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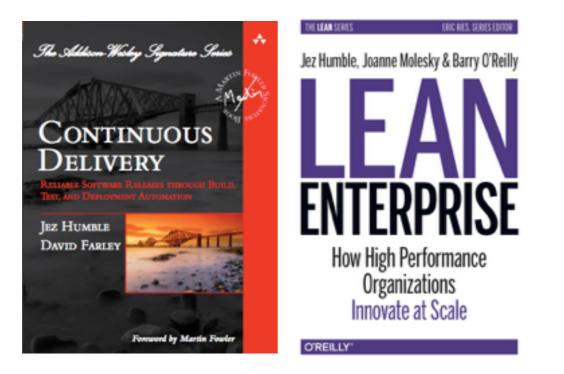
what you think

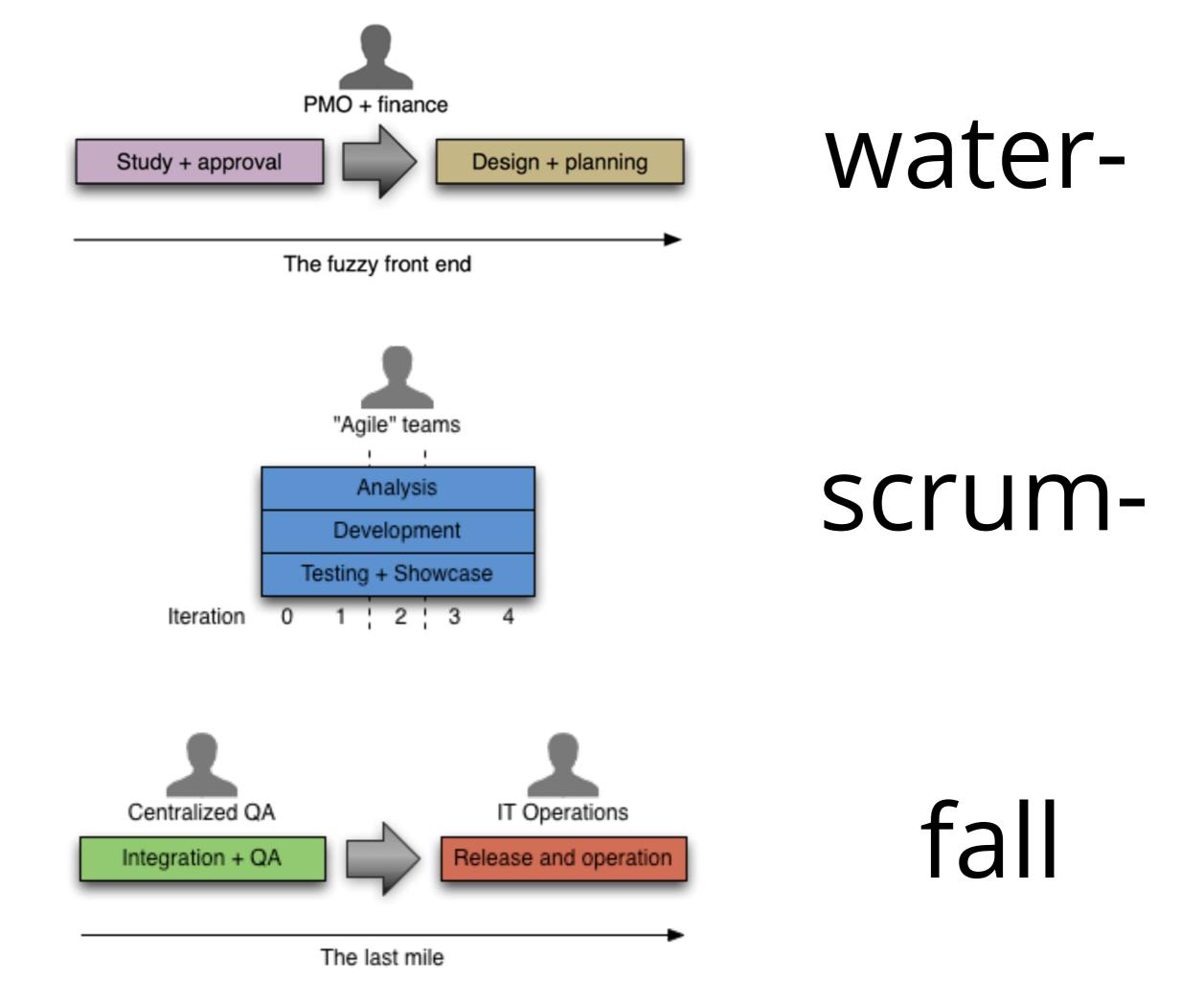
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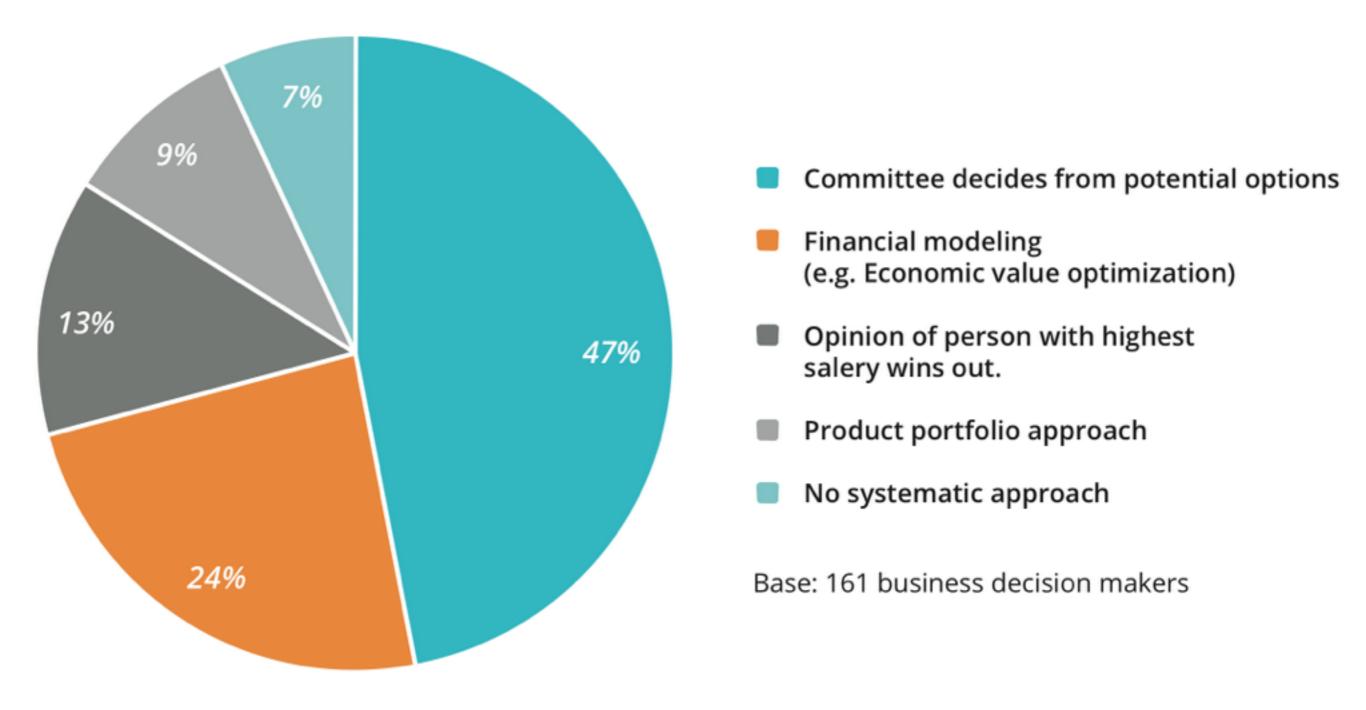
why scaling agile doesn't work (and what to do about it)

@jezhumble #gotober | december 4 2015





"Please select the statement that most closely aligns with how your company decides which products are built."



