HCL

BUSINESS ASSURANCE & TESTING
Business value founded on proactive quality

ENHANCE OPERATIONAL & ENRICH QUALITY EFFICIENCIES THROUGH

HCL'S IN-PROCESS AUTOMATION

WHY IN-PROCESS AUTOMATION?

The World Quality Report published yearly by Capgemini, Sogeti and HP, is recognized as IT industry's largest research study. This report surveys the current quality and testing practices used across the globe as well as the emerging trends that may affect the future of testing.

Some of the key findings of the World Quality Report 2014-15 are:

- QA functions are becoming structurally more mature – the number of organizations with a fully functional TCOE have increased from 4% in 2011 to 26% in 2014
- Organizations continue to increase the proportion of their IT budgets for Testing – from 18% in 2012 to 26% in 2014. This is expected to rise to 29% by 2017.
- Share of testing budget for transformational projects was 41% in 2012, which increased to 46% in 2013.
- QA teams are still engaged too late in the application development lifecycle, which contributes to the increase of testing's share within IT budgets to manage operational and quality inefficiencies.

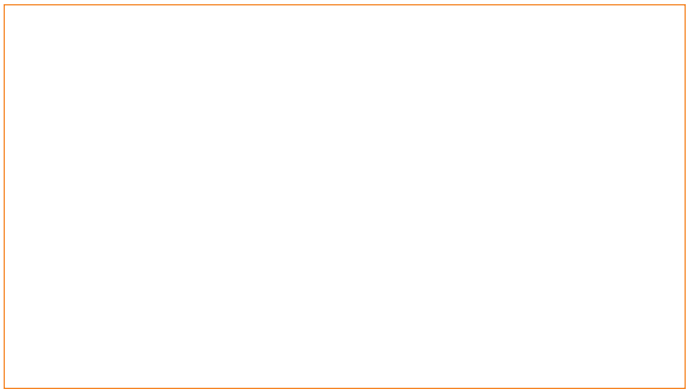

Fig I: IT budget proportion to QA and Testing has grown from 18% in 2012 to 26% in 2014. [1]

SUCCESS STORIES

In Process Automation approach was implemented for one of the HCL's investment bank client for a platinum project. HCL proposed to automate at least 50% of the functional test cases during the development phase. The grid below indicates the expected effort saved for In-Process automation (without manual execution) against the effort spent on automating the test cases which would have been executed at least once manually.

ACTIVITIES	CASE 1	CASE 2
Number of test scenarios(Automatable)	1000	1000
Number of test cases (Automatable)	3000	3000
Test Scenario Preparation Effort (Person days - Assuming productivity of 20 TS per day)	50	50
Test cases Preparation Effort (Person days - Assuming productivity of 40 TC per day)	218	109
Test data Preparation Effort (Person days - Assuming 20% of test case creation effort)	44	44
Test cases planned to be automated	0	1500
Automation Scripting Effort (Person days - Assuming productivity of 3 TS per day)	0	167
Total Preparation Effort - Manual (Person days)	312	203
Total Preparation Effort - Automation (Person days)	0	167
Total Preparation Effort (Person days)	312	370
Manual Execution Effort (Person days - Assuming productivity of 25 TC per day and 4 cycles)	480	240
Automation Execution Effort (Person days - Assuming productivity of 200 TC per day and 4 cycles)	0	30
Total Execution Effort (Person days)	480	270
Total Effort (Person days)	792	640
% Effort Save between Case 1 & Case 2	24%	

BENEFITS DELIVERED

- Reduction in Time-To-Market for new initiatives
- 24% reduction in effort with In-Process Automation approach

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