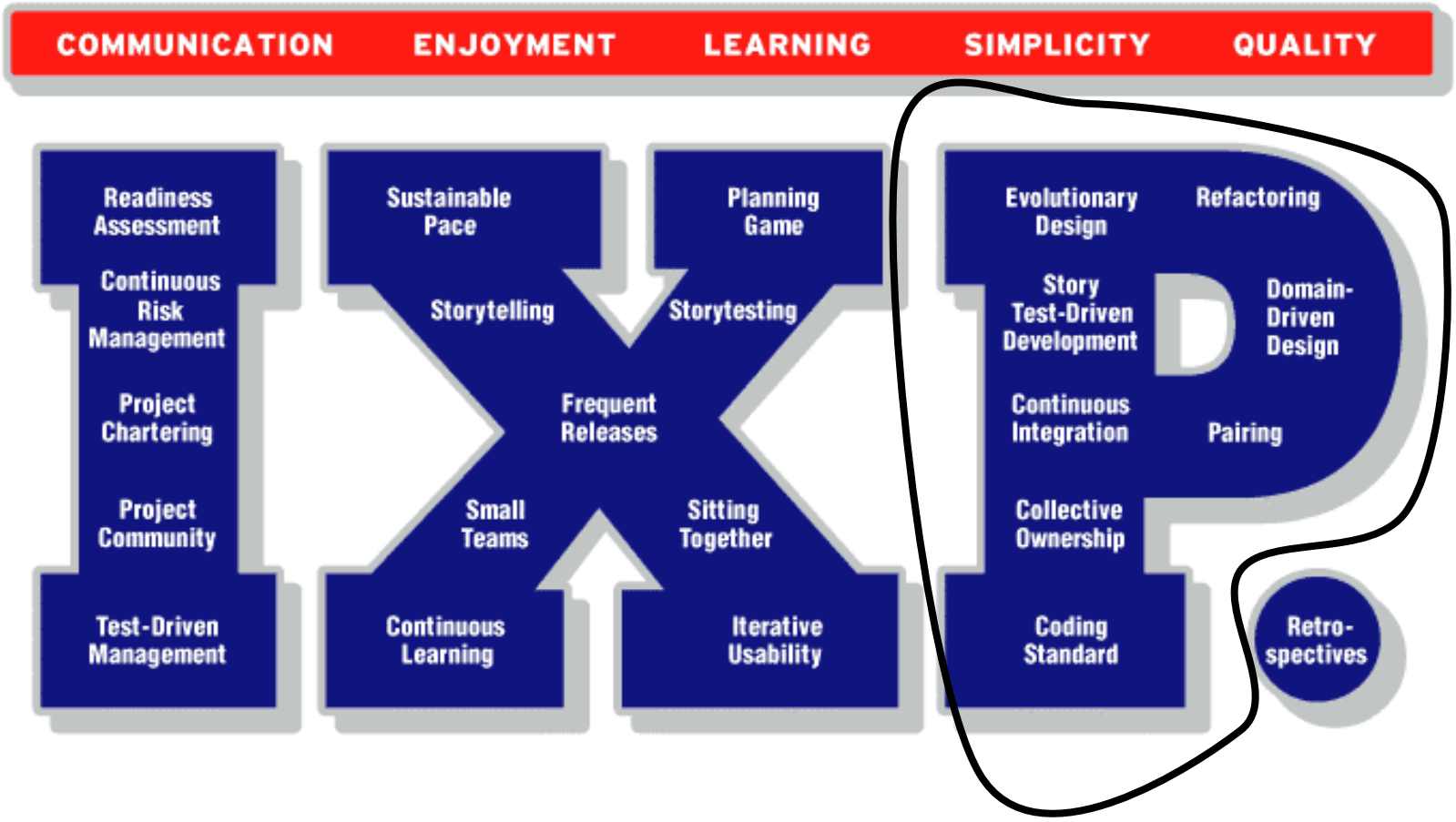
10 Tips for Successful Agile Transitions

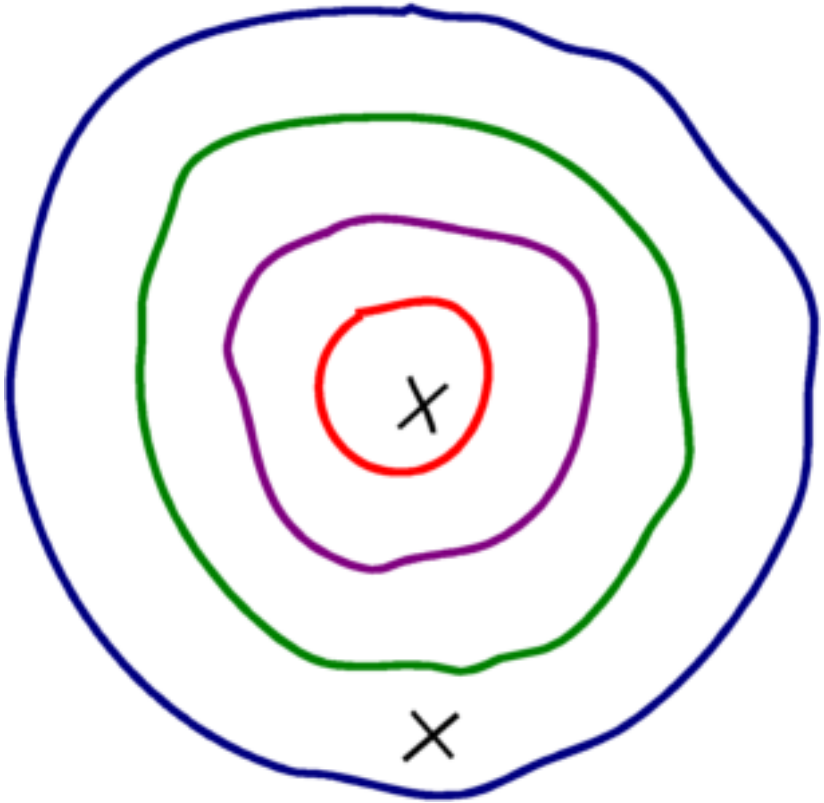
Joshua Kerievsky
joshua@industriallogic.com
QCON, San Francisco
November, 2007

Tip #1: Begin All Transitions with a Readiness Assessment


Tip #2 – Leverage
The Power Of
Non-Technical AND
Technical Practices



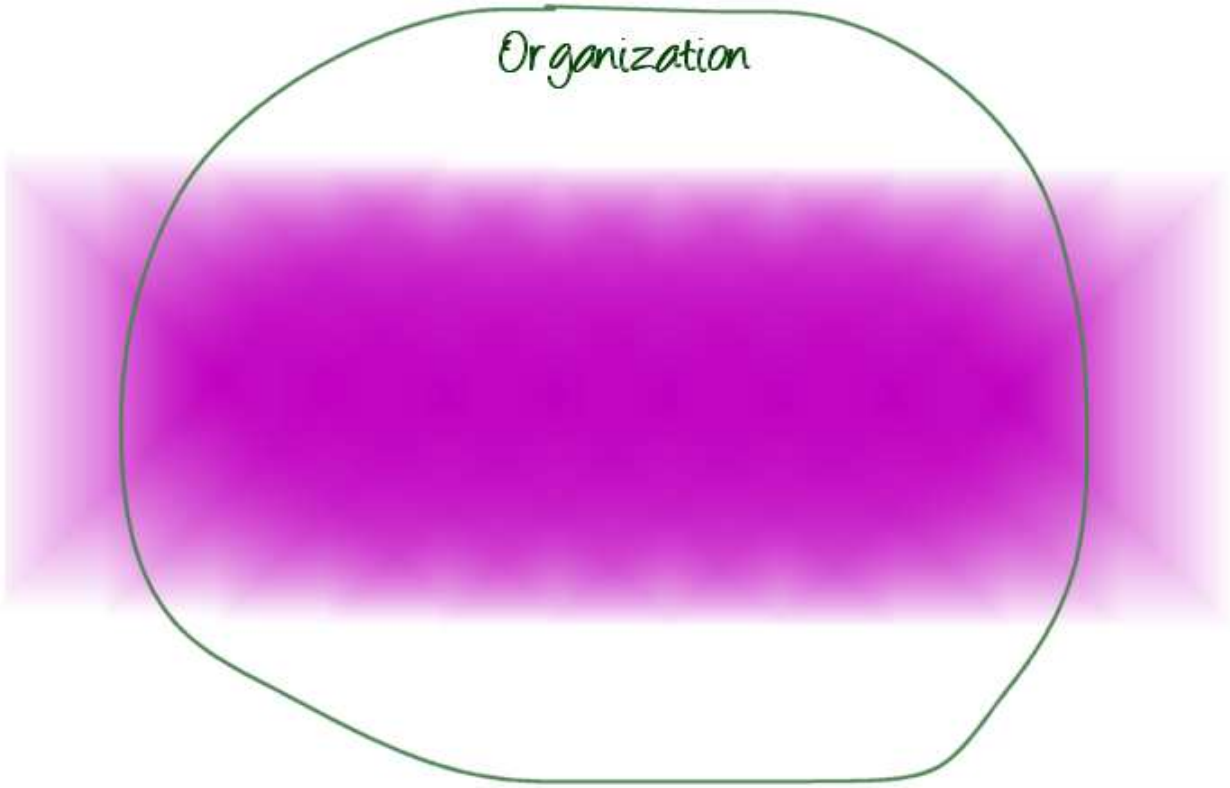
Huh?!?!

