Lean Software Development

An introduction

2009-05-14



Who am I?



- Lean/Scrum
- 10+ teams





Bizplant



Engineer



- 9 years software dev
- Acting CTO

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Toyota and Lean thinking

We get **brilliant results**from **average people**managing **brilliant processes**.

"Only after American carmakers had exhausted every other explanation for Toyota's success – an undervalued yen, a docile workforce, Japanese culture, superior automation – were they finally able to admit that Toyota's real advantage was its ability to harness the intellect of 'ordinary' employees."

We observe that our competitors often get average (or worse) results from brilliant people managing broken processes.

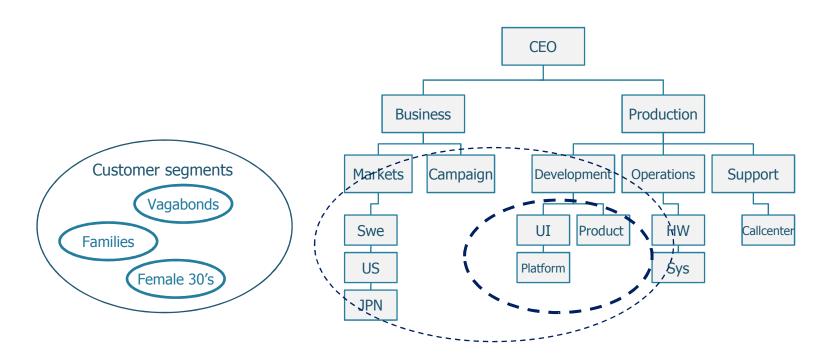
"Management Innovation" by Gary Hamel, Harvard Business Review, February, 2006



Why Lean?



Agile is hard to scale



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Lean links functions together





A new look at

LEAN

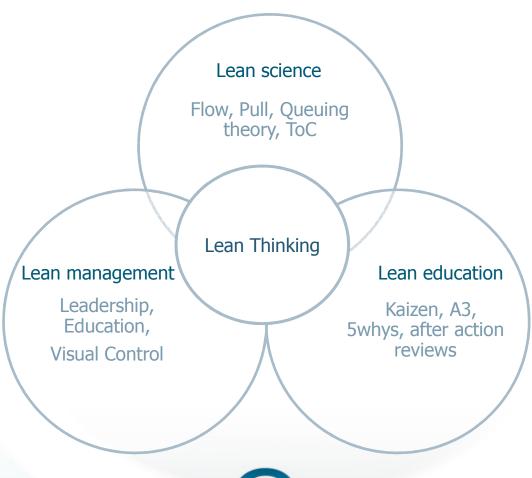
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Lean



In Lean operational decisions, value trumps flow, and flow trumps waste reduction



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Alan Shalloway, Lean & Kanban Miami 2009 Values, principles, practices

Expandable to the enterprice

	Lean	Agile	
Values	System thinking Respect people Always improve	Individuals & Interaction over process & Tools	
		Responding to change over following a plan	
Principles	Value trumps flow, and flow trumps waste reduction	Simplicity is essential	
	Match work to capacity		
Practices	Kanban A3 problem solving Value stream mapping Match work to capacity	Daily standup, Sprint planning 	
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Designed for software!

Lean extends Agile

Lean

Across functions (not just software)

