

Economically Sensible Scrum Scrum Australia Keynote April 10, 2013 by Kenny Rubin

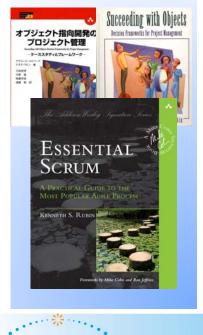
www.innolution.com

1

Copyright © 2013, Innolution, LLC. All Rights Reserved.

### Background of Kenny Rubin

#### Author



#### Trainer/Coach

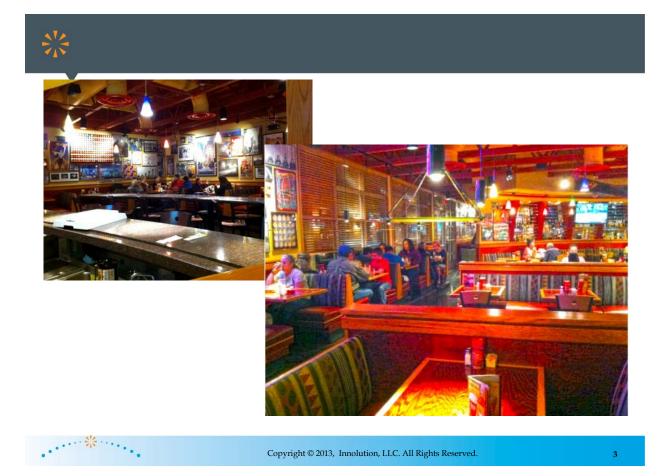
Trained more than 19,000 people in Agile/Scrum, SW dev and PM

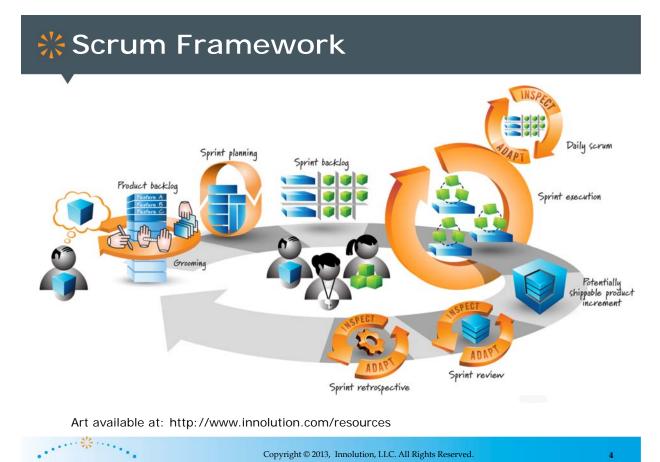
Provide Agile/ Scrum coaching to developers and executives

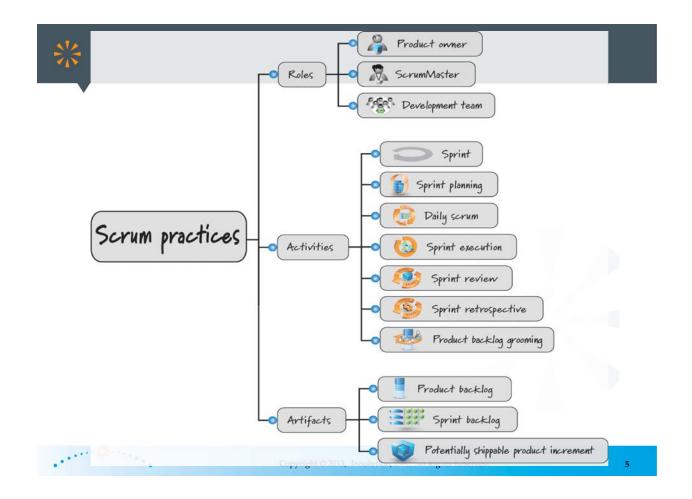


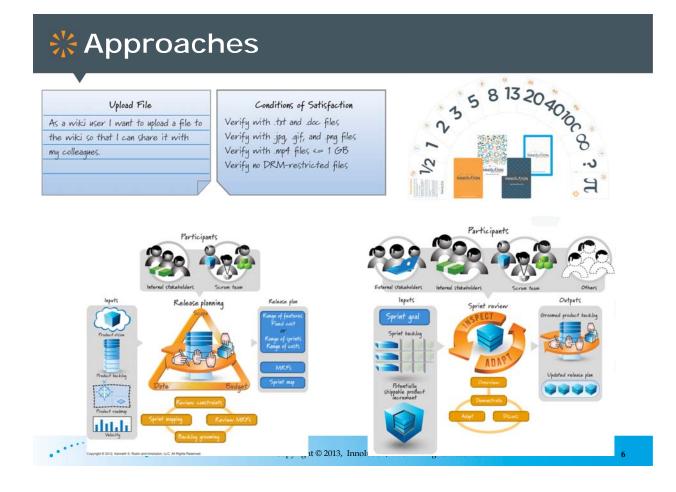
## Experience











# ScrumBut(t) – Violations of the Scrum Framework



We do Scrum, but...