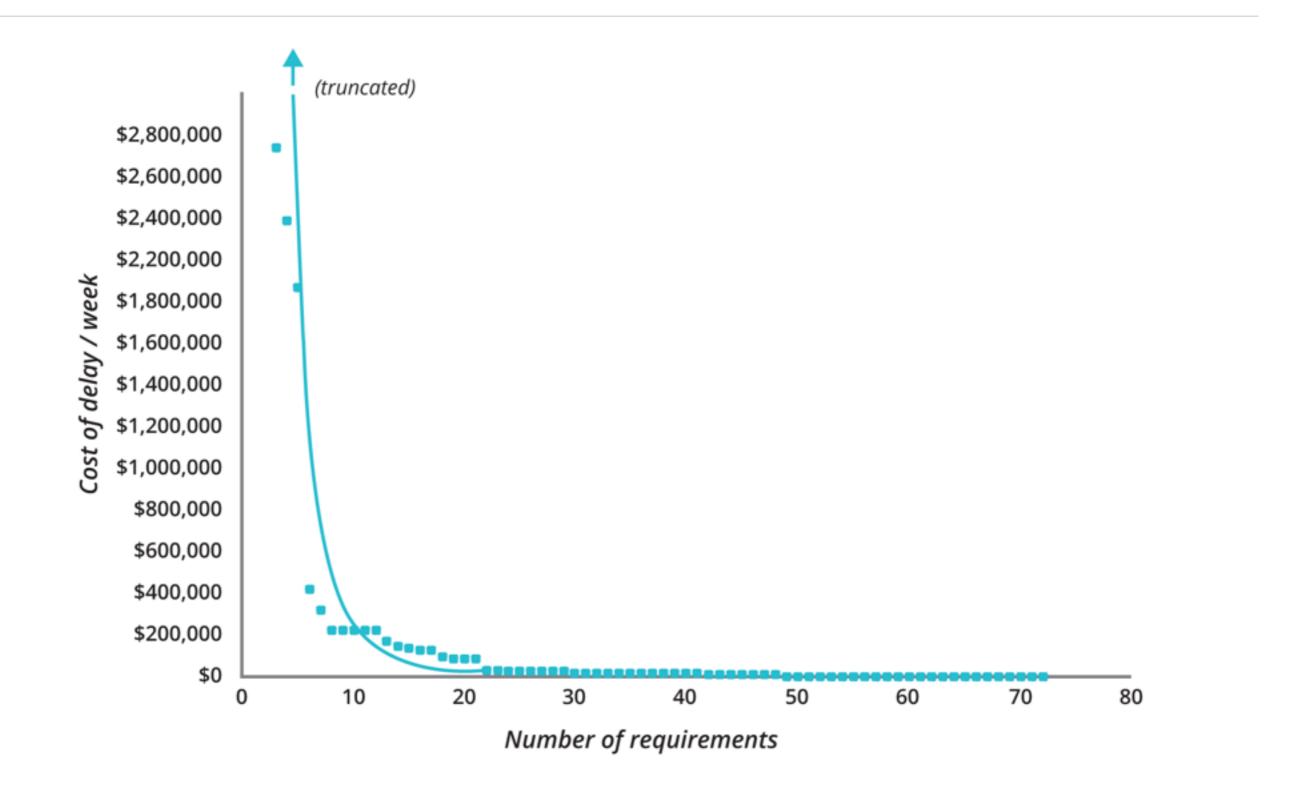
Source: A commissioned study conducted by Forrester Consulting on behalf of ThoughtWorks, September 2012

cost

"Even in projects with very uncertain development costs, we haven't found that those costs have a significant information value for the investment decision... The single most important unknown is whether the project will be canceled. The next most important variable is utilization of the system, including how quickly the system rolls out and whether some people will use it at all."

