

When Agile Becomes a Quality Game Changer; What Data Says from Recent Agile Benchmark Research



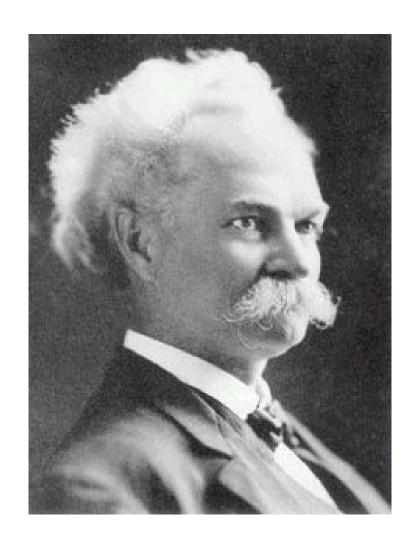
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"Frothy
eloquence
neither
convinces nor
satisfies me.
I'm from
Missouri, and
you have got to
show me."



Background

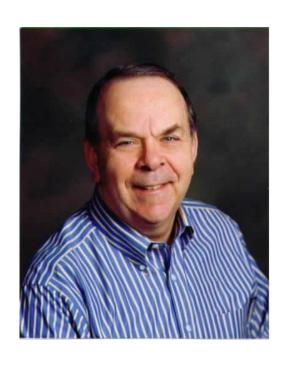


"Agile projects can be considered more successful in the sense that they deliver more functionality with fewer defects."

- Kent Beck



Background



"We don't need no stinking metrics"

- Jim Highsmith



"Without metrics, you're just someone with another opinion"

- Michael Mah

















and featuring: THE PATH TO

Craftsmanship













The QSM SLIM Database

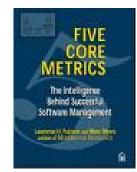
QSM maintains the world's largest benchmarking database of 10,000+ completed software projects collected worldwide. We put industry productivity statistics on the desktop.

The QSM SLIM database contains projects in all industries, waterfall, Agile, offshore/outsourced, inhouse, new development, and maintenance.

SLIM tools enable managers to measure and estimate Agile and/or waterfall projects, and determine ROI.









