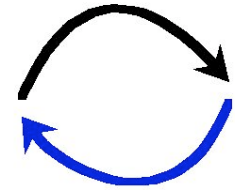


IIBA Business Analysis Conference, September 2009



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

Allan Kelly

Training & Consulting for Agile adoption

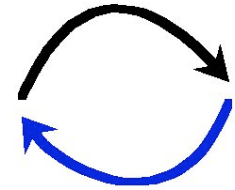
allan@allankelly.net

Final version

[Software Strategy Ltd.](http://www.softwarestrategy.co.uk)

www.softwarestrategy.co.uk

Allan Kelly, BSc, MBA

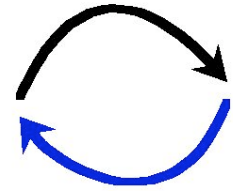


- I help companies navigate Agile adoption:
 - Consulting
 - Training & Coaching
- Author:
 - *Changing Software Development: Learning to be Agile*, Wiley 2008.



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."

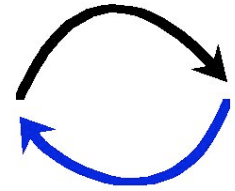
"Agile processes promise to react flexibly to changing requirements, thus providing the highest business value to the customer at any point in time"

Jutta Eckstein 2004

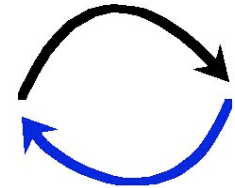
- Today: *Agile as Better*
 - Respond to changing (business) environment
 - Faster, more productive, higher quality
- Tomorrow: Agile creates new business models
 - Opportunities for those not confined by traditional IT

Agile

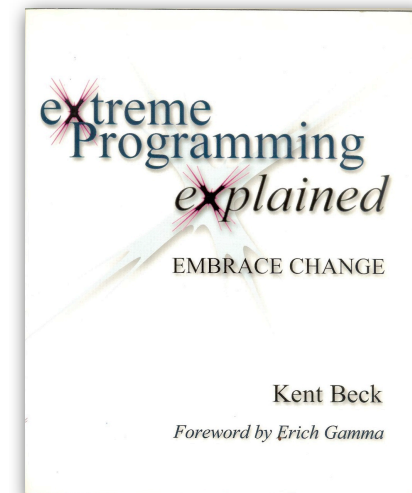
- Its the business need, *stupid*



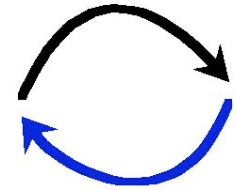
1999-2004: Agile = XP



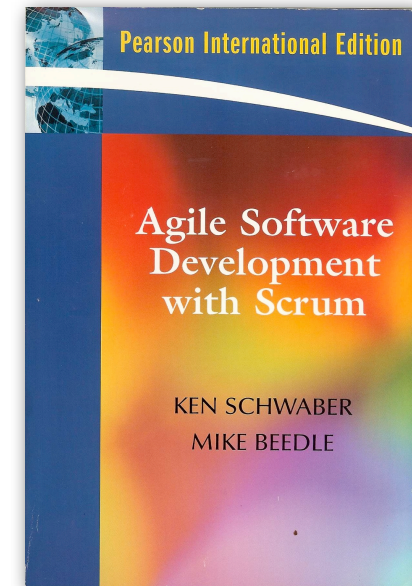
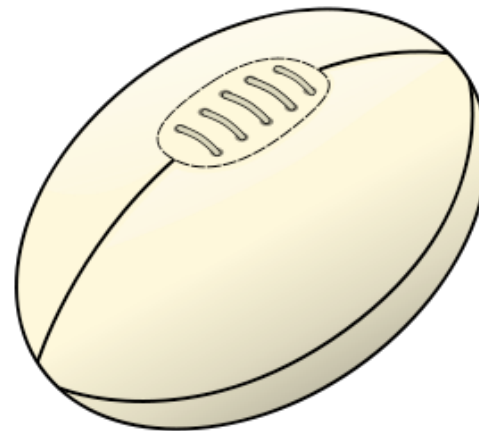
- Extreme Programming
 - First Agile method to gain popularity
 - Developer centric practices and literature
- Business need from *onsite Customer*
 - Customer on C3 was a Business Analyst
- “Customer” view too simplistic
 - Short sighted
 - Assume customer knows
 - No discussion on how the customer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



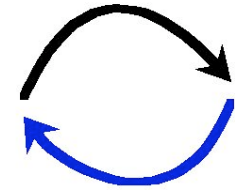
2005-today: Agile = Scrum



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



Who is the Product Owner?