Sprints are 8 weeks

No product owner

Daily scrums on M-W-F

Sprint planning is 2 days

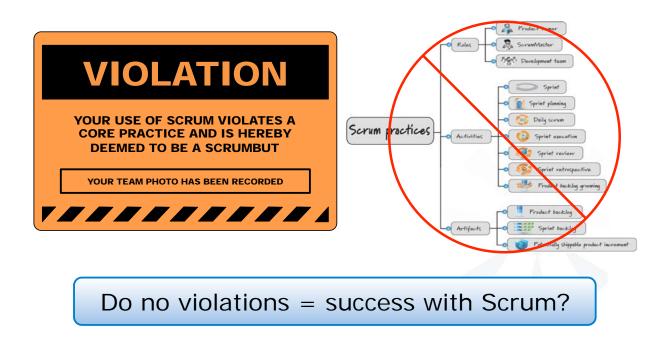
Etc...

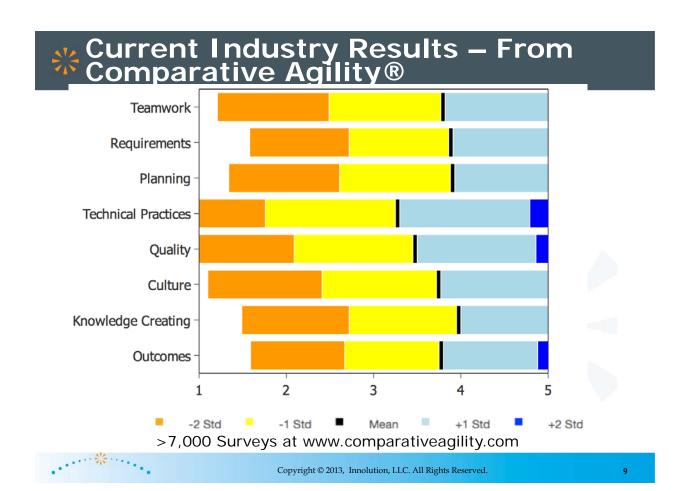
\*

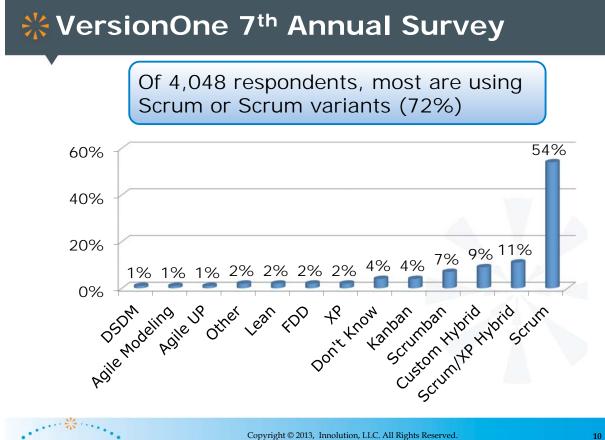
\*

Copyright © 2013, Innolution, LLC. All Rights Reserved.

#### What If We Had No Scrum "Violations?"







## Inhibitors to Success Using Scrum

Ignorance or misapplication of core agile principles during development

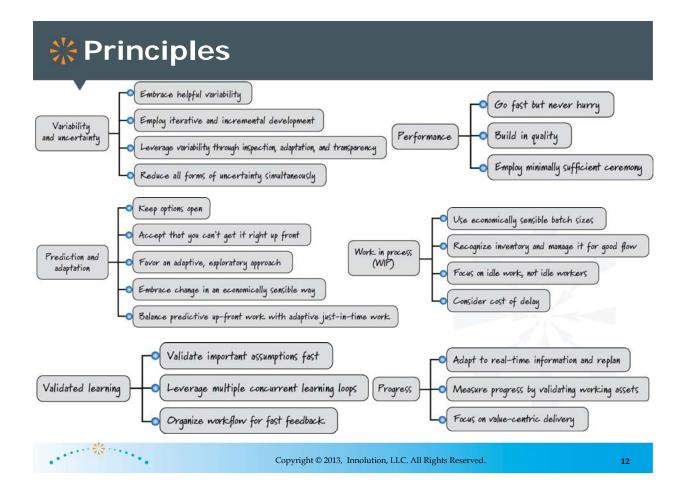
Failure to apply agile principles throughout the value chain