Douglas Hubbard | http://www.cio.com/article/119059/The_IT_Measurement_Inversion

batching up work

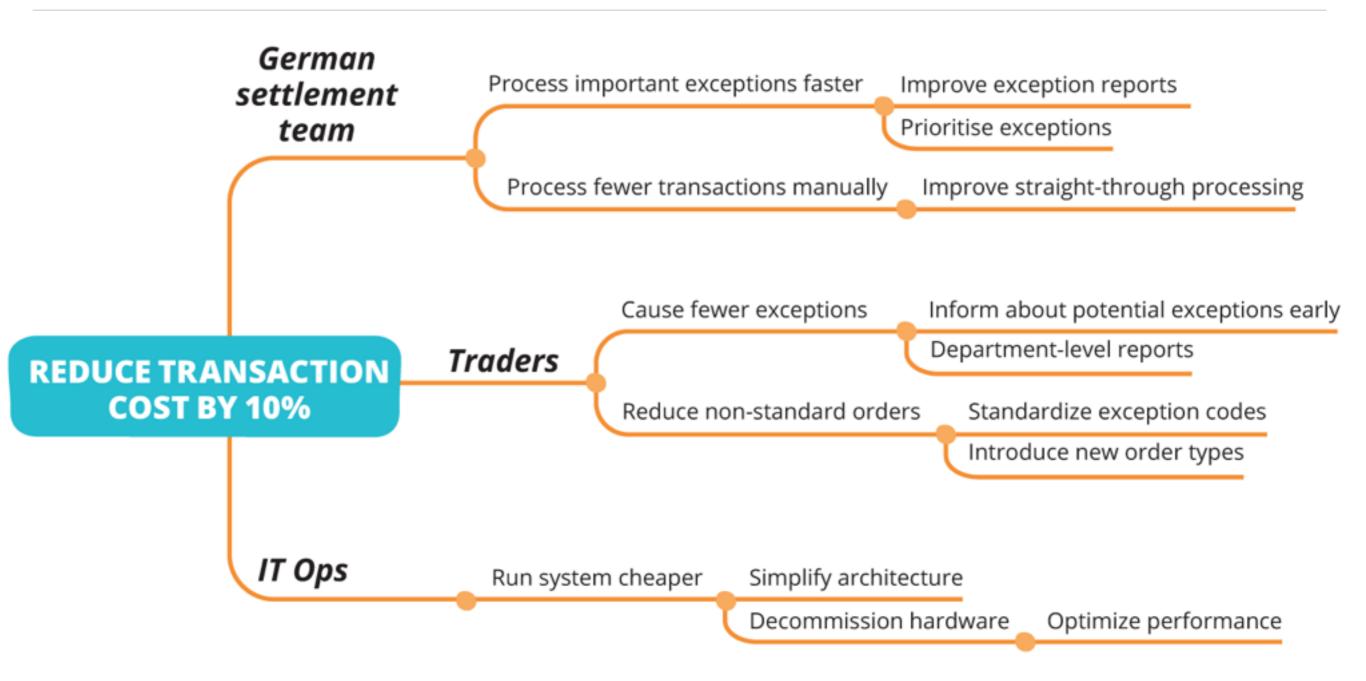


"Black Swan Farming using Cost of Delay" I Joshua J. Arnold and Özlem Yüce I bit.ly/black-swan-farming

what should we do

- don't optimize for the case where we are right
- focus on value, not cost
- create feedback loops to validate assumptions
- make it economic to work in small batches
- enable an experimental approach to product dev

impact mapping



Gojko Adzic, Impact Mapping

hypothesis-driven delivery

We believe that

[building this feature]

[for these people]

will achieve [this outcome].

We will know we are successful when we see [this signal from the market].