The QSM SLIM Database

British Telecom Fiserv Corp

SAP IBM Global

Microsoft Misys Healthcare

Intel JPMorganChase

AT&T/BellSouth Boeing

Nationwide Bank of New York Mellon

Motorola Lockheed Martin

VerizonWireless Progressive Insurance

Roche Diagnostics DirecTV

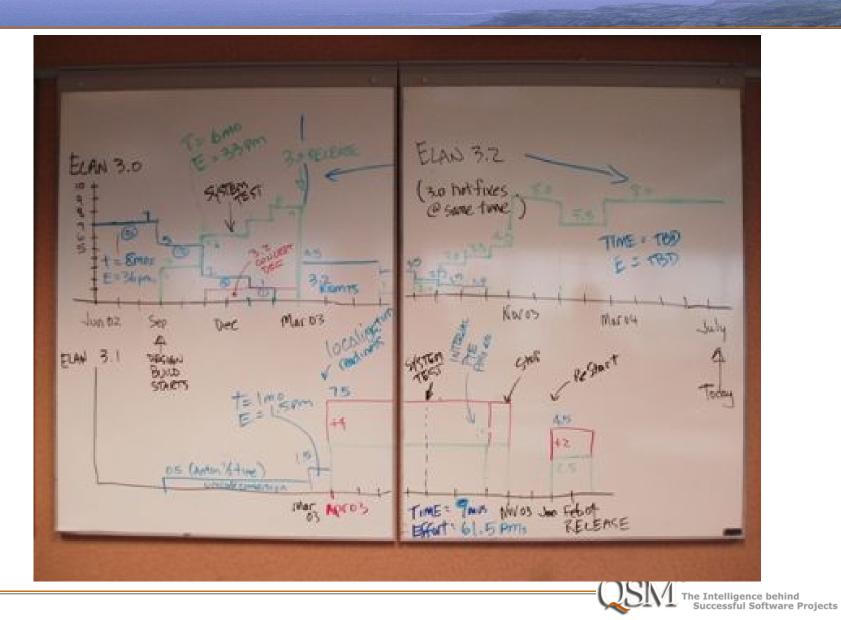




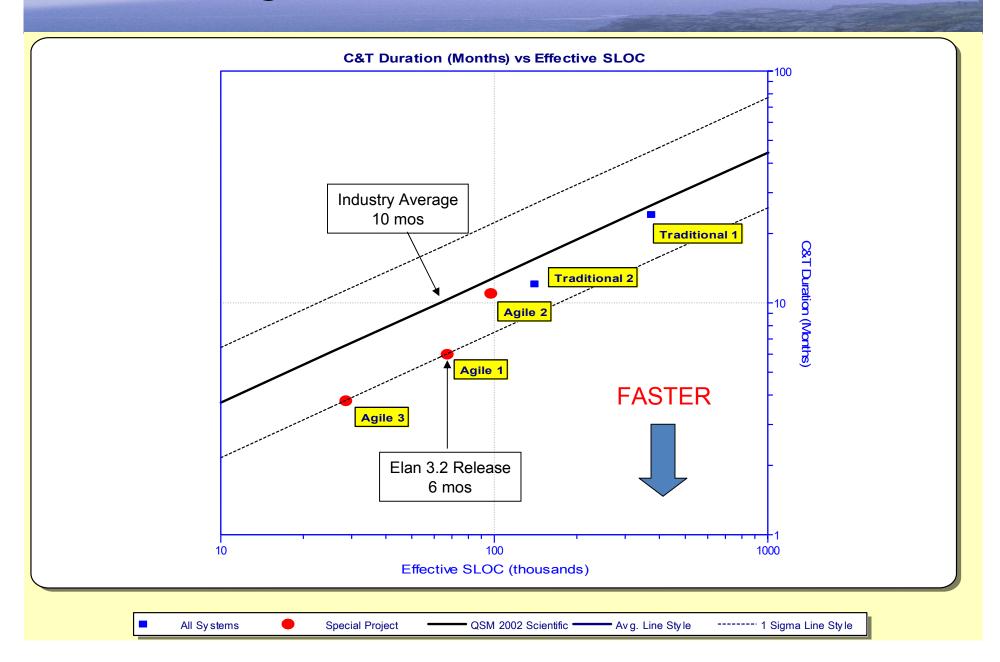




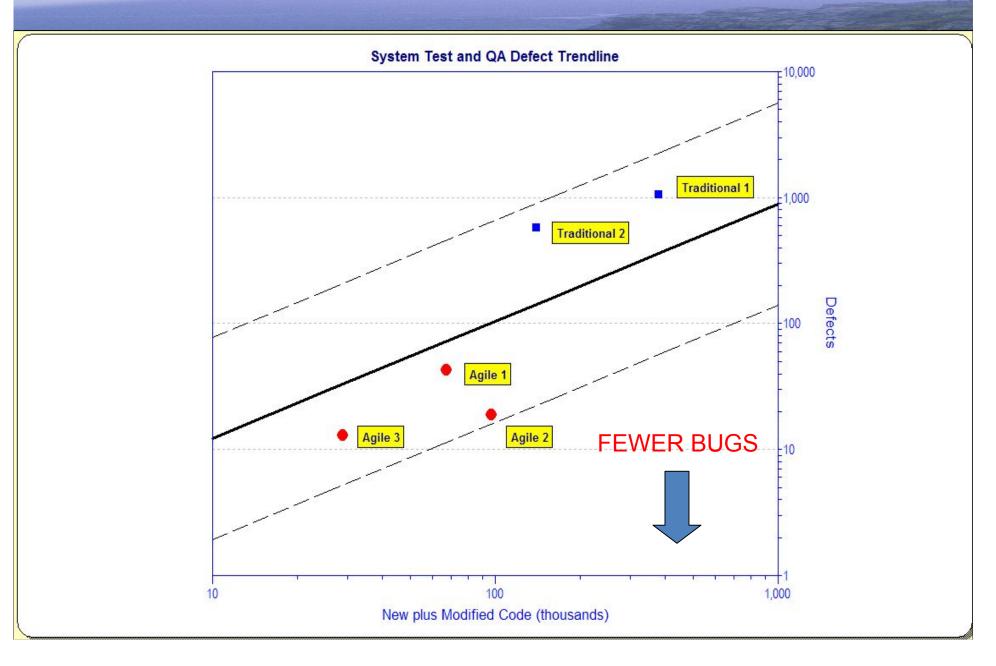
Agile Metrics Capture – Velocity etc.



Agile vs Waterfall - Schedule



Agile vs Waterfall - Quality



This Data Says: Kent was CORRECT



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Software Vision



- People buy our product because of the software!
- Our software products help our customers do their work better than our competitors
- The software component of our product suite will become a significant positive differentiator in the marketplace
- The quality of our software products will give us a competitive advantage in the marketplace

Case Study: Co-Located XP - Follett Software

Team size

- 24 Developers
- 7 Testers
- 3 Customers
- 3 Project Leaders

Code Base

- 1,000,000 lines of code
- 7,000 automated unit test
- 10,000 automated acceptance test





Robert Lucas - Nobel in Economics

The force of concentration, or "clustering" of human creativity and talent... the powerful (economic) gains that come when smart and talented people (co-)locate in close proximity to one another...

