Cross Browser Testing
The Effectiveness Deal

22 de octubre 2014
Sede: Todo el mundo
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CROSS BROWSER TESTING
EL RETO DE LA EFICIENCIA

Delivering multi-browser applications

Microsoft® Silverlight®

The defects introduction

WHAT IS IN THE BACKGROUND

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Poor Requirements Still Leading Cause of Failure

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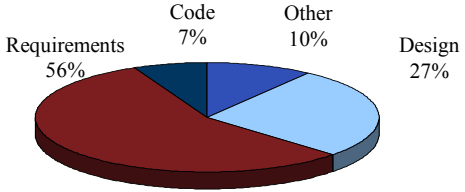
3 de 5 top reasons projects fail

1. Lack of user involvement (inaccurate requirements)
2. Incomplete requirements
3. Changing requirements

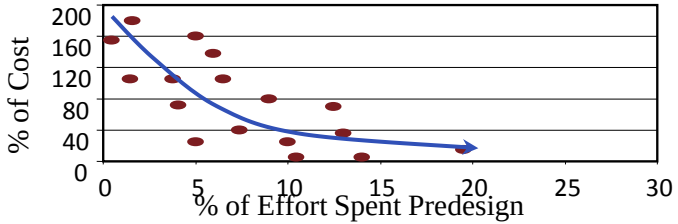
Source: Standish Group (2003)