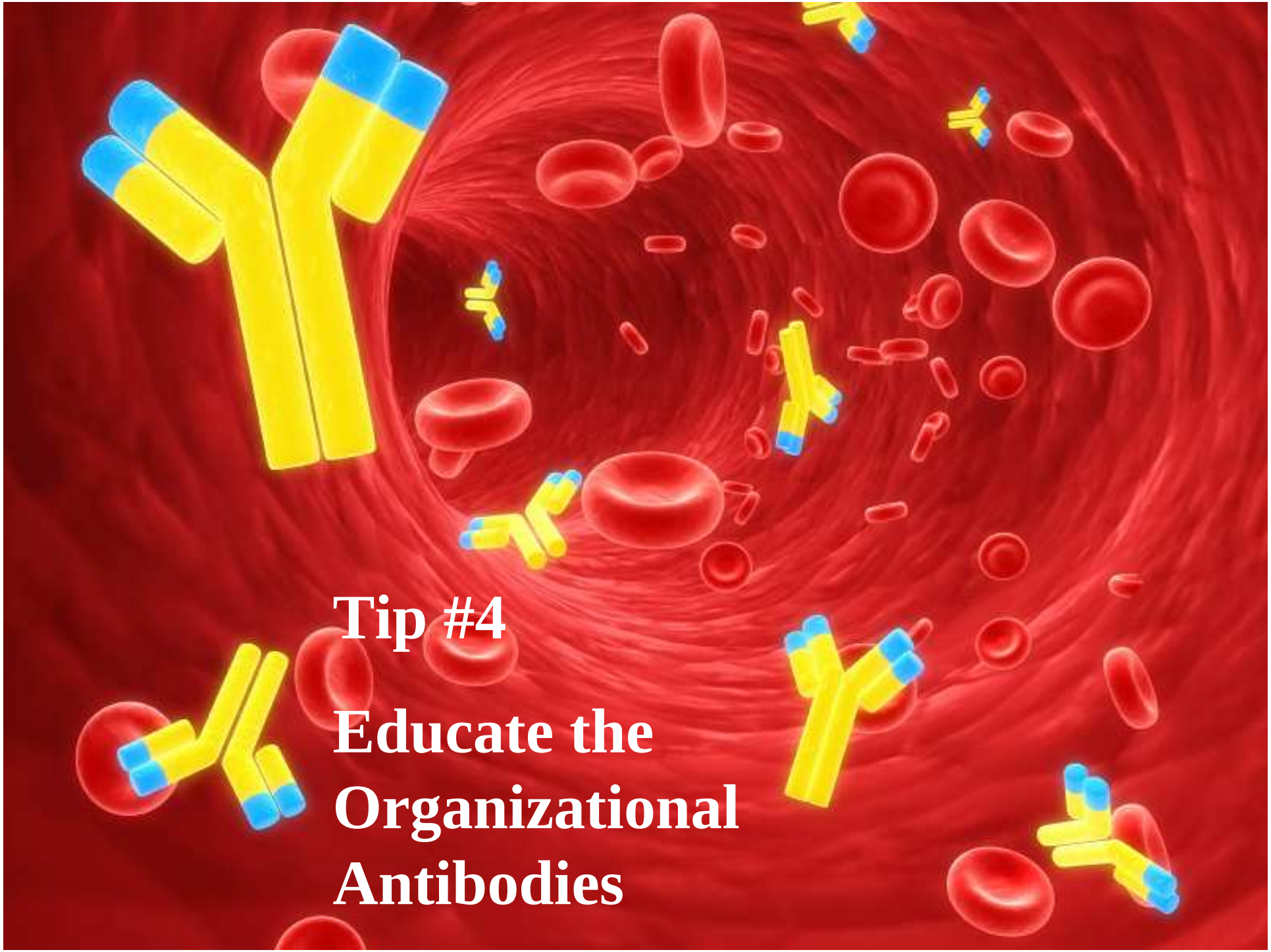



think
work play
Tip #3: Evolve By Learning A Little Of Everything

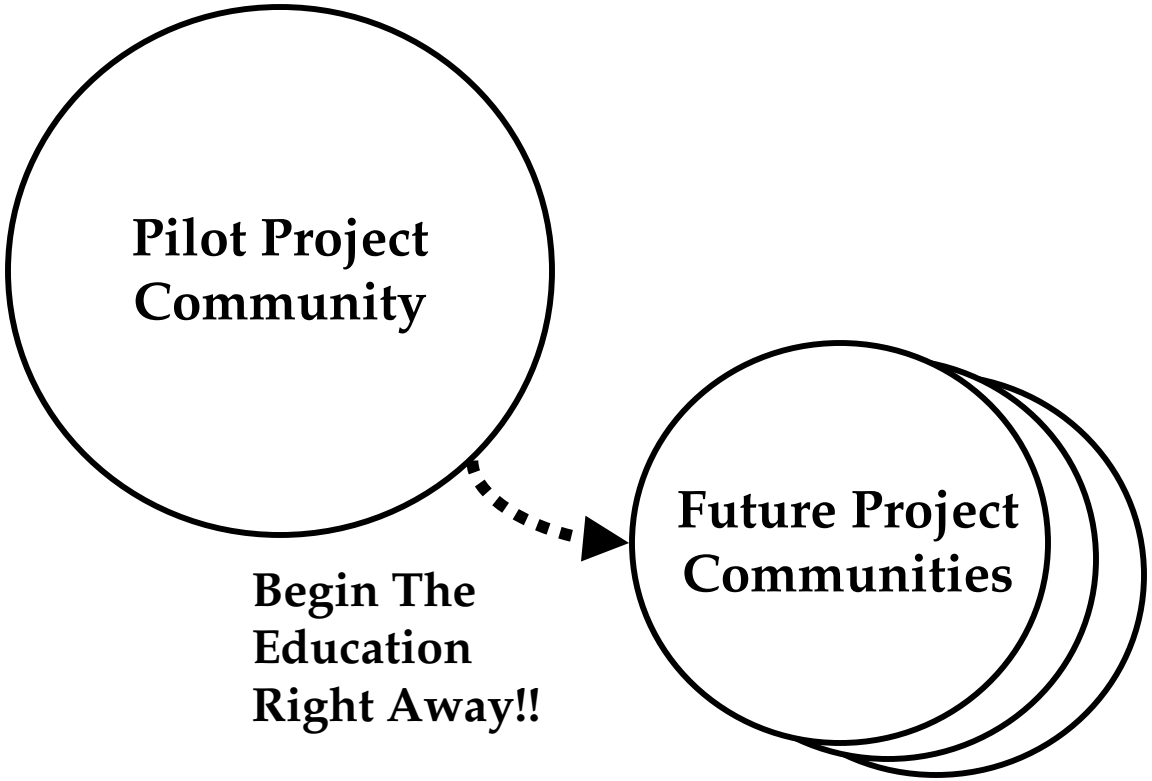
Whole Enchilada Transition

Broad Brushstroke Transition




Tip #4
Educate the Organizational Antibodies

Educating The Antibodies



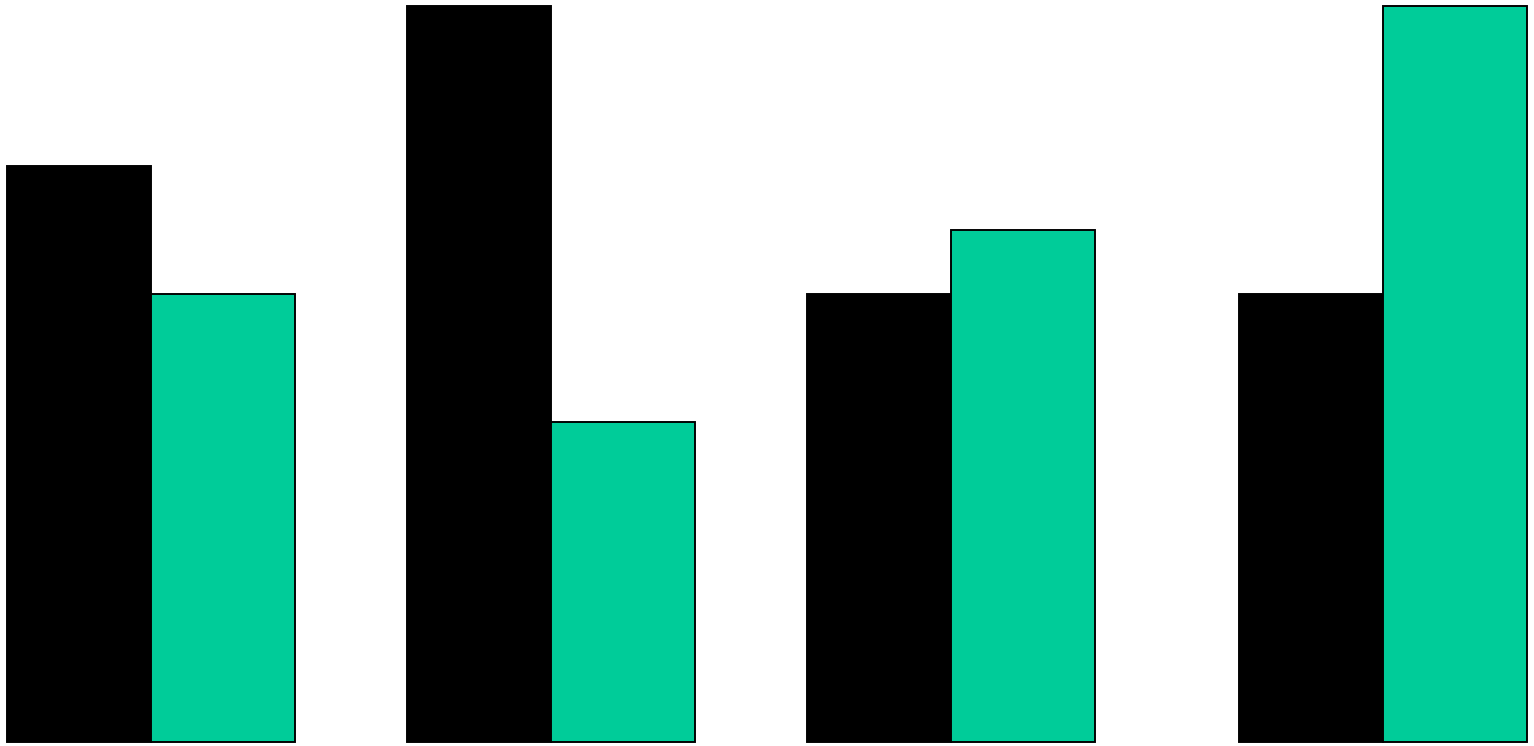
How Would You Sell Pair-Programming?

- Don’t sell it!
- Sell the risks of Solo Programming
  - Tunnel Vision (Frog-In-A-Well) Syndrome
  - Less Productivity
  - Less Knowledge Transfer
  - Longer Times Fixing Defects
  - Less Code Re-Use
