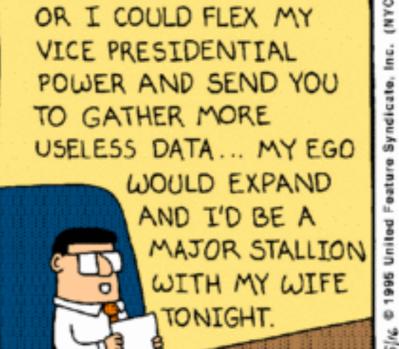


Test Automation in Brownfield Applications

My name is Shawn and I'm a software developer

A programmer is going out for a stroll one evening. His wife asks him to swing by the store and pick up a gallon of milk, and if they had eggs, to get a dozen. He returned with twelve gallons of milk and said "They had eggs."



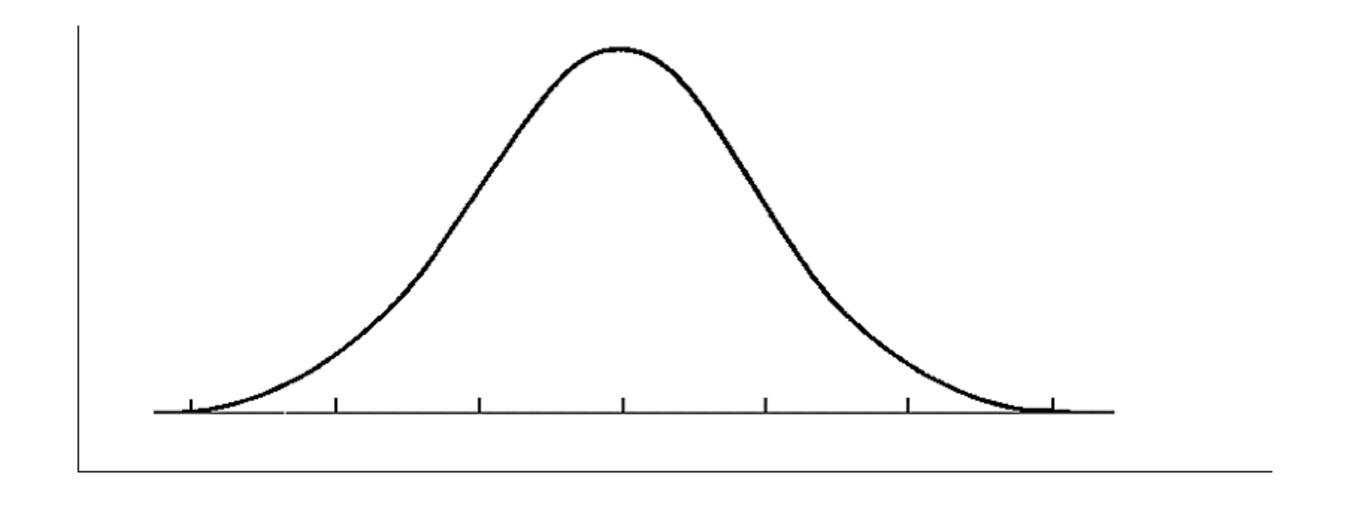


