

Scrum: A Manager's Guide Agile Development Practices East 2010 November 16, 2010 Orlando, Florida by Kenny Rubin

Includes slides from: Mountain Goat Software

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Background of Kenny Rubin

Author



Trainer/Coach

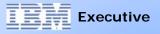
Trained more than 15,000 people in Agile/Scrum, SW dev and PM

Provide Agile/ Scrum coaching to developers and executives

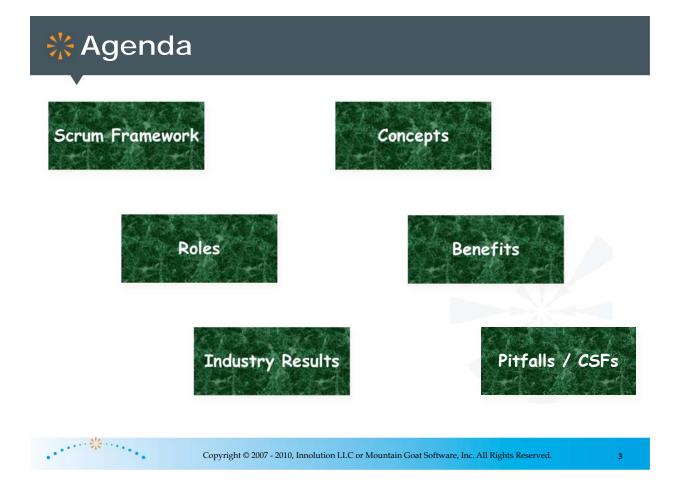




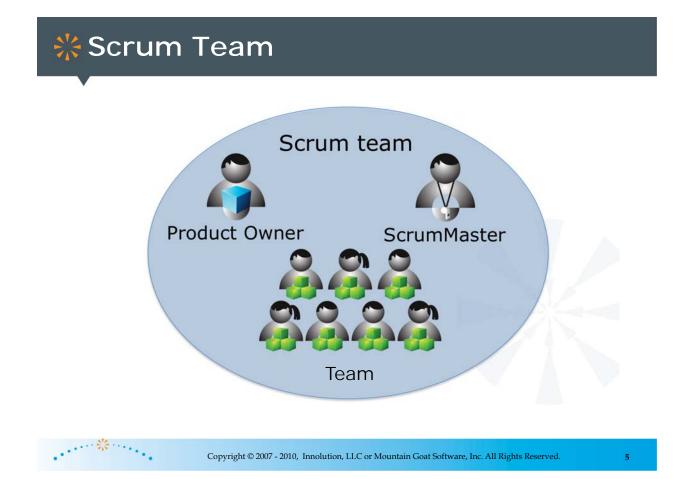
My first Scrum project was in 2000 for bioinformatics GENOMICA

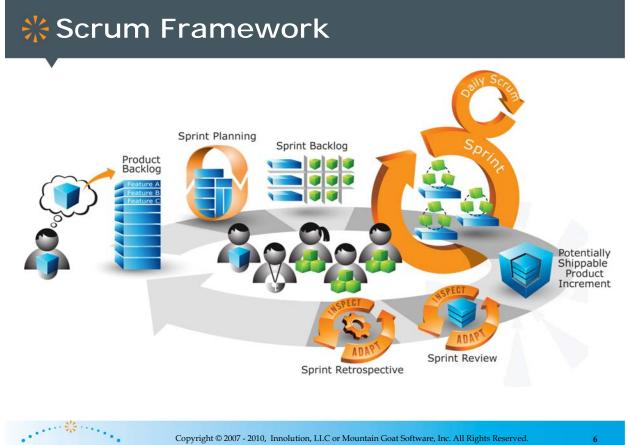






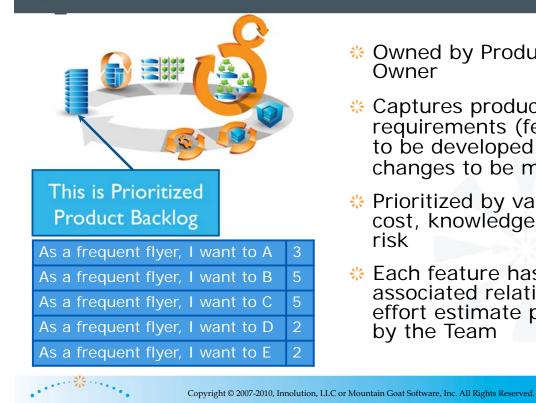






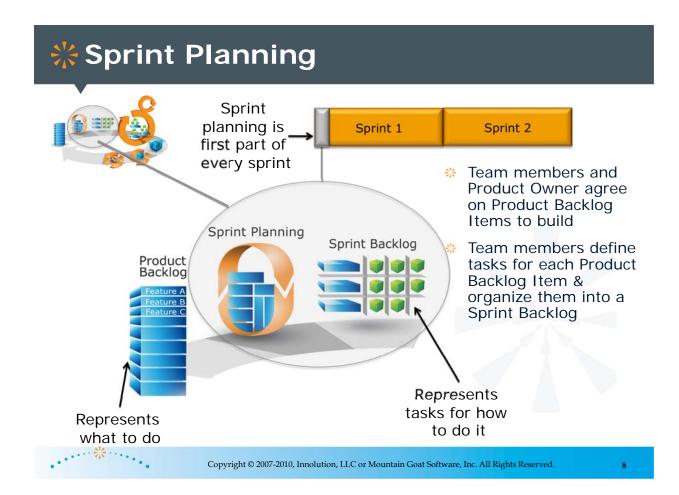
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Prioritized Product Backlog

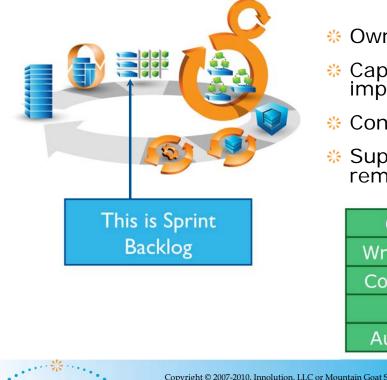


- Owned by Product Owner
- Captures product requirements (features to be developed or changes to be made)
- Prioritized by value, cost, knowledge and risk
- Each feature has an associated relative effort estimate provided by the Team