  - Poorer testing
  - Etc..

Removing Risks

Tip #5 Business Trumps Process

(most, but not all of the time)



Tip #6 Engage The Entire Organization

Management

Executives & Board Members, Product & Product Line Management, Sales & Marketing Management, Project & Functional Management, QA Management

Customers

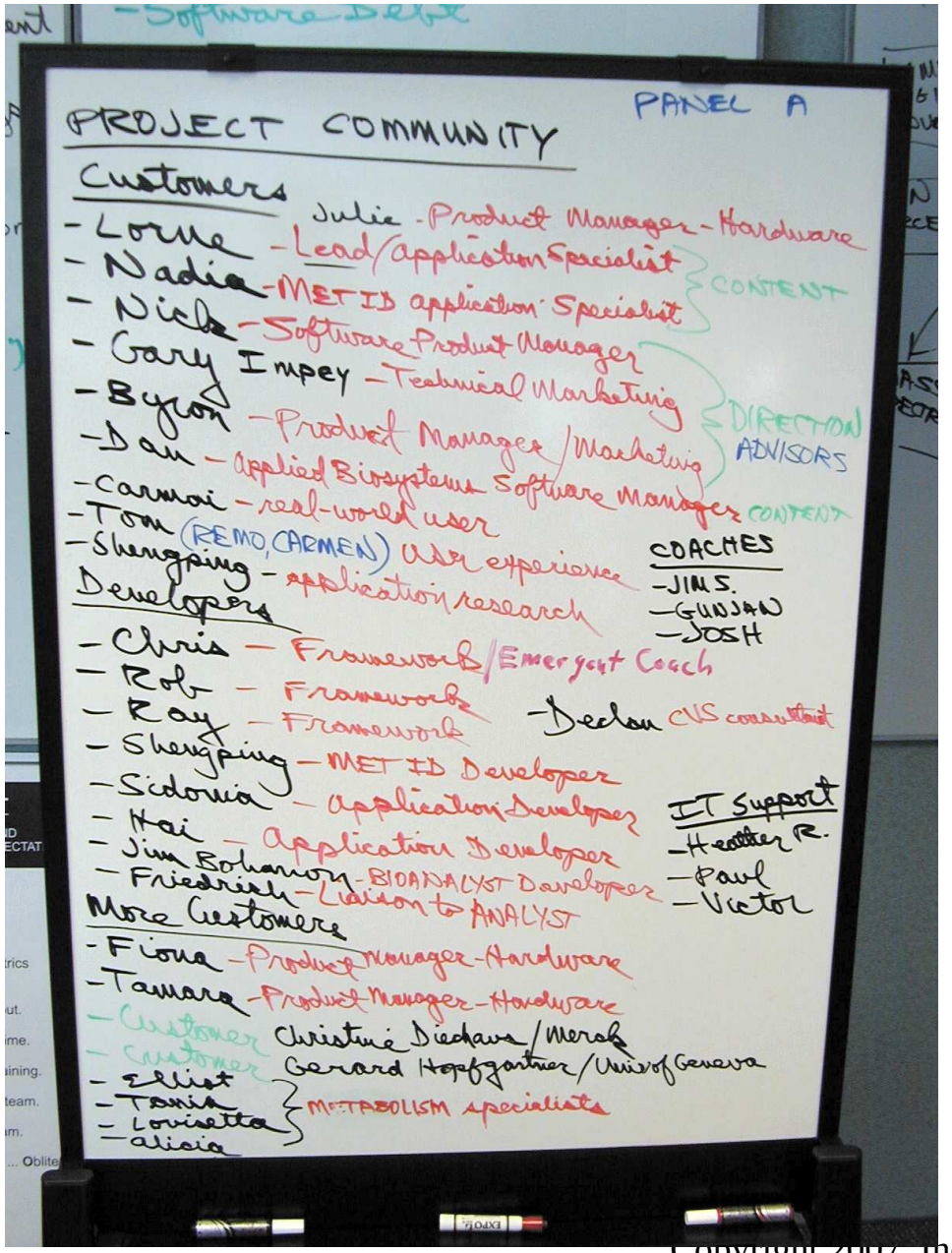
Product and/or Project Manager, Domain Experts , Analysts (market, technical, etc.), Testers/QA, End Users / Beta Sites, Sales, Marketing & Service Support, Usability Experts, Technical Support, Educational Services

