IIBA Nottingham, May 2010

More important than ever: The Business Analysts' role in Agile software development

> Allan Kelly <u>allan@allankelly.net</u>

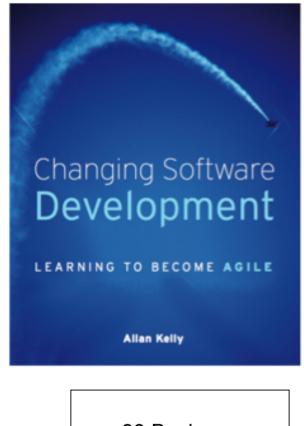
http://www.allankelly.net

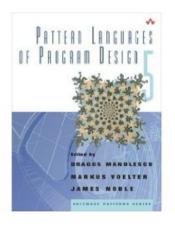
Software Strategy

http://www.softwarestrategy.co.uk

Allan Kelly, BSc, MBA

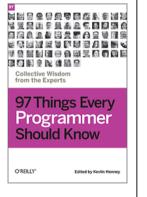
- Consulting, Training & Coaching for Agile adoption and deepening
- Author:
 - Changing Software Development: Learning to be Agile, Wiley 2008.





97 Things Every Programmer Should Know, Henney, 2010

Context Encapsulation in *Pattern Languages of Program Design* volume 5, 2006



33 Business Strategy Patterns for Software Creators

Agile

- Everyone familiar?
 - and Lean?

What is Agility? Jim Highsmith, 2002 "Agility is the ability to both create and respond to change in order to profit in a turbulent business environment."

"Agile processes promise to react flexibly to changing requirements, thus providing the highest business value to the customer at any point in time"

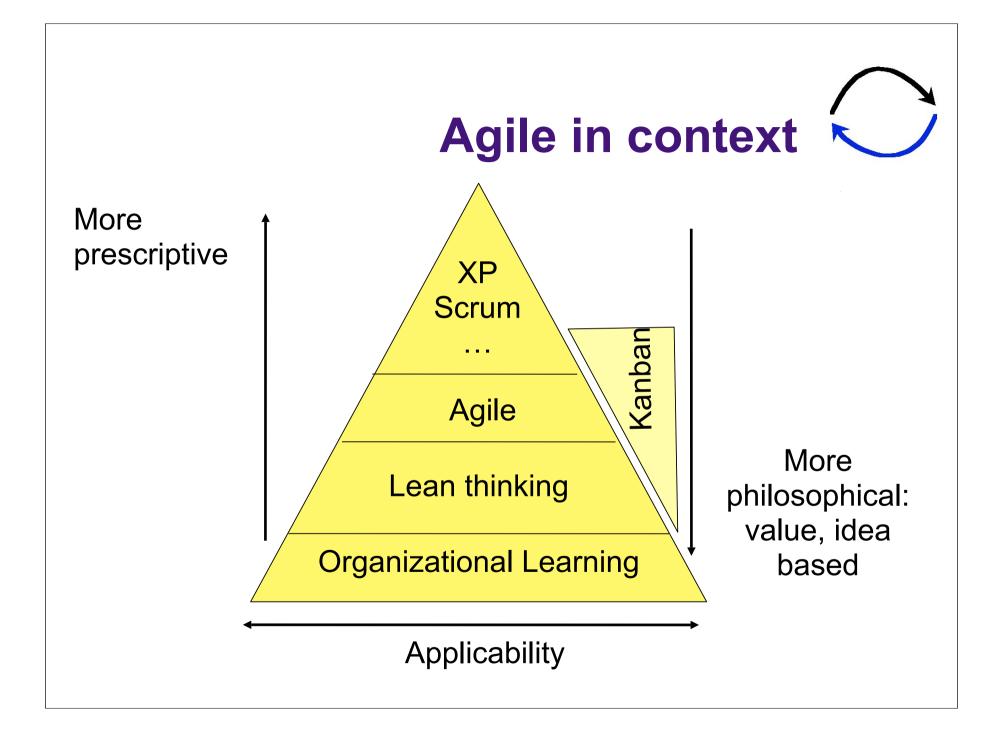
Jutta Eckstein 2004

- <u>Today</u>: Agile as Better
 - Respond to changing (business) environment
 - Faster, more productive, higher quality
- <u>Tomorrow</u>: Agile creates new business models
 - Opportunities for those not confined by traditional IT