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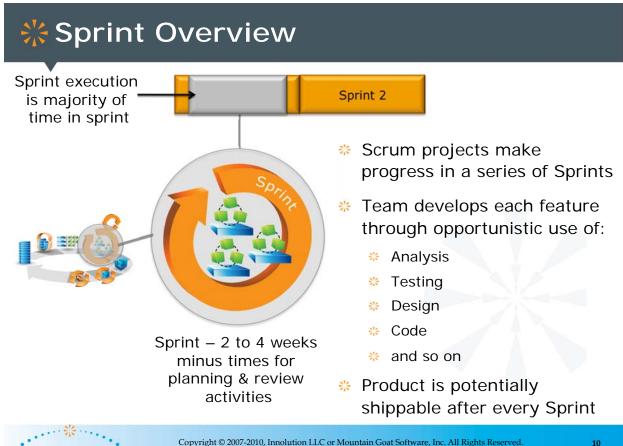
Sprint Backlog



Owned by the Team

- Captures Sprint implementation strategy
- Consists of tasks
- Supports tracking of remaining effort

Code the UI	8
Write test fixture	6
Code middle tier	12
Write tests	
Automate tests	4



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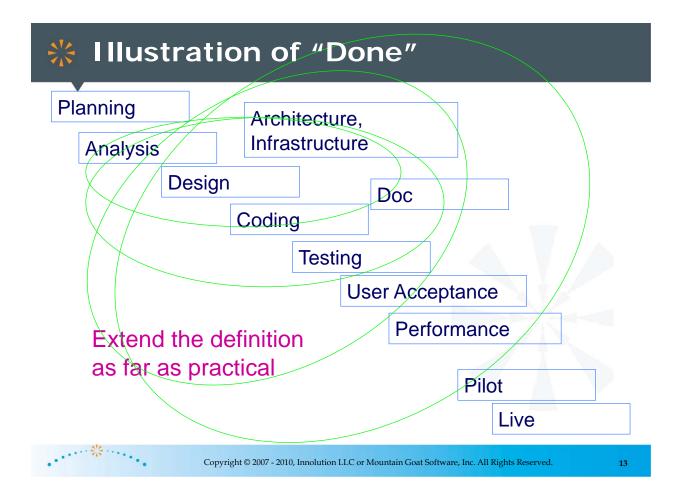
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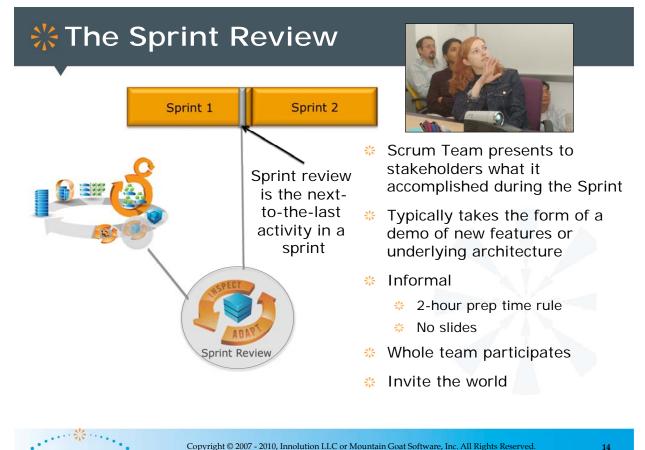
* What is the Daily Scrum

Daily Scrum	 Parameters Daily 15-minutes Stand-up Not for problem solving Three questions: What did you do yesterday? What obstacles are in your way? Chickens and pigs are invited Only pigs can talk Help avoid other unnecessary
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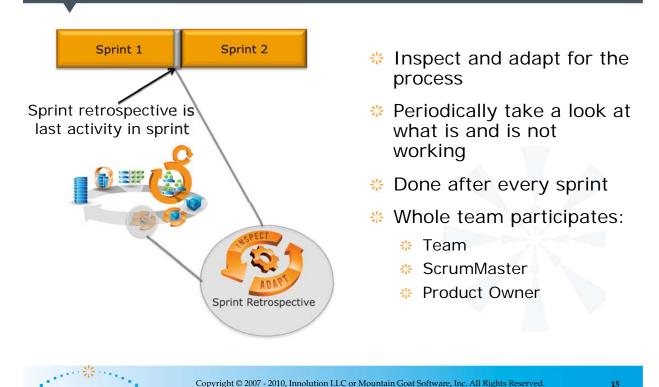
Potentially Shippable Product