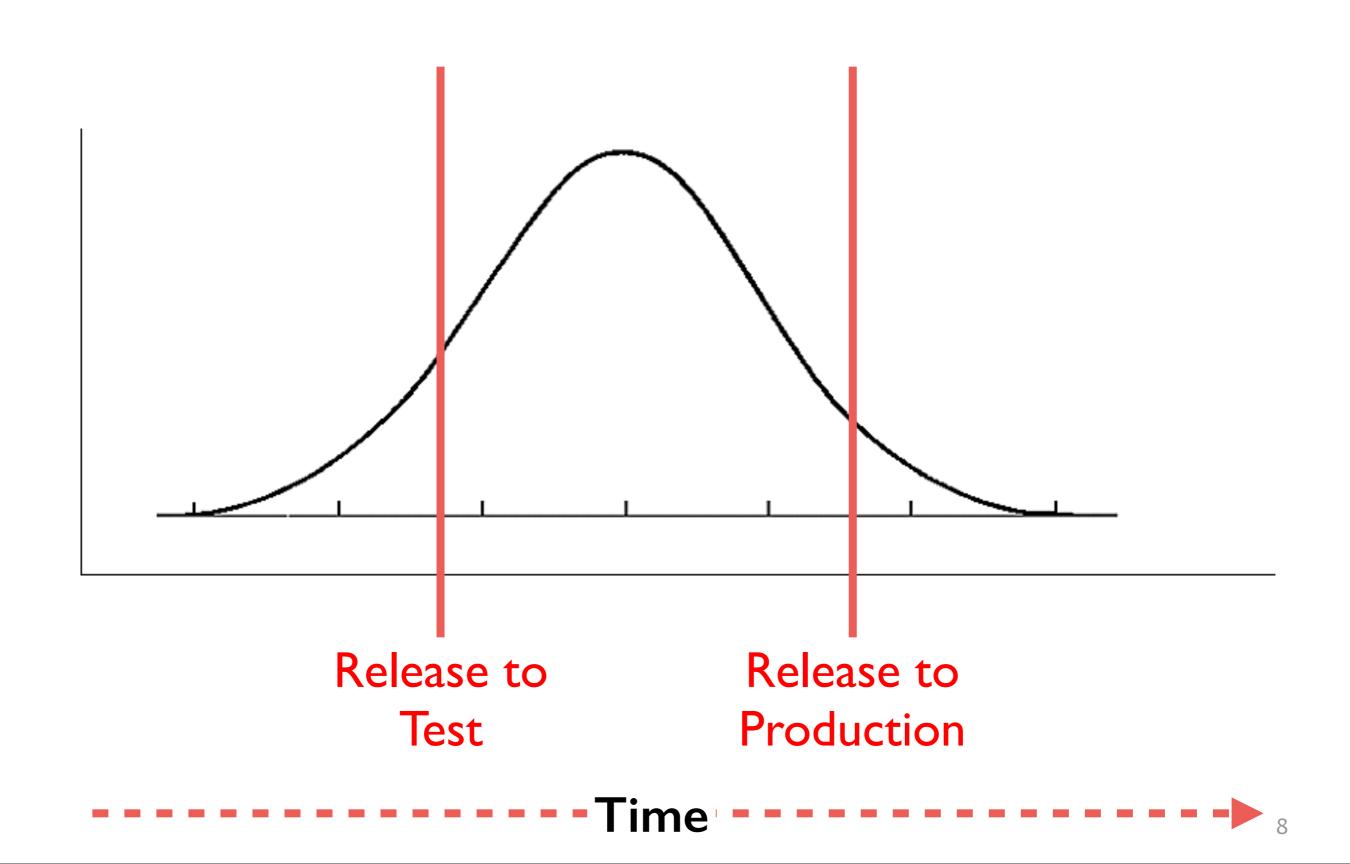


Our existences are about precise communication

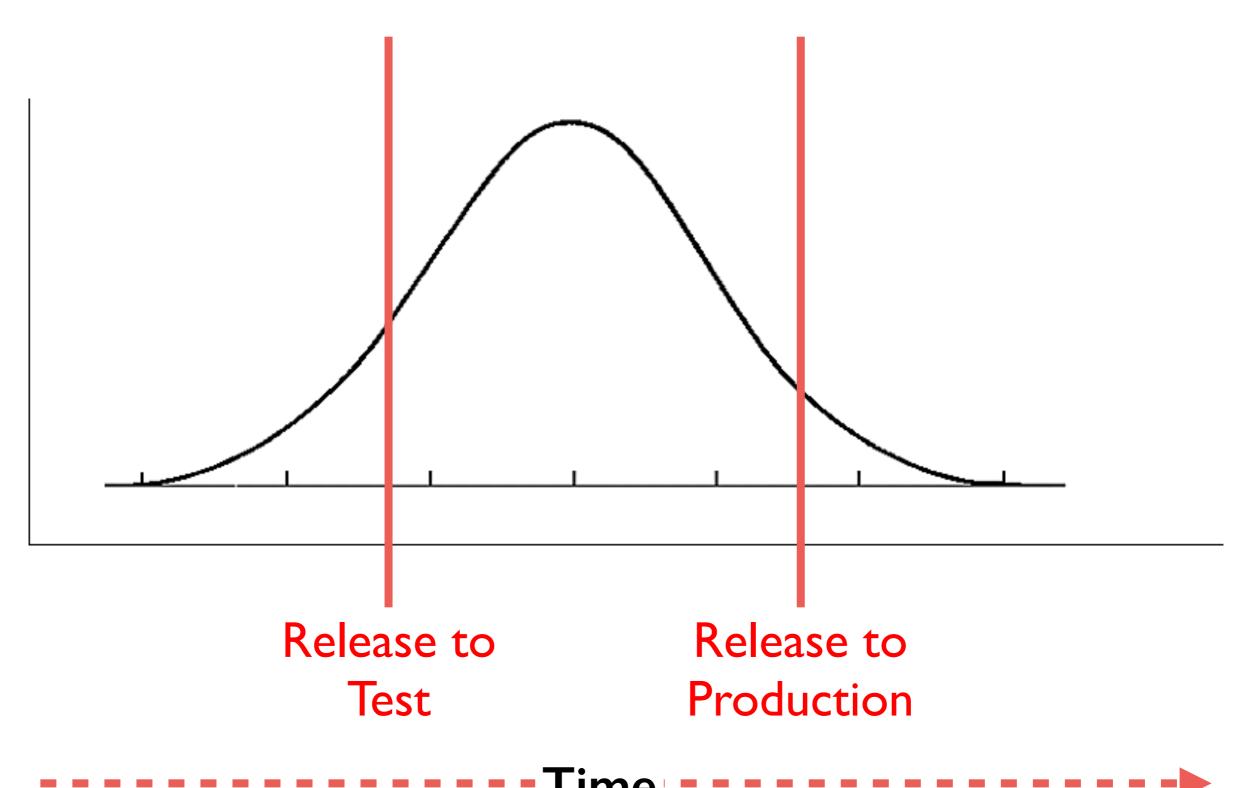
Our existences are about precise communication...and communication is about feedback loops