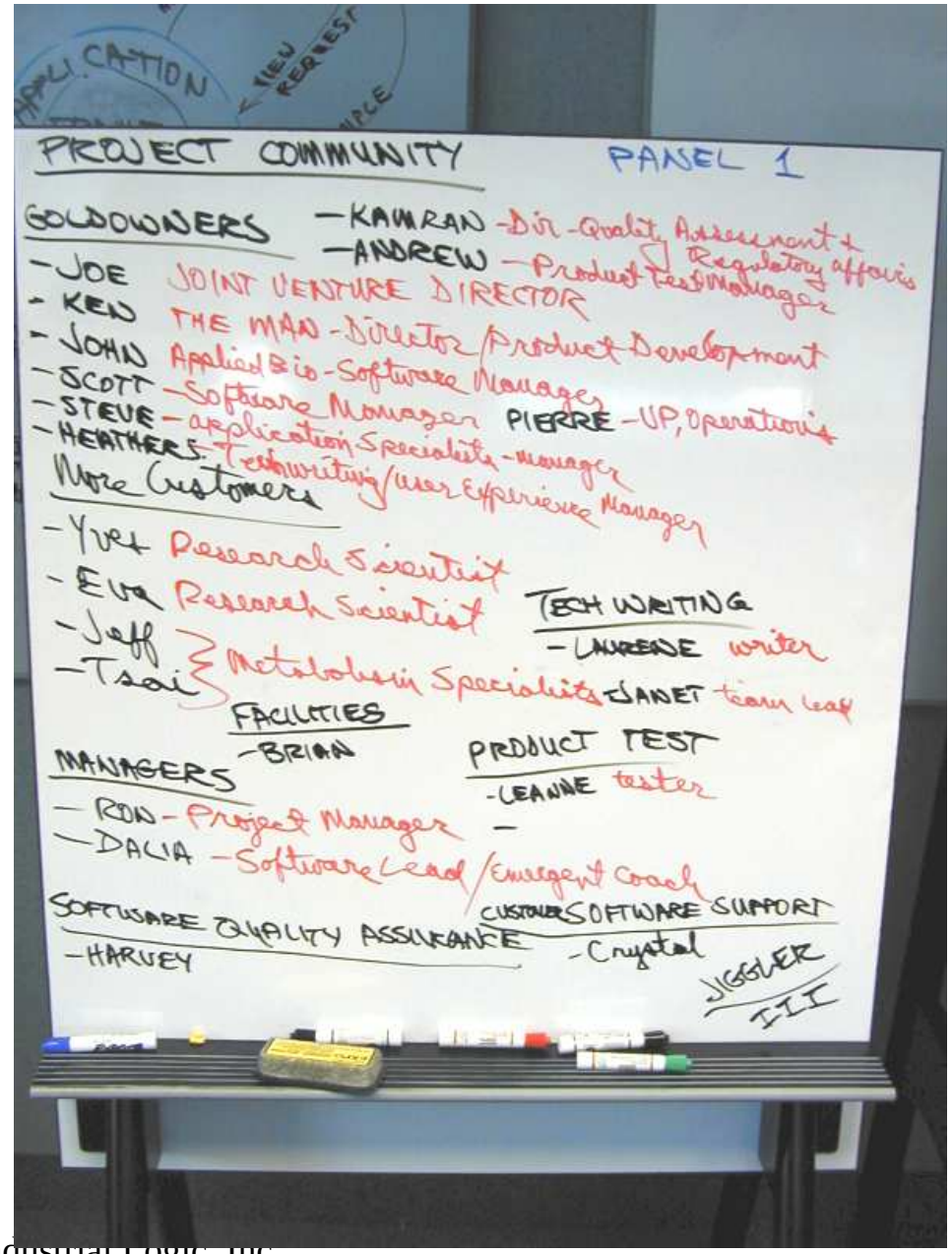
Support

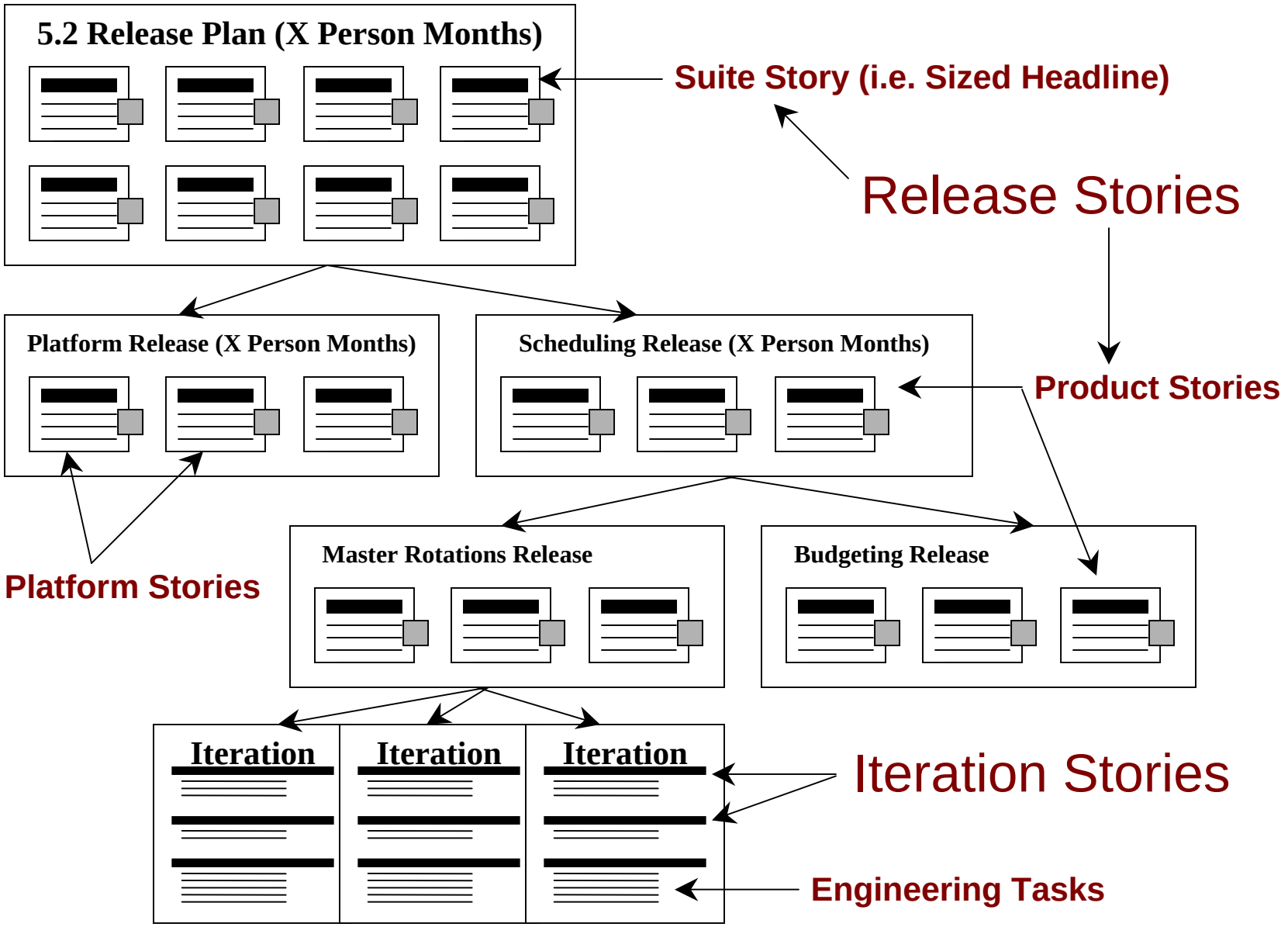
Coaches, Software Services, Facilities, Human Resources, Legal, Auditors, Finance, 3rd party vendors

