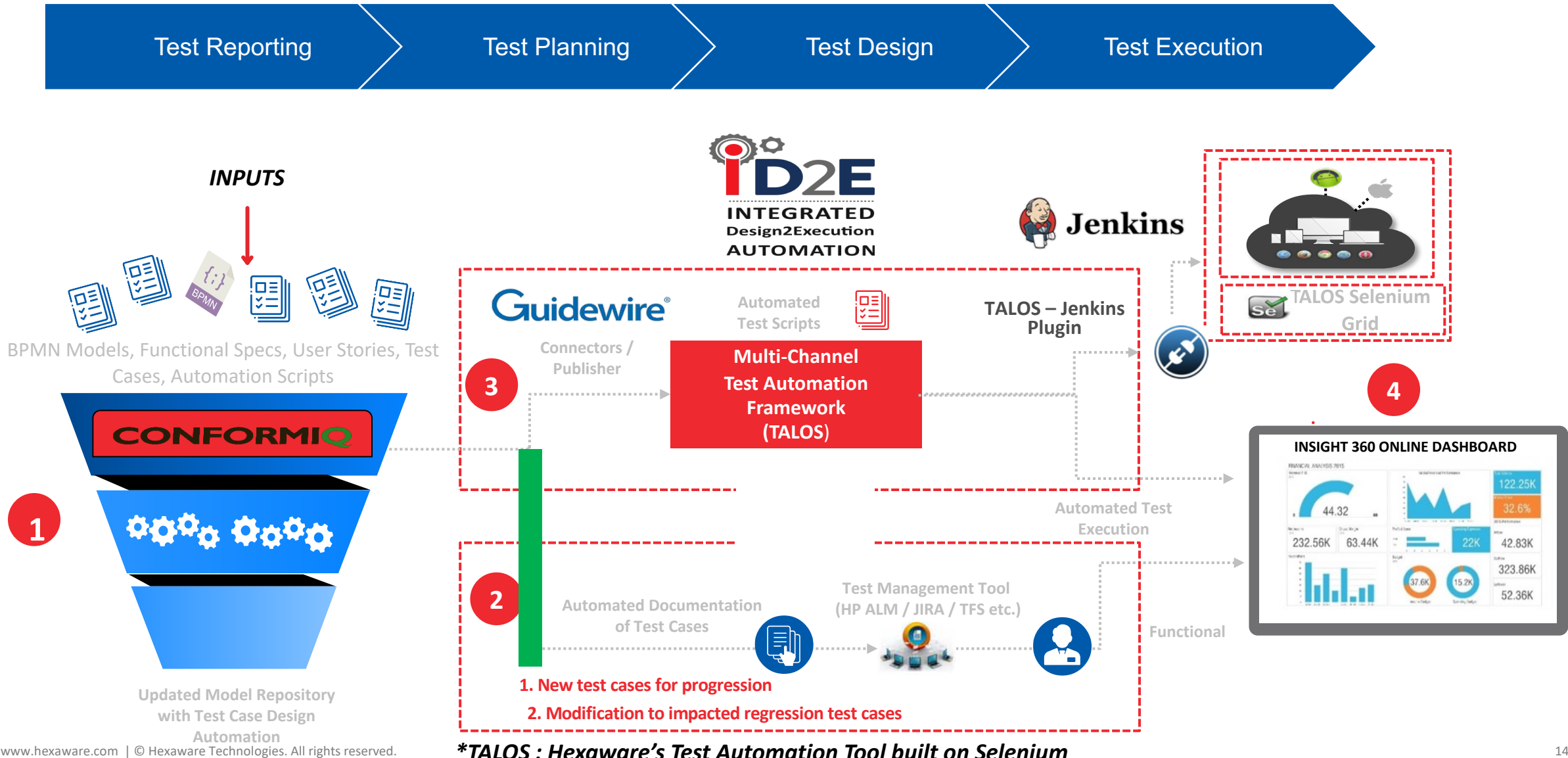
Continuous Testing

**Seamless integration
with CI tools like Jenkins, Gitlab**

Test Execution

Data Testing

API Testing
Framework

DEV

OPS

Synthetic Data
Generation

Service
Virtualization

Cloud-based
Testing

Agenda

CONFORMIQ

The Optimized Approach –
Test Automation with Integrated Design to Execution (iD2E) powered by Conformiq & Hexaware