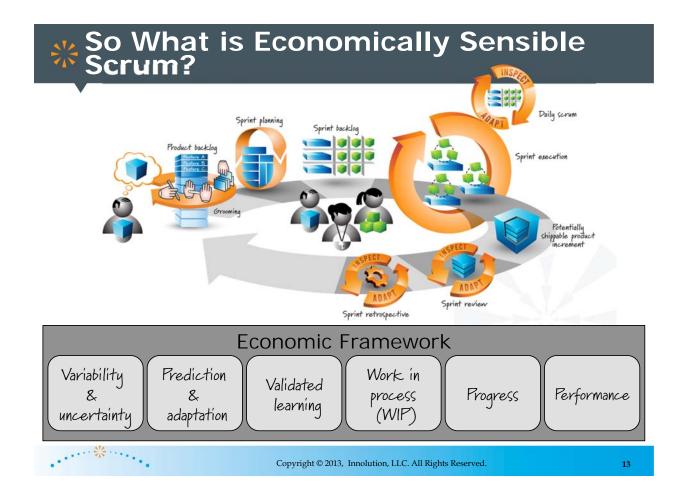
Failure to structure teams in an economically sensible way

\*

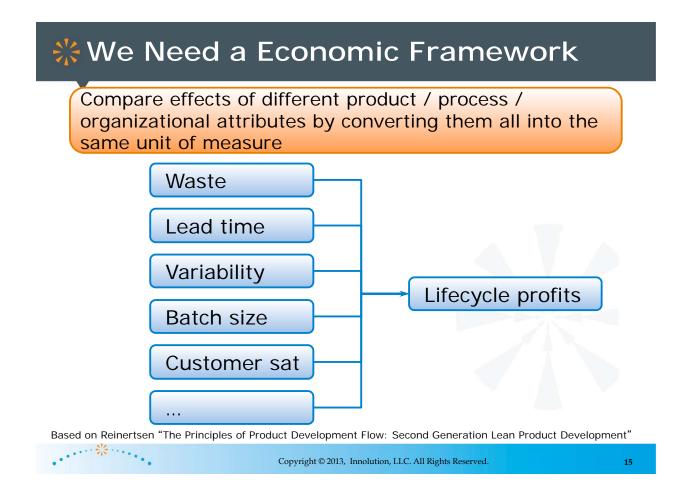
Overall, they don't apply core agile principles in an economically sensible way

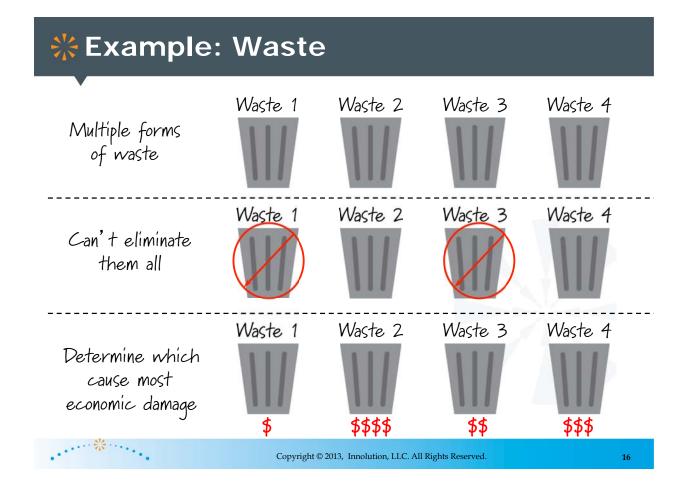
Copyright © 2013, Innolution, LLC. All Rights Reserved.





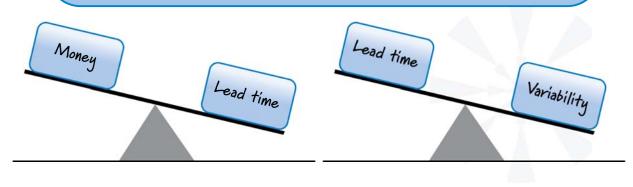
## Economics – The Universal Language of Product Development **ESPERANTO** BABEL FISH COC economi onomics onomics economia onomics \* Copyright © 2013, Innolution, LLC. All Rights Reserved.