Development

Programmers, Technical writers, Database Designers & Administrators, Architects

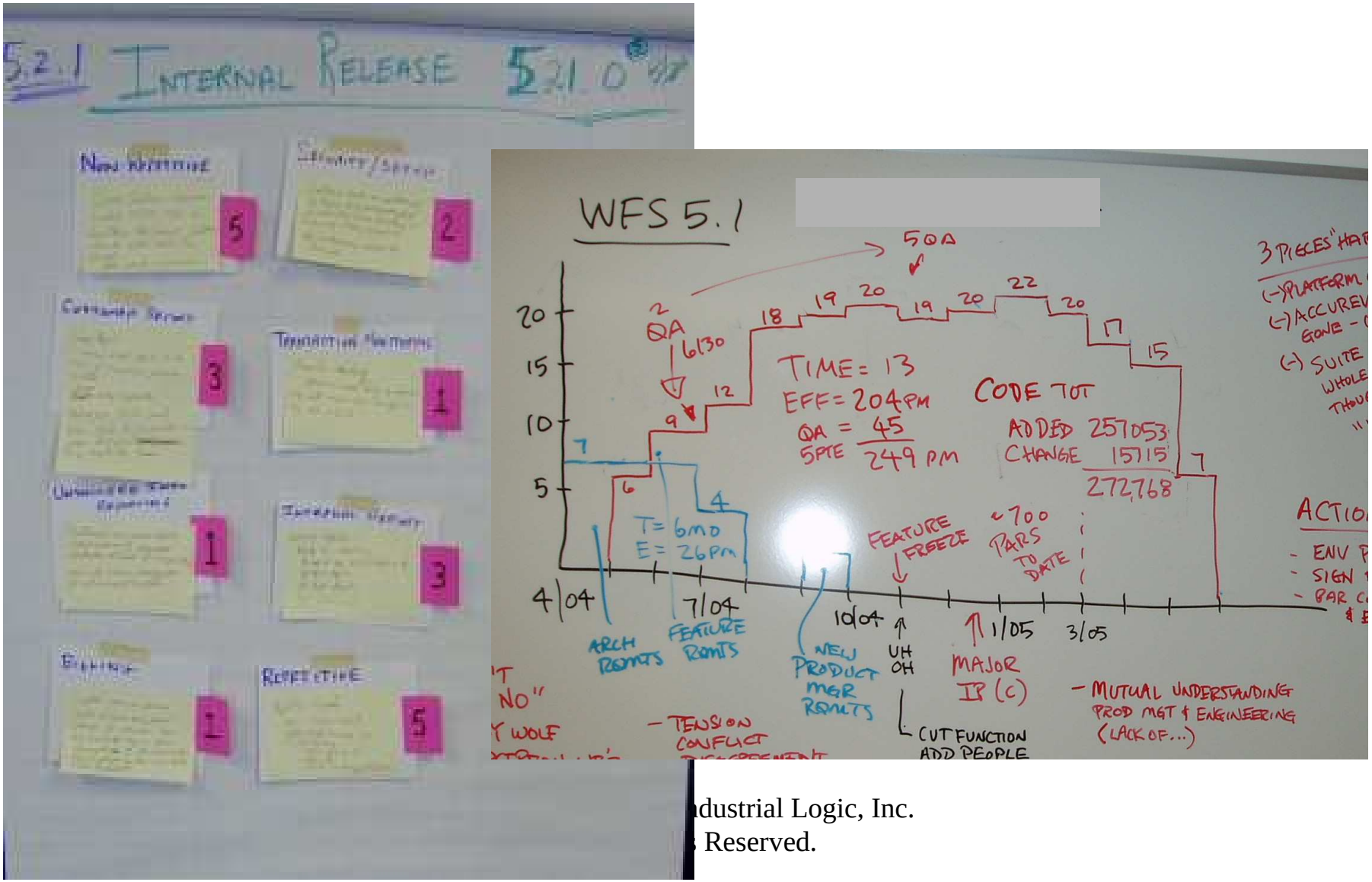




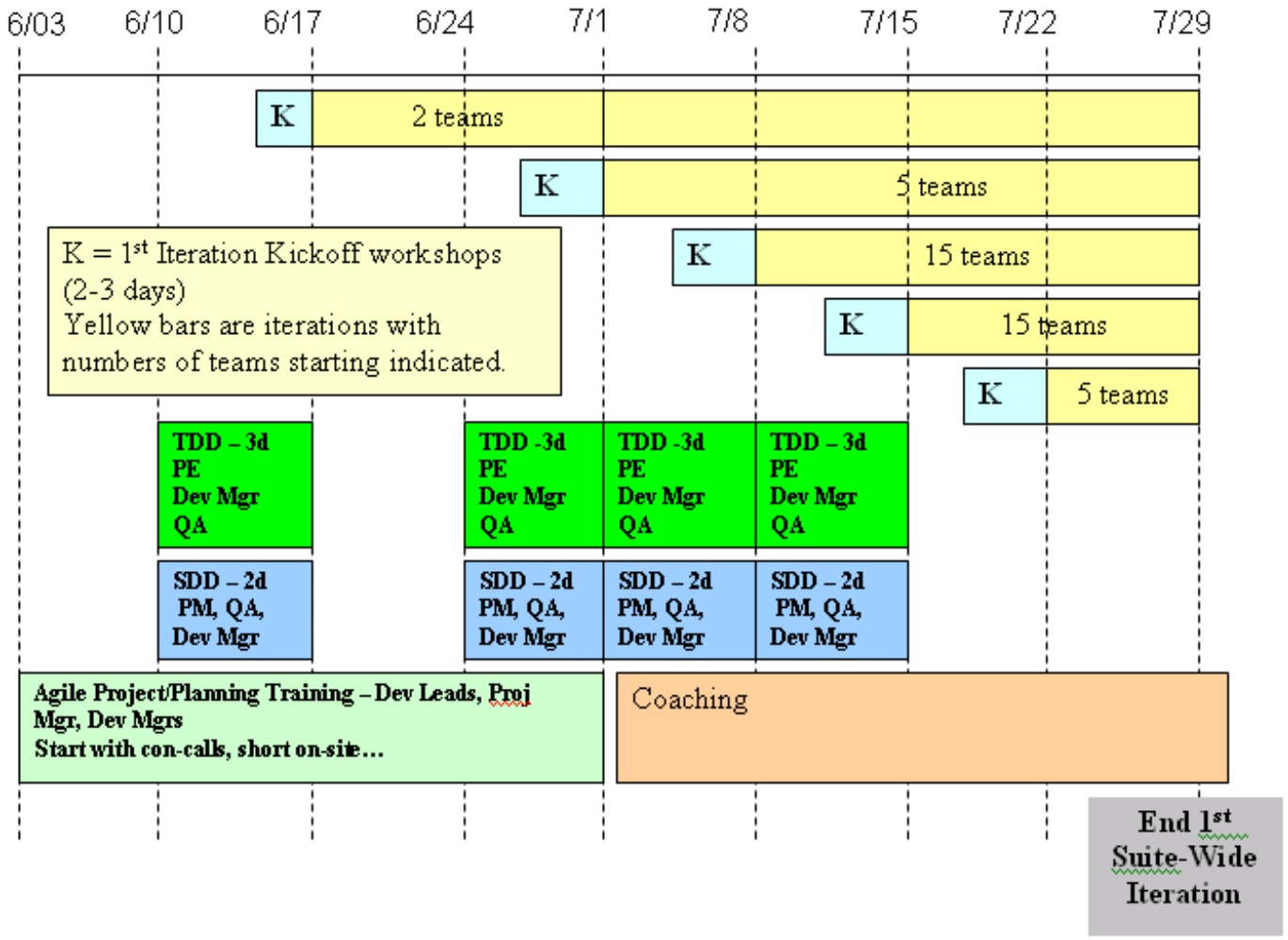



Marketing
VP
Programmers
Tester
Subject Matter Expert

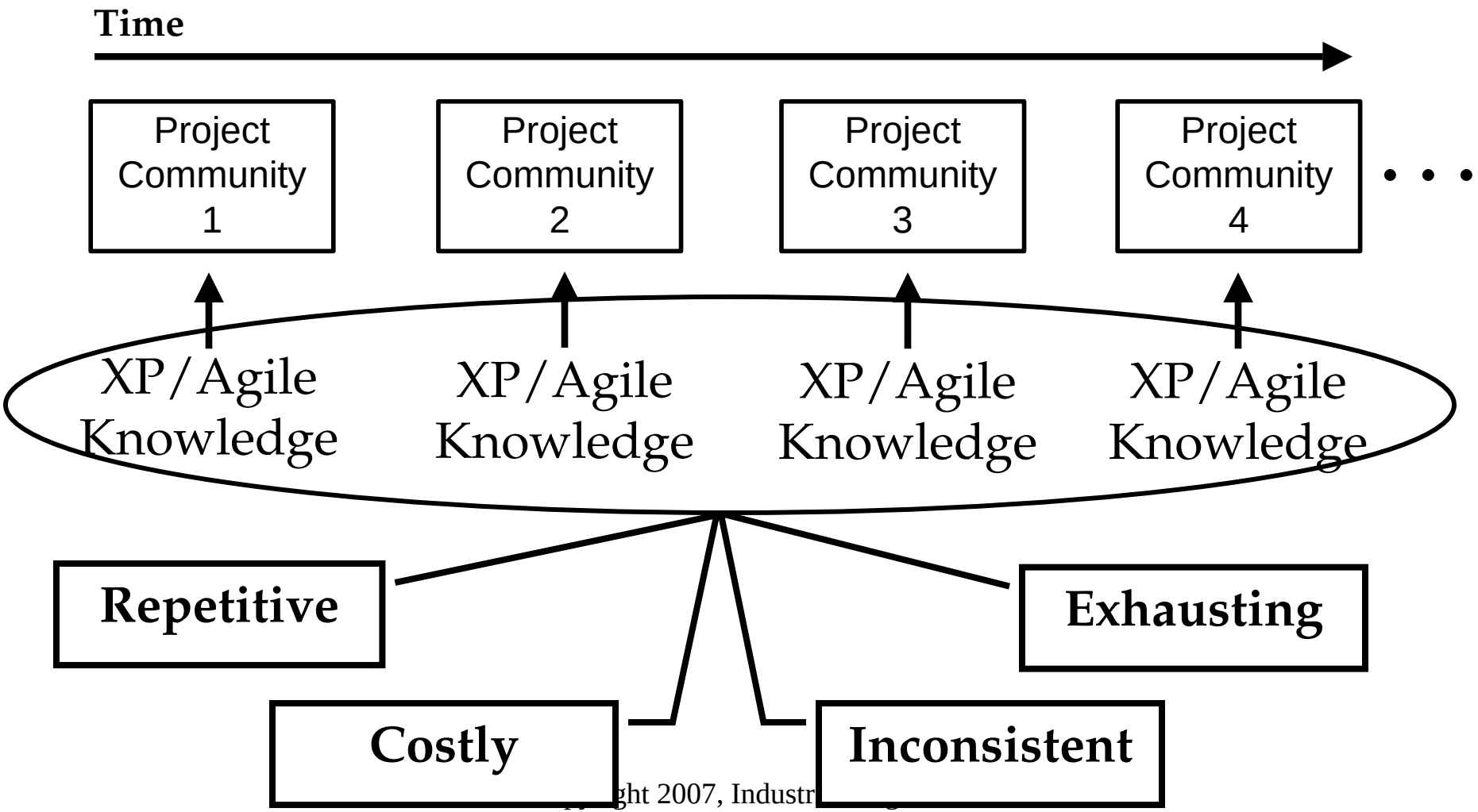
Tip #7
Pick A Big Important Project!



