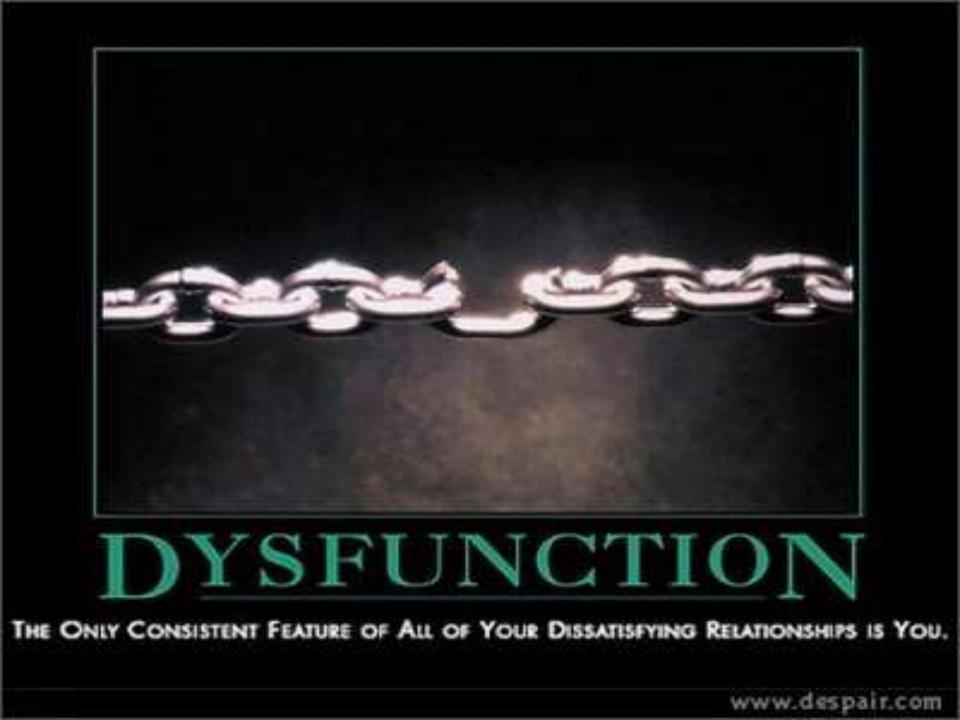


"Ugly Teams: Managing Difficult Conversations in Offshoring and Agile"

NY SPIN October 11, 2011 Michael Mah Managing Partner QSM Associates, Inc. 75 South Church Street Pittsfield, MA 01201 413-499-0988 Fax 413-447-7322 e-mail: michael.mah@qsma.com Website: www.qsma.com Blog: www.optimalfriction.com



Difficult Software Conversations "Facing tough problems with heart"

YOUR BOSS . YOUR SPOUSE . YOUR FRIENDS Your Kids . Your clients

Difficult Conversations

HOW TO DISCUSS WHAT MATTERS MOST

DOUGLAS STONE BRUCE PATTON SHELLA HEEN OF THE HARVARD REGOTIATION PROJECT

With a foreword by Roger Fisher, coauthor of GETTING TO YES

The Intelligence behind Successful Software Projects

Difficult Software Conversations Are Really Three Conversations

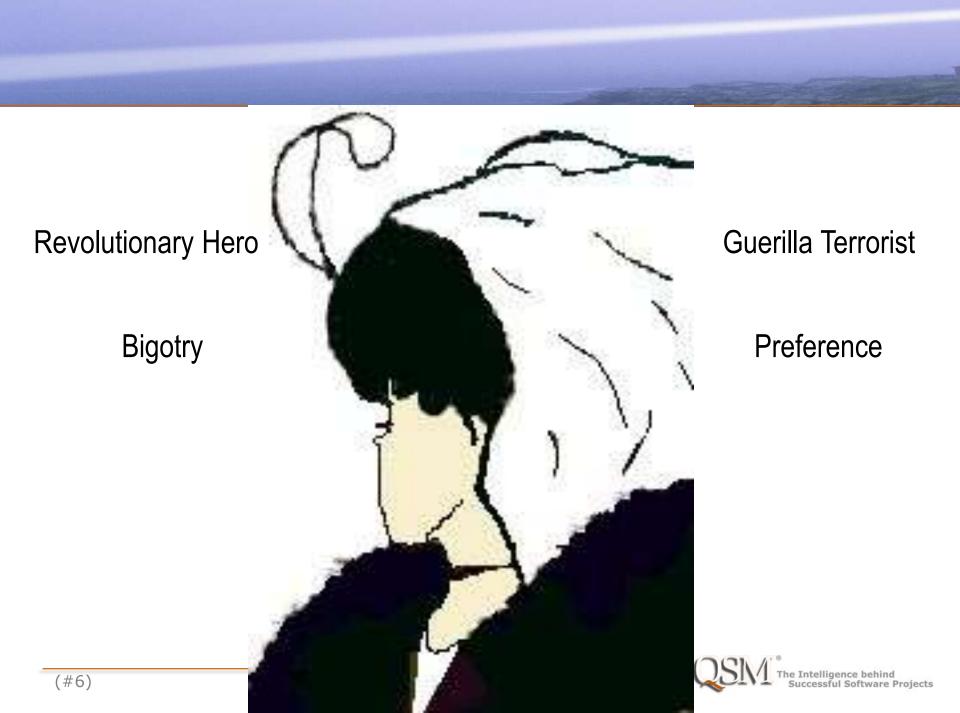
Difficult Conversations

Focus is on communicating effectively in the face of difficult relationship and related issues

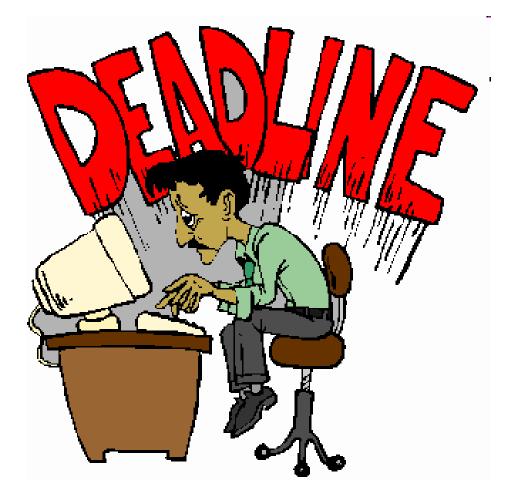
The Three Conversations

The "What Happened?" Conversation The Feelings Conversation The Identity Conversation