Agile







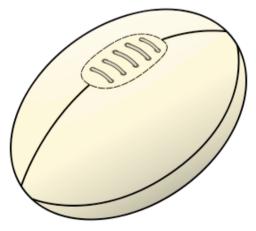
1999-2004: Agile = XP

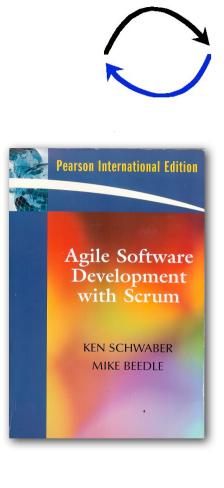
- Extreme Programming
 - First Agile method to gain popularity
 - Developer centric practices and literature
- Business need from onsite Customer
 - Customer on C3 was a Business Analyst
- "Customer" view too simplistic
 - Short sighted
 - Assume customer knows
 - No discussion on how the customer knows

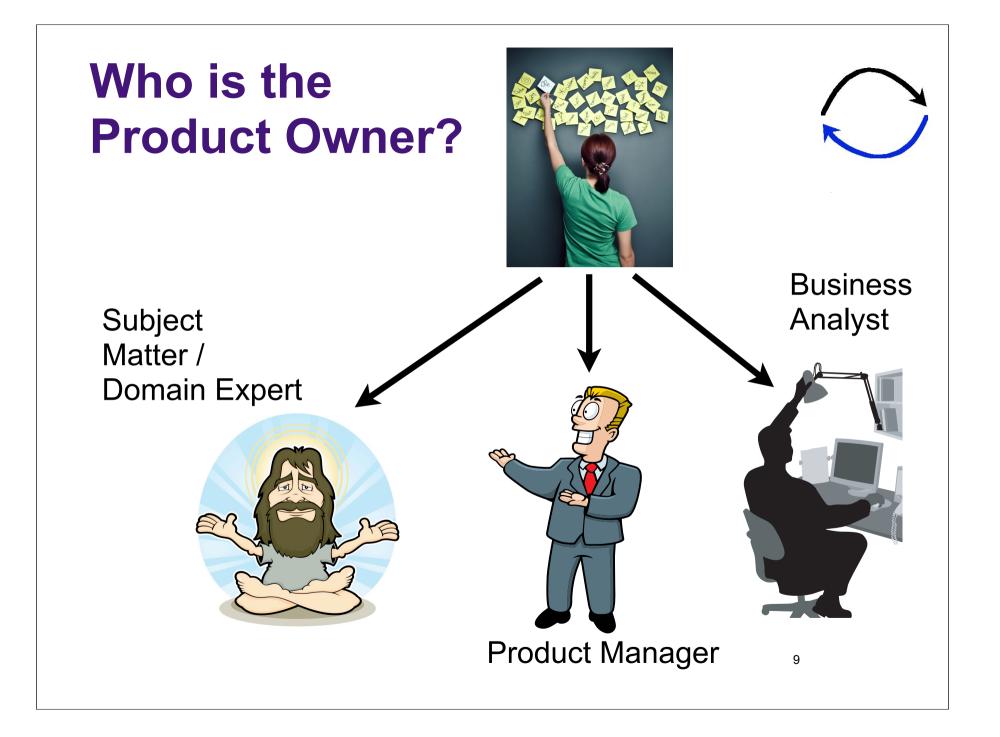


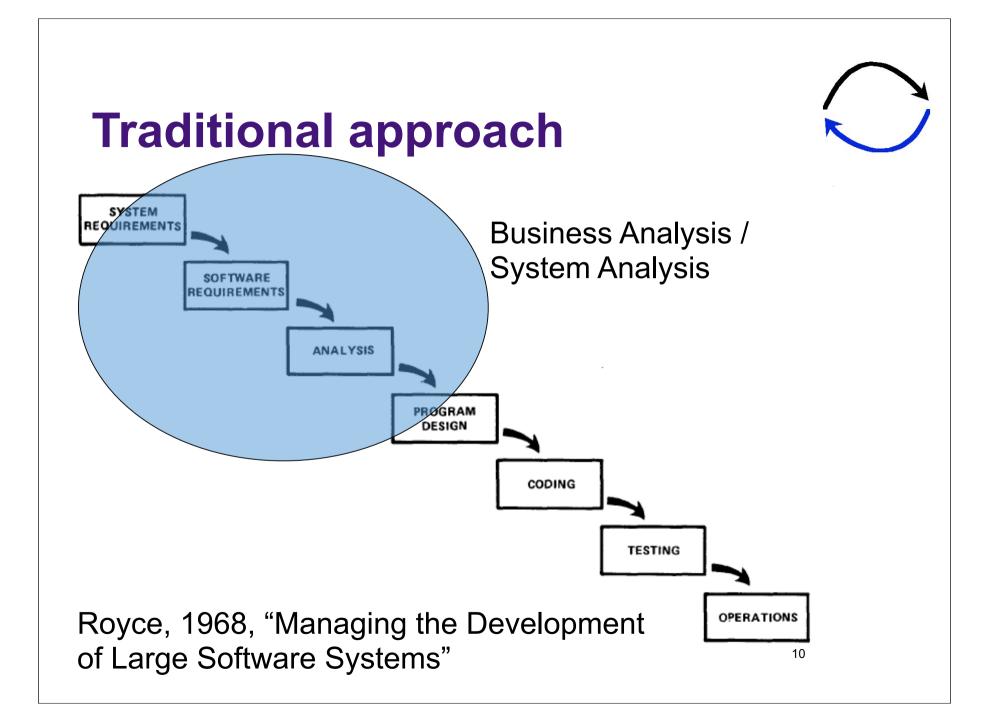
2005-today: Agile = Scrum

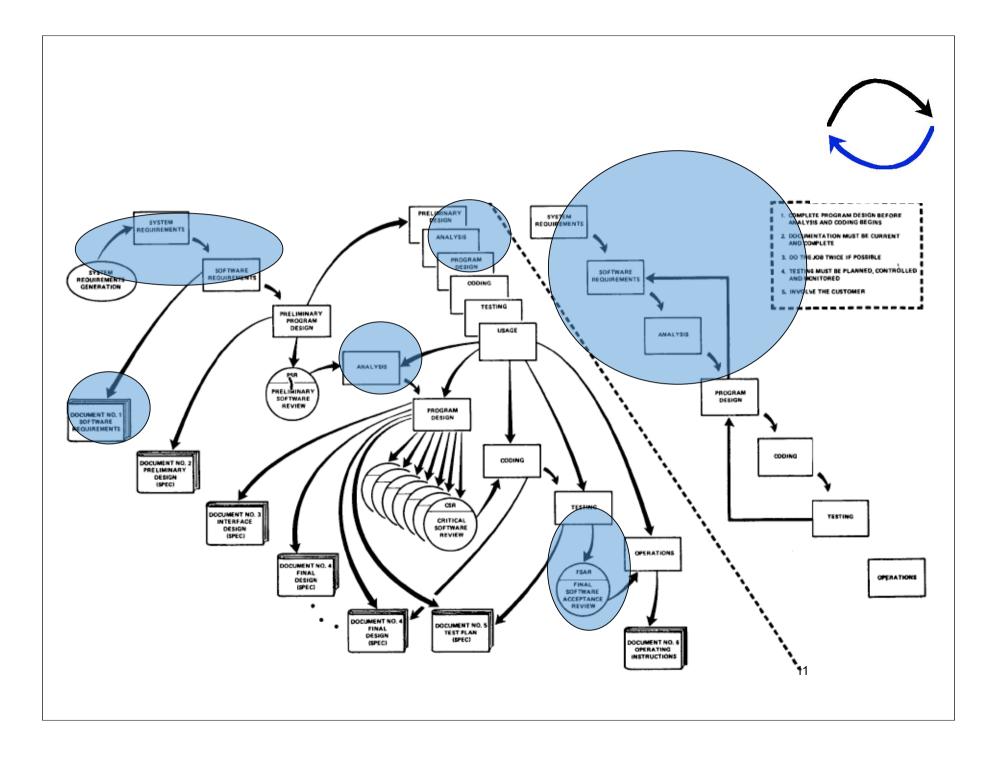
- Scrum
 - A project management method without a project manager
- Product Owner specifies need
- Scrum silent on how the Product Owner knows