CONFORMIQ

Test Reporting ▸ Test Planning ▸ Test Design ▸ Test Execution

INPUTS

iD2E
INTEGRATED
Design2Execution
AUTOMATION

Jenkins

BPMN Models, Functional Specs, User Stories, Test Cases, Automation Scripts

CONFORMIQ

Guidewire®

Automated Test Scripts

TALOS – Jenkins Plugin

TALOS Selenium Grid

Connectors / Publisher

Multi-Channel Test Automation Framework (TALOS)

3

4

1

INSIGHT 360 ONLINE DASHBOARD

FINANCIAL ANALYSIS 7015

44.32

122.25K

32.6%

232.56K   63.44K   22K   42.83K

323.86K

37.6K   15.2K   52.36K

Automated Test Execution

Updated Model Repository with Test Case Design Automation

2

Automated Documentation of Test Cases

Test Management Tool (HP ALM / JIRA / TFS etc.)

Functional

1. New test cases for progression

2. Modification to impacted regression test cases

TALOS : Hexaware's Test Automation Tool built on Selenium

TALOS – Hexaware's Agile Automation Platform for BDD

CONFORMIQ   Hi.

Import BDD Gherkin

BDD Gherkin Files import to create automation scripts
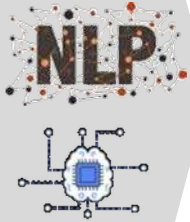
Auto Learn BDD Dictionary (AI/ML)