Defects and Sources of Technical Debt

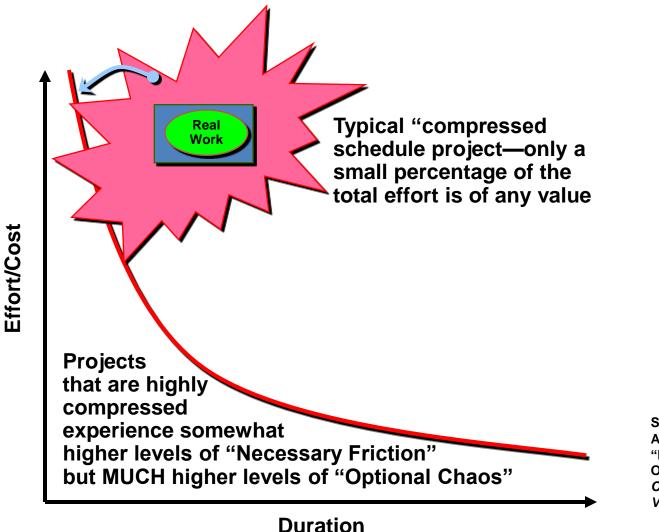




Defects and Sources of Technical Debt



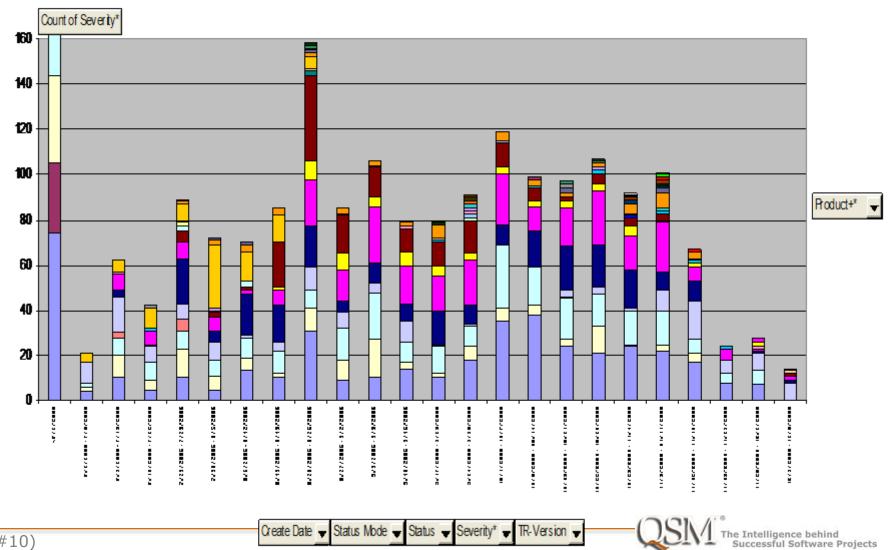
Short-Cycle Chaotic Projects



Source: Armour, Phillip G. "Real Work, Necessary Friction, Optional Chaos" *Communications of the ACM Vol 47 No 6*

Rayleigh Curve Defect Rate

Defect Type (All) 👻



(#10)

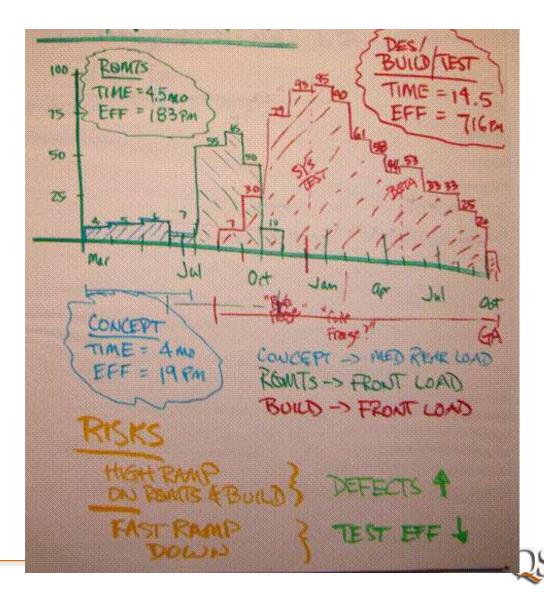
Difficult Offshoring Conversations



"Chunk it, routinize it, digitize it, ...and then send it offshore"