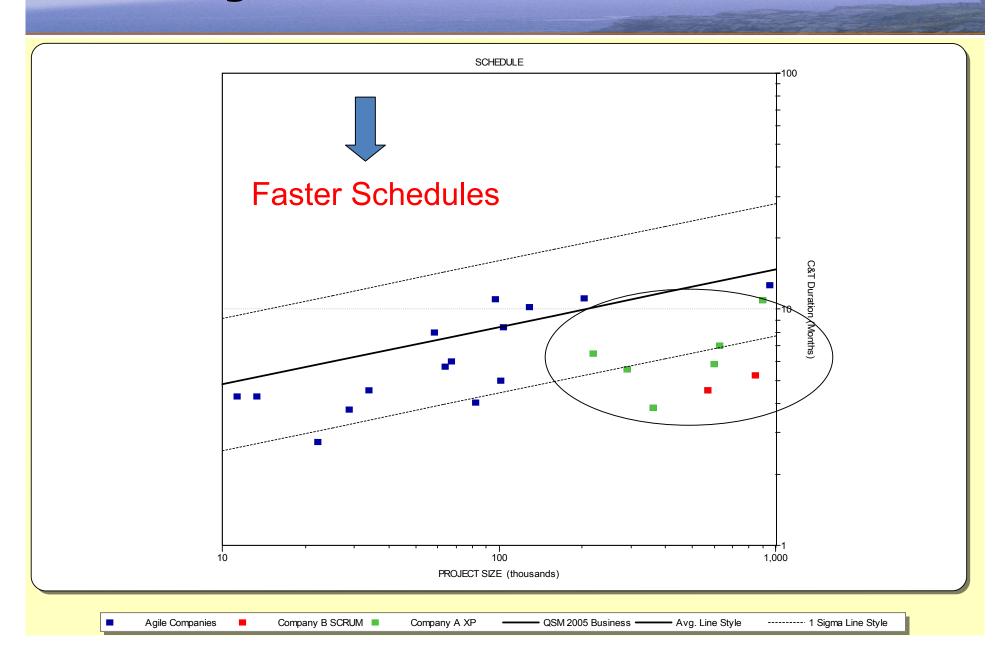


Distributed SCRUM - BMC Software

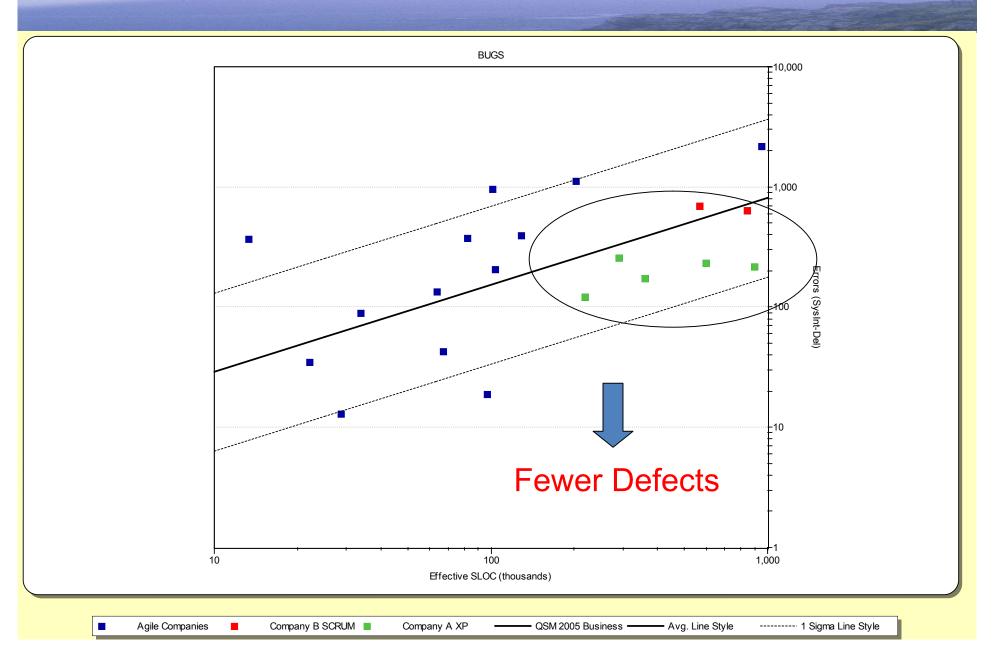


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Agile Assessment — Schedule



Agile Assessment – Quality



This Data also Says: Kent was CORRECT

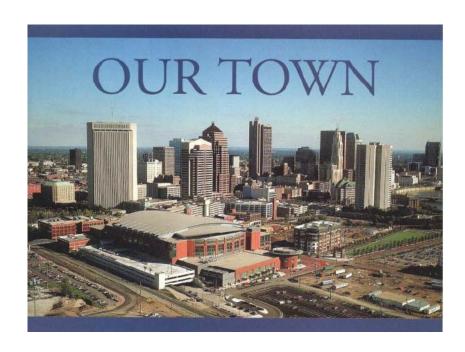


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The Columbus Agile Benchmark Study (Columbus vs the World)