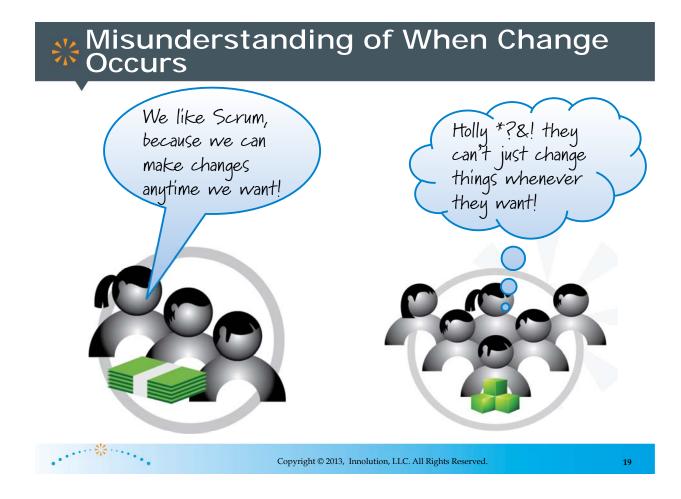
#### Example: Cost of Delay

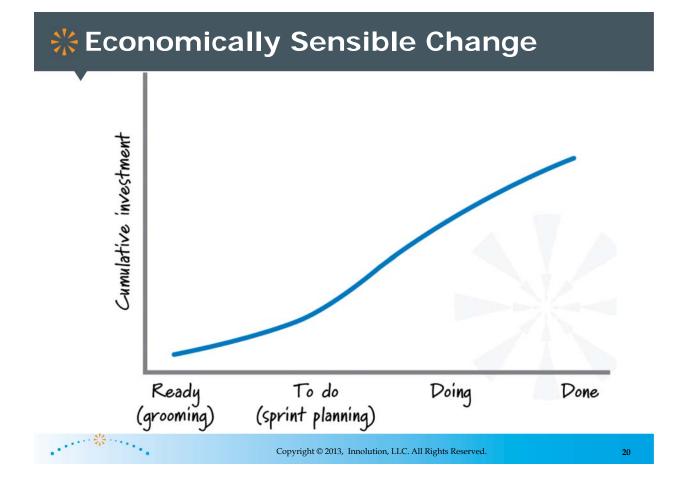
If you have to wait 3 weeks for the UX team to design your UIs, and that delay could be eliminated by having a UX designer on your team, what would be the cost of the UX-team delay (in lifecycle profits)?



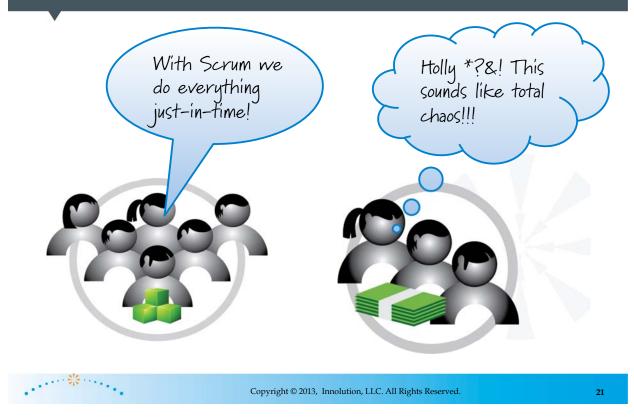
```
*
                                          Copyright © 2013, Innolution, LLC. All Rights Reserved.
                                                                                                          17
```





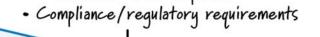


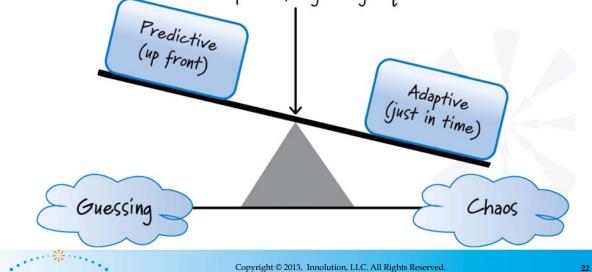
#### Misunderstanding of Just-in-Time



# Balance Up Front Predictive with Adaptive Just in Time

- Type of product
- Degree of end uncertainty
  Degree of means uncertainty
- Constraints on development

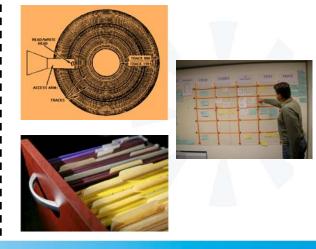




#### Recognize Inventory (WIP) Waste

Manufacturing inventory is both physically and financially visible Product-development inventory are knowledge assets that aren't visible in the same way as physical parts



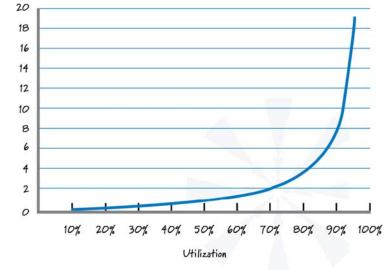


# Focus on Idle Work Not Idle Workers

#### Watch the Baton Not the Runners

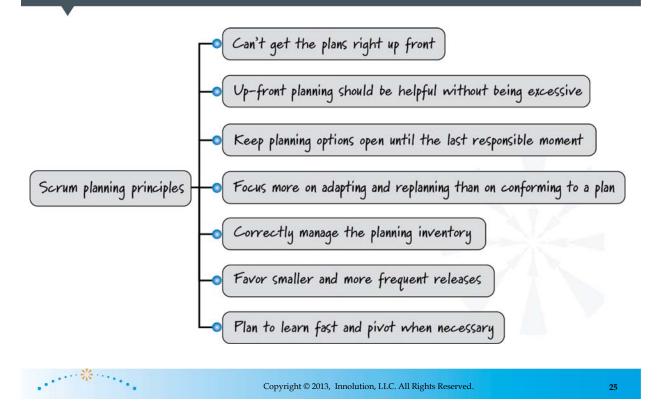
Copyright © 2013, Innolution, LLC. All Rights Reserved.