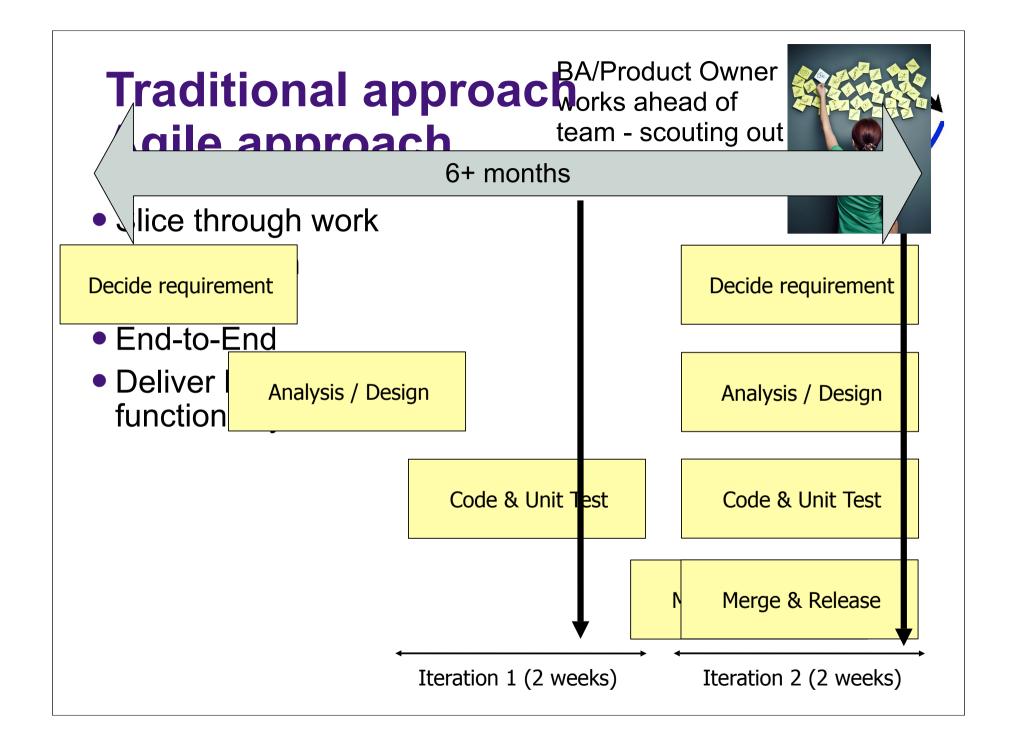


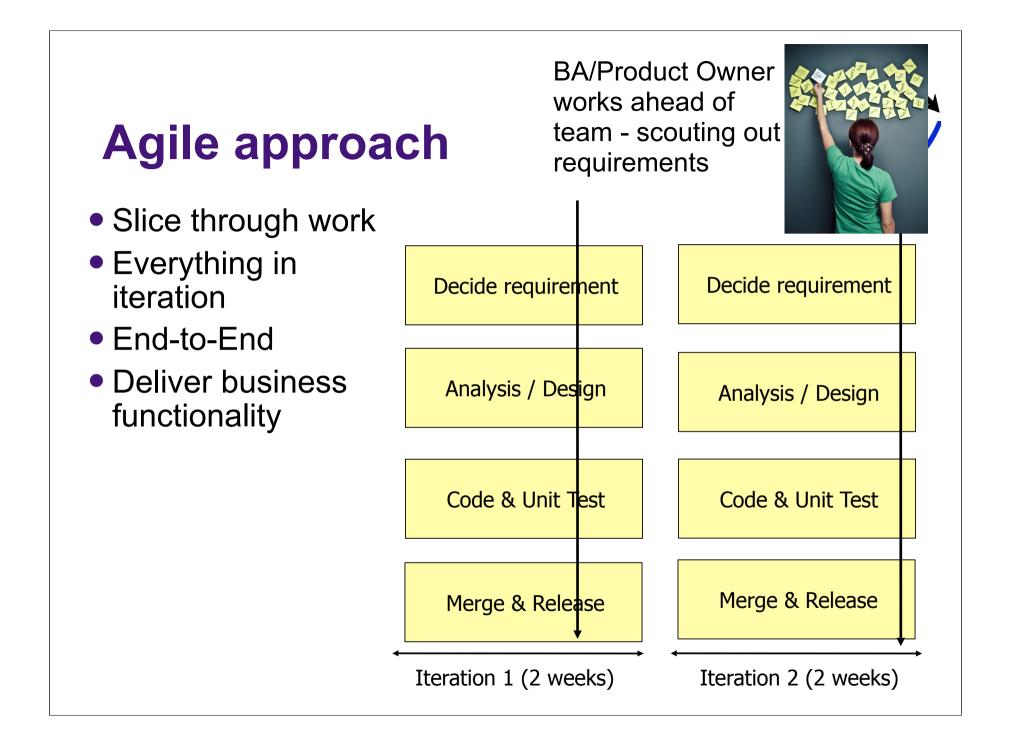












Close quarters requirements

- Goals and objectives
 - replace Big Requirements Documents
 - under continual review
- Requirements gathering is ongoing process
 - rather than only at the start
- BA needs to stay involved
 - rather than leave after initial stages
- Delivered functionality changes and evolves
 - in direction of the goal and objective