Industry Data from the QSM SLIM-Metrics Database

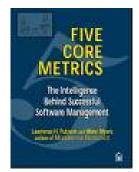
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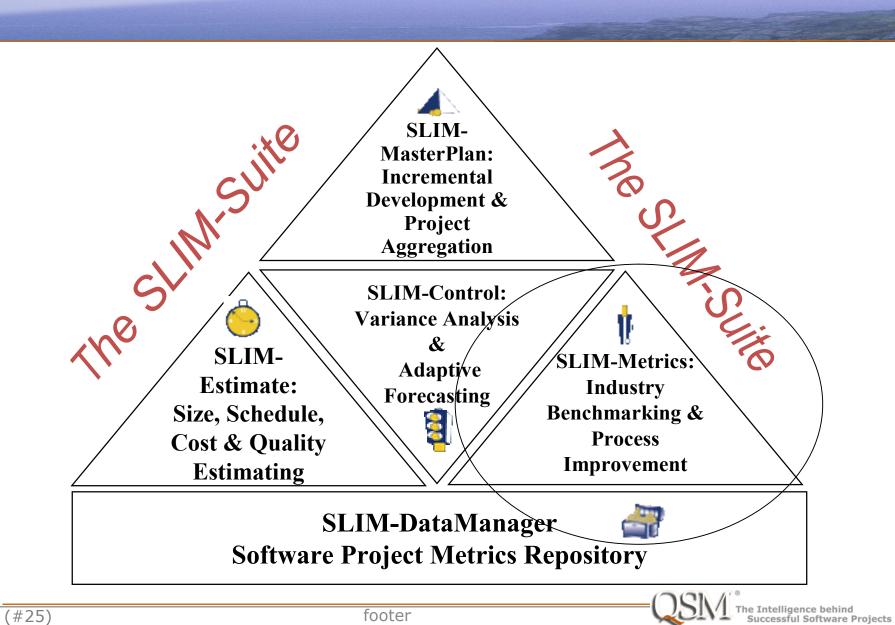
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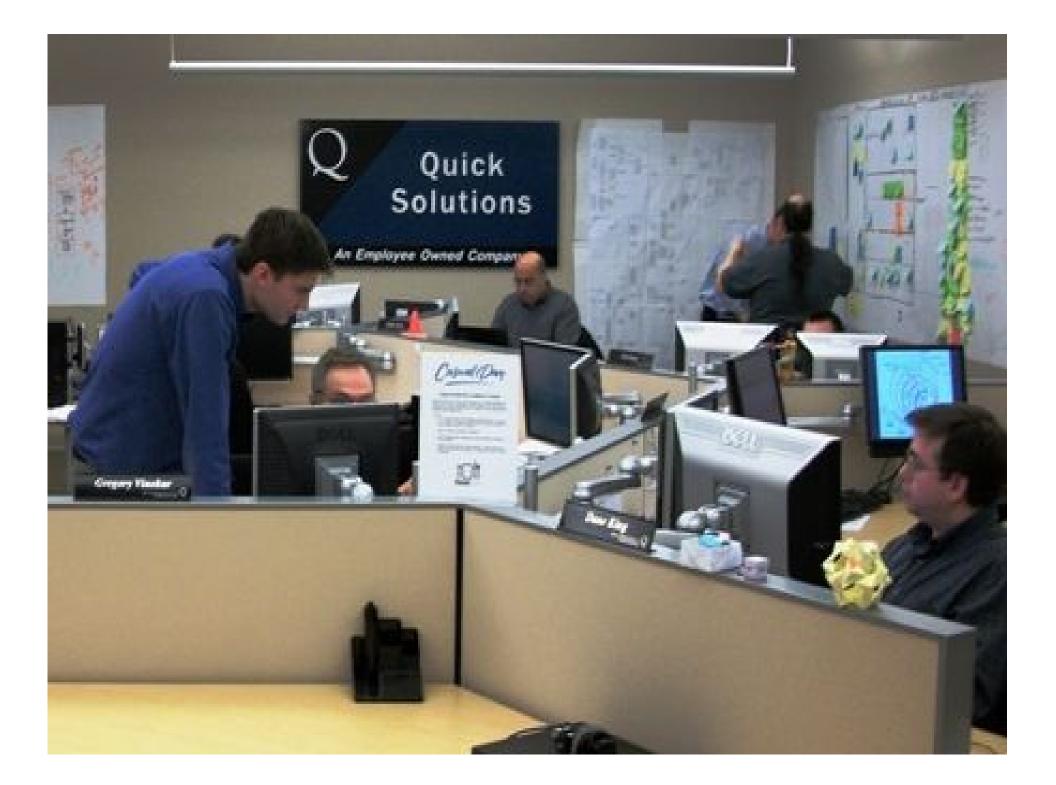
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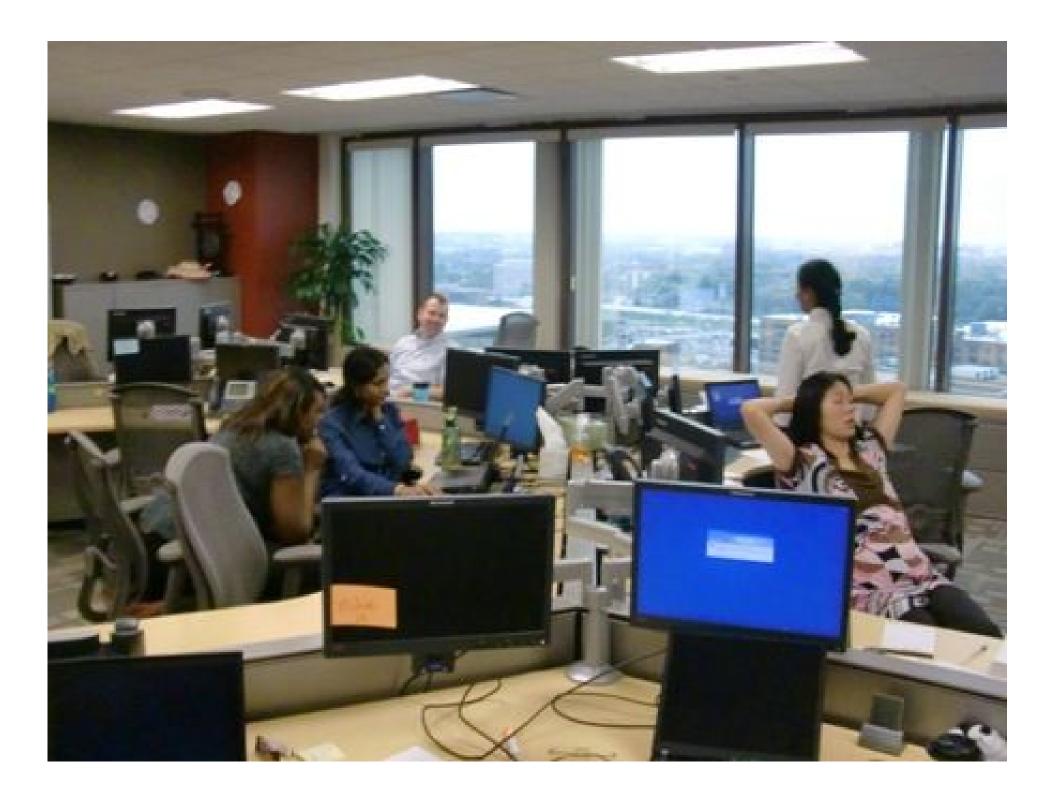