\*

#### \* Economically Sensible Planning



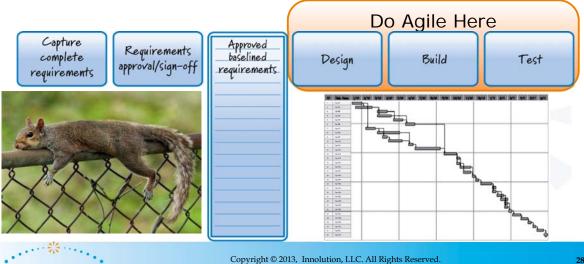


#### Example Value Chain

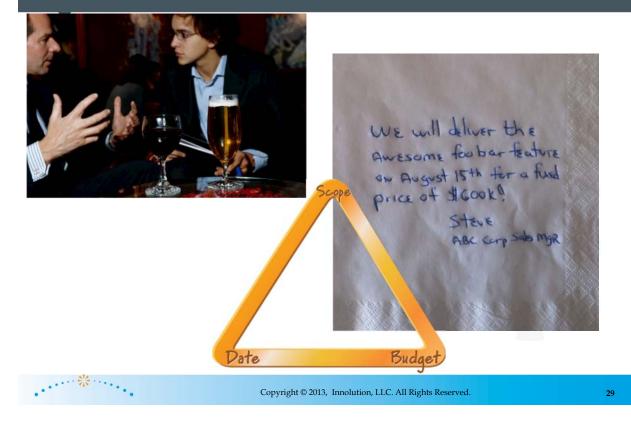


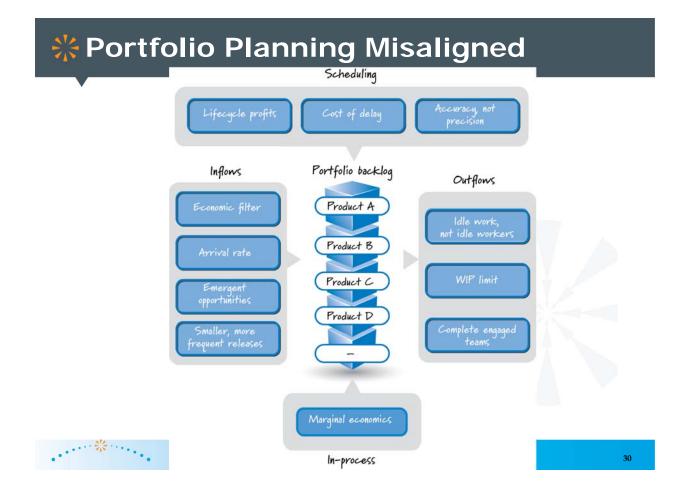
#### Internal Management Misaligned

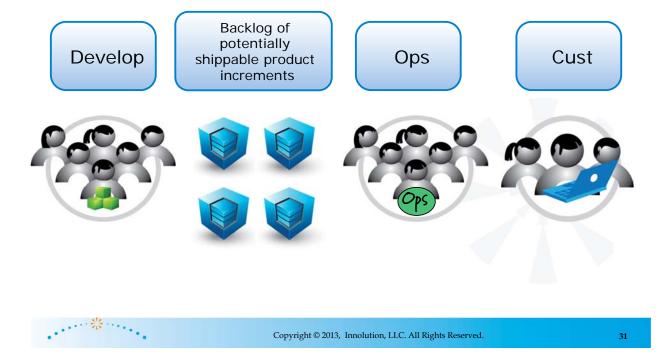
Develop in an Agile way, but still provide all of the same plan-driven artifacts (e.g., extensive up-front requirements, full budget, and precise schedule) like before to get the project approved