Sprint Retrospective

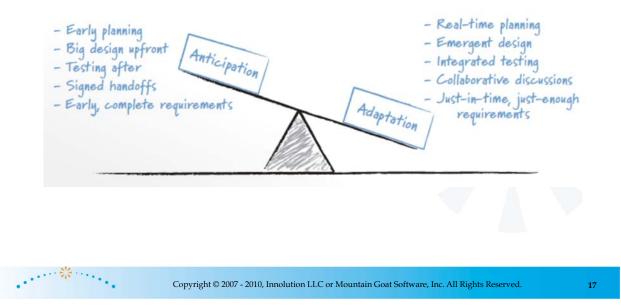


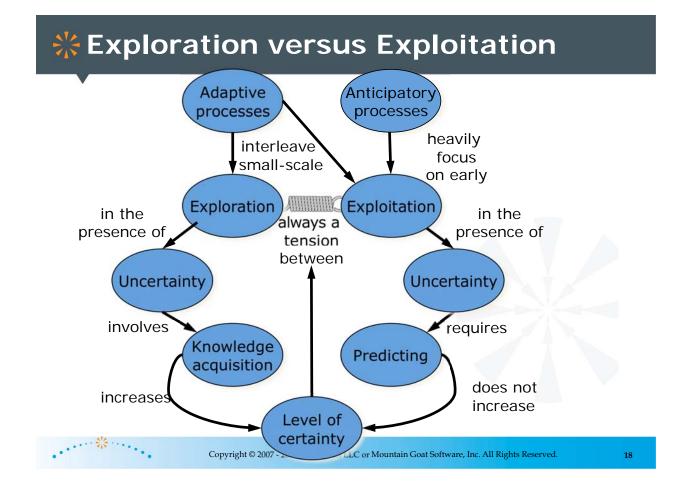
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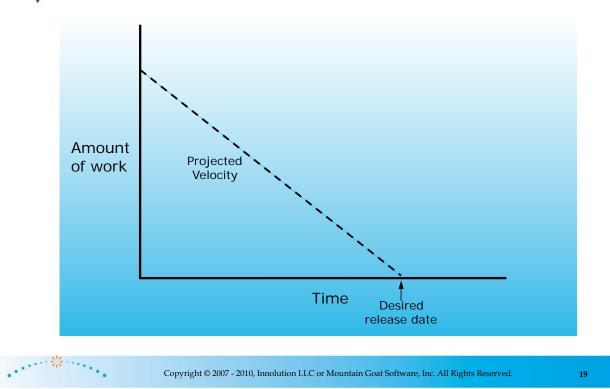
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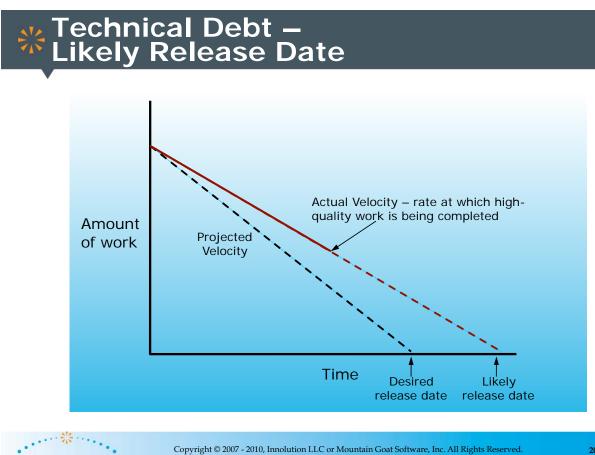
Need to Balance Anticipation with Adaptation



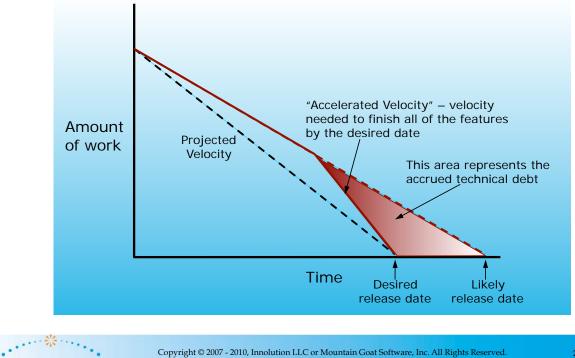


Technical Debt – Desired Release Date



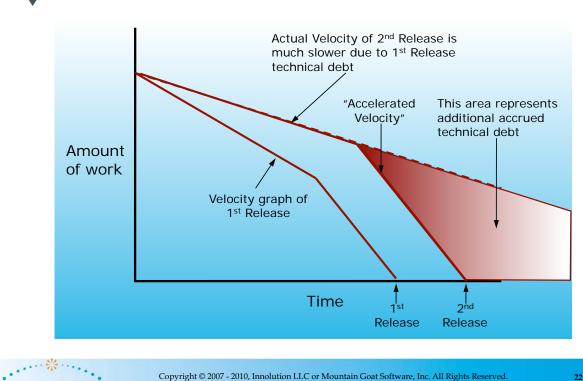


Compromised Release Date Leading to Technical Debt



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More Compromises; More Technical Debt



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* Technical Debt – Make It Visible

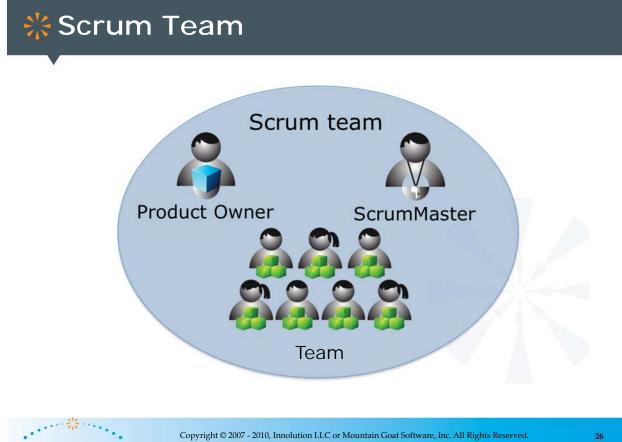
- * Like financial debt, not all technical debt is bad
- # All business people have visibility into financial debt on their balance sheet
- Most business people have no clue what kind of technical debt is in their systems

Assets		Liabilities	1
Cash	\$600,000	Current Liabilities	
Acct Receivable	\$450,000	Notes Payable	\$100,000
		Accounts Payable	\$75,000
		ST Technical Debt	\$90,000
Tools & Equipment	\$250,000	Long Term Liabilities	
		Notes Payable	\$300,000
		LT Technical Debt	\$650,000
			•••
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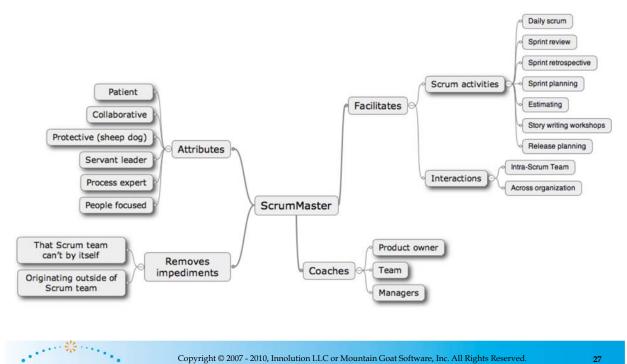
Fechnical Debt – Make Economically Viable Choices

- Can't meet delivery date with all features
- Option 1 delay shipping the product by three months to finish the work
 - Calculated cost of delay = \$450k (lost sales)
- Option 2 take on technical debt
 - Estimated additional cost of \$60k to repay debt with interest after the product ships
 - Probably some additional costs since other projects might have a delay