Subject
Matter /
Domain Expert

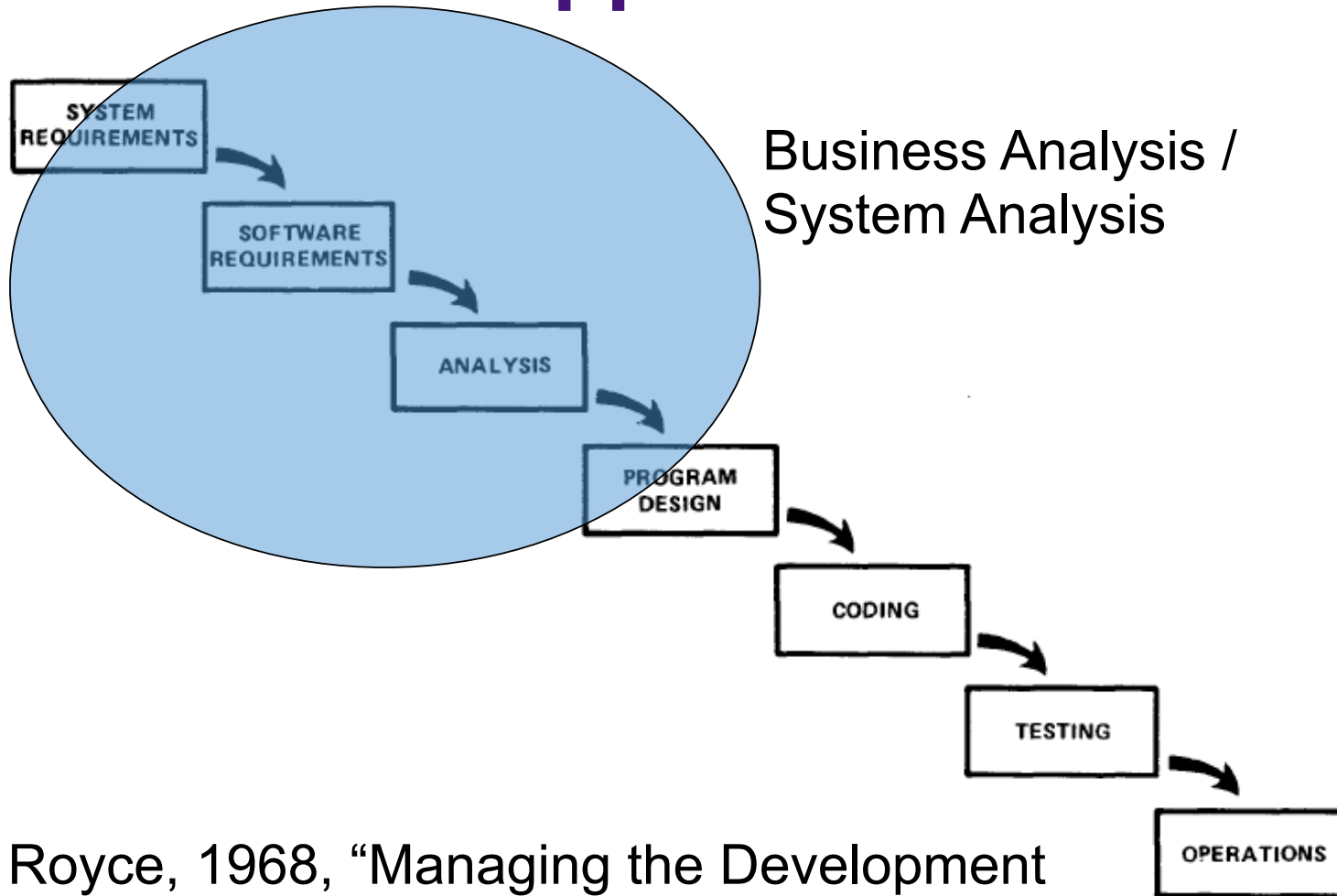
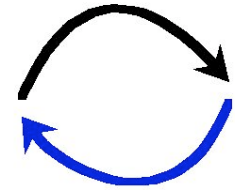