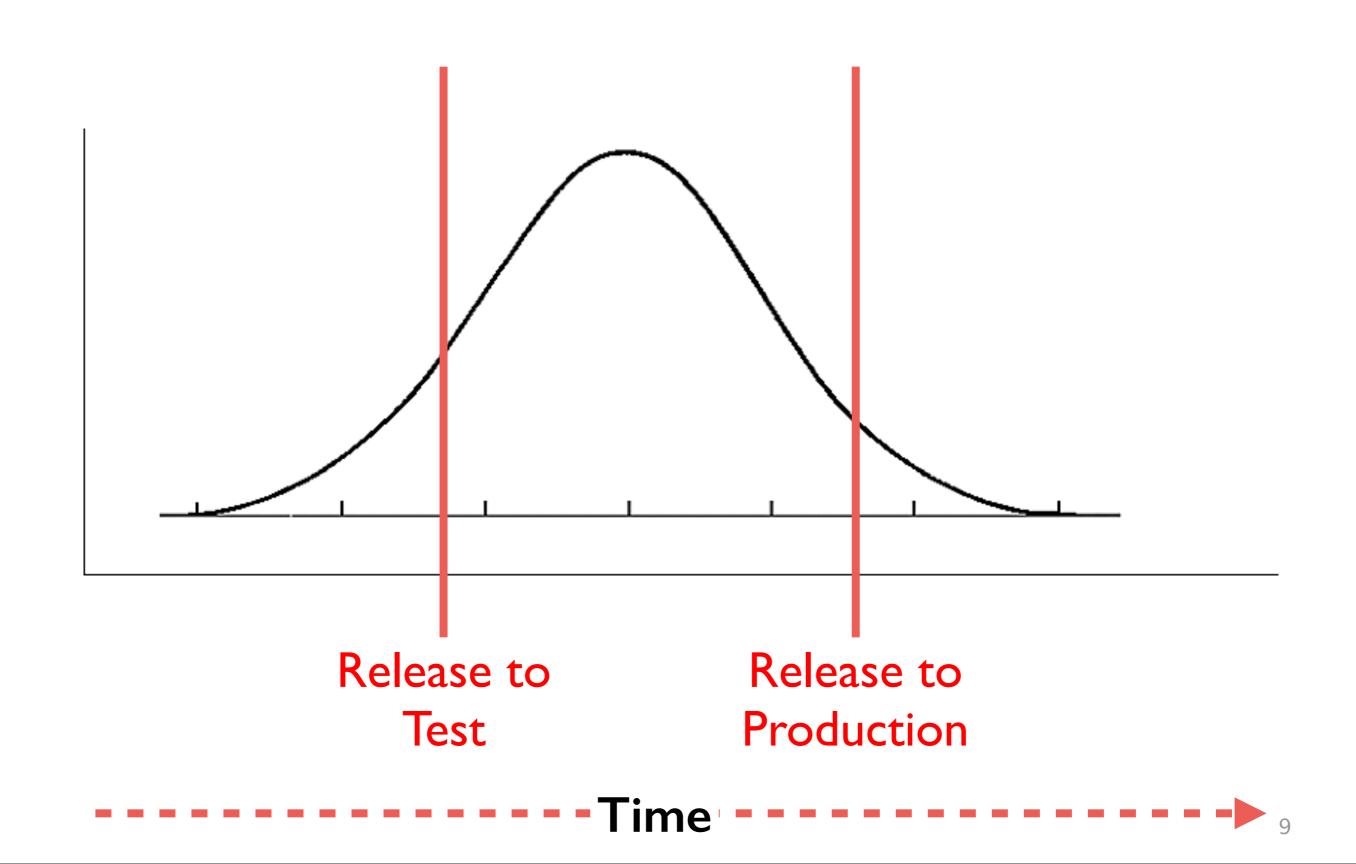


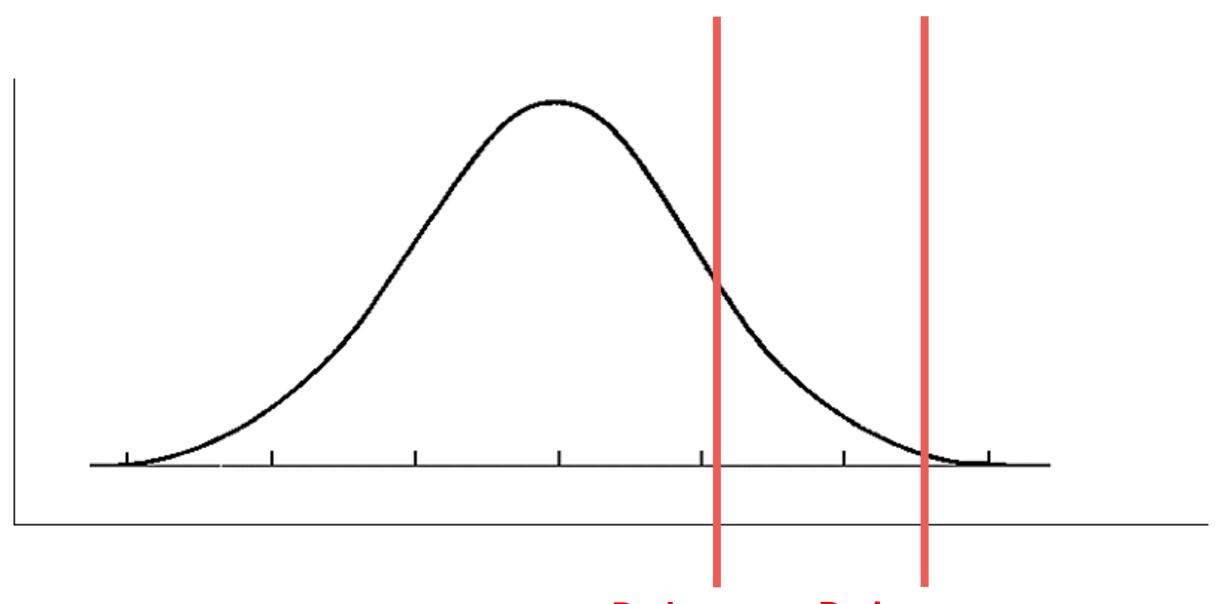




Late Defect Discovery Results in Significant Rework

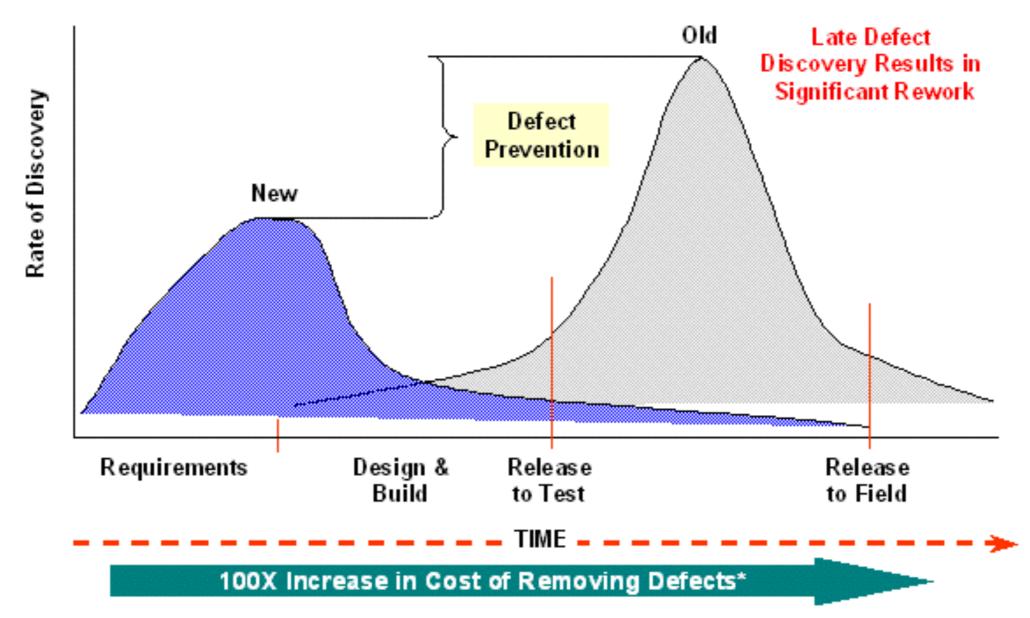






Release to Release to Test Production

Let's shift the focus from Bug detection to bug prevention.



Source*: Boiehm, Barry. Software Engineering Economics. Englewood Cliffs, NJ: Prentice-Hall, Inc. 1981. Boiehm, Basili. "Software Management." IEEE Computer, January 2001.