Jeff Gothelf "Better product definition with Lean UX and Design" http://bit.ly/TylT6A

experiments

USER RESEARCH



Different types of user research, courtesy of Janice Fraser

Amazon May Deployment Stats (production hosts & environments only) 11.6 seconds Mean time between deployments (weekday) 1.079 Max # of deployments in a single hour 10,000 Mean # of hosts simultaneously receiving a deployment

30,000

Max # of hosts simultaneously receiving a deployment

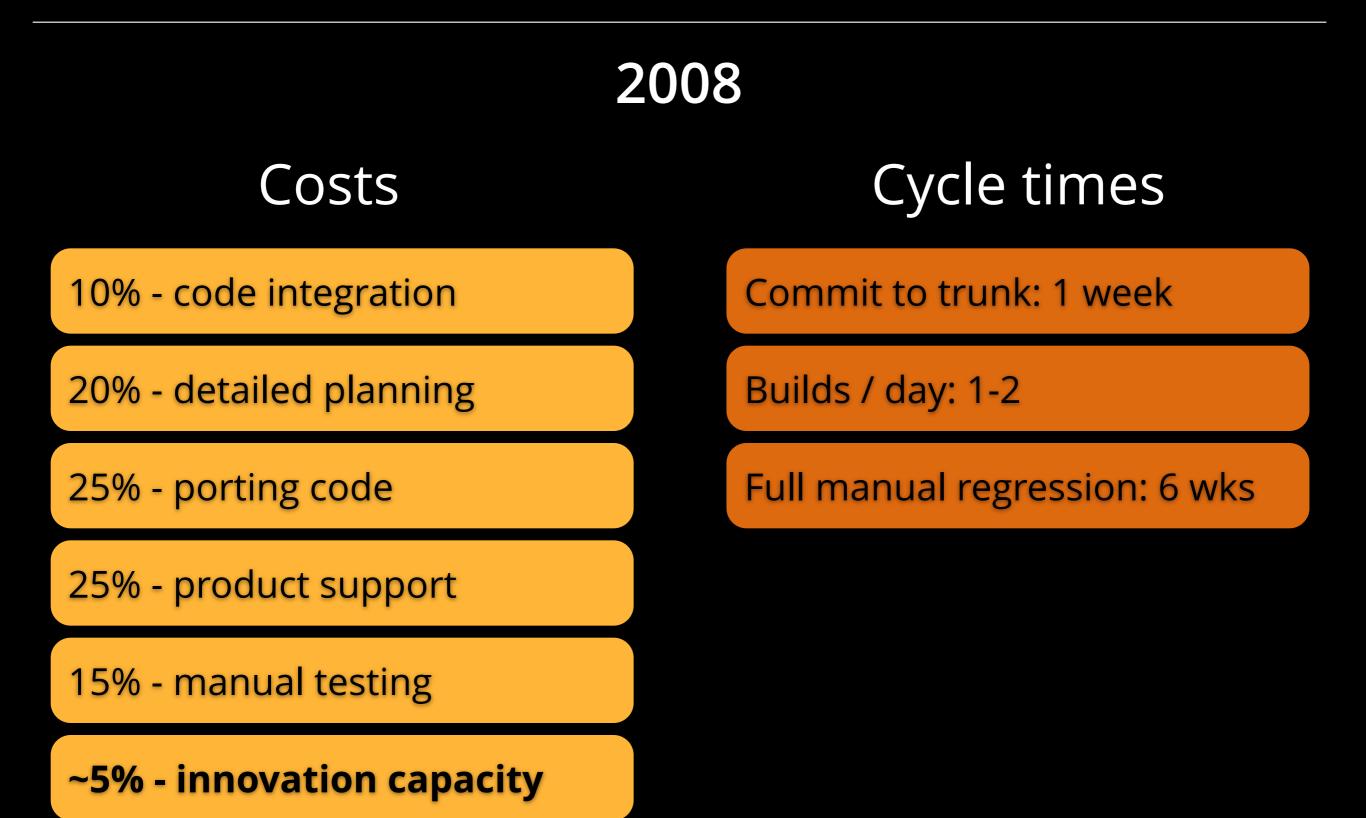
Jon Jenkins, "Velocity Culture, The Unmet Challenge in Ops" | <u>http://bit.ly/1vJo1Ya</u>