Product Manager

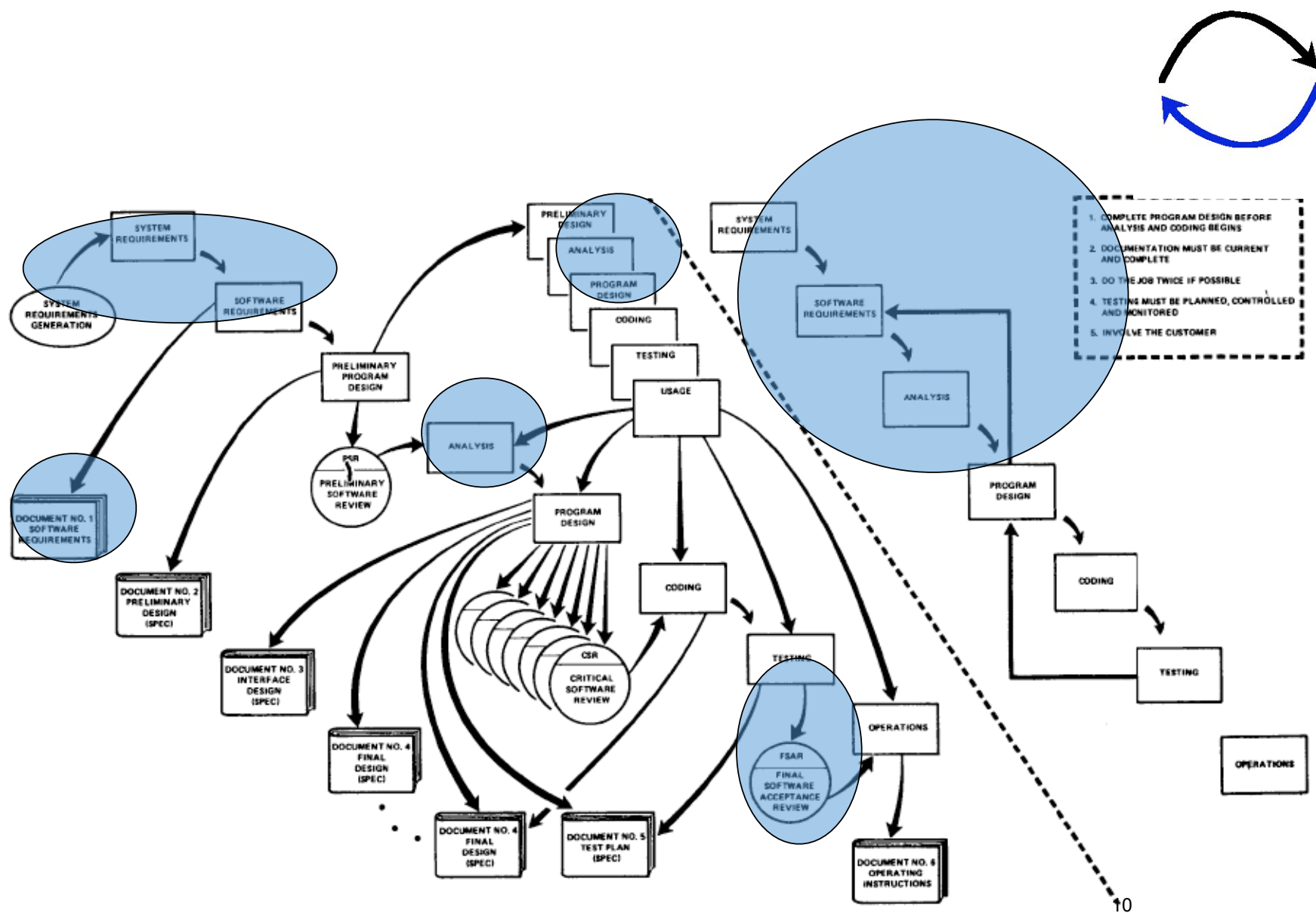
Business
Analyst



Traditional approach



Royce, 1968, "Managing the Development of Large Software Systems"