40% of effort in software projects is rework from requirements errors



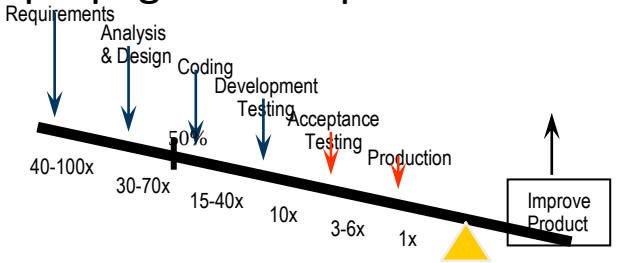
Source: James Martin

Investments in requirements reduces overall project costs

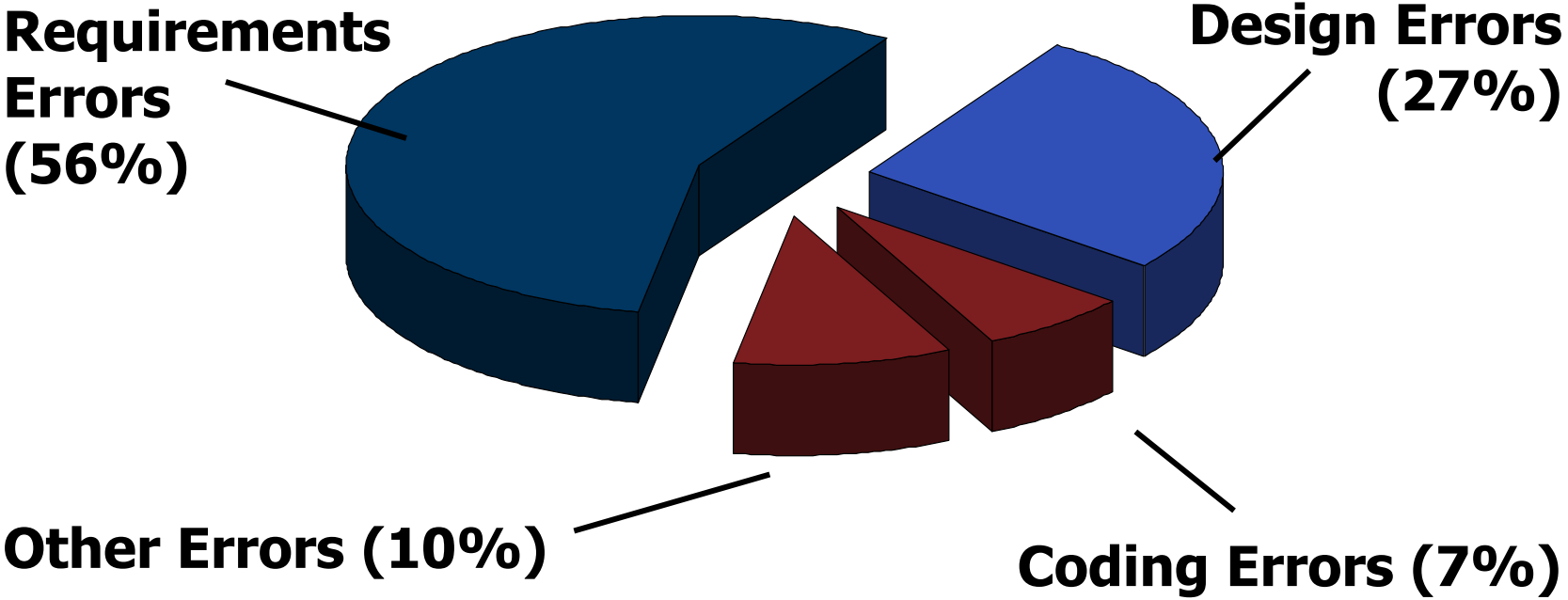


Source: Hooks and Farry, Customer-Centered Products, AMACOM, 2001)