do less

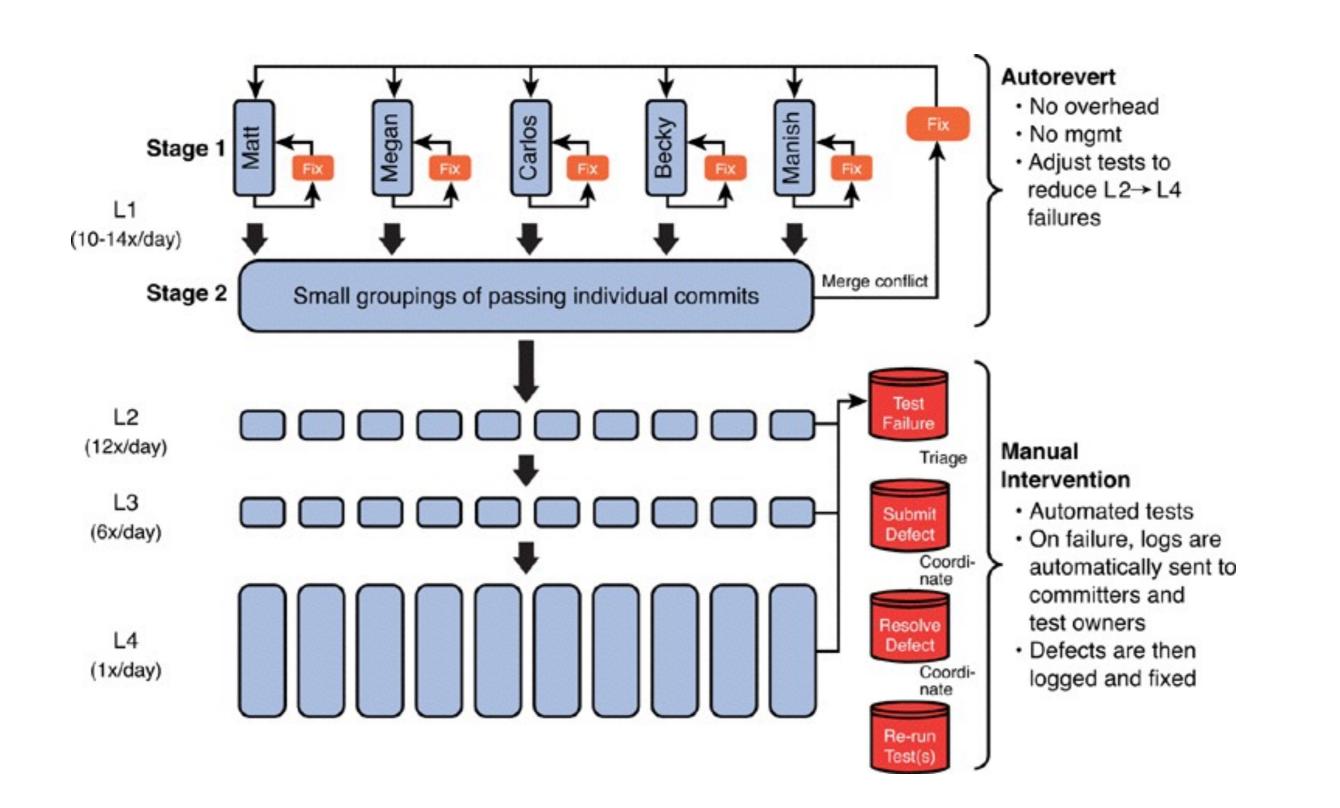
"Evaluating well-designed and executed experiments that were designed to improve a key metric, **only about 1/3** were successful at improving the key metric!"