Traditional approach

Agile approach

BA/Product Owner works ahead of team - scouting out



6+ months

- Slice through work

Decide requirement

- End-to-End

- Deliver function

Analysis / Design

Code & Unit Test

Decide requirement

Analysis / Design

Code & Unit Test

N

Merge & Release

Iteration 1 (2 weeks)

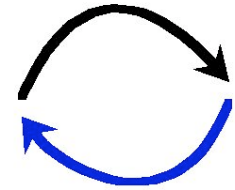
Iteration 2 (2 weeks)

Close quarters requirements

- Goals and objectives
 - replace Big Requirements Documents
 - under continue 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



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:

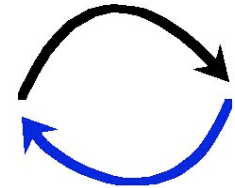
- **Just In Time Requirements**
- Identify, implement, deliver in quick succession

Only about 20% of features & functions in typical custom software are used

We often encounter requirements churn of 30% to 50%

Mary & Tom Poppendieck
Implementing Lean Software
Development 2007

But....



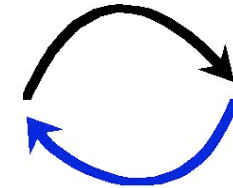
There is a time and a place for everything

....

**Requirements come second when
changing to Agile**



The Alignment Trap



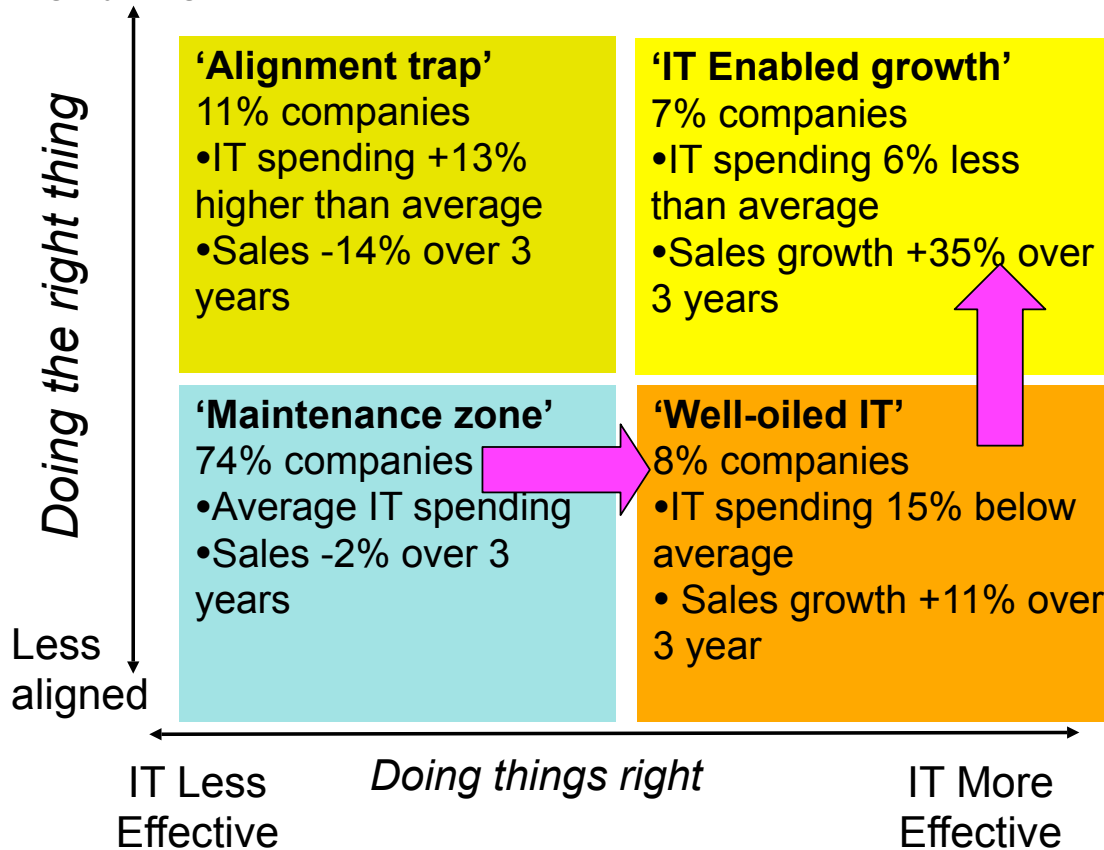
Challenge 1:

- Get Agile
- From *Maintenance* to *Well-oiled*
- *Delivery focus*

Challenge 2:

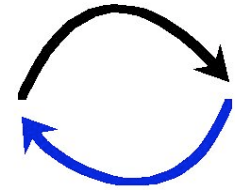
- From Well-oiled
- To Growth
- Requirements focus

IT Highly aligned



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

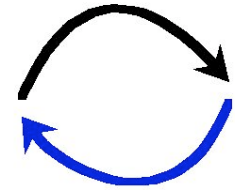
4. *Do the right thing*

- Focus on the what

5. Long term benefits in BA role



Project constraints



Product Owner needs to make these trade offs

Features

Resources (People)

Fixed in the short run (Brooks Law)

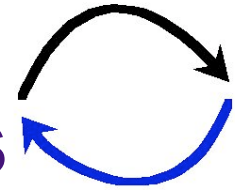
Scope control (run backwards)

Time

Time boxed

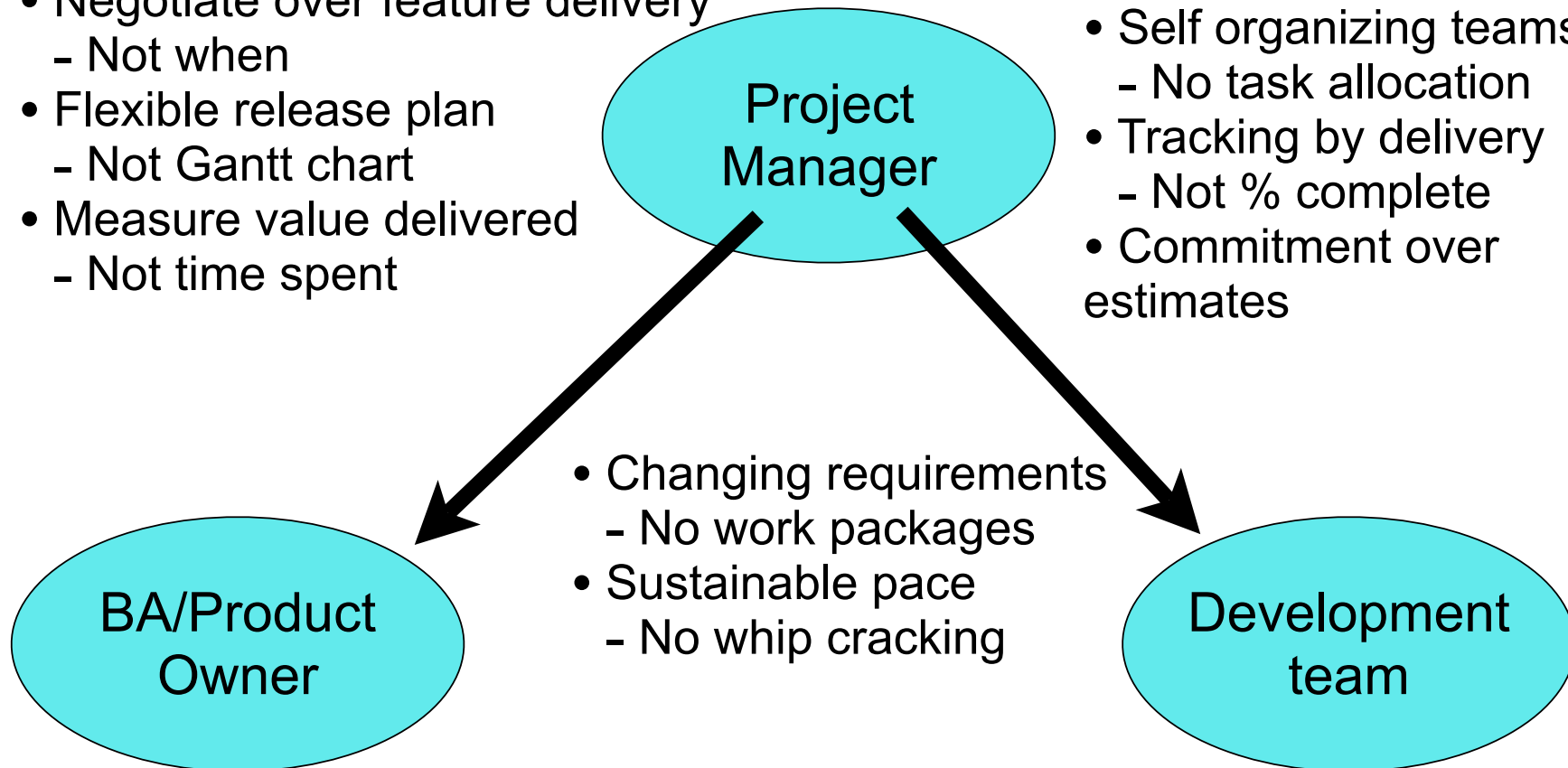
Agile projects negotiate over requirements rather than resources or time