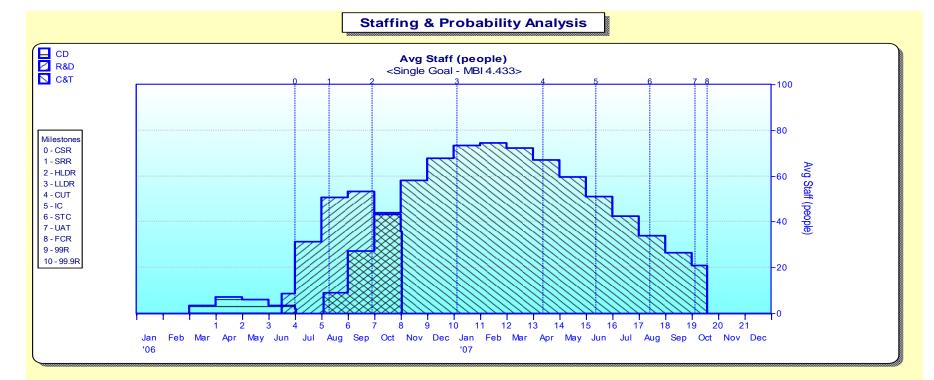


Offshore Difficult Conversation

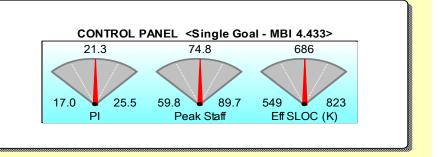


The Intelligence behind Successful Software Projects

SLIM Replica – Release 9.5

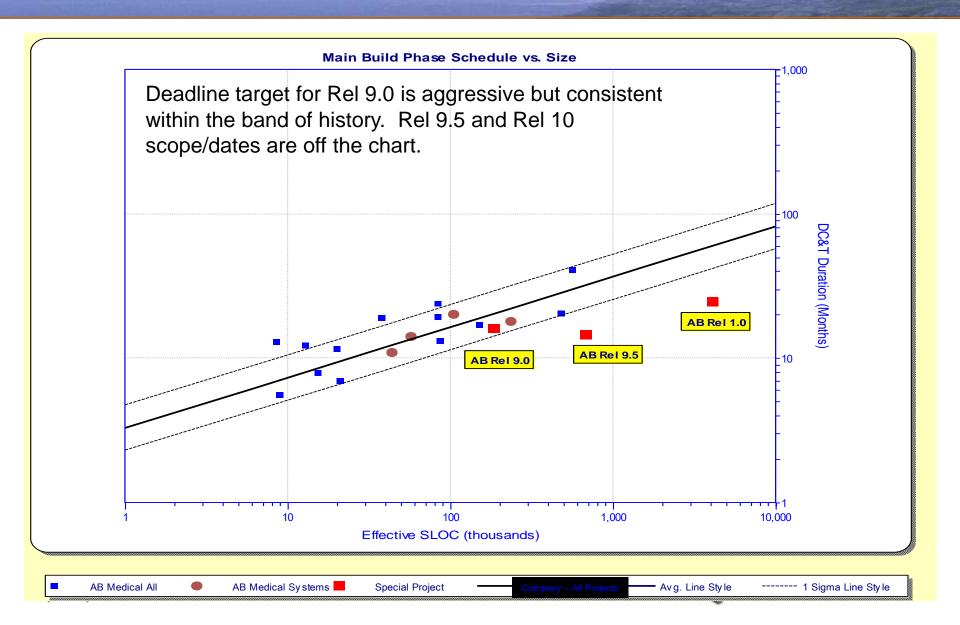


	C&T	Life Cycle	
Duration	14.5	19.6	Months
Effort	716	919	PM
Cost	4153.2	5328.5	\$ (K)
Peak Staff	74.8	74.8	people
MTTD	0.1	0.1	Days
Start Date	8/4/2006	3/1/2006	-

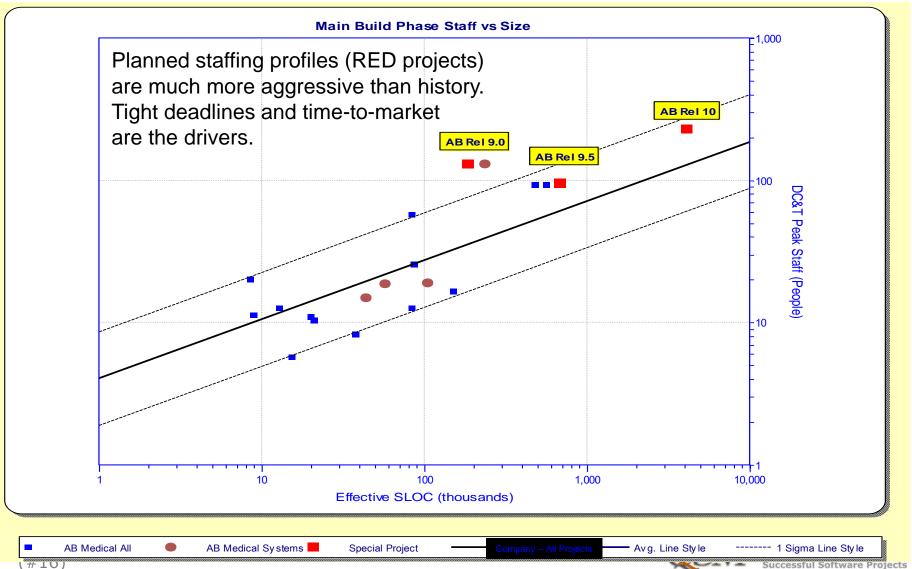




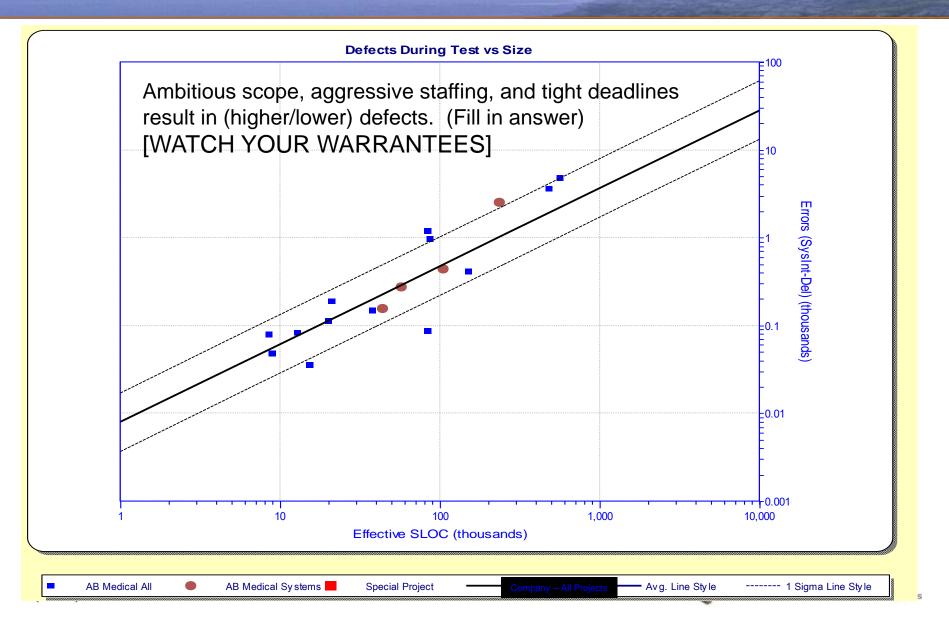
Trendline Assessment – Main Build Schedule