The cost to fix a defect increases as it propagates into production

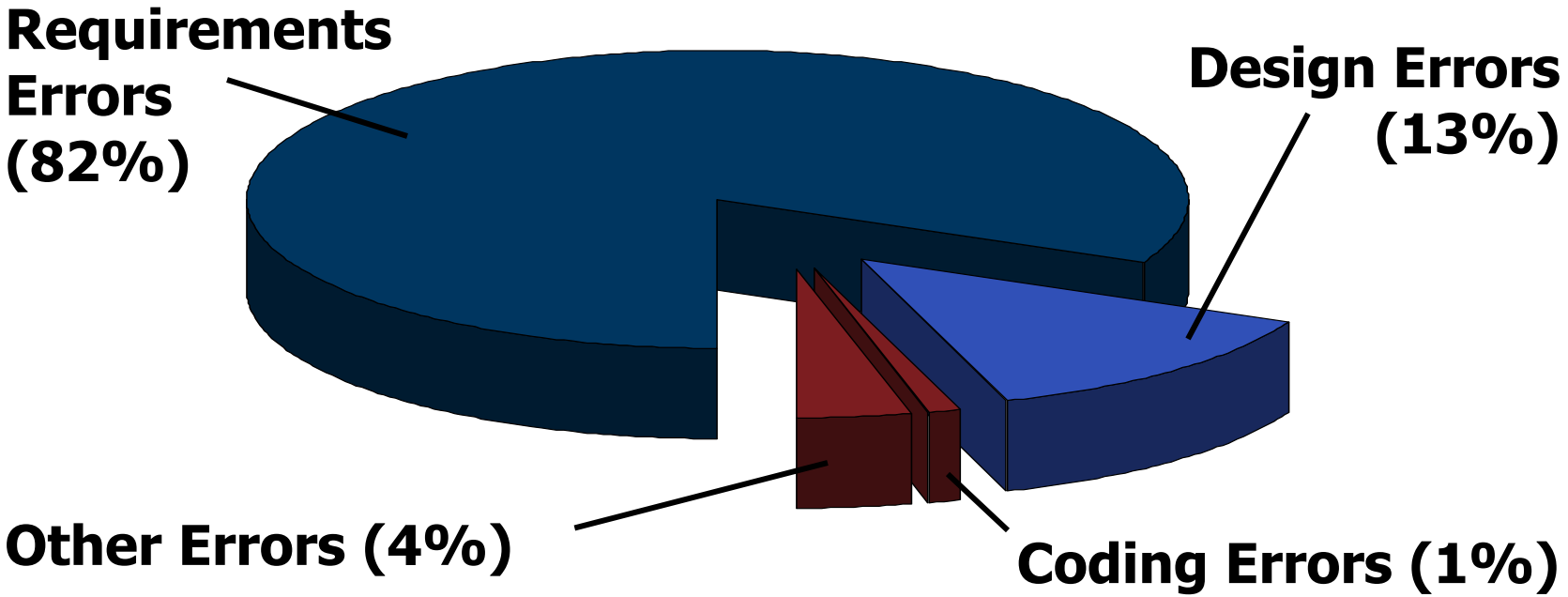


The Source of Software Defects



Source: James Martin, An Information Systems Manifesto

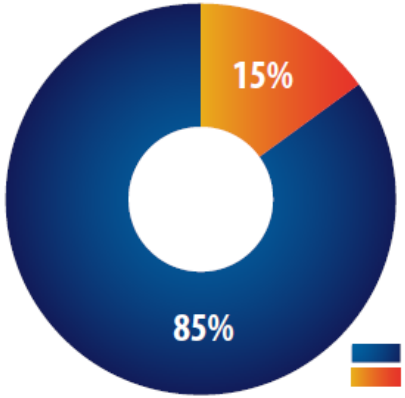
The cost to fix software defects



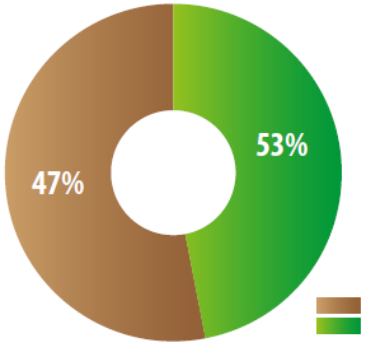
Source: James Martin, An Information Systems Manifesto

Connect your people for success software delivery

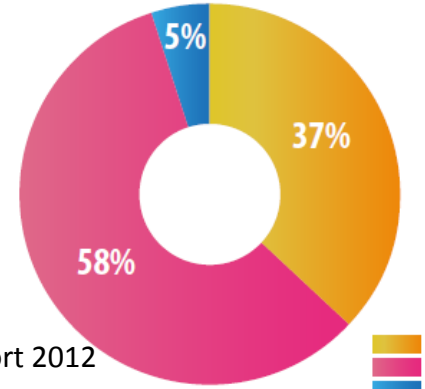
We need a better delivery process!



85%† of companies have to capture and share project requirements with other stakeholders



47%† of companies make change requests once every two weeks, or more frequently



Only 37%† of companies are able to manage variability, variety and change very well

*Source: Standish Group, Chaos Manifesto Report 2012
†Source: Vanson Bourne 2013

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Key pains to solve

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Customer Needs & Pains

- Customer Satisfaction
  - Ensuring the quality across a huge variety of browsers and platforms is time and cost intensive
- Finding problems early
  - Finding and fixing problems early in the product lifecycle is key to be cost effective
- Testing infrastructure
  - Setting up and maintaining a test infrastructure that fit the customers need is costly and time consuming

Silk Central Connect's Unique Solution

- Cross-browser configuration testing
  - Understand where web applications pass or fail
- Visual result comparison across browsers
  - Quickly find any problem of your application that is related to a specific browser
- Running tests in the cloud
  - Leverage the cloud to gain better test coverage and to avoid building a test environment on your own