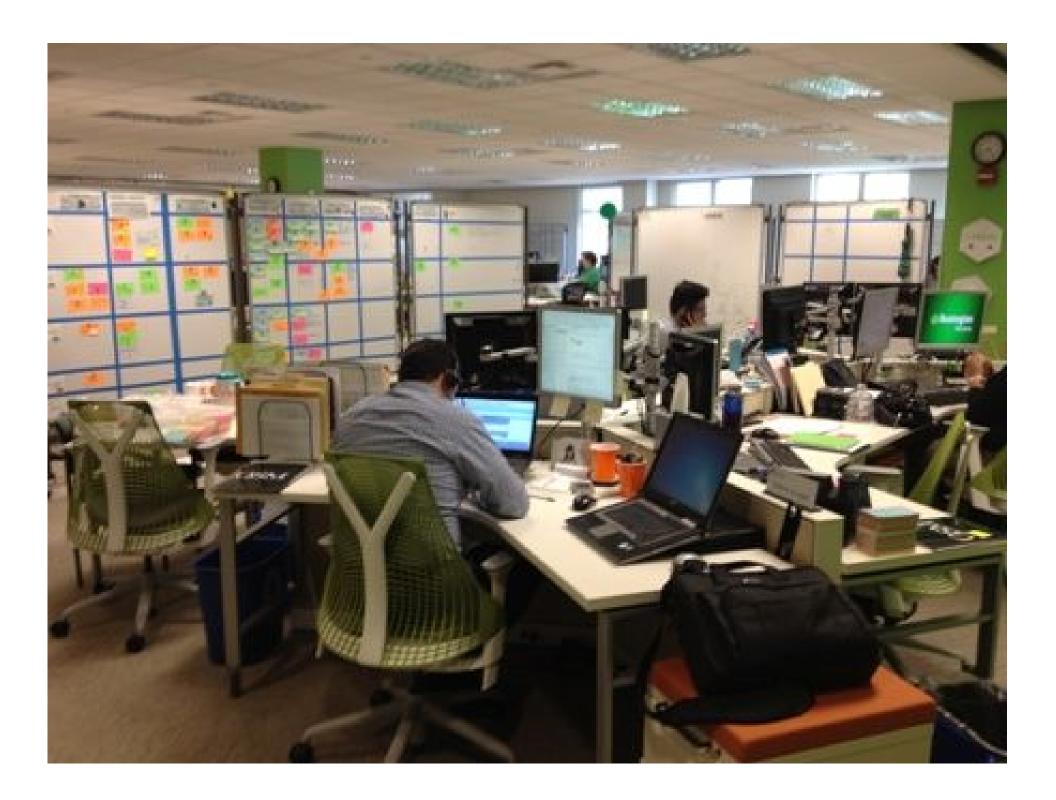




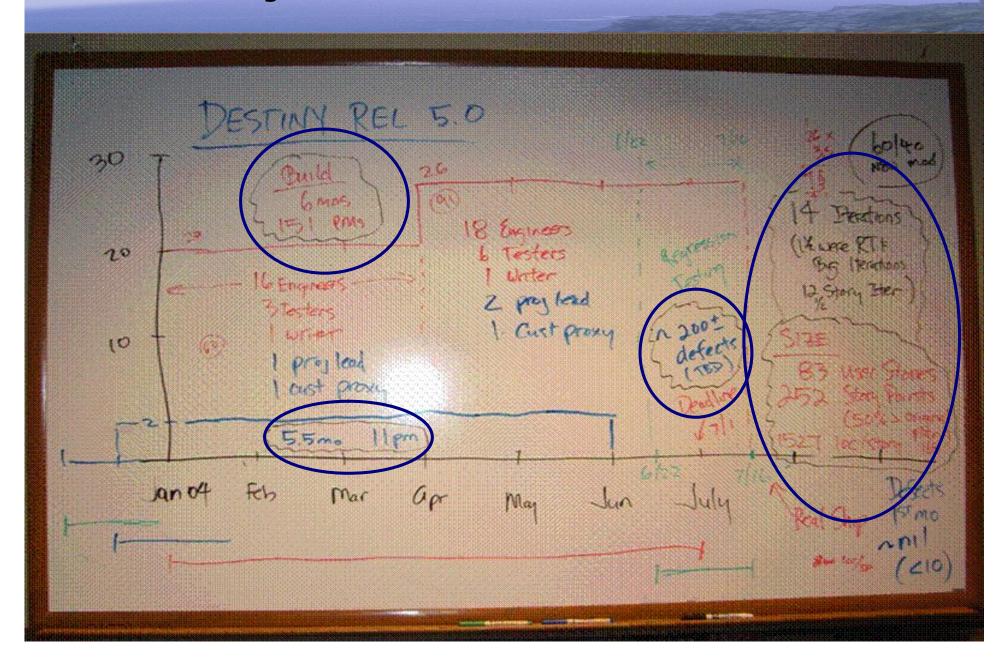




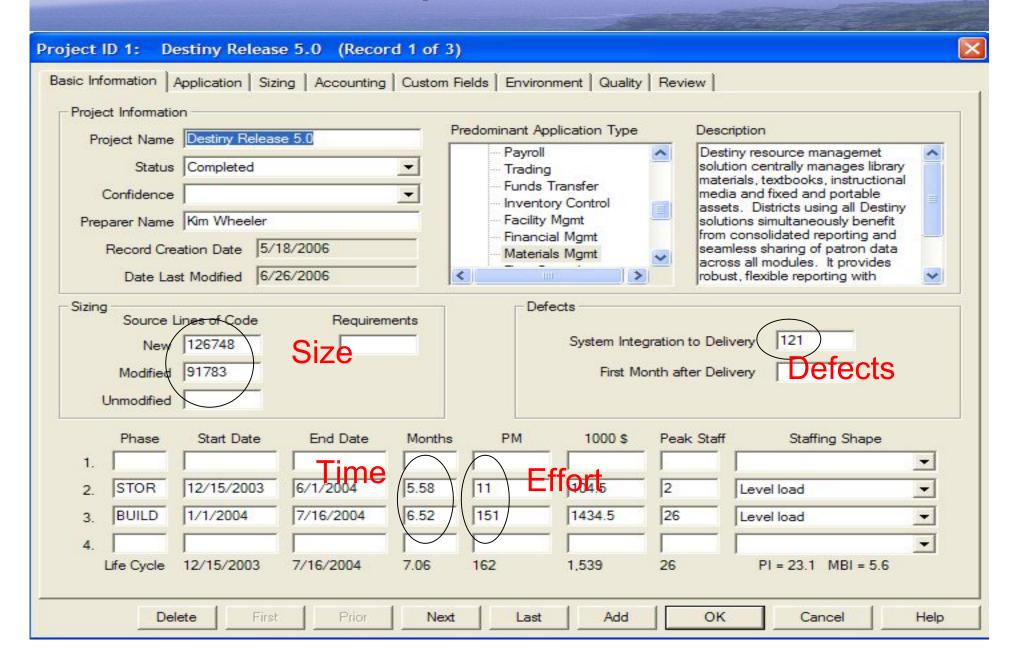




Project Sketch - Core Metrics



Input to SLIM



Agile Captures the Right Metrics for SLIM

Velocity/Burndown

Headcount

Stories and Point Sizing

Bugs









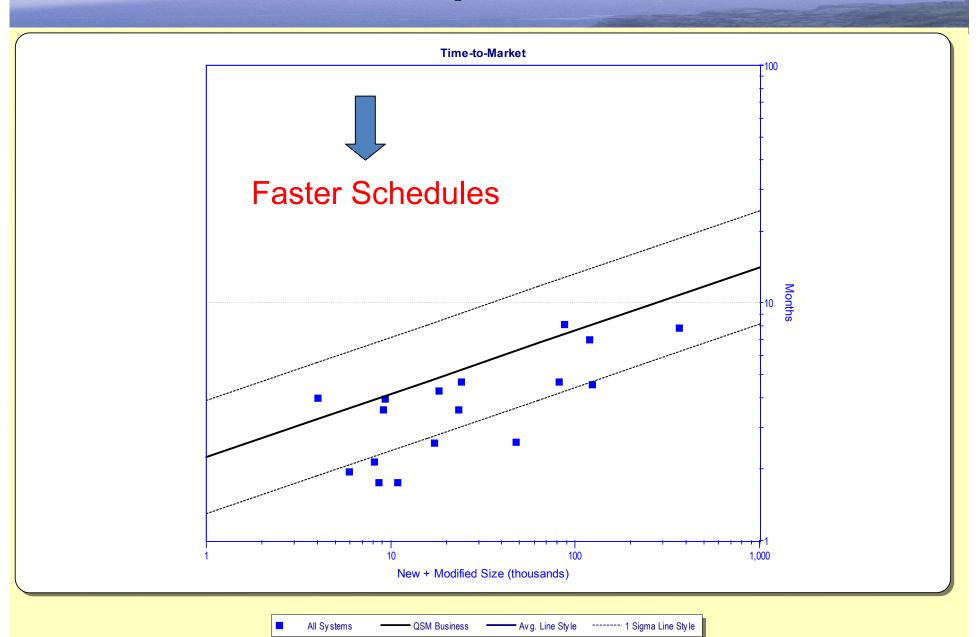


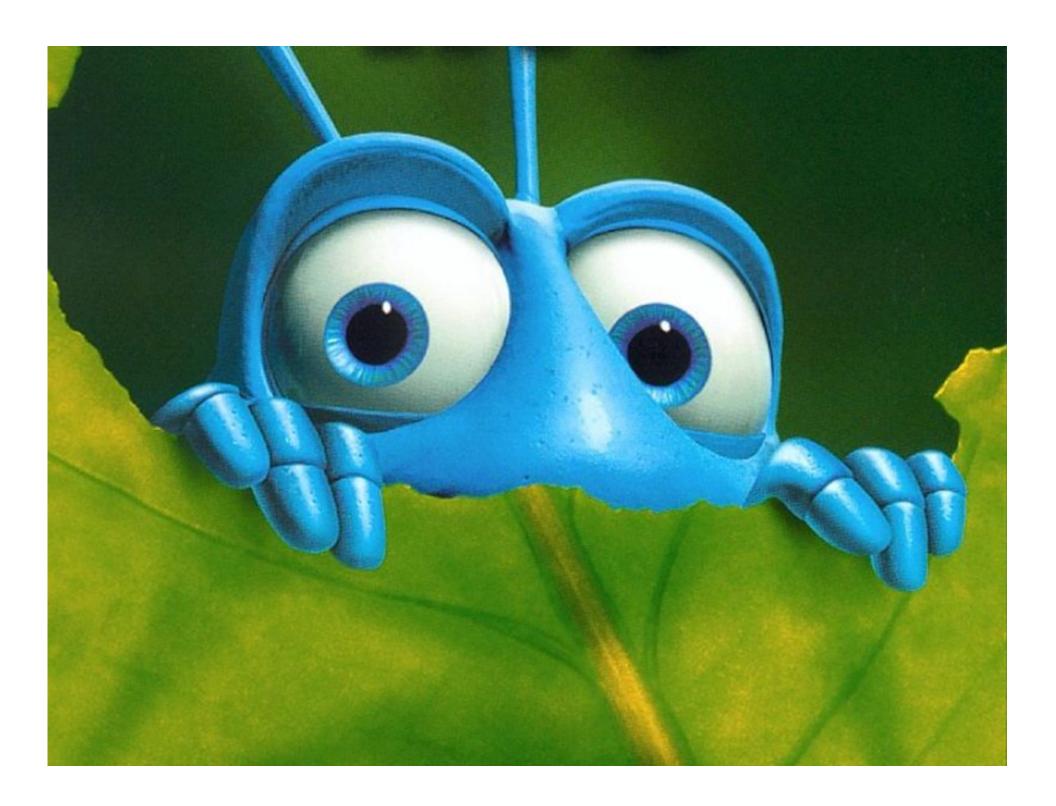
The Answer to Life, the Universe, and Everything

This is only An Initial Progress Report