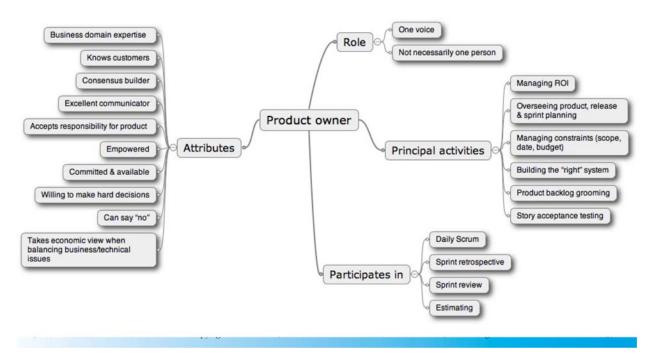
🔆 ScrumMaster



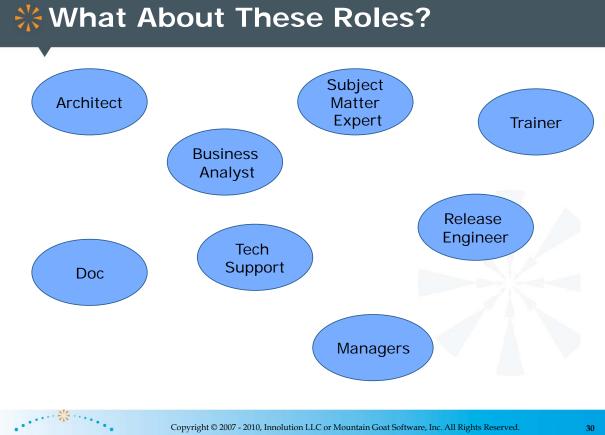
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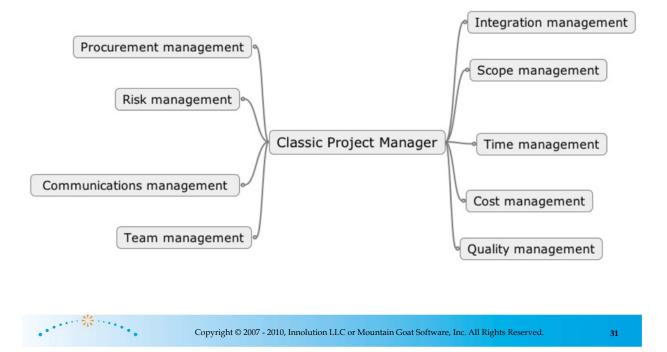
Product Owner



Characteristic	Description		
Self organizing	Team decides how best to organize to meet the Sprint goals		
Self managing	Every member of the Team is responsible for "managing" the Team		
Cross-functionally Sufficient	No "roles," but all necessary skills (e.g., QA, Programming, UI Design, etc.) necessary to go from Product Backlog to potentially shippable product increment		
Right sized	Seven plus or minus two team members		
Empowered	Authority to do whatever is needed to meet commitment		
Committed	Committed to delivering Sprint features		
Focused	Members should be full-time or at least not spread "too" thin		
Immutable	During a Sprint, Team structure does not change; membership can change between Sprints		
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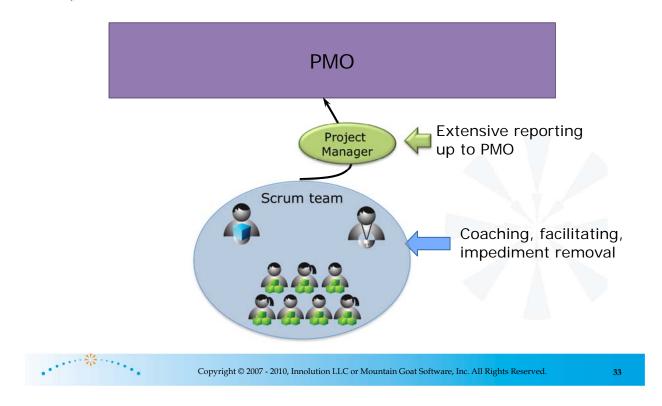
Classic Role of Project Manager



Frequent Mapping of Responsibilities

Area	РО	SM	Team	Other Mgr
Integration	✓			?
Scope	Macro-level		Sprint-level	
Time	Macro-level		Sprint-level	
Cost	~		Story/task estimating	
Quality	✓	✓	✓	✓
Team			✓	Formation
Communication	✓	✓	~	✓
Risk	✓	✓	✓	✓
Procurement	~			v