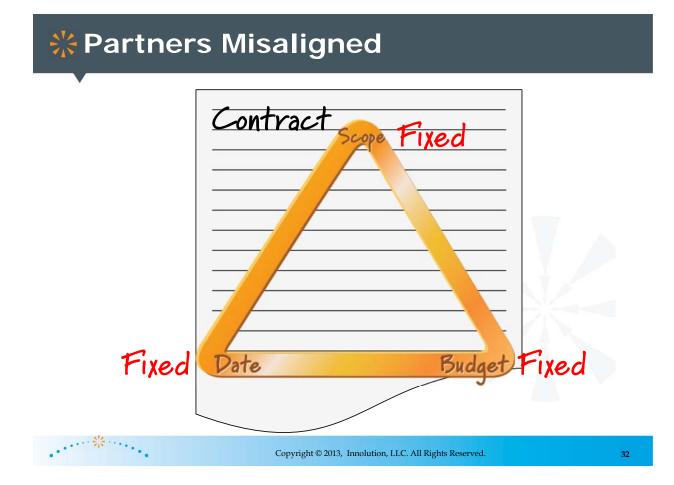


#### **Sales** Misaligned



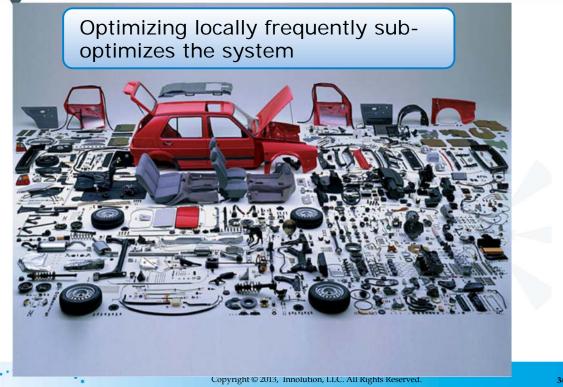






#### Protection of the Fieldoms George's Me too! Group Sure, we can do Me too! Scrum, as long as Me too! I don't have to change anything in Me too! my group! \* Copyright © 2013, Innolution, LLC. All Rights Reserved. 33

#### Failure to See the Whole





#### Sensible Teaming

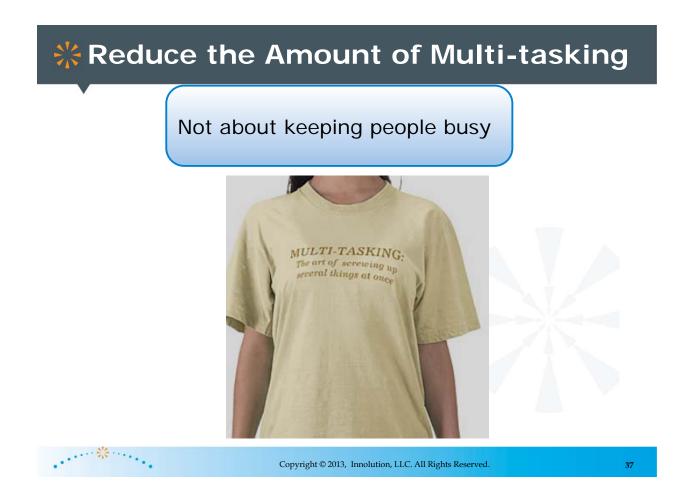
Reduce multitasking

Embrace T-shaped Skills

Create and maintain long-lived teams

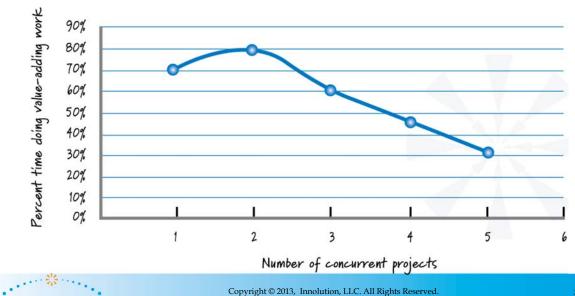
Scaling teams based on economics, not dogma

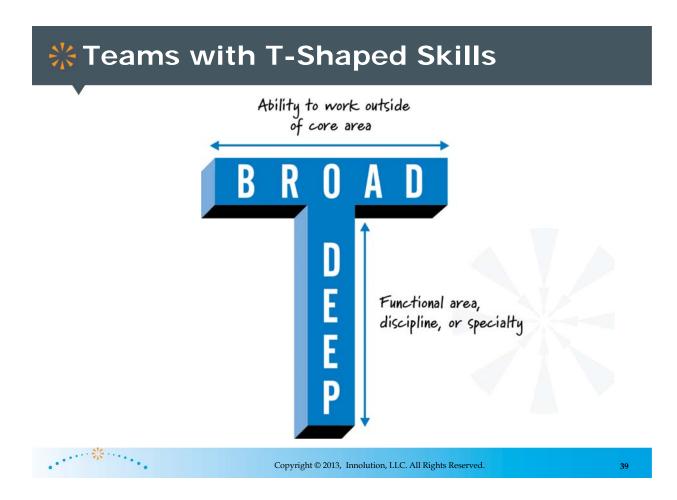


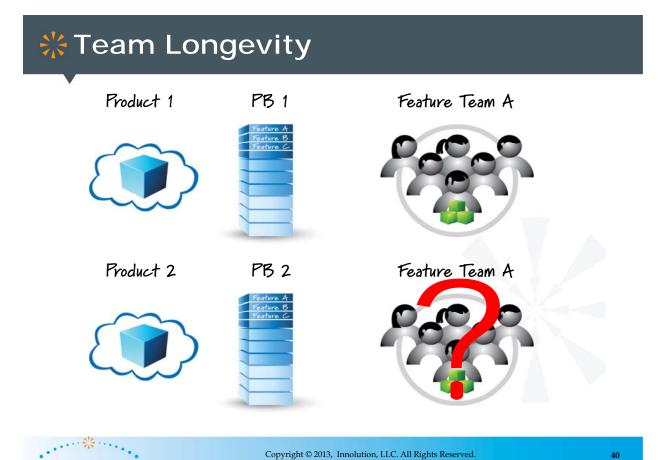


#### 🔆 Multitasking

Clark and Wheelwright (1992) studied multi-tasking and determined that when working on more than **two projects**, a person's time spent on value-adding work drops rapidly