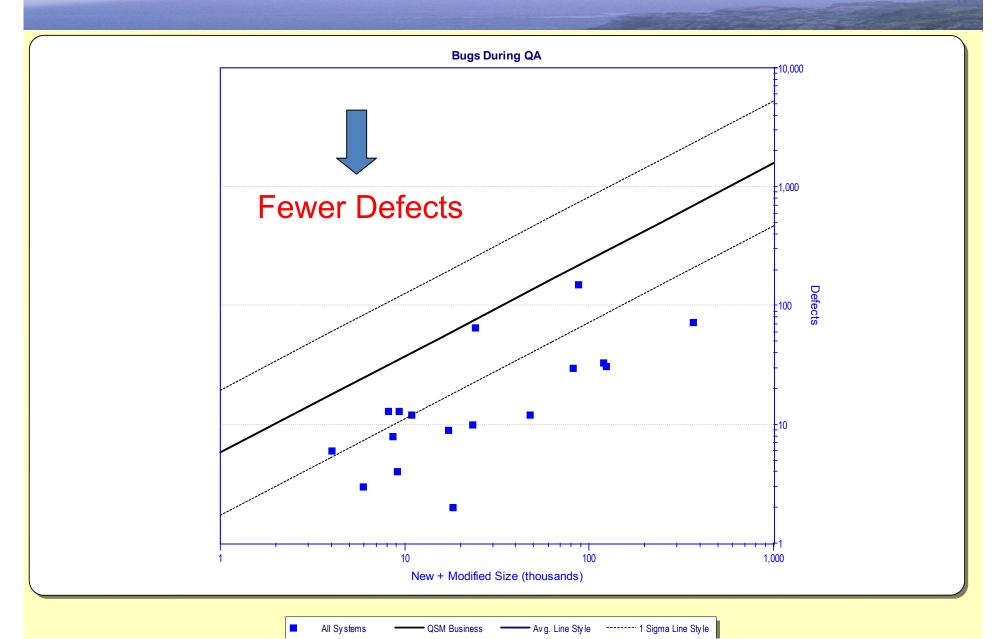


Speed





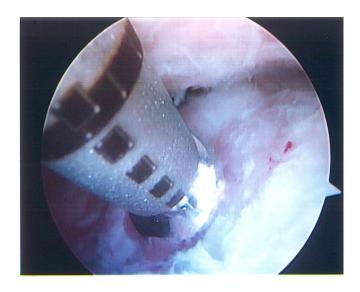
Bugs













Short Feedback Loops

Paired programmers
Instantaneous code
reviews

Accelerated learning and execution

Face to face communication channel



Domain Knowledge

Smart people,
experienced people
Coding is moving
knowledge from mind
into the machine
Inexperience costs
money





Time Boxing

Short iterations
Clear and
discernible
progress
Anticipation of the
next important
feature
Efficiency

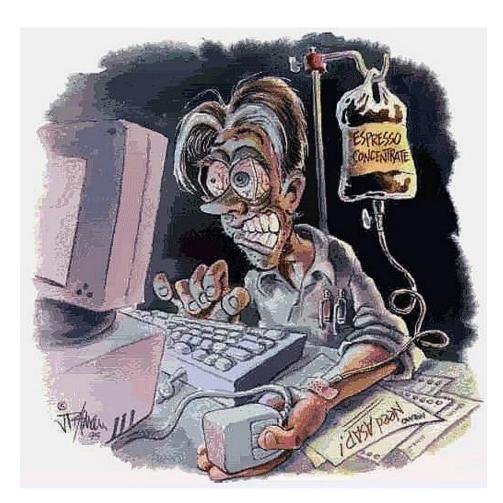


Avoiding Burnout

XP = Sustainable pace

40 Hour Work Weeks

Prevent productivity collapse for overworked teams





Craftsmanship Over Craft

Take pride in what you do
Do not compromise
 professionalism
Simple design
Upfront testing
Prevent costly rework
Build it right the first time



Transparency

"Transparency is a great floodlight. People who thrive in political maneuvering hate SCRUM..."