Trendline Assessment – Main Build Staffing



Trendline Assessment – Defects/Quality

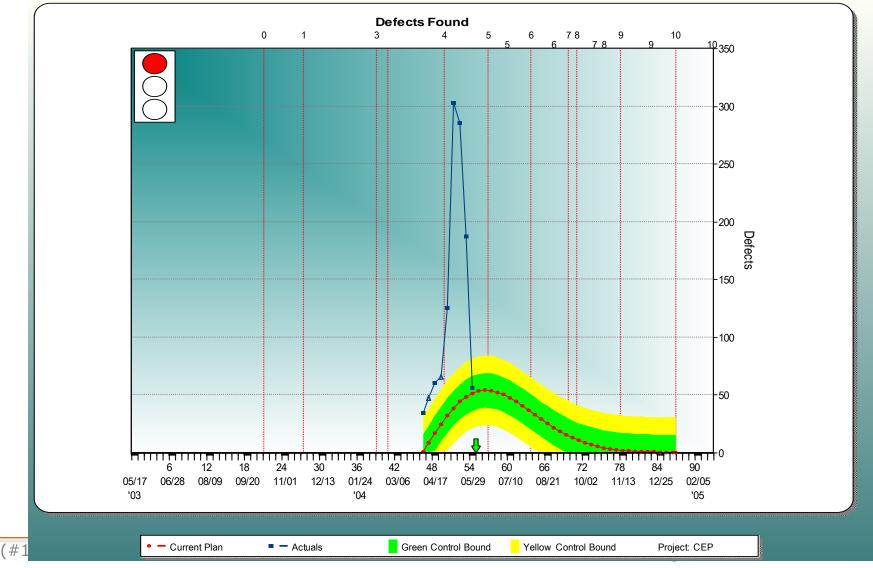


Offshore vs. Industry Average

	Industry Average	Offshore Average	Delta
Project Cost	\$3.5 Million	\$3.2 Million	-\$0.3M
Schedule	12.6 months	9.6 months	-3.0 mos
QA Defects	242	677	+280%
Staffing	35	50	+15

* Normalized to same project size The Intelligence behind Successful Software Projects

Defects vs. Industry Average

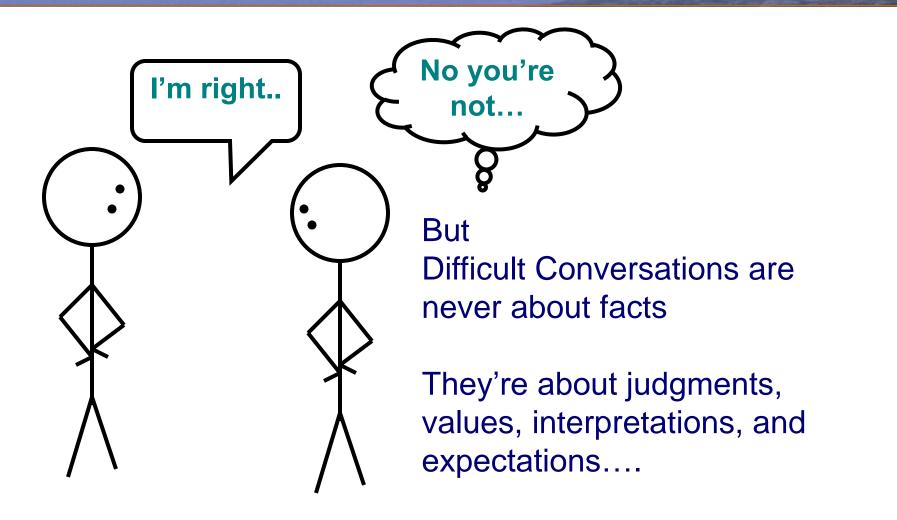


Difficult Conversations:

The "*What Happened?"* Conversation



We Argue about Who's Right





Costs of Focusing on Blame

We don't learn

We get the problem wrong, so our "solutions" don't work

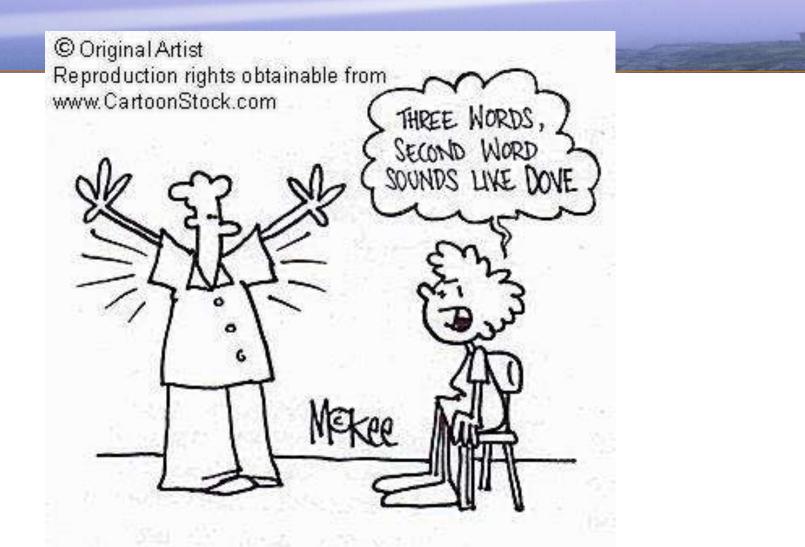
Relationships are damaged, while the problem stays



Difficult Conversations:

The Feelings Conversation





STEVE FOUND IT HARD TO EXPRESS HIS FEELINGS

10

To Avoid Certain Feelings, We Translate, or "Convert" Them

Common ways:

Judgments: "That's wrong"

Characterizations: "You're stupid"

Arguments: "What makes you think..."

• **Problem Solving:** "Here's the answer..."

Impact? Defensiveness, misunderstandings, poor problem solving, damaged relationships





Difficult Conversations:

The Identity Conversation





Clues to Identity Issues

Why is this so hard for me when others seem to handle it easily?

Why do I sometimes lose my balance in the middle of these conversations?

Why am I still stuck on what happened yesterday, last week, or last month?



Identity Triggers

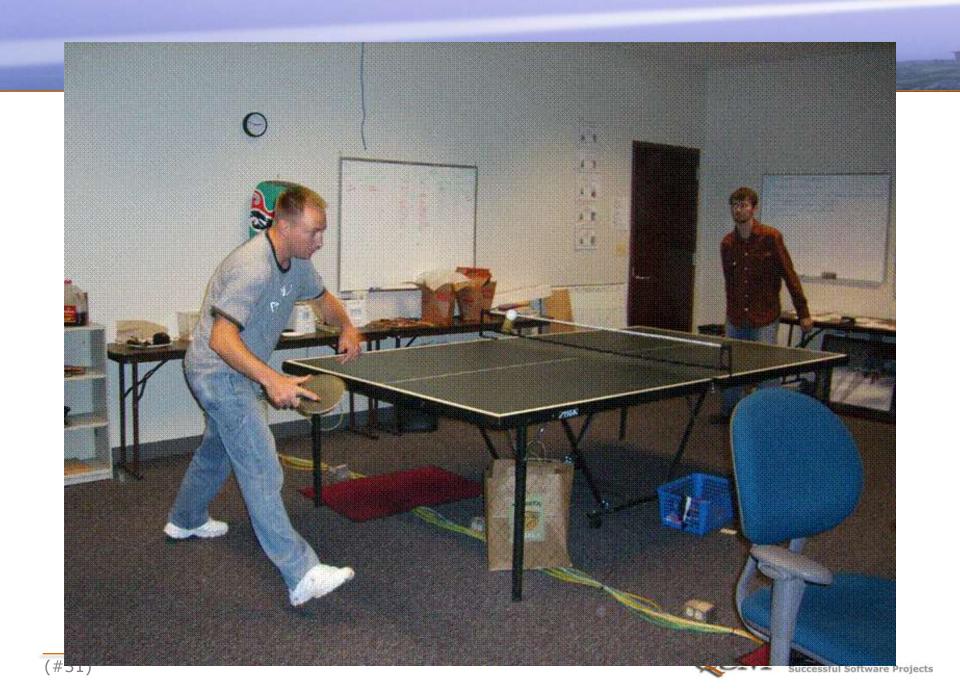
I'm not the kind of person who:

- Makes mistakes
- Is mean
- Can be made fun of
- Hurts someone's feelings
- Is irresponsible
- Is a lousy friend
- Is stupid



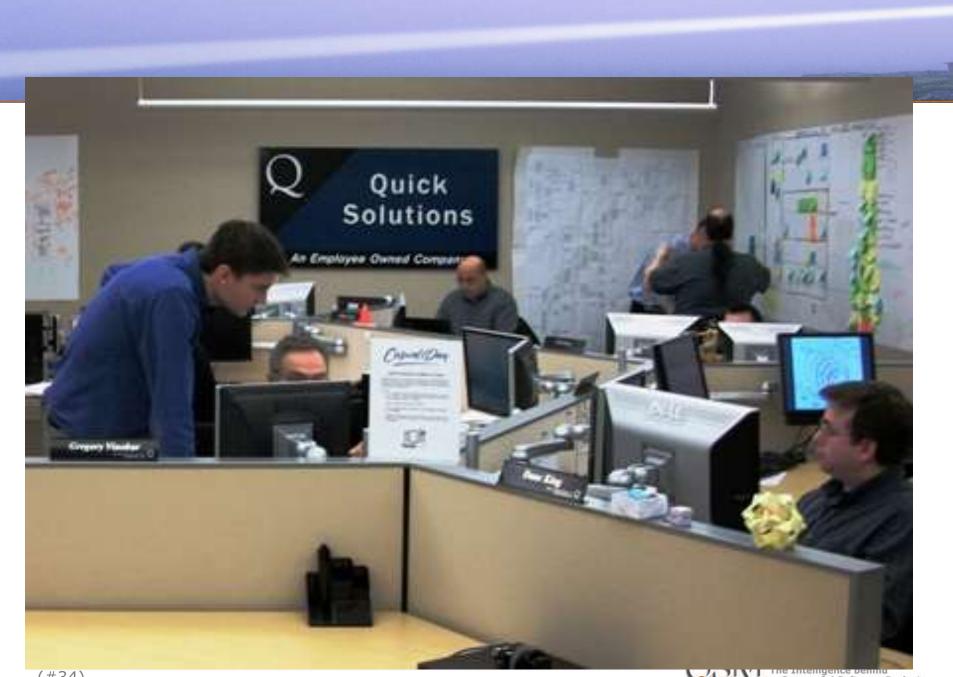
Difficult Agile Conversations













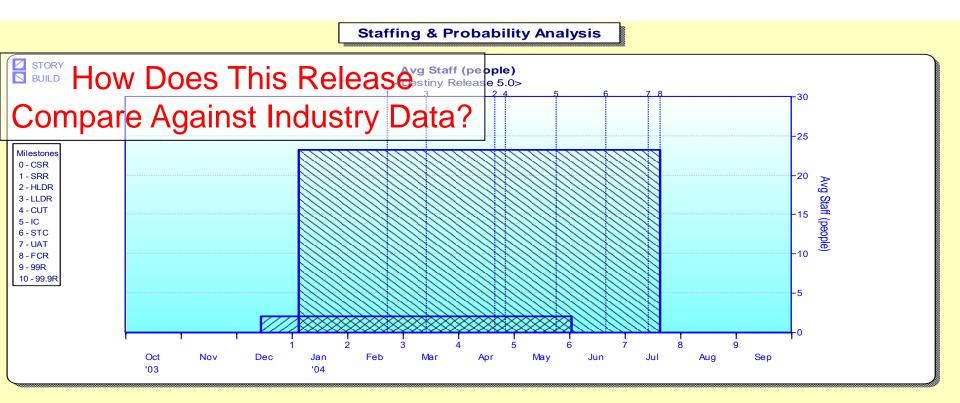




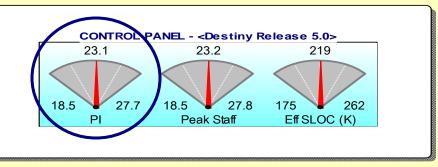
Project Sketch – Core Metrics



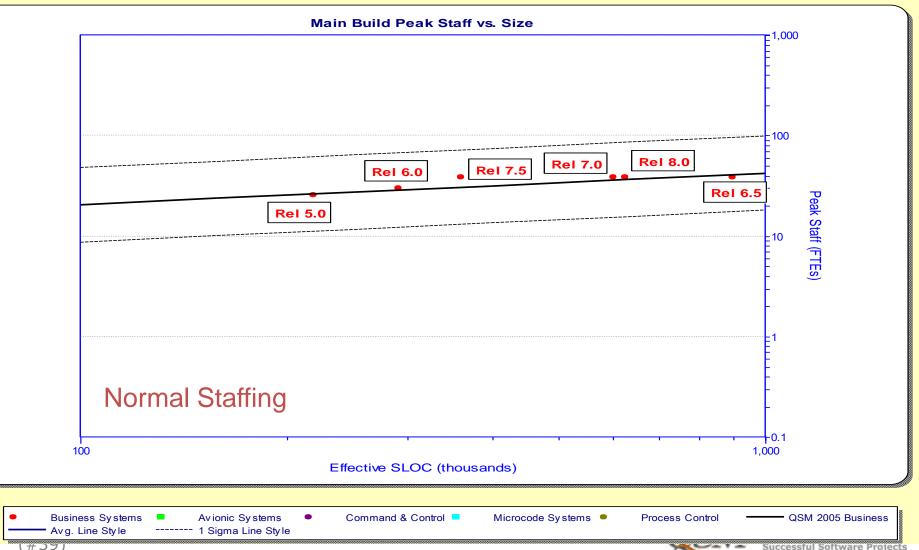
SLIM Model Replica – Destiny 5.0



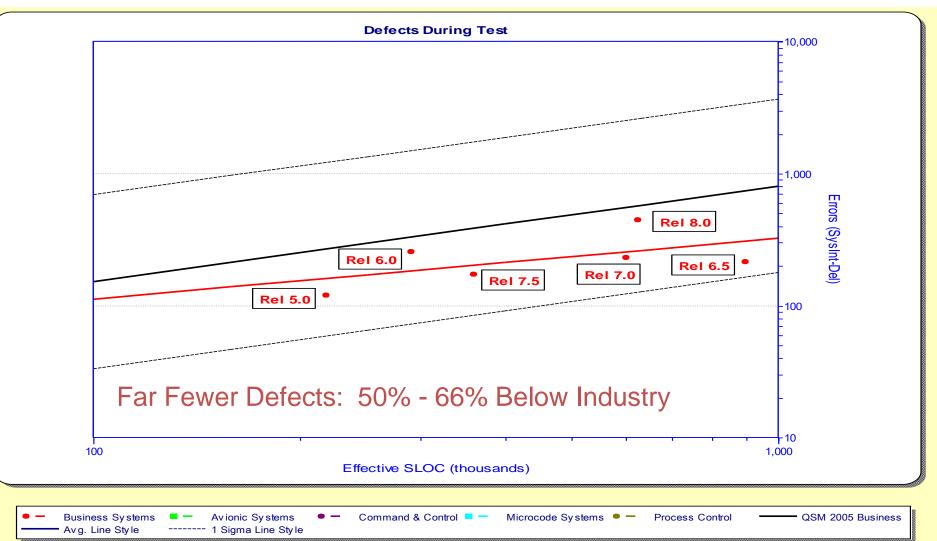
SOLUTION PANEL - <destiny 5.0="" release=""></destiny>				
BUILD	Life Cycle			
6.5	7.2	Months		
151	162	PM		
1283.5	1377.2	\$ (K)		
23.2	23.2	people		
0.675	0.675	Days		
1/5/2004	12/15/2003	-		
MBI=5.6	Eff SLOC=218,531			
	BUILD 6.5 151 1283.5 23.2 0.675 1/5/2004	BUILDLife Cycle6.57.21511621283.51377.223.223.20.6750.6751/5/200412/15/2003		



Trendline Assessment – Build Phase Staffing

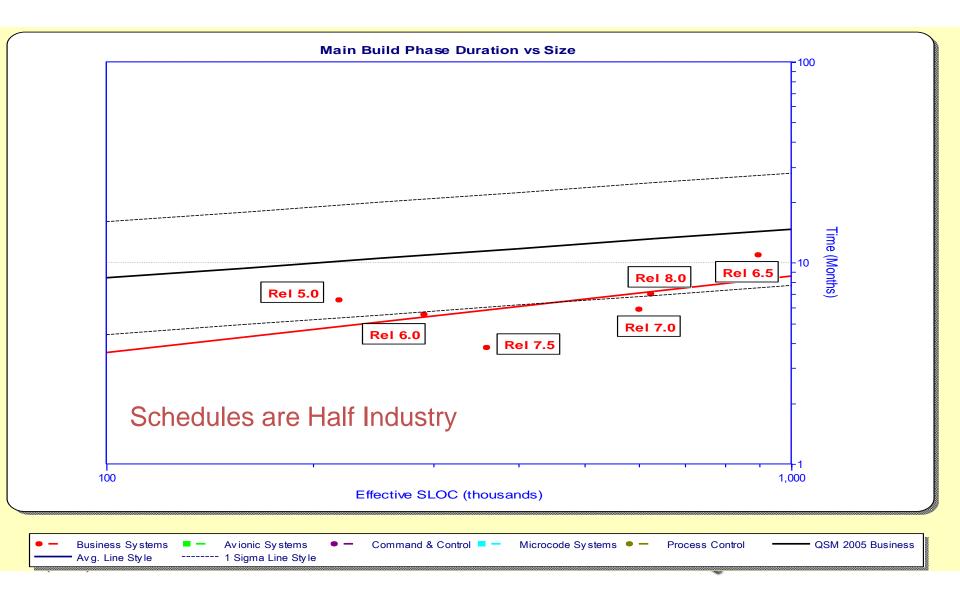