BDD Gherkin Files import to create automation scripts

Intelligent Object Scanner

Automatically create reusable components by scanning web & Mobile screen/App

TALOS

NLP

SCRIPTS

Reusable component

Automation Script

Custom Actions

Test Execution Management

TALOS Reporter

Project Management

Automate AngularJS apps

Auto Correction Intelligent Object Identification

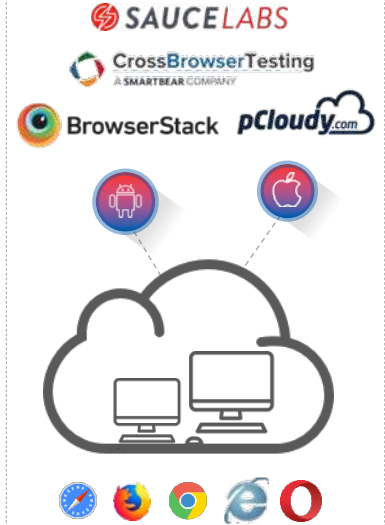AI/ML Central Object Repository

Orchestrated Chaos

Automated Test Scripts

Automated Test Scripts

TALOS – Jenkins Plugin

SAUCELABS

CrossBrowserTesting
A SMARTBEAR COMPANY

BrowserStack   pCloudy.com

CONFORMIQ

SELENIUM BOX
ENTERPRISE SELENIUM GRID

Selenium Box

Se   Selenium Grid

docker   Container Support   aws

Jenkins

Automated Test Execution

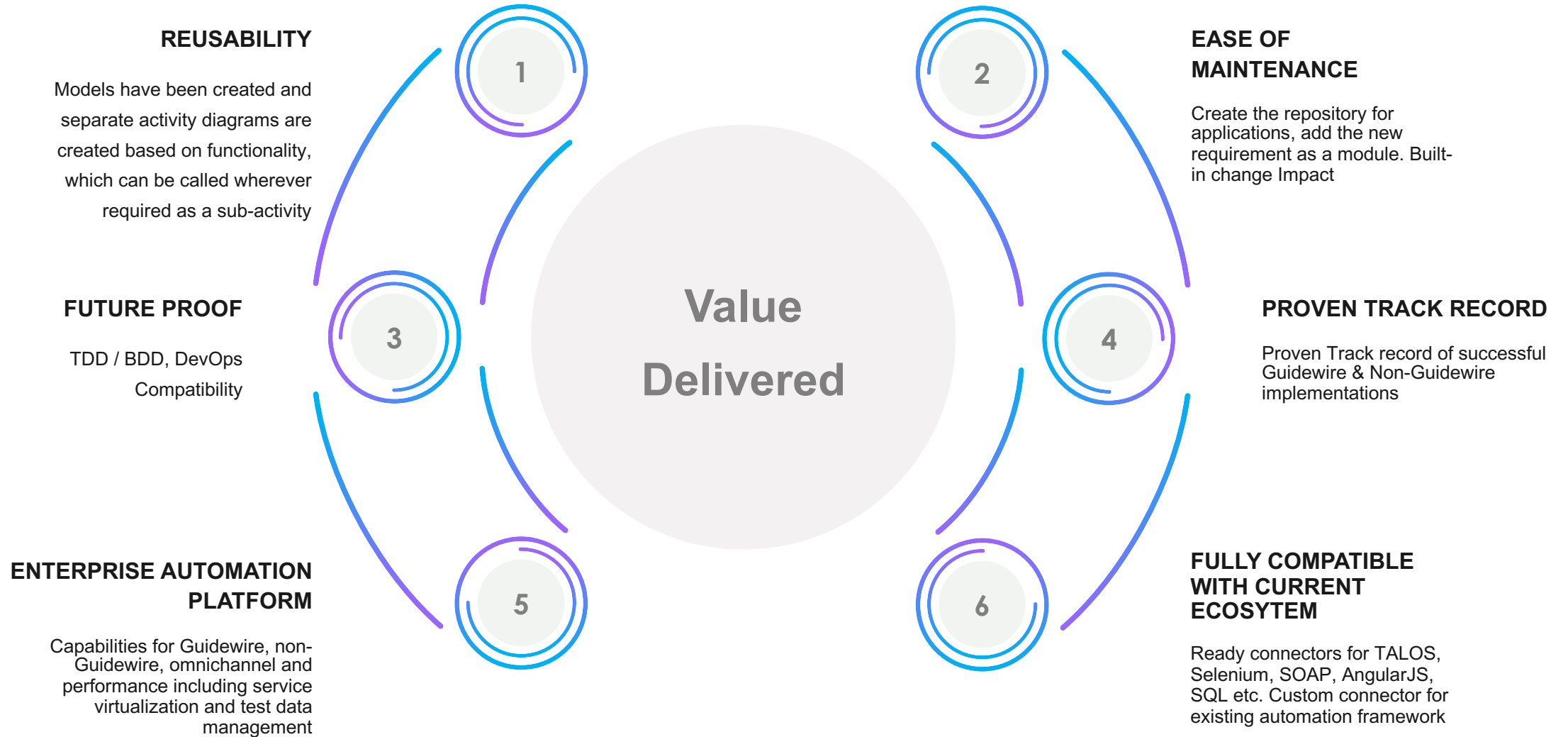**2X Productivity**   **30% Faster Time to Market**   **Zero Tool Cost**   **Improved Quality**   TALOS

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CONFORMIQ

Value Delivered

REUSABILITY

Models have been created and separate activity diagrams are created based on functionality, which can be called wherever required as a sub-activity

1

EASE OF MAINTENANCE

Create the repository for applications, add the new requirement as a module. Built-in change Impact

2

FUTURE PROOF

TDD / BDD, DevOps Compatibility

3

PROVEN TRACK RECORD

Proven Track record of successful Guidewire & Non-Guidewire implementations

4

ENTERPRISE AUTOMATION PLATFORM

Capabilities for Guidewire, non-Guidewire, omnichannel and performance including service virtualization and test data management

5

FULLY COMPATIBLE WITH CURRENT ECOSYTEM

Ready connectors for TALOS, Selenium, SOAP, AngularJS, SQL etc. Custom connector for existing automation framework

6

Client Benefits

01

Optimizes existing testing environments
-Integrates with existing tools
-Re uses and optimizes existing test cases
- Enables omni-channel testing

02

Unitizes AI technology
-To automatically scope and generate optimized test cases
-To generate test scripts for automated execution from models and manual tests

03

Links requirements to test case generation
-Displays the tests cover requirements
-As development progresses, test case evolve in sync

▶ Automated Test design and model-based testing saving up to 60% time & effort

▶ Requirements traceability up to 100%

▶ 100% visibility on test coverage

▶ 100% Test Optimization – Up to 50% reduction in Test Cases

▶ 15% increase in developer productivity

▶ 70% automation coverage

▶ 100% test coverage

▶ Requirements as the single source of truth

▶ Complete sync between AUT and test assets

▶ Intelligent test optimization

▶ Seamless integration with Requirements and Test Execution environments

We are assuring quality for some of the very large and strategically important Guidewire programs right now