- Ken Schwaber



High-bandwidth Communication

The best teams have "wide-open pipes"

Domain knowledge moves among the team

Information flows rapidly and accurately



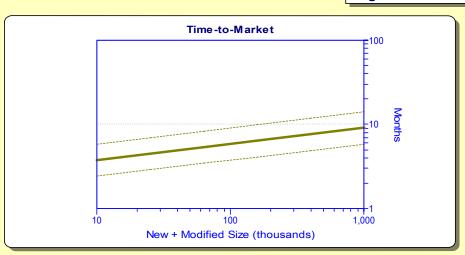


But wait, there's more...

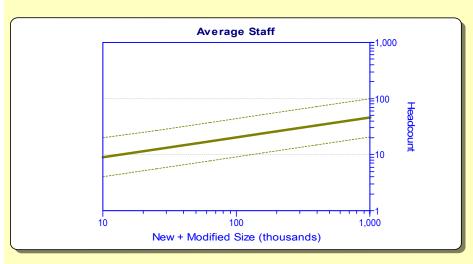


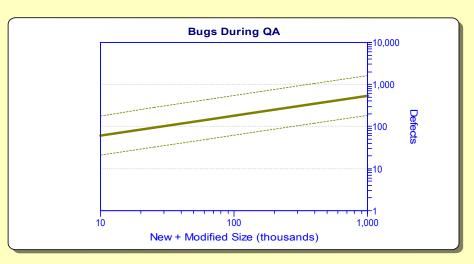
New Agile Benchmark Trends

Agile Trends - Iterations/Build Phase







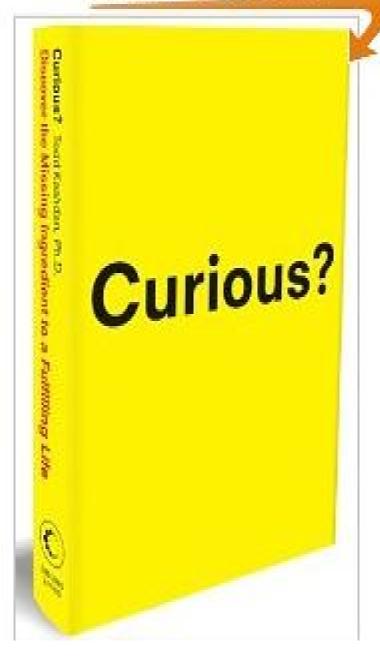


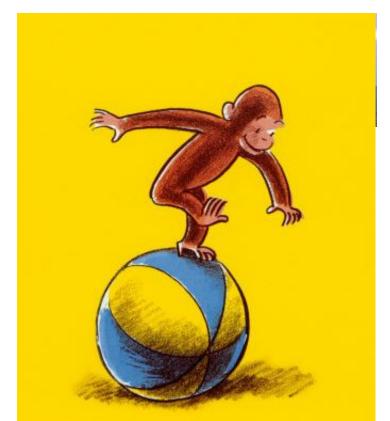
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Successful Software Projects

Click to LOOK INSIDE!

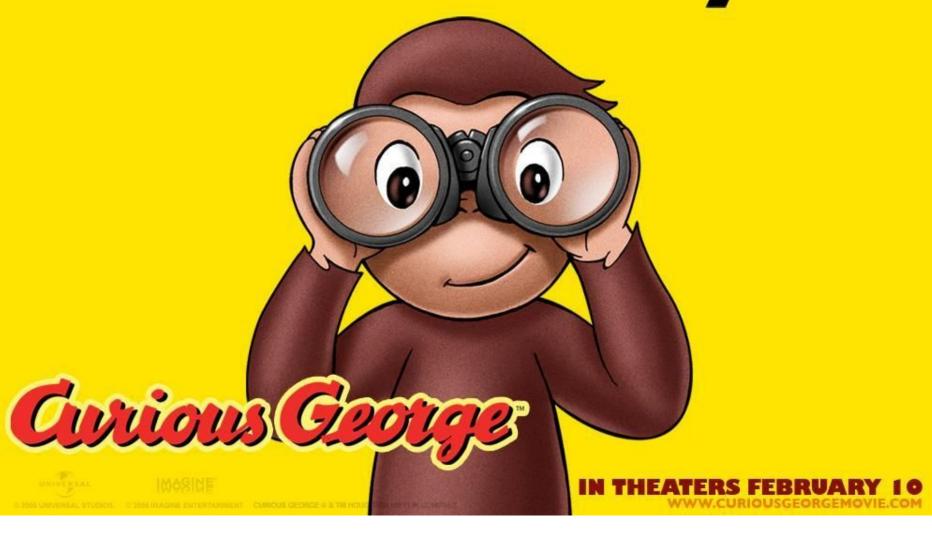






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Show Me The Monkey!



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