Trendline Assessment – Defects/Quality



Successful Software Projects

Trendline Assessment – Build Phase Schedule



Follett vs. Industry Average

	Industry Average	Current Performance	Delta
Project Cost	\$3.5 Million	\$2.2 Million	-\$1.3M
Schedule	12.6 months	7.8 months	-4.8 mos
QA Defects	242	121	-50%
Staffing	35	35	n/a

Domain Knowledge

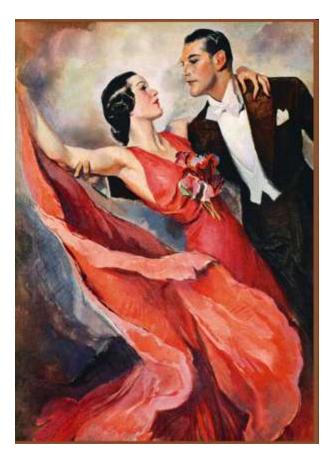
Smart people, experienced people Coding is moving knowledge from mind into the machine Inexperience costs money





Short Feedback Loops

Paired programmers Instantaneous code reviews Accelerated learning and execution Face to face communication channel





Time Boxing

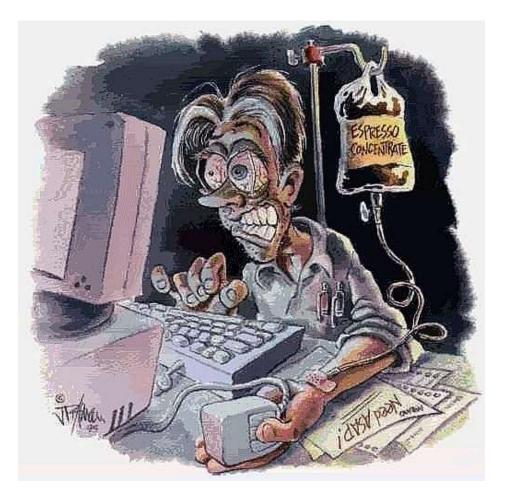
Short iterations Clear and discernible progress Anticipation of the next important feature Efficiency





Avoiding Burnout

XP = Sustainablepace 40 Hour Work Weeks Prevent productivity collapse for overworked teams