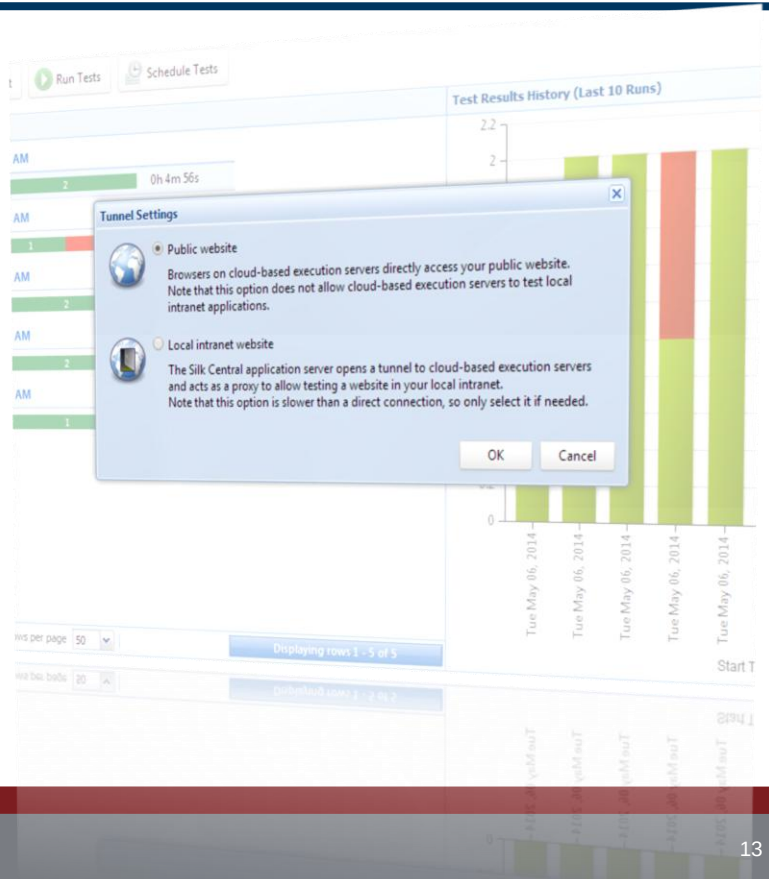
Coexistence through the SDLC

Cross browser configuration testing

- **Validate a Web Application with a single click** – understand where applications pass or fail
- **Cross Browser Configuration Testing** – how is cross browser configuration testing done
- **Side-by-Side Results** – at a glance result comparison
- **Running tests in the Cloud** – leverage to cloud to extend test coverage

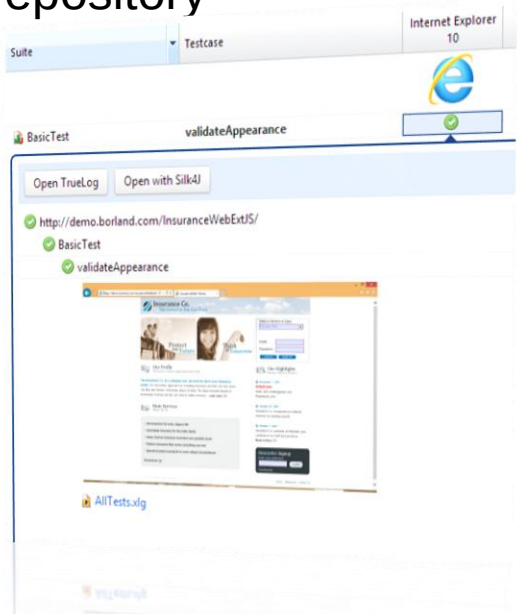
Your application is not public?

- Not all web applications are public available
- Enable customer to test local local web applications from the cloud
- Configurable for each project