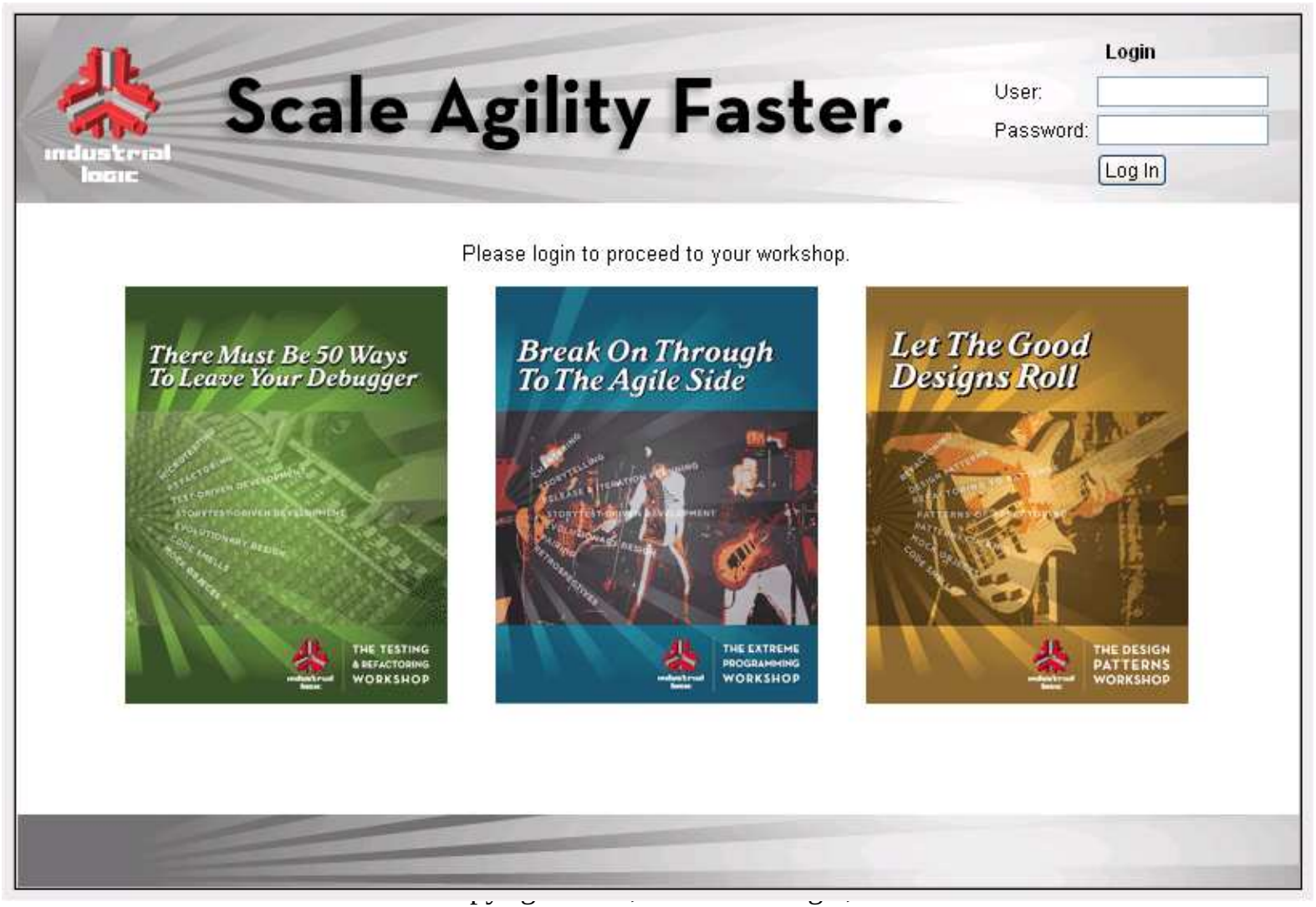
Tip #8 – Handle The Scaling Problems



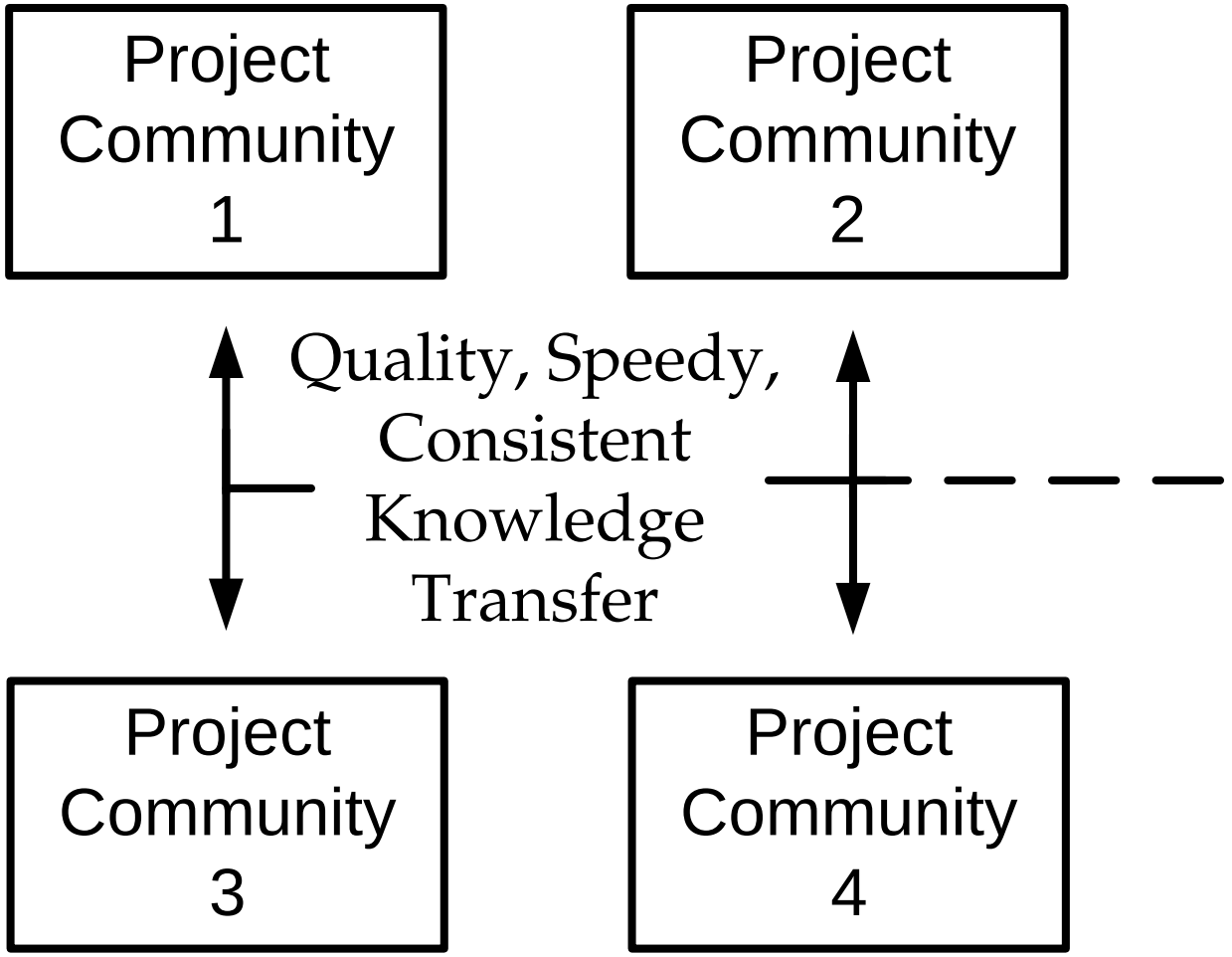
Serialized Knowledge Transfer



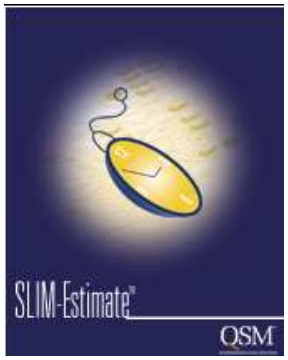
eLearning To The Rescue

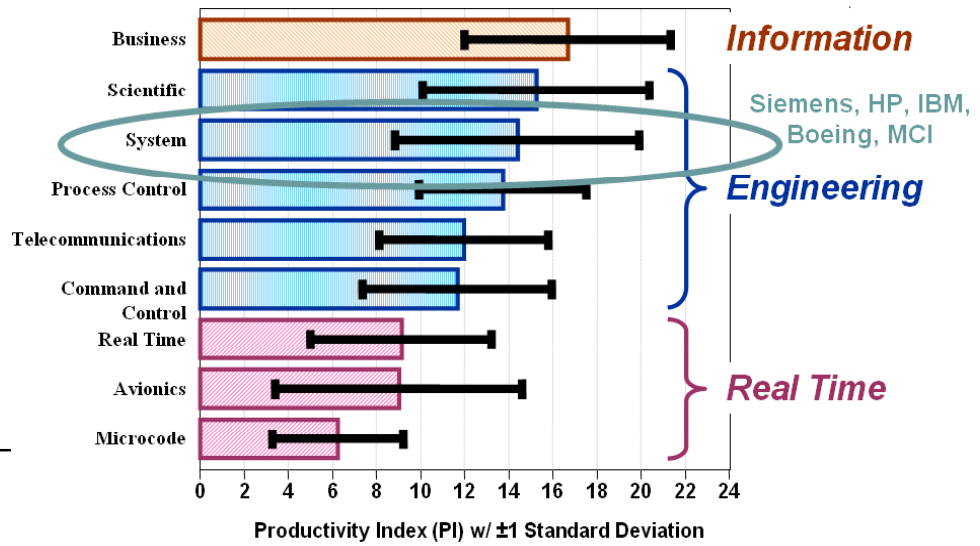