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





Avoiding Waste and Costly Rework

Rework has high cost Rework takes time Rework creates defects Rework is bad Refactoring can be a cover up



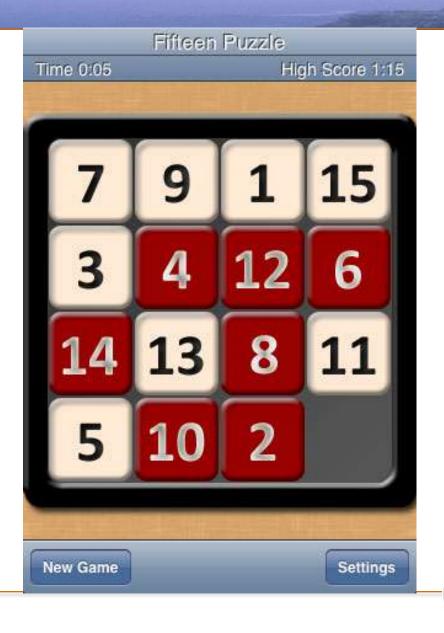


Some Practical Advice



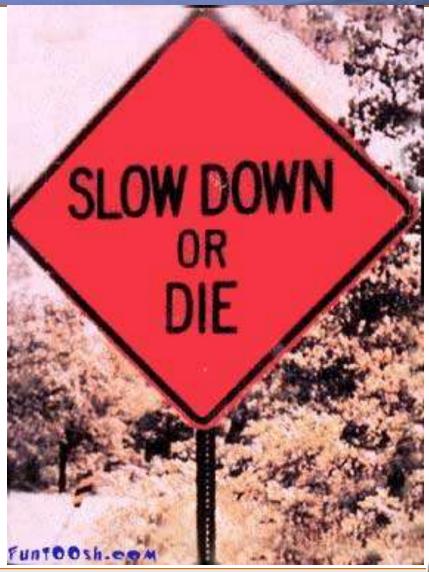
The Intelligence behind Successful Software Project

Build a Little Less



The Intelligence behind Successful Software Projects

Take a Little More Time





Get Smart People





Use Small A-Teams





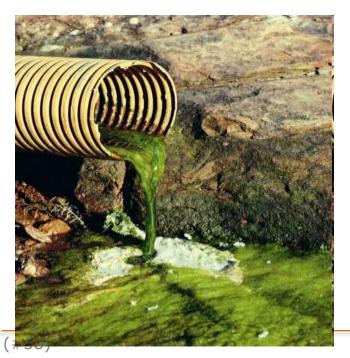
The Intelligence behind Successful Software Projects