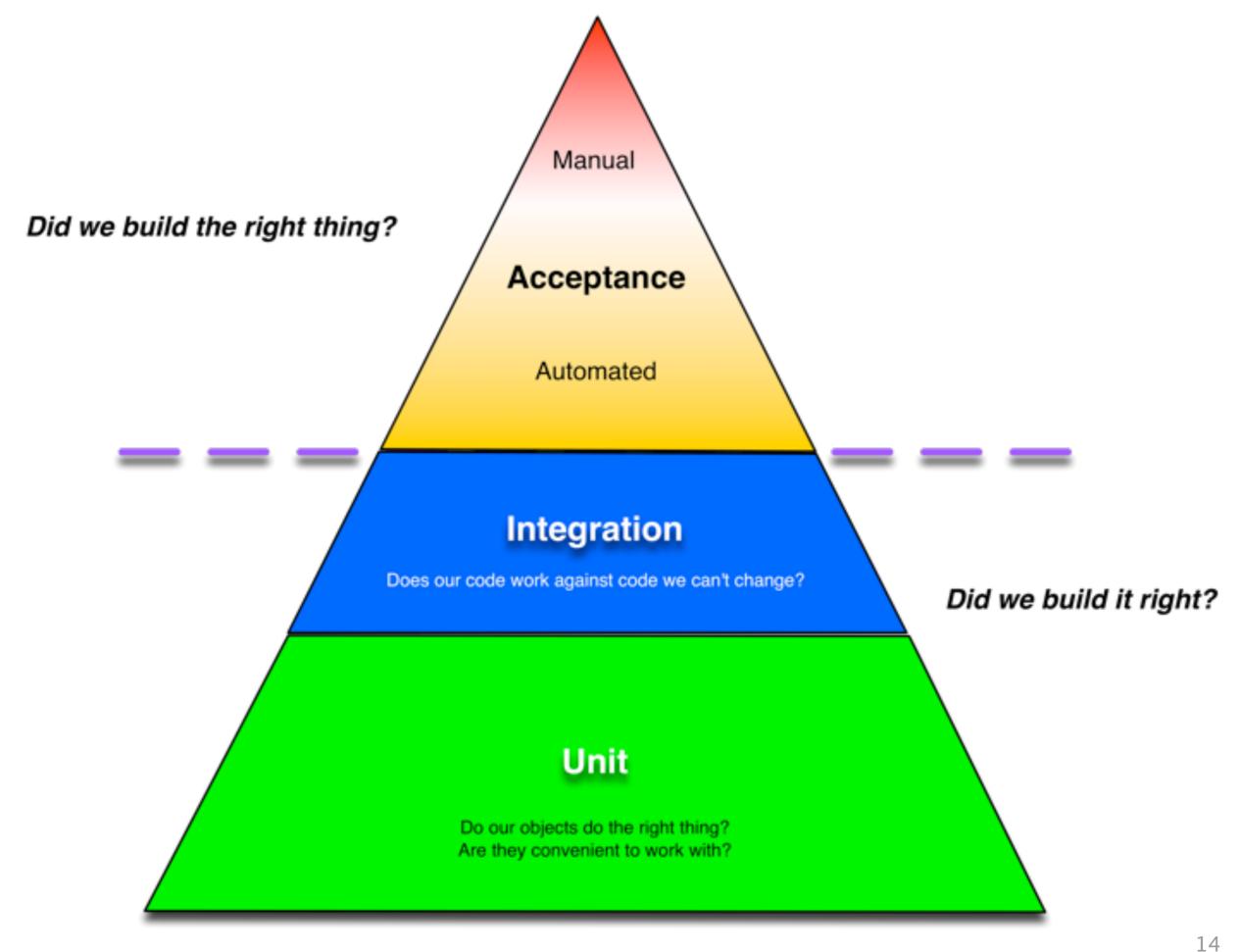
http://www.isixsigma.com/industries/software-it/software-defectprevention-nutshell/