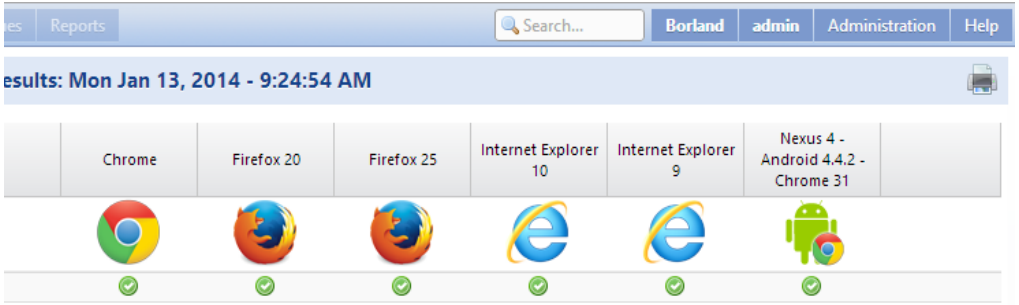
No limits for improvement

- File based repository for evaluation
  - No need for manually setting up a SVN repository
- Usability enhancements
  - Show URL within the results for better analysis



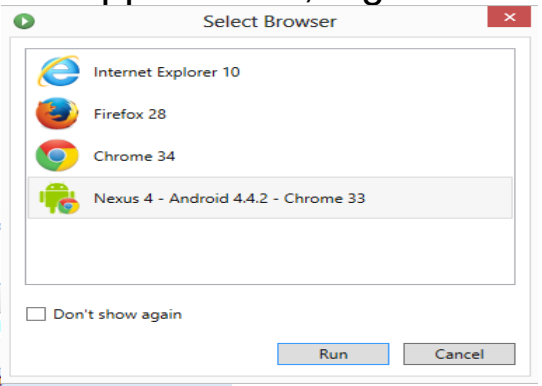
Understand where the application pass or fails

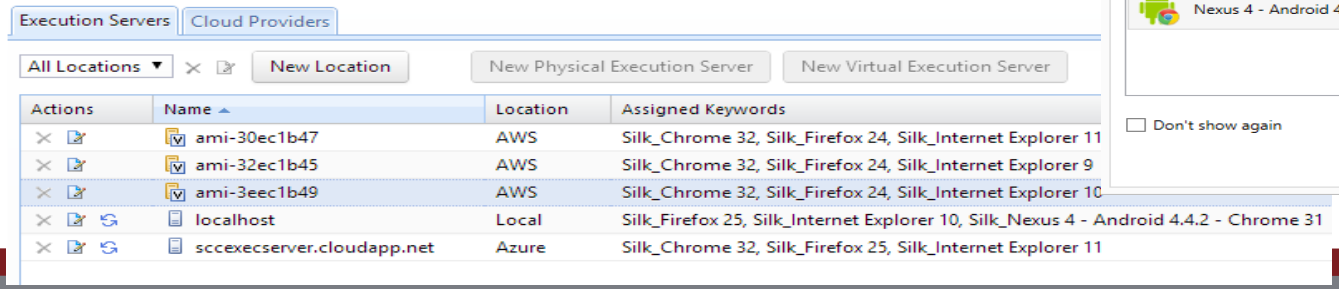
- Auto scan an URL
  - Silk Central Connect checks if the URL is accessable
  - Silk Central Connect provides a screenshot of the web application on all the different browsers
- Complete Test Project created
  - Open Project in Silk4J to extend the test-set
  - Share Project across the team
  - Run tests locally or in the cloud



How is cross browser configuration testing done

- Cross Browser Testing
  - Use one powerful script for testing in various browsers (including mobile browsers), browser versions and locales
  - Built-in synchronization removes the need for a tester to manually synchronize against asynchronous events typical for highly dynamic web applications, e.g. based on AJAX.
- Cross Browser Configuration Testing
  - Run test across a huge variety of browsers