"Online Experimentation at Microsoft", Kohavi et al <u>http://stanford.io/130uW6X</u>

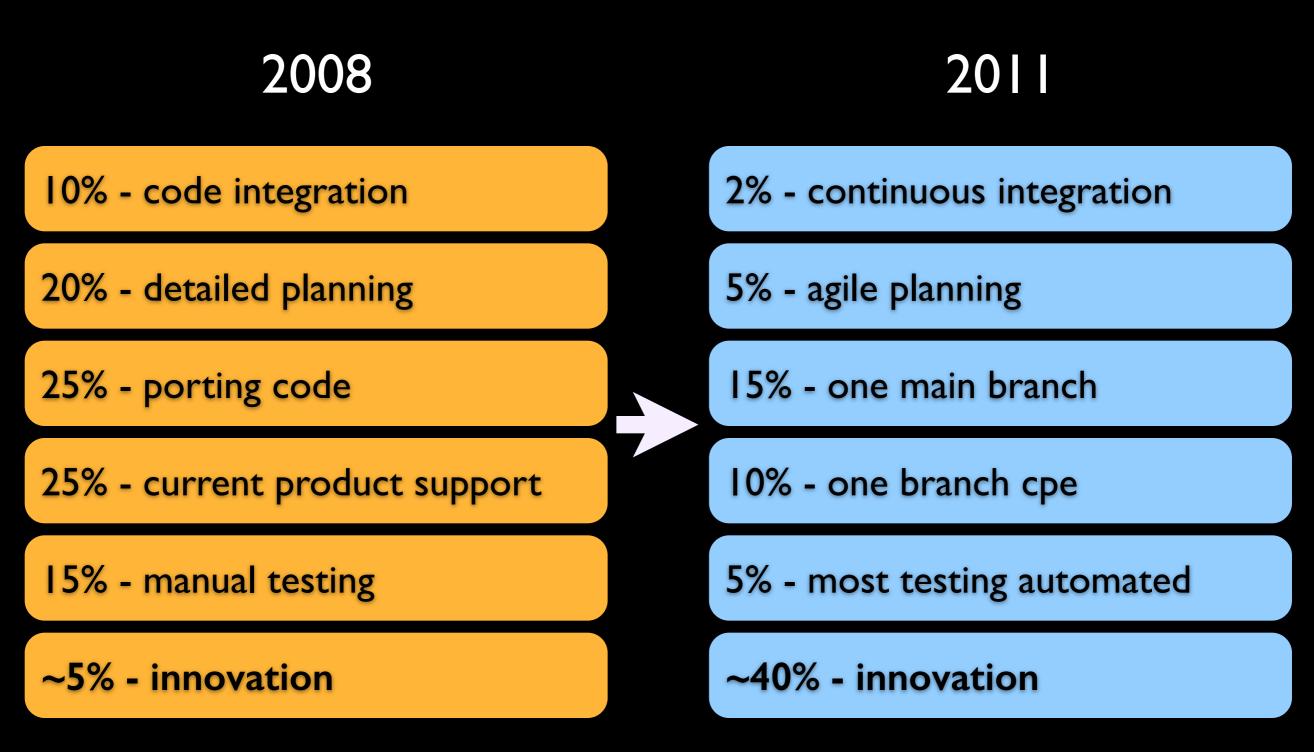
hp laserjet firmware division



deployment pipeline



hp laserjet firmware team

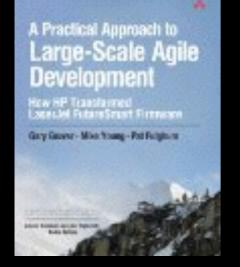


The remaining 23% on RHS is spent on managing automated tests.