Give Them the Best Tools











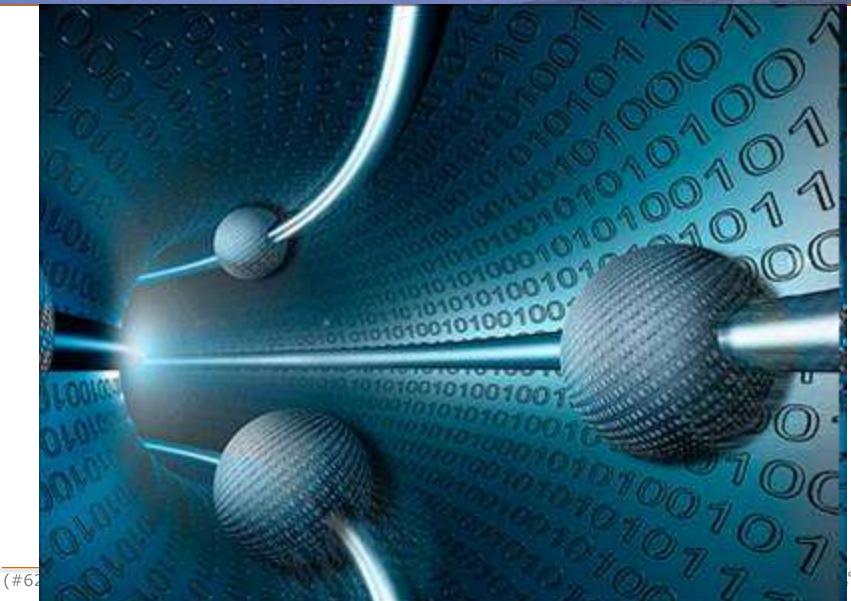




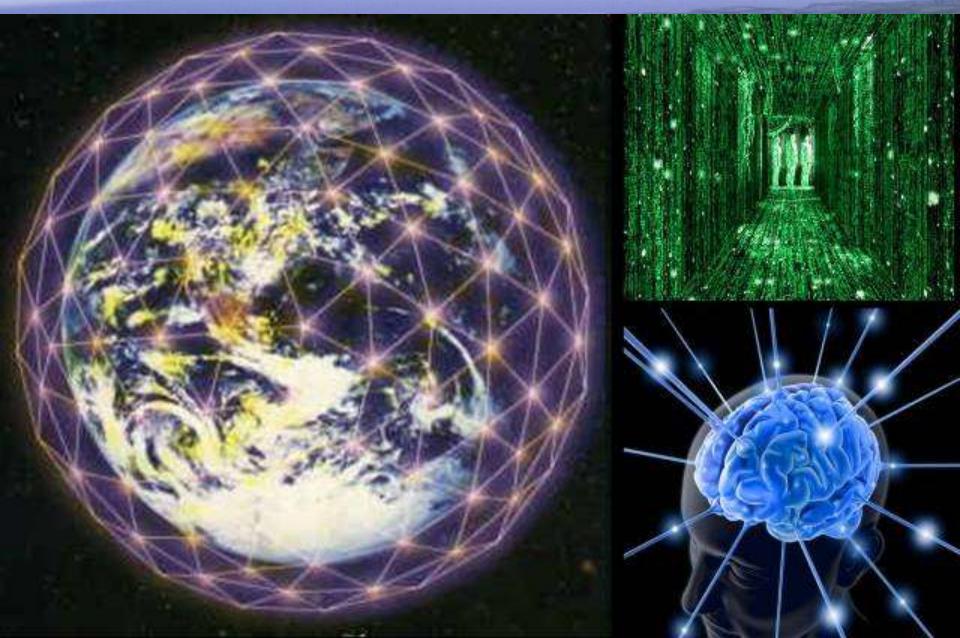


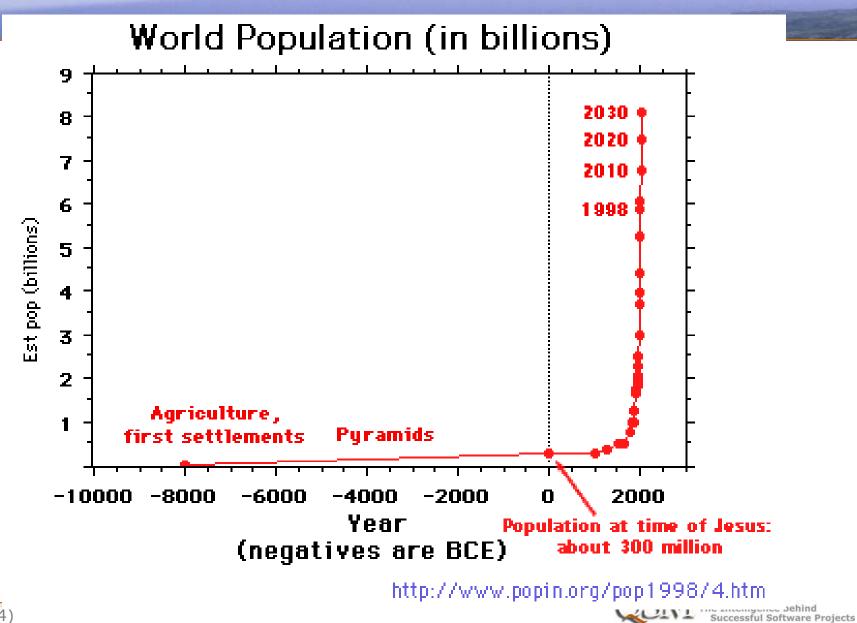


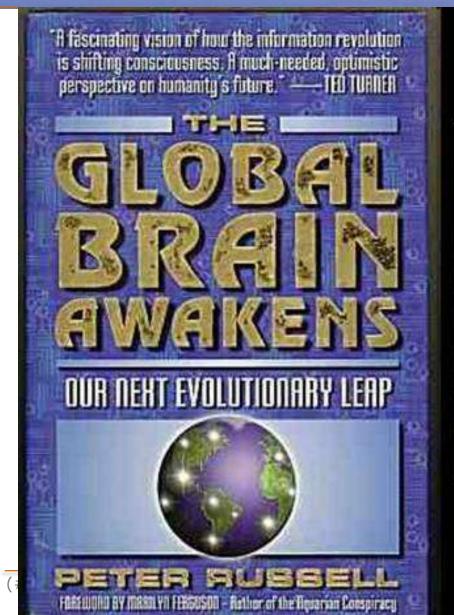
A Global Digital Nervous System



Is The Earth Growing a Brain?









Difficult Software Conversations "Facing tough problems with heart"

YOUR BOSS . YOUR SPOUSE . YOUR FRIENDS Your Kids . Your clients

Difficult Conversations

HOW TO DISCUSS WHAT MATTERS MOST

DOUGLAS STONE BRUCE PATTON SHELLA HEEN OF THE HARVARD REGOTIATION PROJECT

With a foreword by Roger Fisher, coauthor of GETTING TO YES

The Intelligence behind Successful Software Projects

www.qsma.com Software Project Management QSM ASSOCIATES That Learns From Experience ABOUT QSMA | TOOLS SEARCH GO SERVICES TRAINING | RESOURCES | CONTACT US Ready for Rational software We have better SLIM-Estimate SLIM-Control tools for predicting SLIM-Metrics the future... Estimate Express Precision software tools backed Download by industry leading consulting Demo Find out how QSMA can help your organization control costs and create better software >> SLIM Suite Demos TOOL NEWS INDUSTRY CONNECTION TRAINING ALERT October 19-21, 2011 **Optimal Friction** Evolved & Improved...SLIM SLIM Training Alert...learn how NEW! 8.0 The leading software SLIM can improve your inhouse Michael's Blog



Join Michael Mah on

development tools are shipping...contact us for a look

Features new templates and robust portfolio management via improved SLIM-MasterPlan1

See the Overview Here Learn

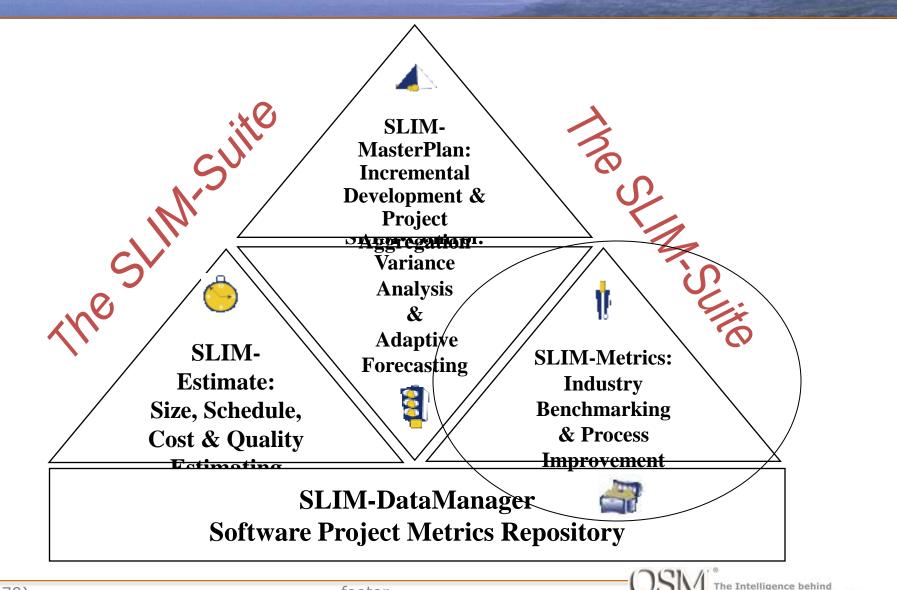
measurement efforts! Act now...Join us for 3 days of immersion in the theory and practice of more effective estimating and benchmarking. Said a recent attendee from a major international pharmaceutical company: "This is the first tool The second had which Town over the

RESOURCES

Webinar with Michael Mah! Please click here to view

On October 12, Michael Mah presented the webinar "Raising your Technical Debt Ceiling.. Or Not"? View this link to watch Michael present case studies and research from OSM's database of more than 10,000 completed projects.

Michael Mah's upcoming



Successful Software Projects

For Additional Information

Michael Mah email: <u>michael.mah@qsma.com</u> website: <u>www.qsma.com</u> blog: <u>www.optimalfriction.com</u> twitter: @michaelcmah Tel: 1 413-499-0988