#### Seconomics Favor Long-lived Teams

Have established trust and team identity and integrity

More productive than newly formed groups

Team familiarity can positively impact efficiency and quality of team output

Has a shared velocity and estimating history that can be used during planning

\*



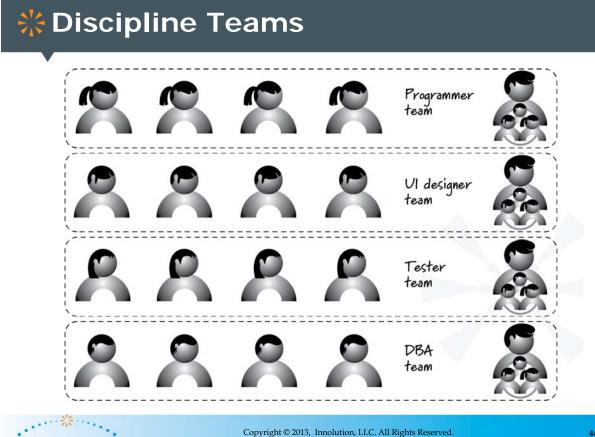
	.7	-15	# of St -0.5	 		15	2
	Teamwork	1.5	0.5	0.5	Î	1.5	-0.22
Projects with at least 100 people (320 surveys)	Requirements						-0.26
	Planning						-0.2
	Technical Practices						-0.21
	Quality						-0.21
	Culture						-0.27
	Knowledge-Creating						-0.18
	Outcomes						-0.42
***	-2	-1.5	# of St -0.5			1.5	2

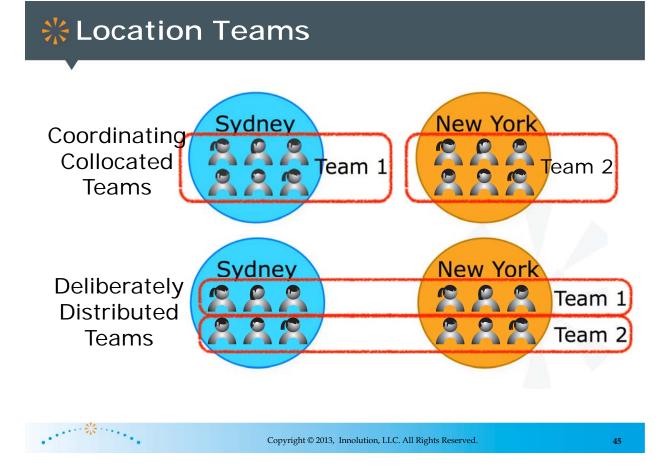
#### Scaling With Multiple Teams

As the scope of work gets larger and one team is no longer sufficient, what is your scaling strategy?

Copyright © 2013, Innolution, LLC. All Rights Reserved.