- More to it than requirements gathering
 - Dialogue over document



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Less (software) is more

Potentially 80% of software development work is waste

• Better requirements can reduce demand by 80%

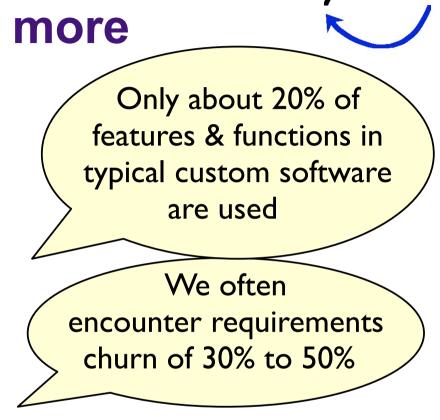
If 30+% of requirements change then

• Why bother doing work on them in the first place?

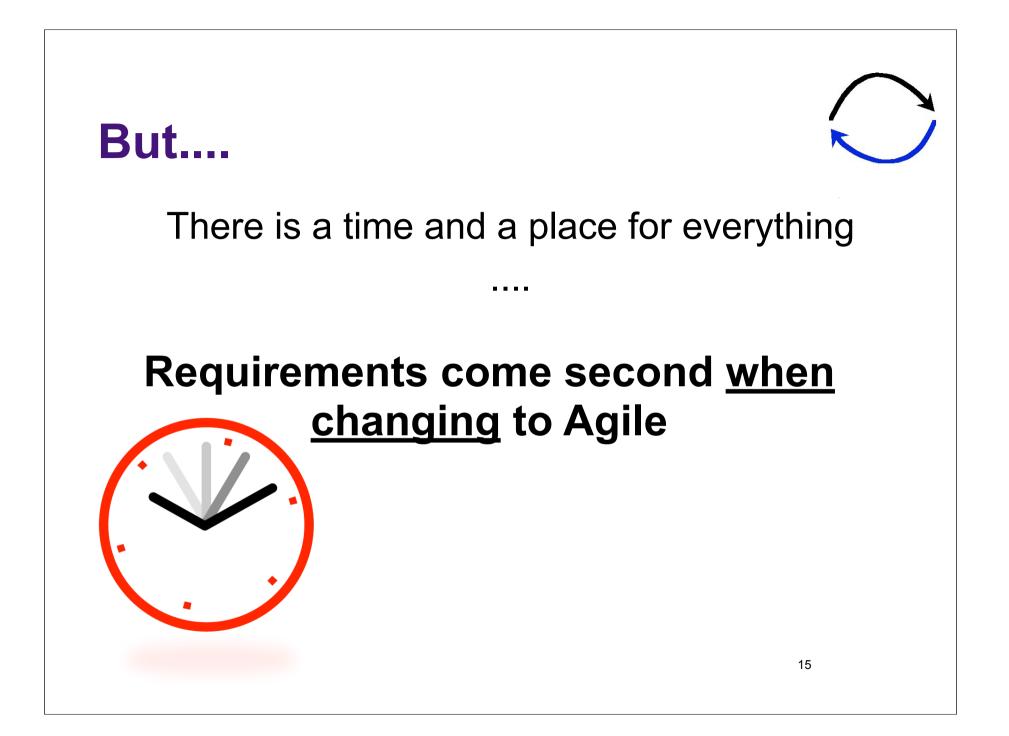
Solution:

• Just In Time Requirements

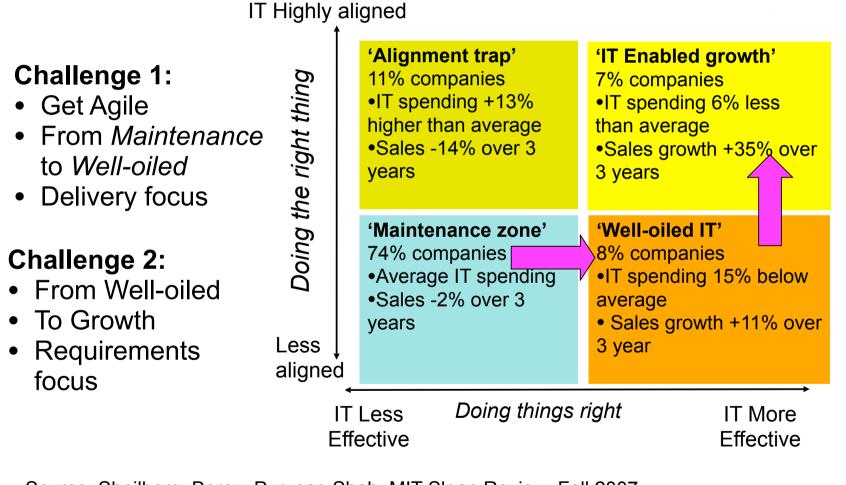
 Identify, implement, deliver in quick succession



Mary & Tom Poppendieck Implementing Lean Software Development 2007



The Alignment Trap



Source: Shpilberg, Berez, Puryear, Shah: MIT Sloan Review, Fall 2007

When adopting Agile

Sequence the changes

1. First *Do it right*

- Management focus on the development team
- 2. Do not emphasis requirements or BA role
- 3. Get developers more effective