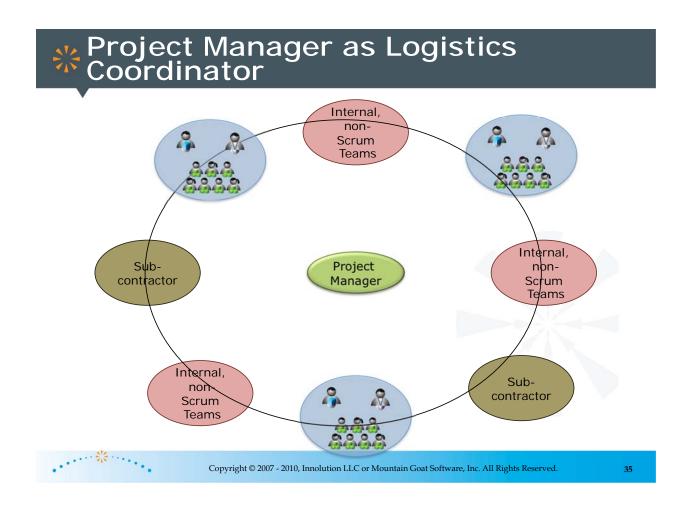
Project Manager as Reporter



Project Manager as Impediment Remover



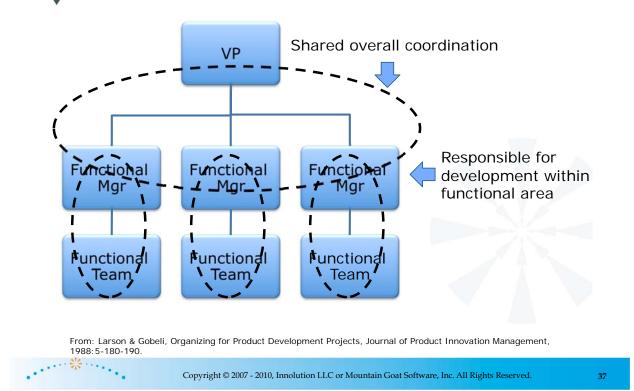




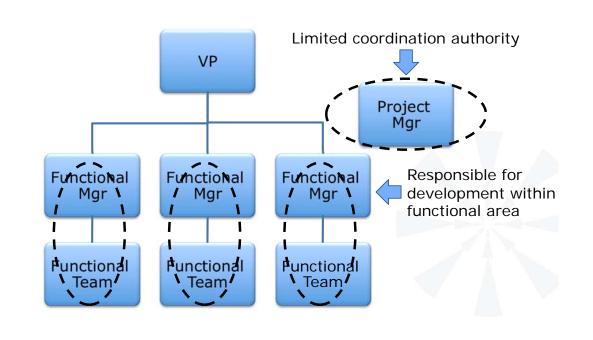
% Functional Managers

- * Manage people with similar, specialized skills
 - * Manage professional development and career progression
 - Do personnel performance reviews
- Manages activities in a functional area
 - * E.g., development, QA, UX, Art, etc.
- Aliases:
 - Line manager, resource manager, and others

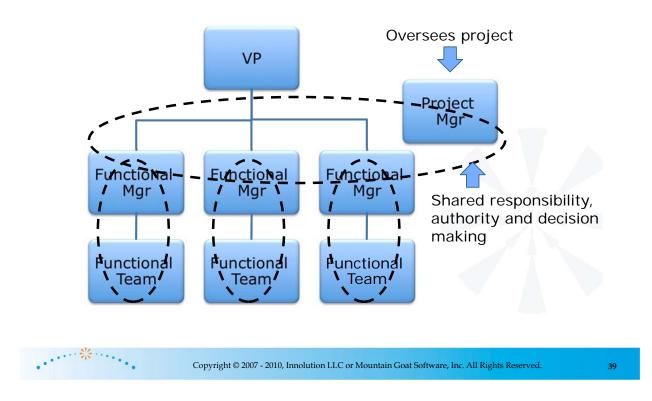
Functional Team

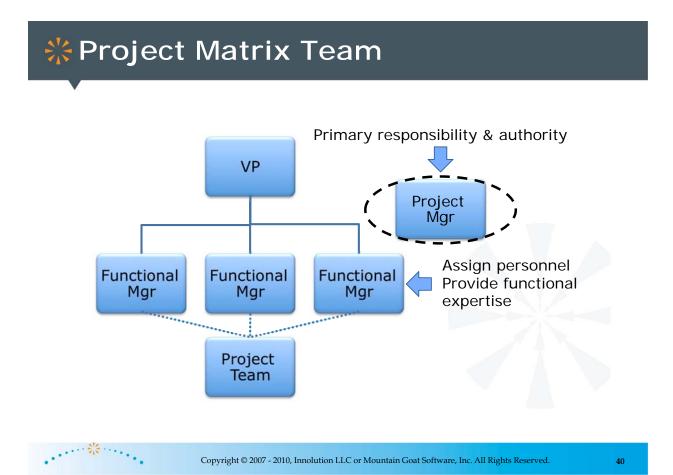




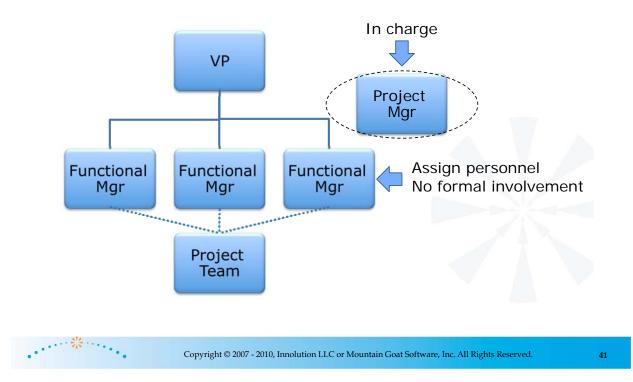


🔆 Balanced Matrix Team



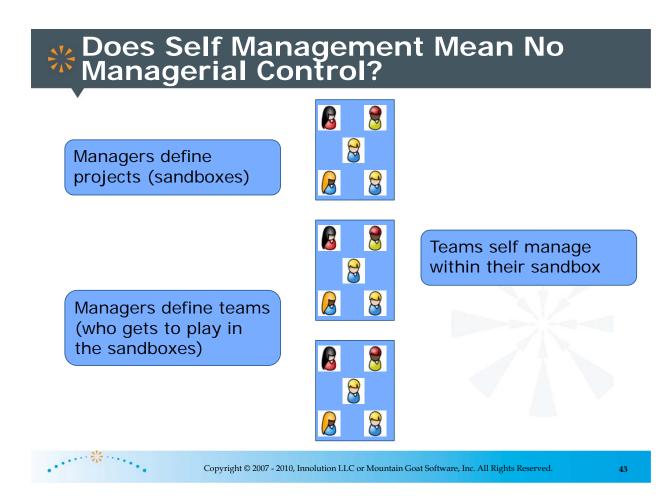


Project Team



Scrum Teams & Communities of Practice

•	Scrum 1	[eams		Functional Mana Community Lead	0
				Programmer Community of Practice	
	8	8	8	UI Designer Community of Practice	
				Tester Community of Practice	
				DBA Community of Practice	
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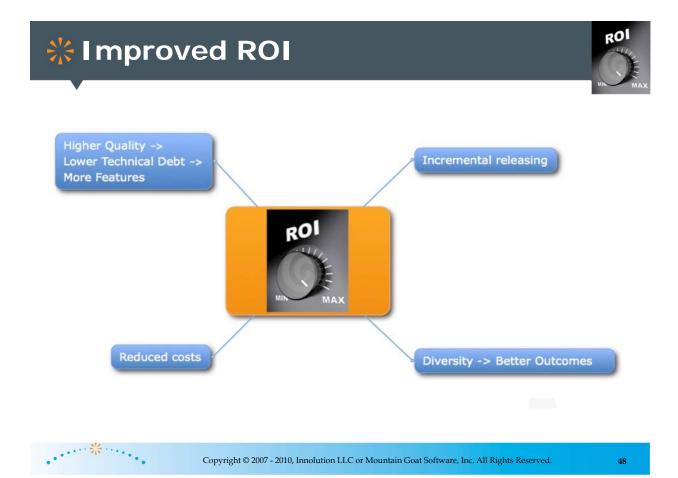
Senior/Executive Manager