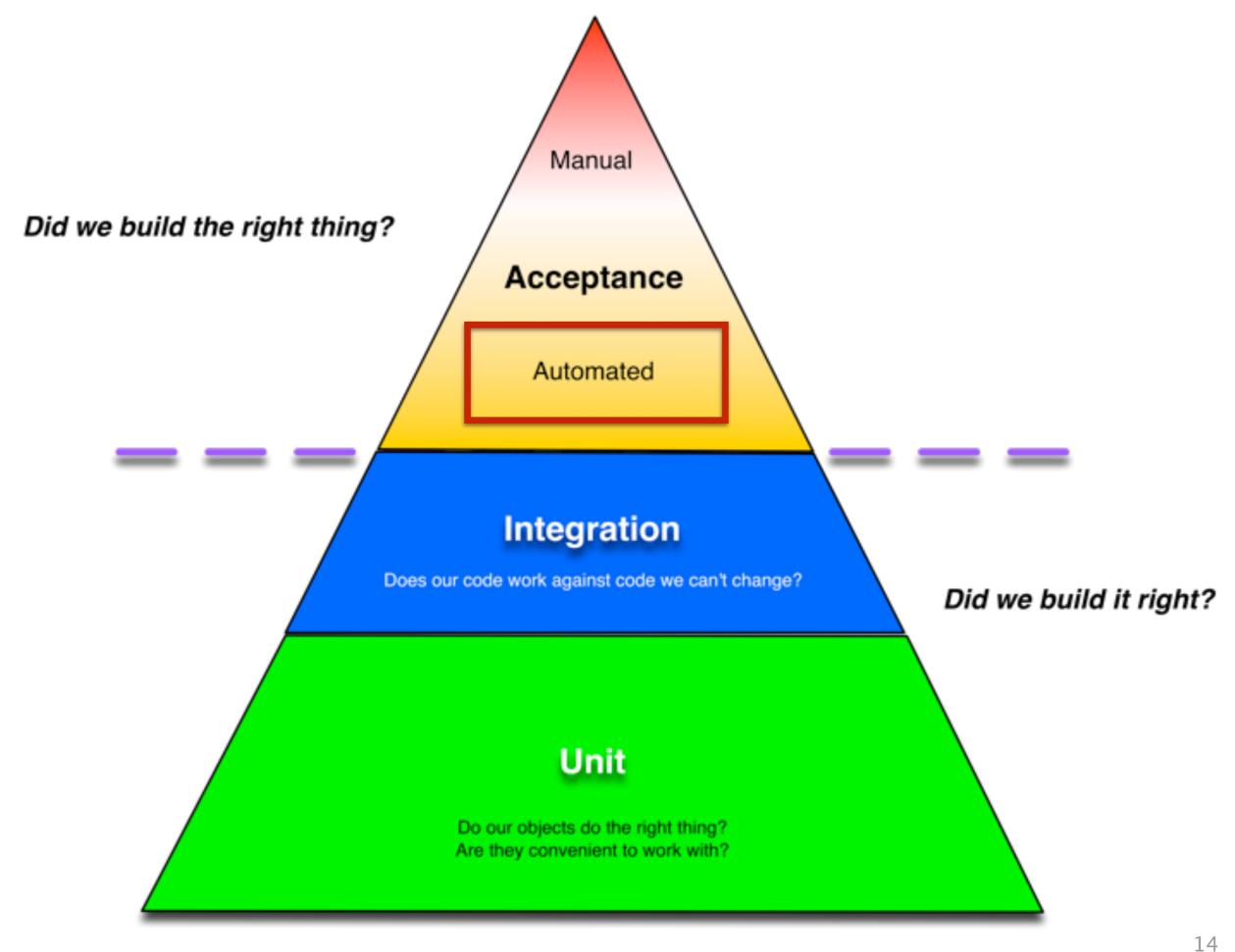
Functional Acceptance Test Automation

- Implementing changes more efficiently
- Shortened feedback loop
- Higher product quality
- Less rework
- Better work alignment to priority
- Helps make systems easier to modify
- Regression