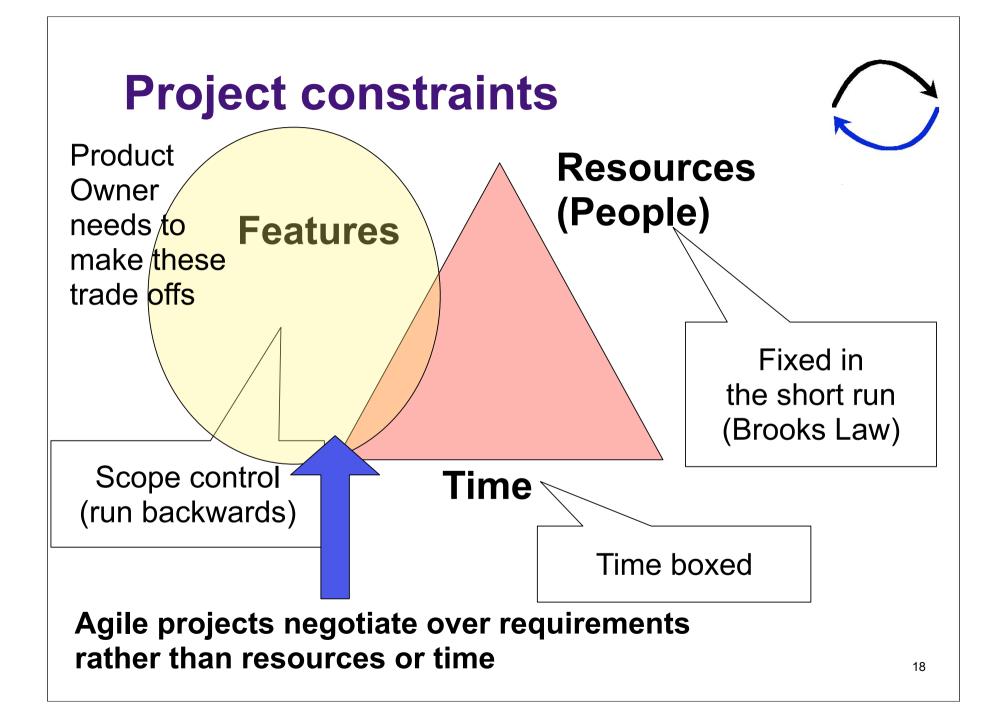
Then

4. Do the right thing

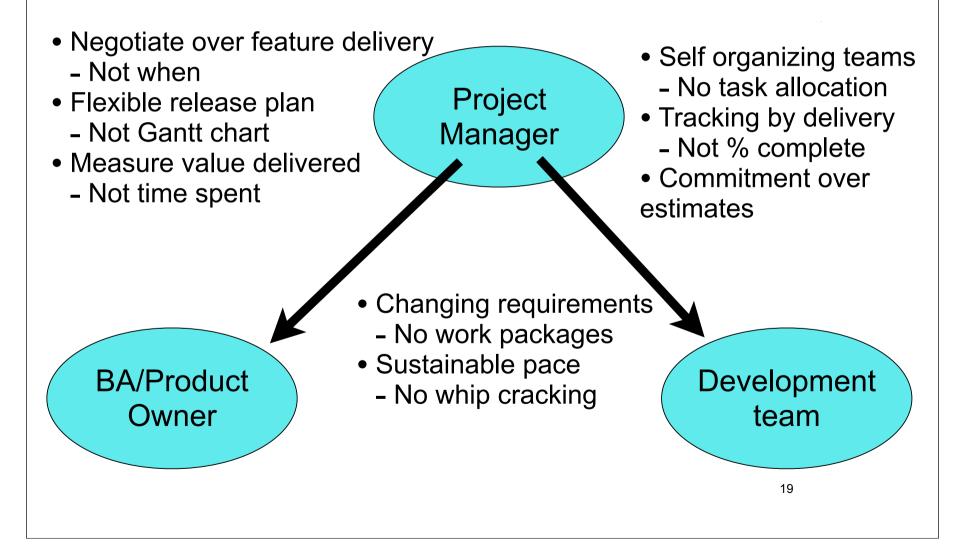
• Focus on the what

5.Long term benefits in BA role

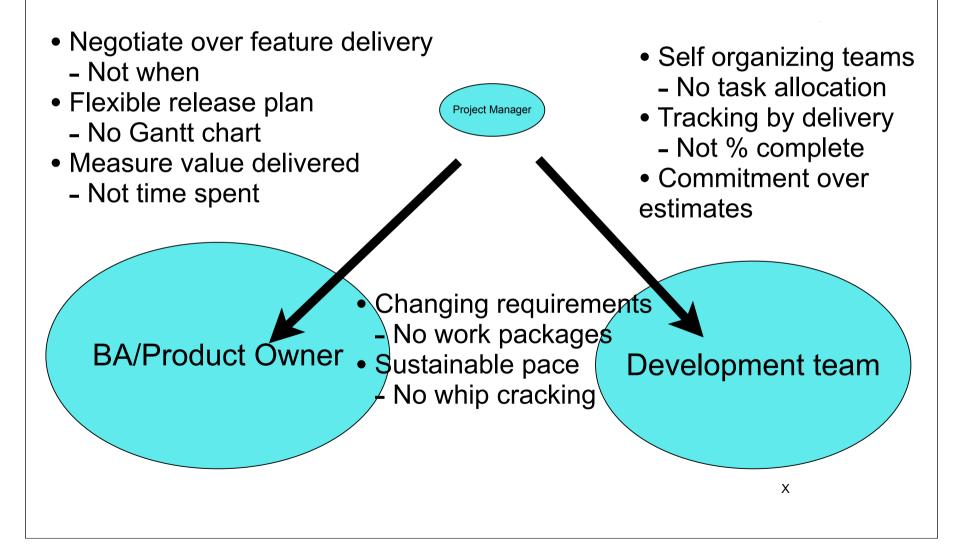




More work for Product Owners Less work for Project Managers



More work for Product Owners Less work for Project Managers



More work for BA's

- More work for BA's
 - More/better analysis can reduce work load in time
 - More responsible for value delivered
 - More conversations with Developers
 - Writing/Creating acceptance tests
 - Slack for Just in time requirements (Queuing theory)
- Move from requirements push to needs pull
- Therefore... 1 BA for every 3 to 7 developers
 - Stable product: 1 BA -> 7 developers
 - Rapid change: 1 BA -> 3 developers

Take aways

- 1. Being Agile means delivering business needs
- 2. Product Owner is often a BA
 - Agile process does not remove need for needs
- 3. BA take a back seat in early transition
 - Step forward as team becomes effective
 - Key in reducing work to be done
- 4. Product Owner role is larger than BA role
 - Need greater staffing
 - Shift from Requirements Push to Need Pull

Thank you

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http://www.softwarestrategy.co.uk

Adile to 2.3 August to 1.9 Aug 22