- Understand scope of change and timeframe required
- * Provide directional leadership
- Facilitate impediment removal
- Promote transparency
- Make the hard choices
- * Membership and leadership of transition team
- Are available

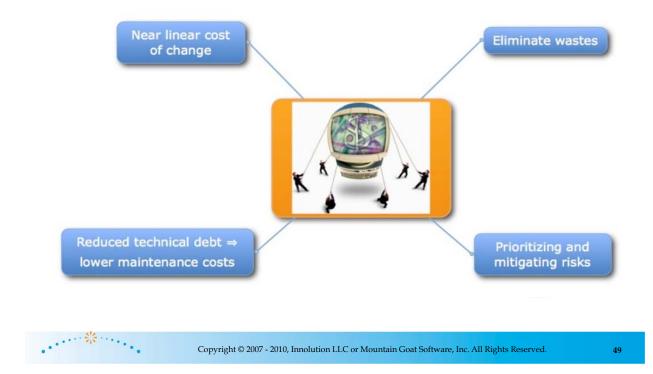






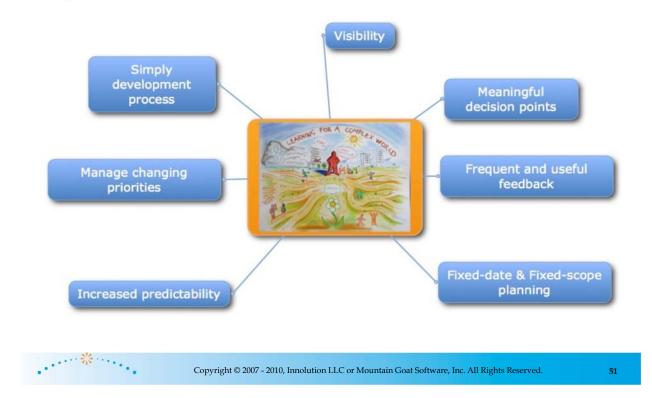


Reduced Costs





Confidence to Thrive in a Complex World

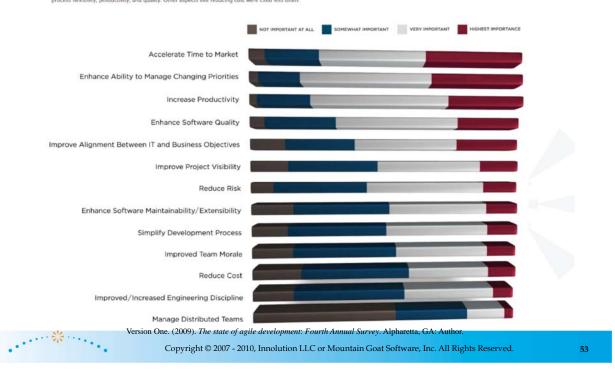




Industry Study – Reasons for Adopting Agile

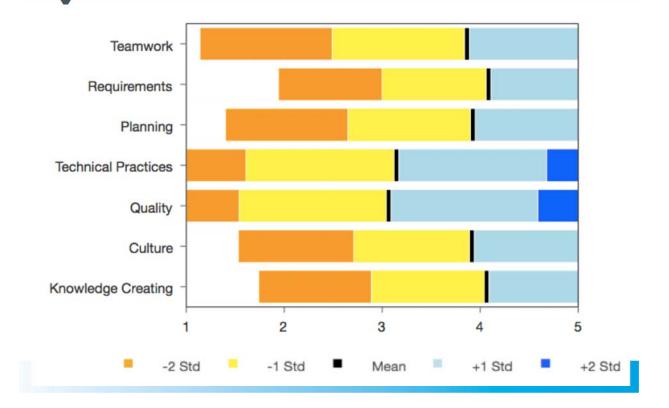
REASONS FOR ADOPTING AGILE

The main reasons cited by respondents as to why they decided to adopt Agile practices hinged on overall process flexibility, productivity, and quality. Other aspects like reducing cost were cited less often.



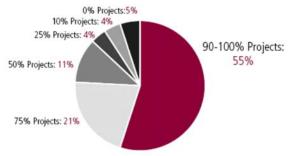


Comparative Agility Industry Data



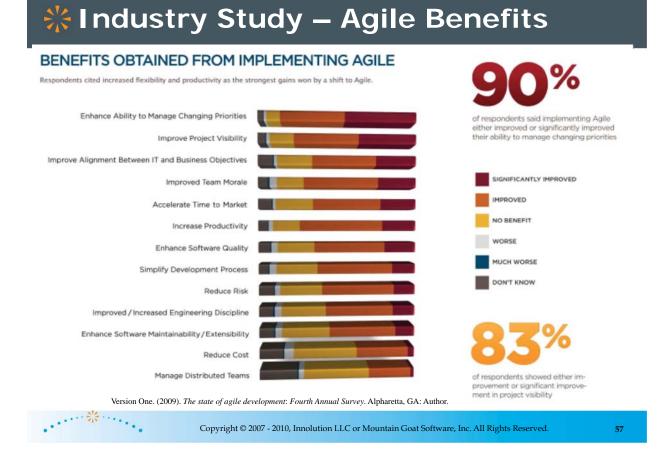
Agile Success Rate

What percentage of Agile projects have been successful from the perspective of your organization? (choose closest answer)



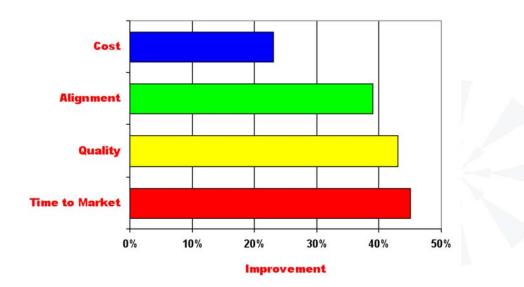
Successful Projects	Respondents
0%	4.8%
10%	3.7%
25%	3.8%
50%	11.5%
75%	21.2%
90% - I cant say 100% but pretty close.	37.6%
100% - I cant remember a project using Agile methods that wasn't considered successful.	17.4%

Version One. (2008). The state of agile development: Third Annual Survey. Alpharetta, GA: Author.