More work for Product Owners Less work for Project Managers

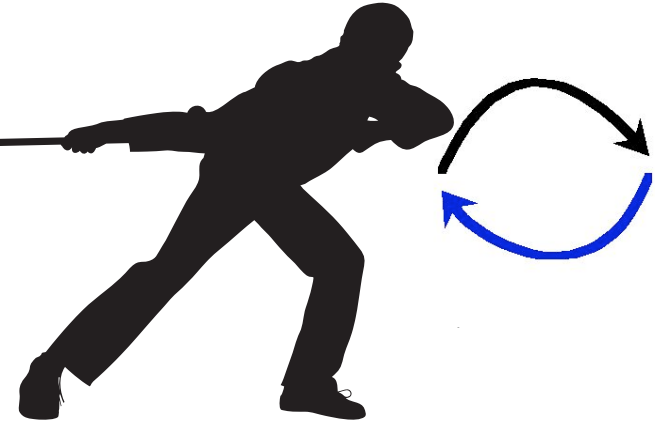


- Negotiate over feature delivery
 - Not when
- Flexible release plan
 - Not Gantt chart
- Measure value delivered
 - Not time spent

- Self organizing teams
 - No task allocation
- Tracking by delivery
 - Not % complete
- Commitment over estimates

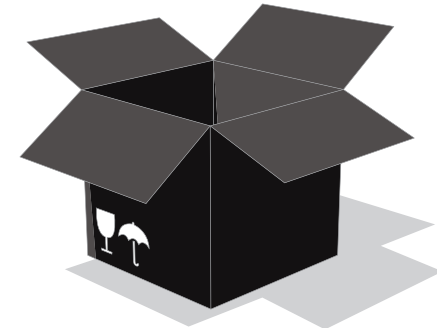


More work for BA's



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

Take aways



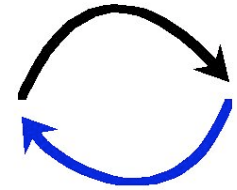
1. Being Agile means delivering business needs
2. Product Owner is often a BA
 - Agile process does not remove need for needs
3. BA take a back seat in early transition
 - Step forward as team becomes effective
 - Key in reducing work to be done
4. Product Owner role is large than BA role
 - Need greater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

Thank you

allan@allankelly.net

<http://www.allankelly.net>

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