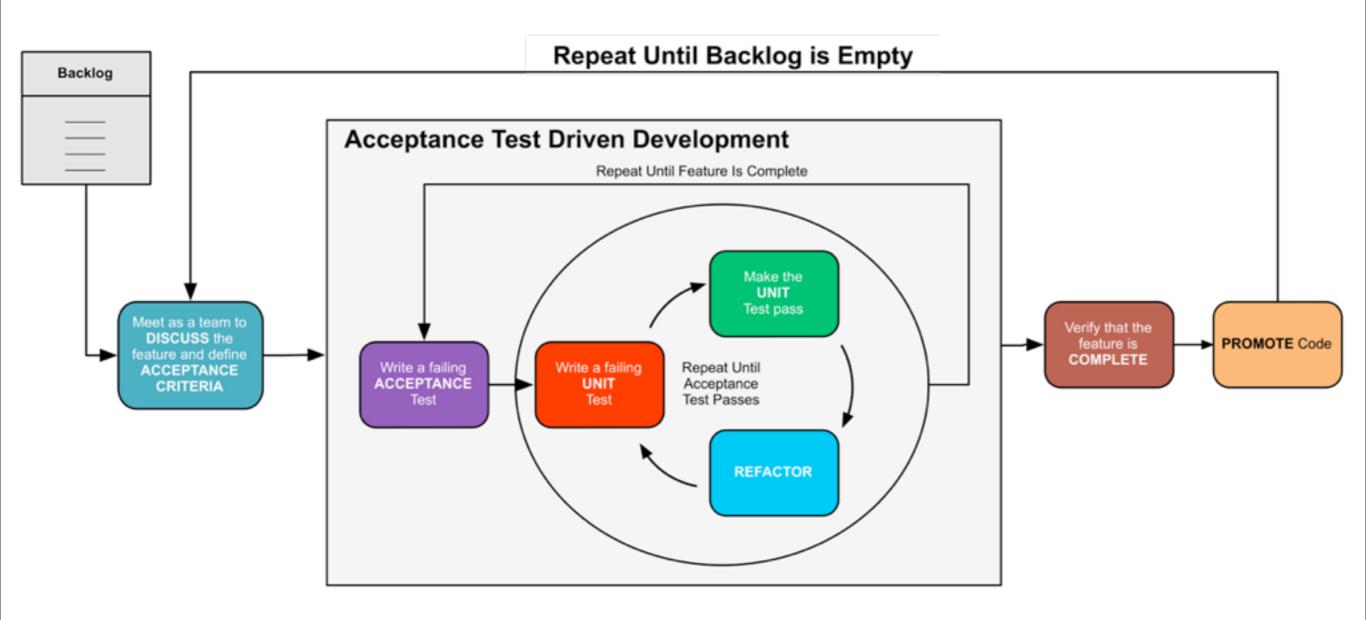
Functional Acceptance Test Automation

- Implementing changes more efficiently
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Workflow





Can we benefit?

Can we benefit?

We **can** improve our system going forward

The goal is building quality systems that provide value

Test KEY use cases

Test KEY use cases

Test defects

Test KEY use cases

Test defects

Test new features



KEEP CALM HERE DRAGONS



Your application might be hard to test



There are engineering challenges



There are infrastructure challenges



How will you deal with the new volume of data?



How will you deal with the new volume of data?

Test automation generates TONS of data, some good some bad, all must be processed.



How do we know if we're doing a good job?



Meaningful code coverage is hard.



- Your code might be hard to test
- There are engineering challenges
- There are infrastructure challenges
- If a goal is a shortened feedback loop, how will you deal with the new volume of data?
- How do we know if we're doing a good job?
- Meaningful code coverage is a challenge.



Shawn Wallace

shawn.wallace@centricconsulting.com

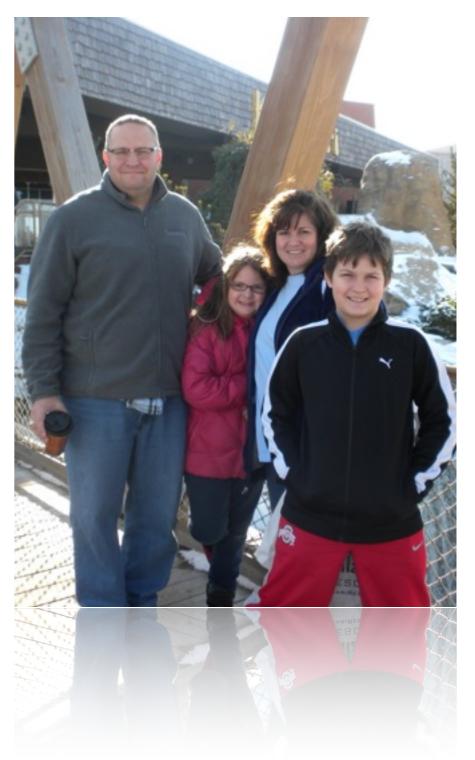
Twitter: @ShawnWallace

Blog: blog.shawnewallace.com

http://www.about.me/shawnwallace







Q&A For more information...

- This Presentation on GitHub https://github.com/shawnewallace/intro-to-atdd.git
- cukes.info
- Gojko Adzic
 - cuke4ninja.com
 - Specification by Example
- https://github.com/aslakhellesoy/cucumber/wiki
- http://groups.google.com/group/cukes
- http://www.cheezyworld.com
- The Cucumber Book, Matt Wayne, Aslak Hellesøy: http://pragprog.com/book/hwcuc/the-cucumber-book
- The Rspec Book, David Chelimsky: http://www.pragprog.com/titles/achbd/the-rspec-book
- http://simpleprogrammer.com/2011/11/21/ understanding-the-vertical-slice/
- http://www.deltamatrix.com/2012-04-17-04-37-50/ horizontal-and-vertical-user-stories-slicing-the-cake