Flow

Deep understanding of Engineering practices

Visual management

Risk management through classes of service

Scaling to the enterprise



FLOW

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Flow



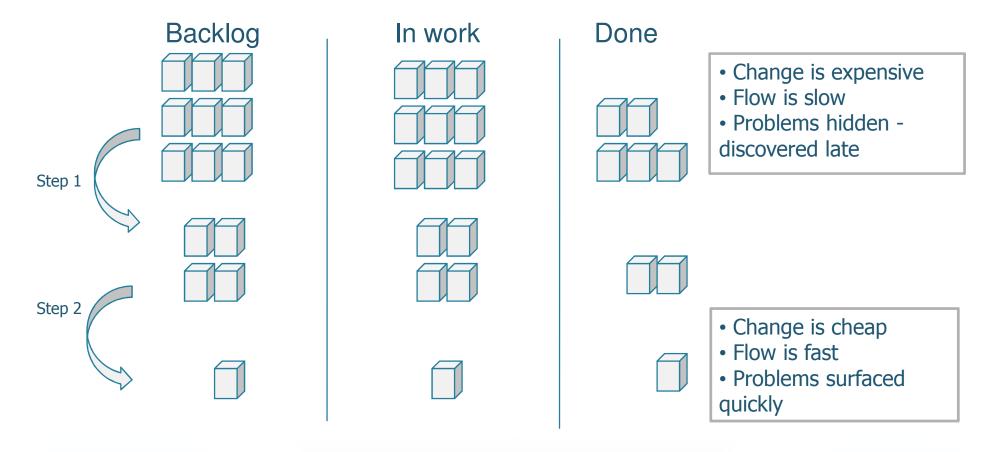
Steady, continuous stream

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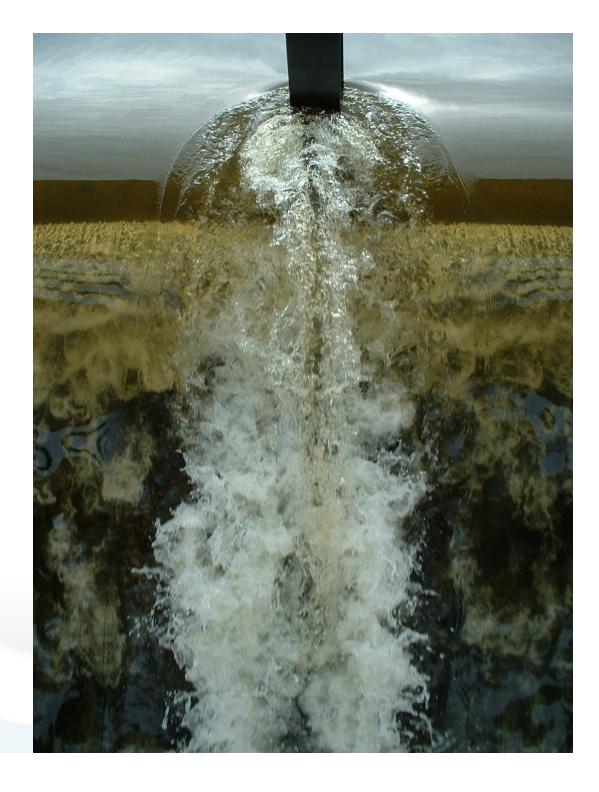
From Batch to Flow



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Turbulence



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Thinking different

EXAMPLE

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Carrier	On time	Load factor	Flights
Southwest	0,8172	0,7260	1.164.906
Delta	0,7565	0,8060	568.862
Continental	0,7295	0,8140	411,105
United Airlines	0,6990	0,8270	480,382
American Airlines	0,6834	0,8150	792.404

2007 Statistics

- **Excellent customer service**
- **Fewest complaints**
- **Rated "most admired** airline"



Sources:

Poppendieck, FAA, SEC Filings, Fortune



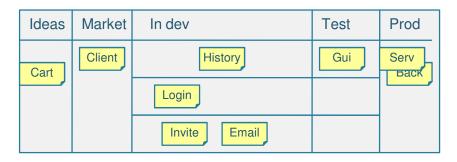
We are committed to provide our Employees a stable work environment with equal opportunity for learning and personal growth. Creativity and innovation are encouraged for improving the effectiveness of Southwest Airlines. Above all, Employees will be provided the same concern, respect, and caring attitude within the organization that they are expected to share externally with every Southwest Customer.



Where do I start?

- Values?
- Principles?
- Practices?

Empircal evidence suggests starting with visual management using Kanban can initate the learning process





Thanks for listening!

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