Parallel Knowledge Transfer




Tip #9
Gather
Metrics!



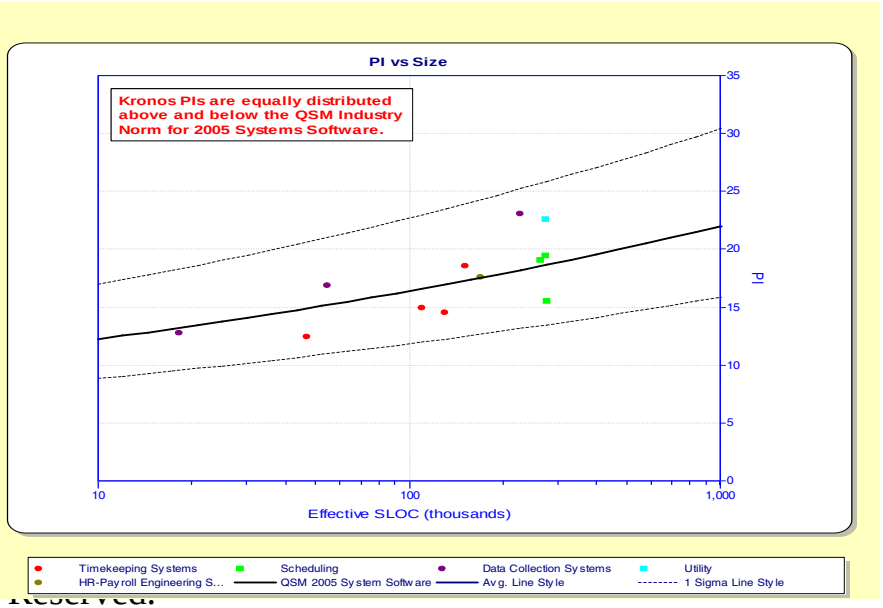


$$PI = \frac{SIZE}{TIME \qquad EFFORT}$$

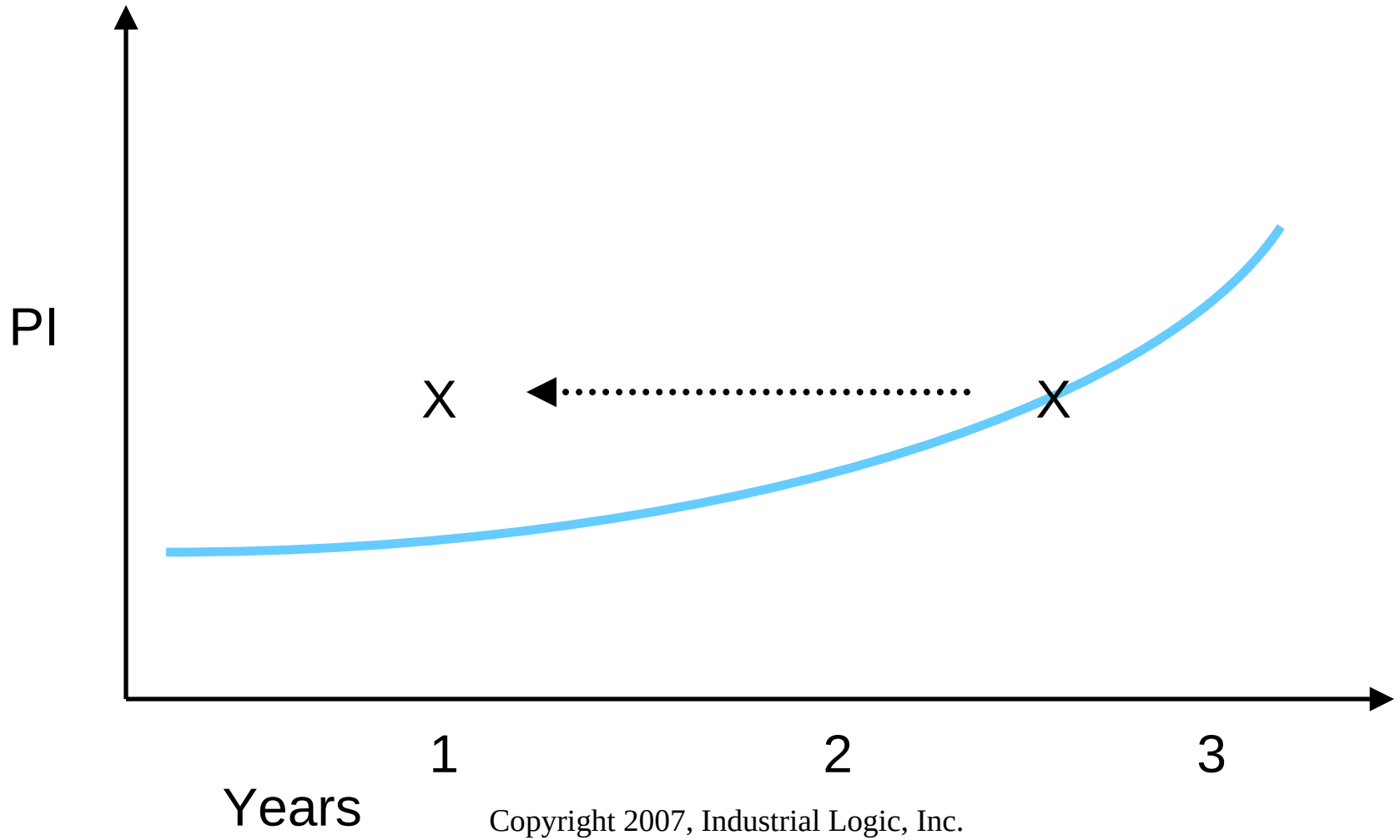
$$\text{Condor PI} = \frac{376{,}022 \text{ SLOC}}{24_{\text{months}} * 347_{\text{person months}}} = 17$$