\*





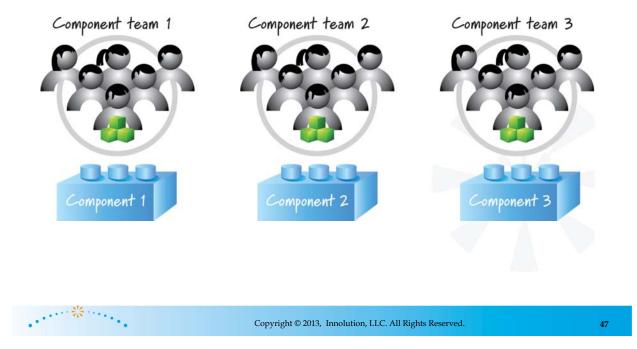
#### **Architectural Layer Teams**

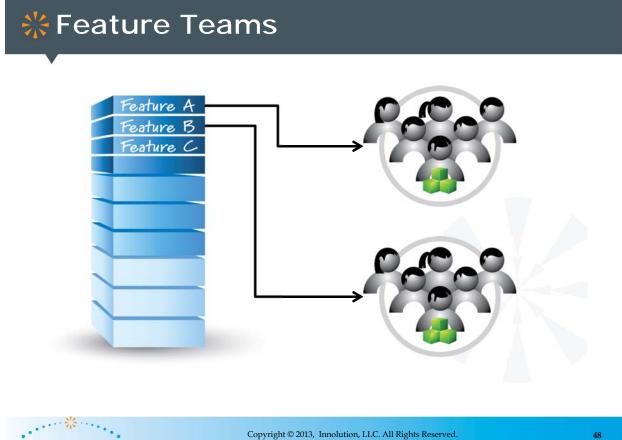
\*

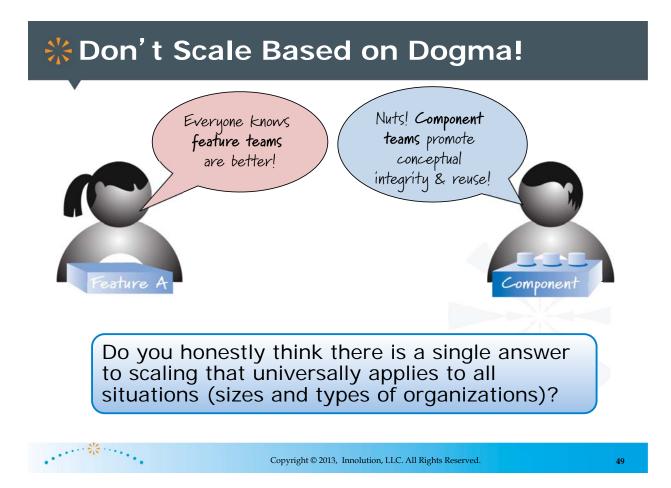


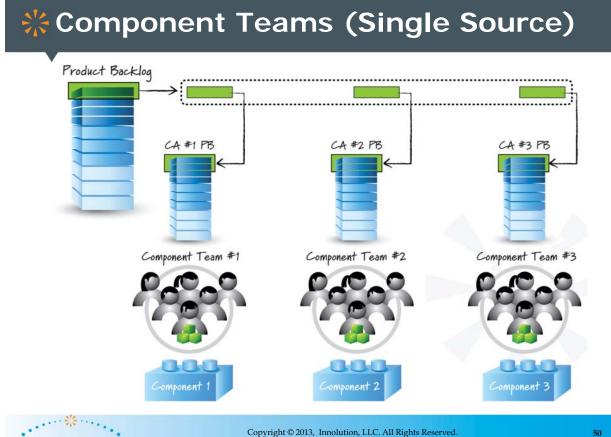
Copyright © 2013, Innolution, LLC. All Rights Reserved.

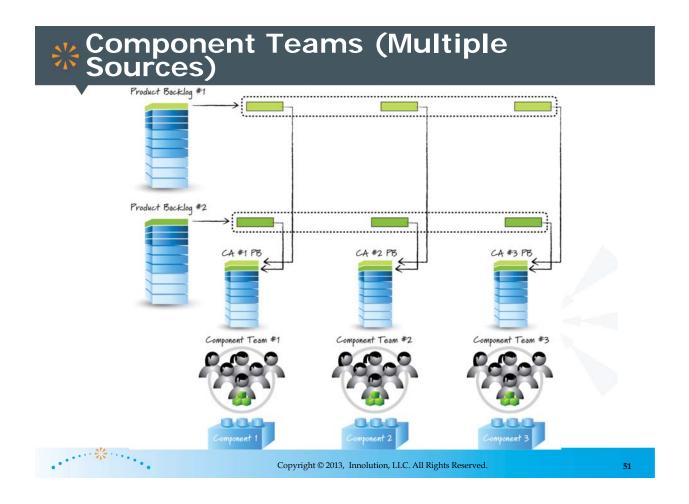
### Component Teams

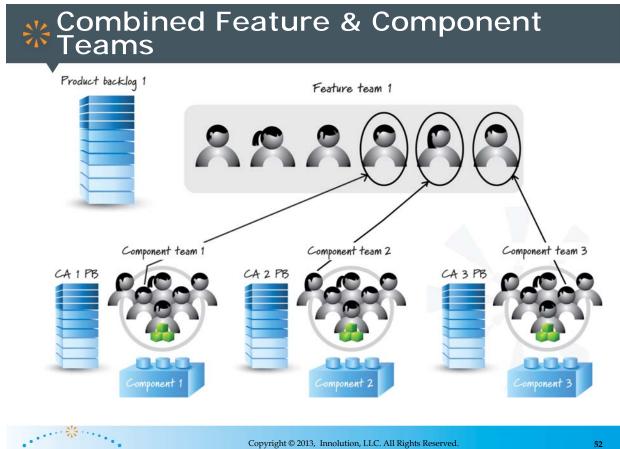












Performing all Scrum practices and using generally accepted Scrum approaches is necessary, but not sufficient

If you want to see the real benefits of applying Scrum you need to apply Scrum within an economic framework that allows you to make sensible tradeoffs

Copyright © 2013, Innolution, LLC. All Rights Reserved.

#### Contact Info for Kenny Rubin



Email:	krubin@innolution.com					
Website:	www.innolution.com					
Phone:	(303) 827-3333					
LinkedIn:	www.linkedin.com/in/kennethrubin					
Twitter:	www.twitter.com/krubinagile					
Essential Scrum: A Practical Guide to the Most Popular Agile Process	www.essentialscrum.com					
Comparative Agility Website	www.comparativeagility.com					



\*