the economics

2008 to 2011

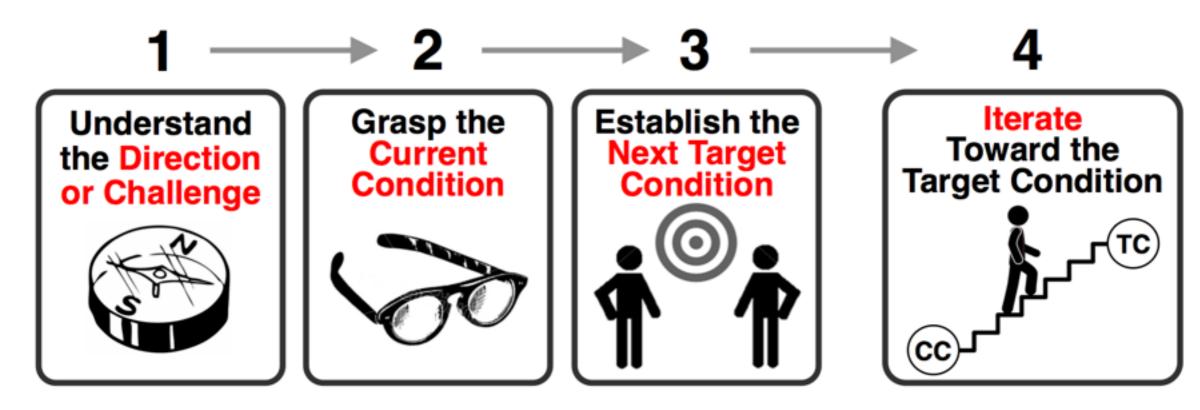
- overall development costs reduced by ~40%
- programs under development increased by ~140%
- development costs per program down 78%
- resources now driving innovation increased by 8X



A Practical Approach to Large-Scale Agile Development - Gruver, Young, Fulghum

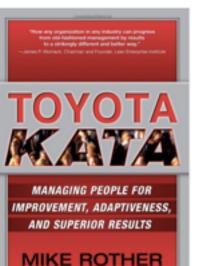
THE FOUR STEPS OF THE IMPROVEMENT KATA MODEL

A systematic, scientific pattern of working



Planning





improvement kata

- What is the target condition? (*The challenge*)
- What is the actual condition now?
- What obstacles are preventing you from reaching it? which one are you addressing now?
- What is your next step? (*Start of PDCA cycle*)
- When can we go and see what we learned from taking that step?

improvement kata

Rank	Table 5.1. Sample M Theme	ini-Milestone Objectives (MM30 Objectives) Exit Criteria: Objective Met/ <i>Objective not met</i>
0	Quality threshold	P1 issues open < 1week L2 test failure 24-hour response
1	Quarterly bit release	A) Final P1 change requests fixed B) Reliability error rate at release criteria
2	New platform stability and test coverage	 A) Customer Acceptance Test 100% passing B) All L2 test pillars 98% passing C) L4 test pillars in place D) L4 test coverage for all Product Turn On requirements E) 100% execution of L4 tests on new products
3	Product Turn On dependencies and key features	 A) Print for an hour at speed to finisher with stapling B) Copy for an hour at speed C) Enable powersave mode D) Manufacturing nightly test suite execution E) Common Test Library support for four-line control panel display
4	Build for next-gen products	A) End-to-end system build on new processor B) High-level performance analysis on new processor
5	Fleet integration plan	Align on content and schedule for "slivers" of end-to- end agile test with system test lab

A Practical Approach to Large-Scale Agile Development - Gruver, Young, Fulghum

conclusion

don't optimize for the case where we are right

focus on value, not cost

create feedback loops to validate assumptions

make it economic to work in small batches

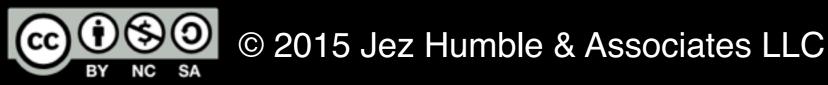
enable an experimental approach to product dev

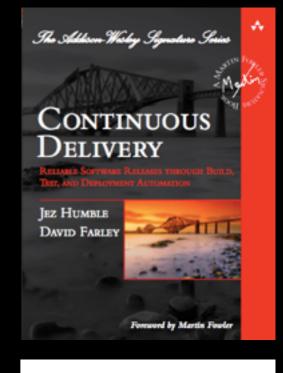
want to learn more?

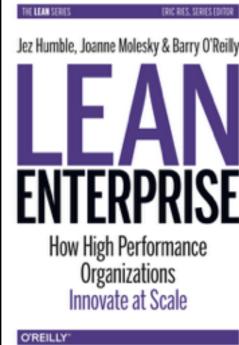
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- A chance to get a personalized analysis of your results
- A copy of this presentation
- A 100 page excerpt from *Lean Enterprise*
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what you think

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