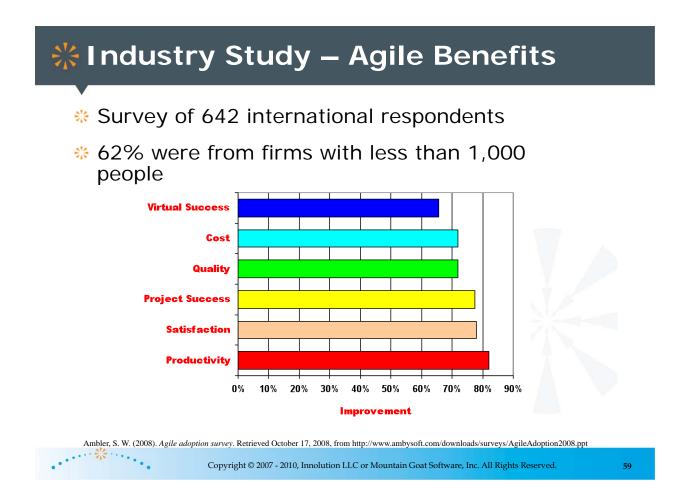
🔆 Industry Study – Agile Benefits

* Survey of 400 international respondents

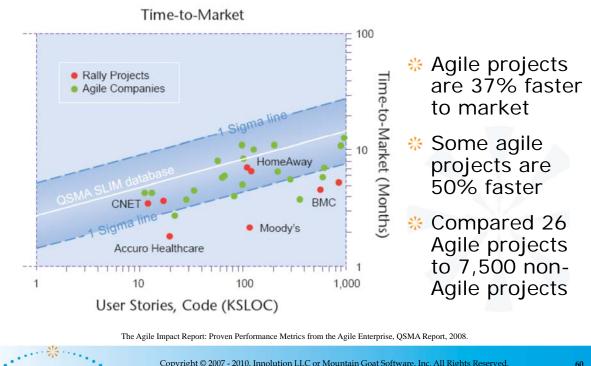


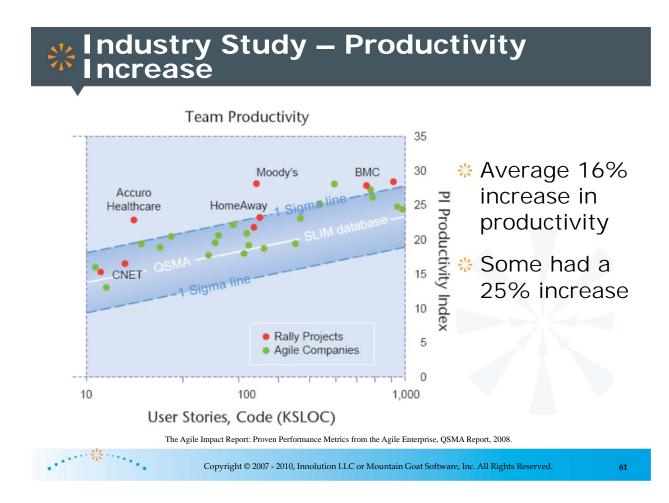
Barnett, L. (2006). And the agile survey says. Agile Journal, 1(1).

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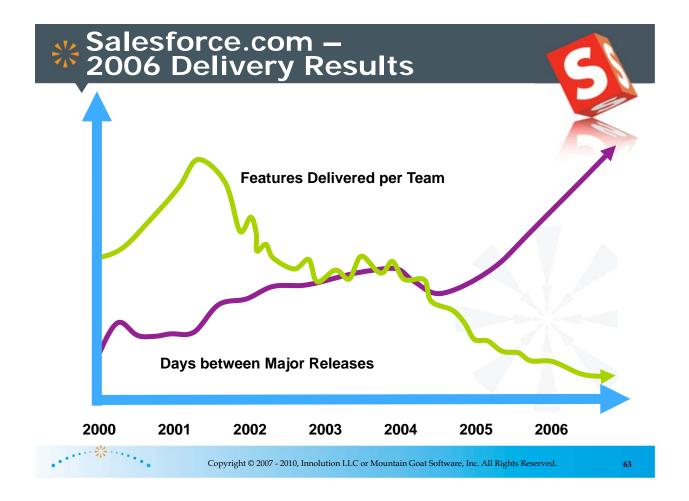
Industry Study – Speed to Market

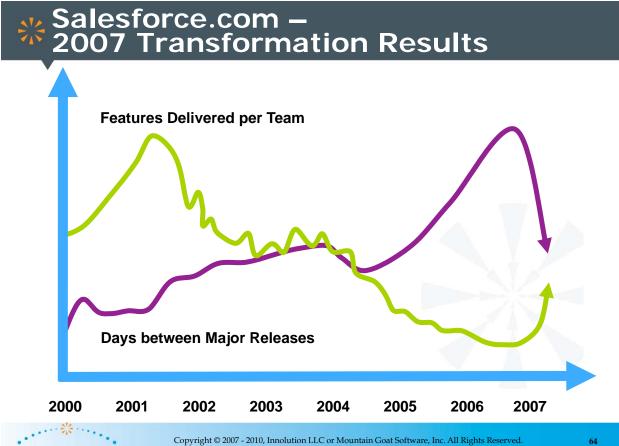




Biotech Company Results

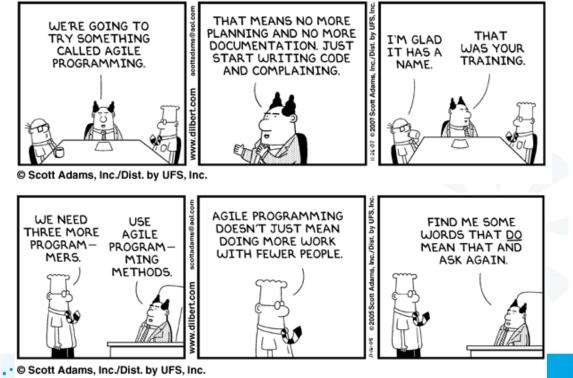
	1	
	Waterfall	Scrum
Use Case pages	3,000	
User Stories		1,400
Calendar months	9	12
Person months	540	54
Lines of Java code	58,000	51,000
Lines of Java code per person-month	120	840