PI = measure of process productivity and development complexity

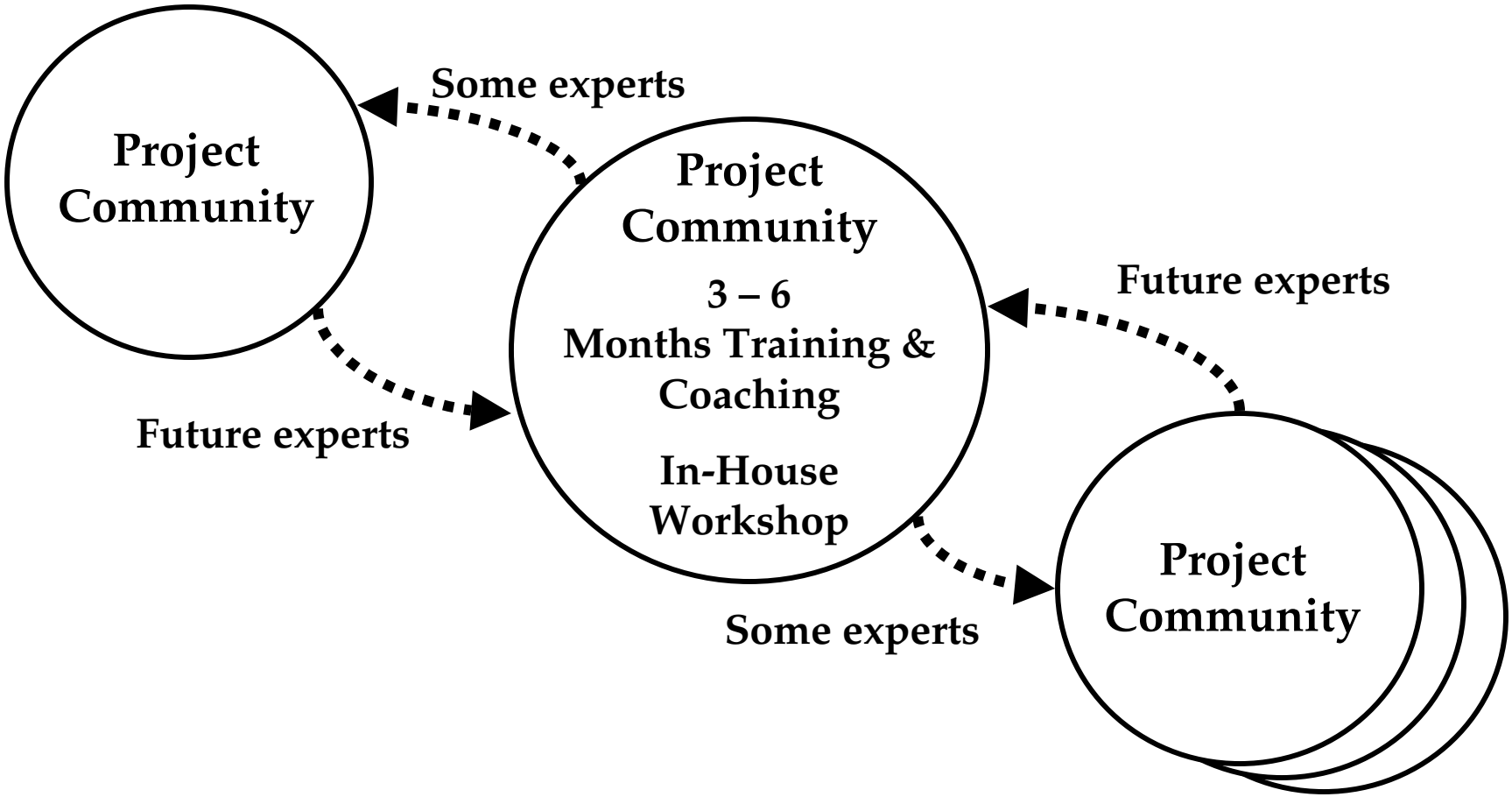
Larry Putnam: Software Metrics Guru & Pioneer. Author of **5 Core Metrics**.



XP/Agile Yields Results Faster



In-House Workshop: A Lower Cost Strategy

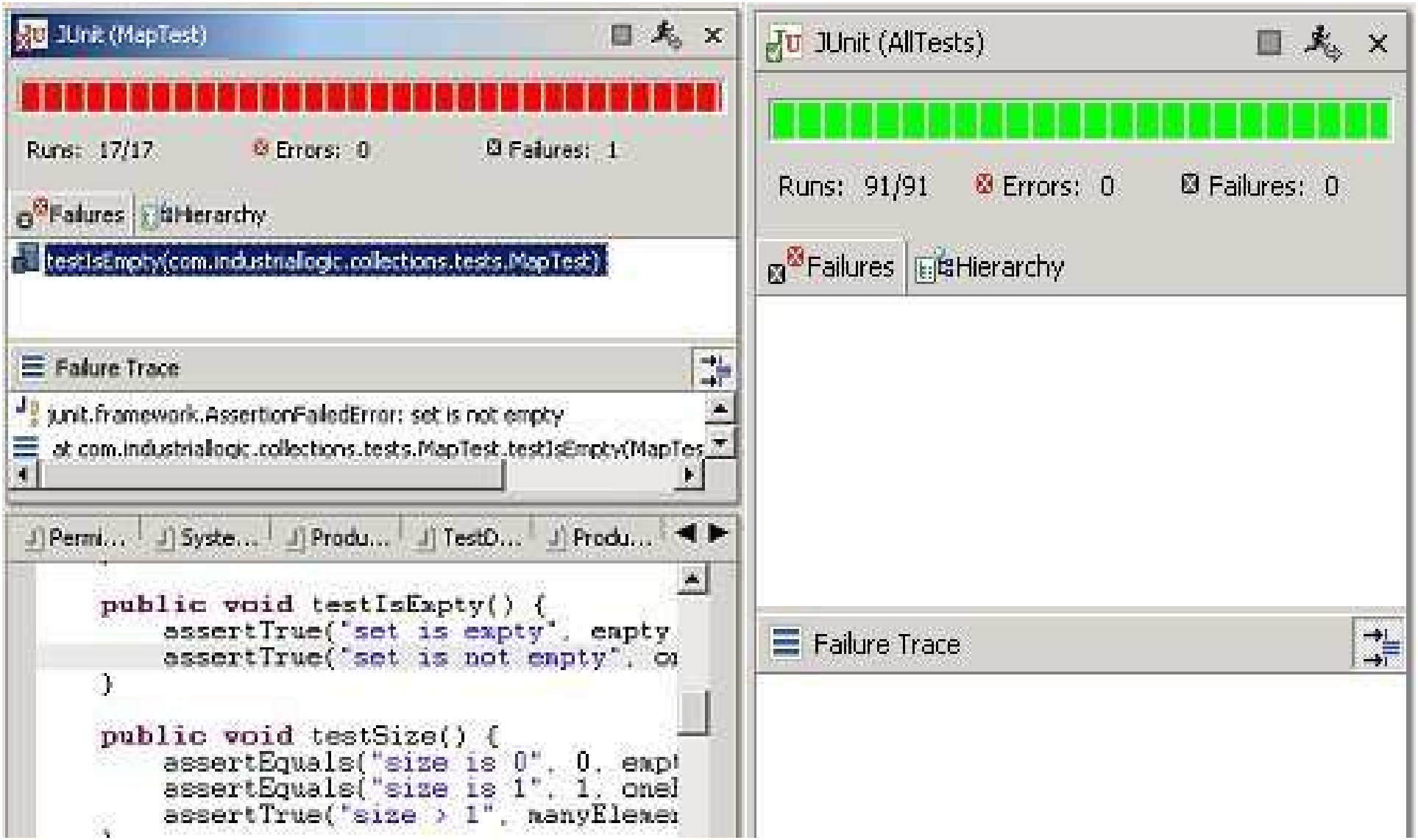


XP/Agile Productivity Improvement

	Previous Performance	Current Performance	Percentage Improvement
Cost	$2.8 Million	$1.1 Million	61%
Schedule	18 Months	13.5 Months	24%
Defects	2,270	381	83%
Staffing	18	11	39%

Thanks to Michael Mah of QSMA and Jim Highsmith of the Cutter Consortium

Tip #10 - Fail Fast!



Failing Fast

FIT brings domain experts, analysts, testers and programmers into a test-driven development cycle that yields executable specifications.

FIT is a monumental achievement in software development because it utterly succeeds in uniting the actions of those who analyze, specify, test and program software systems.

FIT is an innovative tool that succeeds wildly in uniting the actions of those who analyze, specify, test and program software systems.

By guiding how domain experts, analysts, testers and programmers collaborate on the creation and validation of simple, tabular-based examples of business rules, FIT has fundamentally changes the way quality software gets built.

By providing a simple, effective method for creating and automating tabular examples of business rules, FIT has significantly improved how domain experts, analysts, testers and programmers collaborate to produce quality software.

THANK YOU!