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Side by side results

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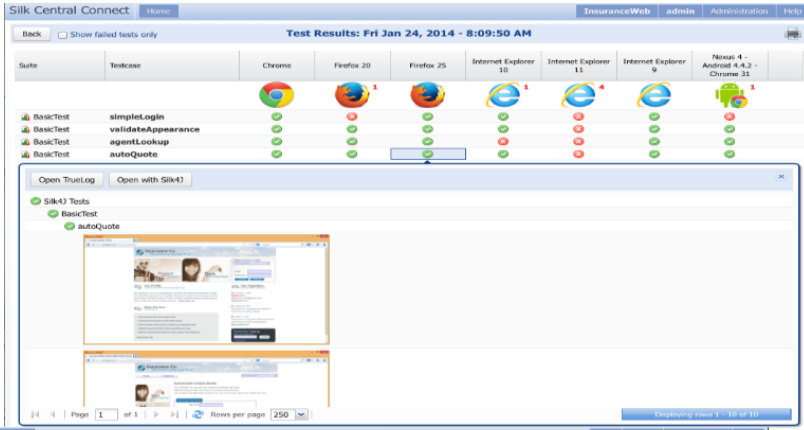
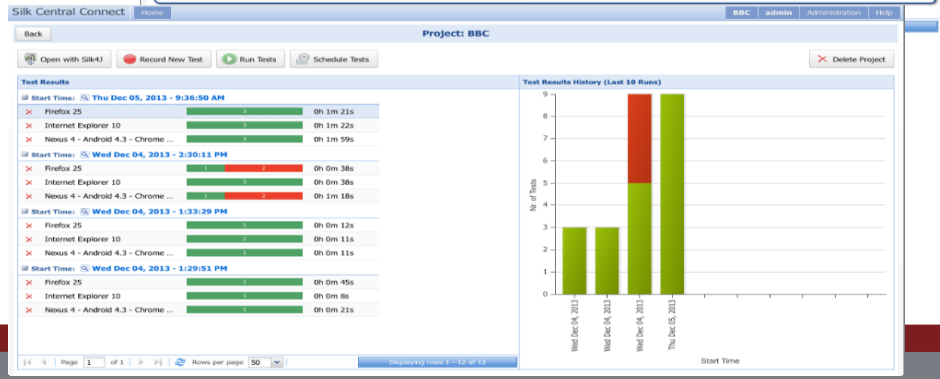
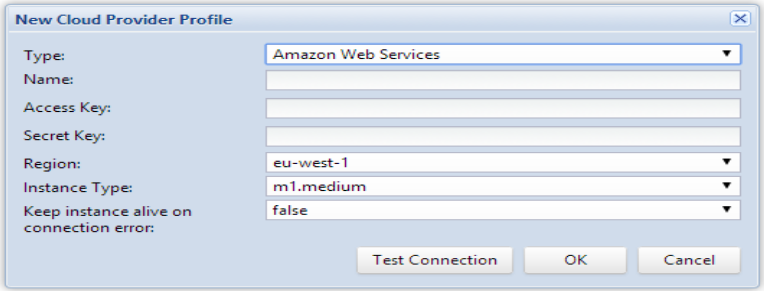
- Results across all Configuration
  - See where the application passes or fails
- Historical Results
  - See how the tests evolve
  - See on which configuration you have problems
- Deep result analysis
  - See with one click what the problem is
  - Jump right into the line of code which causes the issue

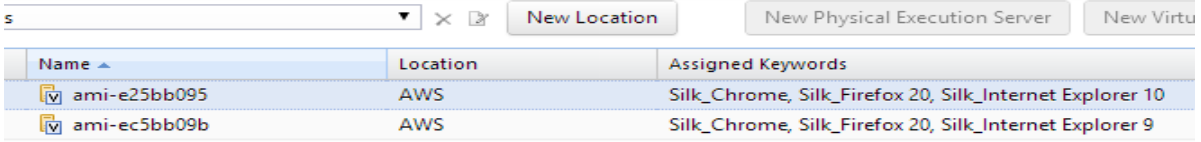




Leverage the cloud to extend test coverage

- **Test execution in the cloud**
  - Use own Amazon account
  - Cost effective test-execution
  - No longer buy expensive hardware
- **Test execution in your own private cloud**
  - Stay in your own DMZ
  - Use local environment for test execution
  - Leverage all existing hardware





Better Software, Faster!