CONFORMIQ

Client	GW Products	Scope	Benefits Delivered
World's leading fortune 50 insurance company in Germany	PolicyCenter, ClaimCenter	Independent testing partner for AXA Polaris Programme Auto, Home, Commercial Property, Pet, Medical	• Zero P1/P2 defects in 4 releases • CI/CD cycle time 7 hours to 15 mins
Leading Belgium Insurer	PolicyCenter, BillingCenter, DataHub	Strategic Guidewire partner - Application development, support and testing Auto and Home	• 40% effort reduction with Automation • 15% FTE reduction due to efficiency gains
2nd Largest Nordic Insurance	ClaimCenter	Strategic – Independent Partner for NCS Programme Auto, Travel, Home, Commercial	• 90% automation • CI/CD Integration
UK's largest insurance company with over five million customers	PolicyCenter, BillingCenter, ClaimCenter	Part of the Flagship programme – Pioneer, for implementation of PC & BC to integrate it with CC Auto, Home, Pet, Travel	• 80% Automation – Regression, API • Automation across LOBs
Leading UK Vehicle Insurance company	Guidewire Digital	Testing Partner for Guidewire Portal implementation project – CustomerEngage & Producer Engage	• 90% automation – Digital Portal • BDD/TDD alignment
Leading US Automotive services, insurance, banking, travel& hospitality inspections	PolicyCenter, BillingCenter	Testing Partner for PC, BC implementation for Personal Auto	• Automated Test Design to Execution • Increased Test Coverage
Guidewire Digital (Aspen)	Guidewire Digital	Independent testing partner for Guidewire Digital (Aspen) product development	• CI/CD integration • Regression Test Automation pack

Next Steps - Get Started with Pilot/Proof of Concept

Engagement Model
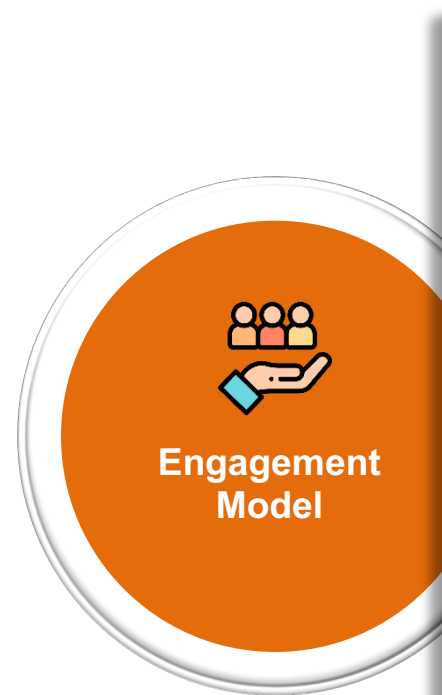
- Connect with us @mark.creamer@conformiq.com and @eddieu@hexaware.com
- Admin access to install Conformiq / TALOS
- Access to Guidewire
- Application availability during PoC phase
- Test data for identified PoC scenarios
- 3 Hours per week of SME support from CUSTOMER for KT and Review
- Identified KPIs for quantitative comparison
- Manage the implementation as needed
    - Integrations
    - Modelling support
    - Product training

HEXAWARE | **CONFORMIQ**

Thank you

www.hexaware.com

Progressive In-Sprint Automation

CONFORMIQ

Sprint - 1
- Start building base models of components
- Start continuous testing
- Regression not required

Sprint - 2
- Extend models
- Automated continuous testing
- Automated regression testing

Sprints – 3+
- Continue to extend models
- Automated continuous testing
- Automated regression testing

Manual test cases

Automated test cases

In sprint models

Prior Backlog | **Sprint Execution** | **Sprint Sign off**

1

Automate in Sprint

Backlog | **Sprint Execution** | **Sprint Sign off**

1
2

Automate in Sprint

Backlog | **Sprint Execution** | **Sprint Sign off**

1
2
3

Automate in Sprint

➢ Automated testing of user stories during sprints
➢ Automated testing during sprint execution using progressive generation of automated suite of test cases
➢ Automated regression during the sprint signoff using automation suite including test cases of current sprint