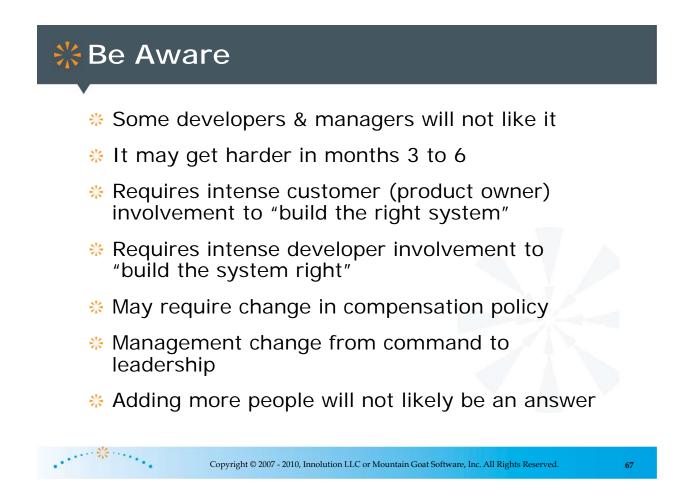






***** Believing Dilbert!





Additional Issues with Agile

- Agile is simple, but it can cause a lot of changes
- Need to be willing to work in time boxes (might not feel natural)
- Engineering, design and testing practices need to become more Agile
- Interactions and communication need to become clearer, more personal and more transparent
- Honesty, trust and a sense of commitment need to be developed
- Agile "exposes" issues quickly and effectively, but it doesn't "solve" them
- When the going gets tough it is easy to slip back into the old way of doing things.
- Courage is essential

Will You Change or Will You Change Scrum?

- Following Scrum out of the book isn't enough; a change in thought process is required and is hard
- Be ready for a major change that must be managed carefully. It can take years in larger organizations
- Don't modify Scrum; let Scrum point out the dysfunctionalities that need to change
- Most of the effort isn't in implementing Scrum but rather removing the dysfunctionalities it points out

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* Change will occur person by person



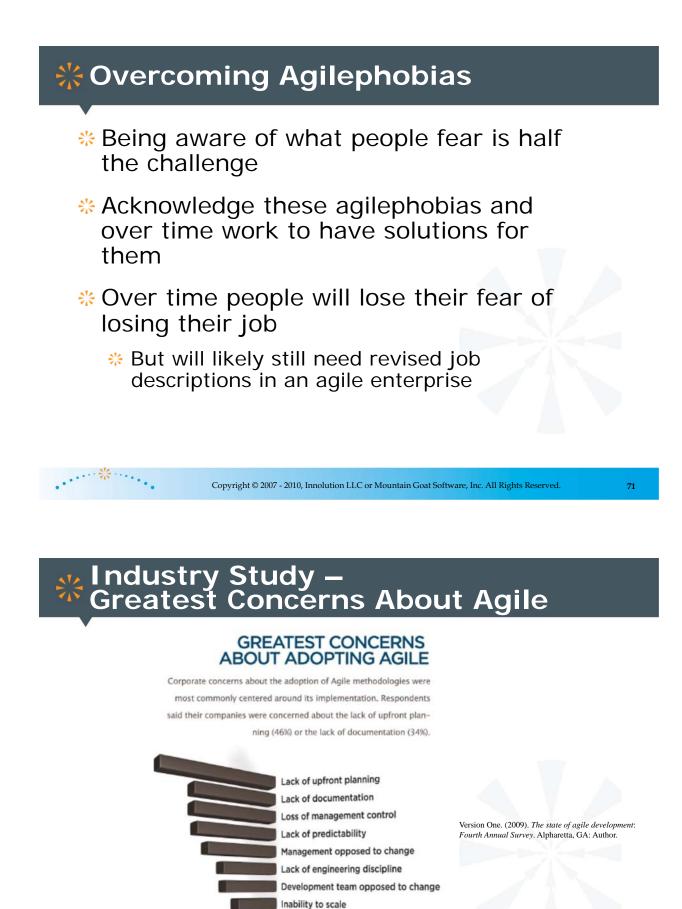
noun.

*

strong fear or dislike of agile, usually due to the uncertainty of change

- * I'm afraid I'll have nothing to do
- I'm afraid I'll lose my job
- * I'm afraid people will see how little I actually do
- I'm afraid I won't be able to keep up
- I'm afraid I won't be able to learn the new software
- I'm afraid this will mean hard work
- I'm afraid I'll be fired if the decisions we make don't work out
- I'm afraid of conflict and trying to reach consensus
- It's just so much easier and safer when someone else tells me exactly what to do

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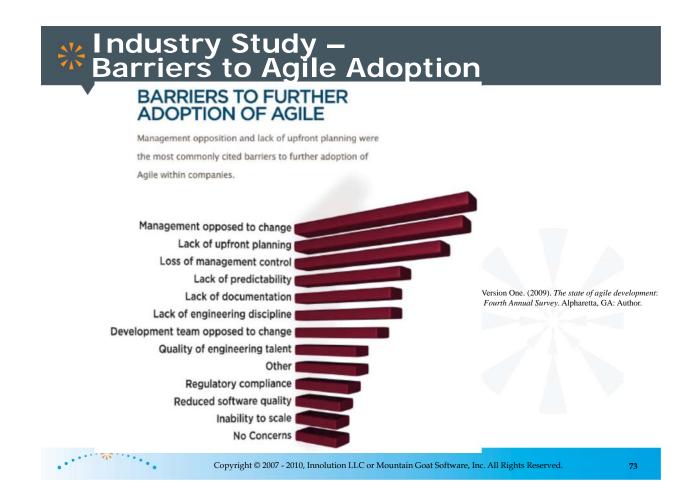


Regulatory compliance Reduced software quality Quality of engineering talent

No Concerns

Other

祭



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Scrum: A Manager's Guide Book Chapters	tinyurl.com/yj4m72c
Comparative Agility Website	www.comparativeagility.com