

Presented to VANQ
October 29, 2009

Test Automation – Building Your Business Case

Silverpath Technologies Inc. Trevor.Atkins@silverpath.com

> Thinking Through Testing

## Goals of Automation



- Desire to improve testing productivity, reduce costs, and improve product quality is often expressed as:
  - Discover defects earlier
  - ❖ Increase test speed, accuracy, repeatability
  - Increase test availability (rapid and unattended)
  - Extend test capability and coverage
  - Increase test accumulation
  - Increase tester effectiveness
  - Formalize testing and enable measurement

Let's Automate!



©2009 Silverpath Technologies Inc.

2

#### **Common Automation Scenarios**

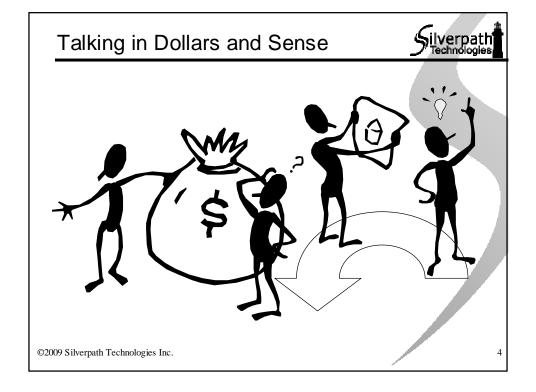


- Build Verification (Smoke Testing)
  - Quickly determine the stability of a new build before committing manual test resources to testing it
- Configuration Testing
  - Run similar tests on a variety of system configurations
- Regression Testing
  - Easily verify that stable (non-changing) functionality remains working between builds/releases
- ❖ Others…?

Mature Functionality vs.
New Development

©2009 Silverpath Technologies Inc.

3



# Treat Automation as a Project



- ❖ Why should we do this?
- ❖ Why should we do it this way?
- ❖ What is the return on investment?
- ❖ When is the investment paid back?
- ❖ When do I start to save / profit?
- Need to go through the same cost justification process as you would any other project

©2009 Silverpath Technologies Inc.

5

## What are the Anticipated Costs?



- ❖ Automation software & support
- Automation environment hardware
- Training resources
- Effort to automate and execute the test cases
- Results analysis / interpretation of results
- Maintenance of automation environment and scripts
- Increased/more expensive head count for test automation skills

©2009 Silverpath Technologies Inc.



## What are the Expected Savings?



- Time saved from manual testing
  - Speed, parallel execution, configurations
- Benefits from new testing
  - ❖More effective use of manual testing
  - Previously infeasible manual tests now automated
  - Tests added by non-testers
- Benefits from more frequent execution of tests
  - Costs saved by finding issues earlier

©2009 Silverpath Technologies Inc.

/

#### What is the ROI?



❖ ROI = Value or Benefit of Investment / Initial Cost



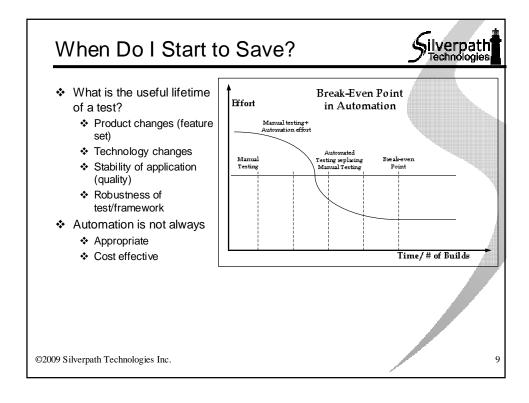


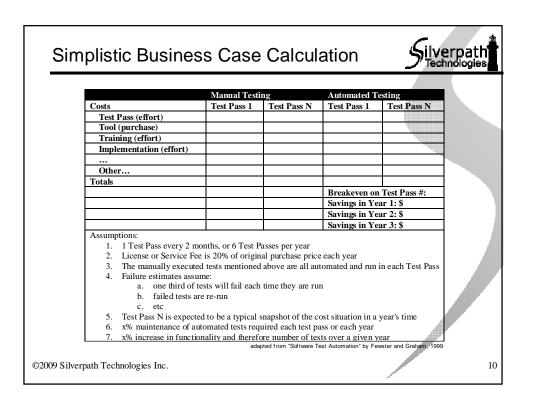


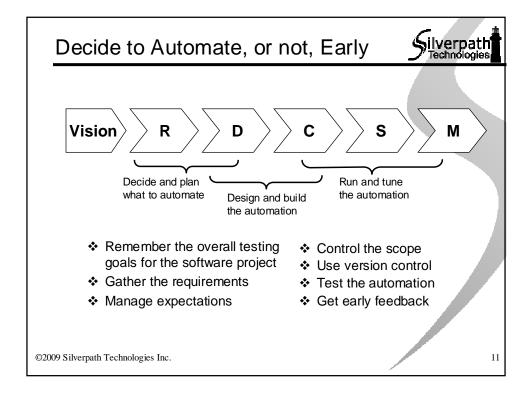
- ❖ Depends on:
  - Goals / objectives for automating
  - Value automation provides to overall testing effort
  - ❖ Each type of automation has its own unique return
  - Both tangible and intangible benefits

©2009 Silverpath Technologies Inc.

8







## Thinking Through Testing™



- Silverpath is founded on the principle vision of providing high value to software companies by raising the quality of their software systems and teams while simultaneously driving down the total costs to achieve that quality.
- Silverpath's approach of Thinking Through Testing:
  - Is risk-driven, ROI-centric
  - Enables early feedback on quality
  - Executes the right testing at the right time
- Leverages standardized light-weight practices
- Conducts in-parallel test activities
- Maximizes reusability
- Working together, we obtain the practical results needed from the optimal balance of quality requirements, scope of effort, and project constraints and thereby achieve the greatest return on investment.

Thinking

Visit http://www.silverpath.com

Through

Testing

12

©2009 Silverpath Technologies Inc.