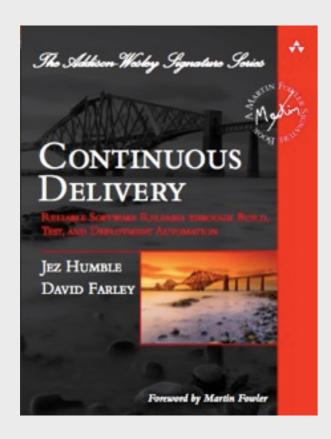




Innovation at Scale

Using Lean Thinking



November 16, 2011, QCon San Francisco

Jez Humble, ThoughtWorks Studios @jezhumble #continuousdelivery http://continuousdelivery.com/

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A startup is a human institution designed to create new products and services under conditions of extreme uncertainty

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eric ries, the lean startup, ch. I

innovation

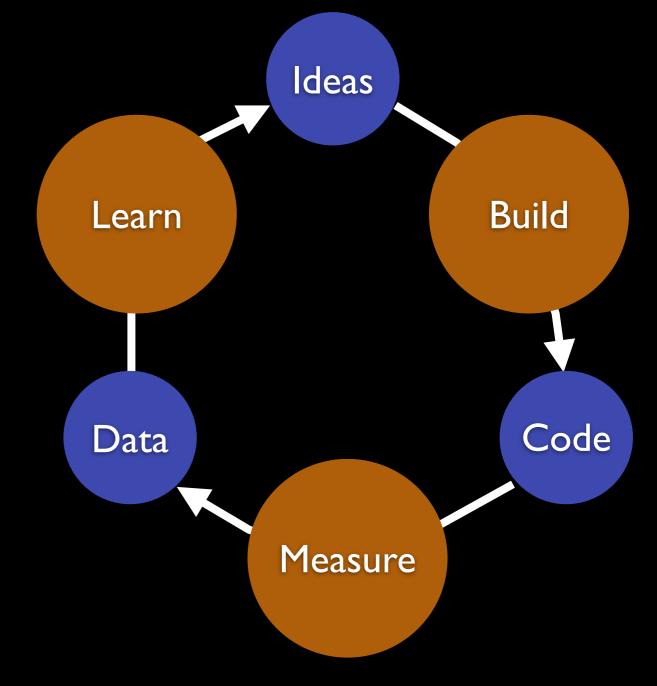
You can't just ask customers what they want and then try to give that to them.

By the time you get it built, they'll want something new.

steve jobs

the lean startup

Create hypothesis Deliver mimimum viable product Get feedback (repeat, pivoting if necessary)



the lean startup, part II - steer

business agility

"The main obstacles to improved business responsiveness are slow decision-making, conflicting departmental goals and priorities, risk-averse cultures and silo-based information."

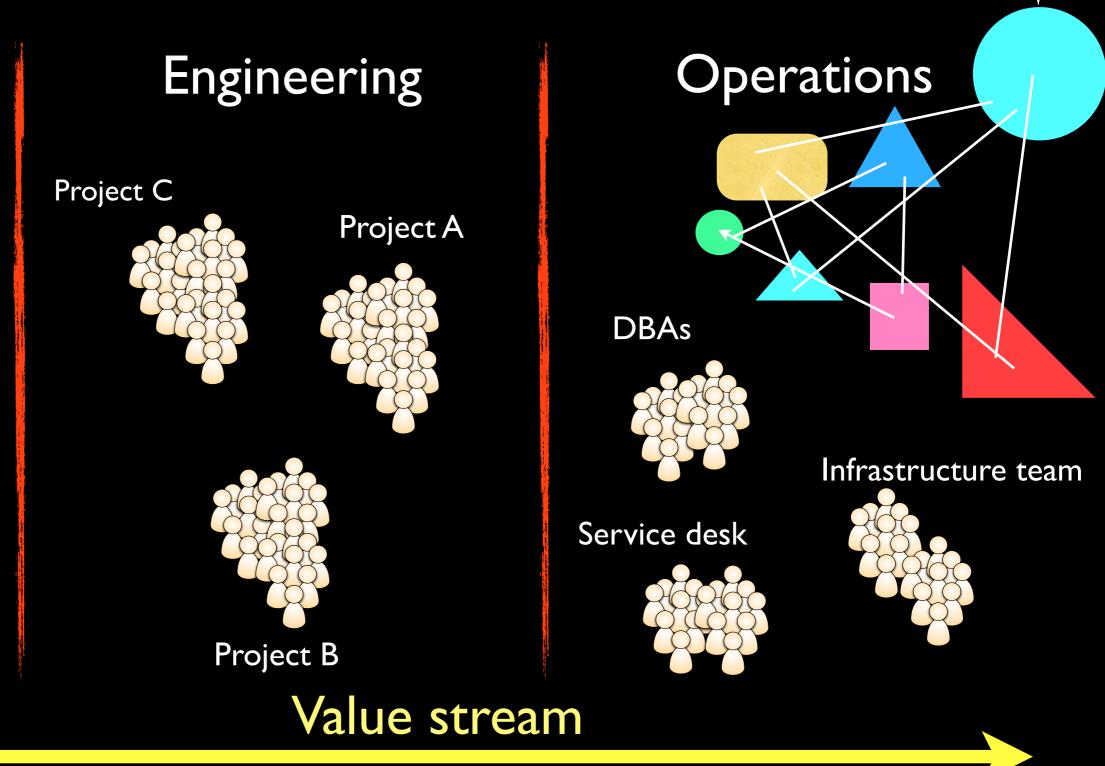
> Economist Intelligence Unit: "Organisational agility: How business can survive and thrive in turbulent times"

enterprise-class problems

- Political
- Organizational
- Project / program management
- Governance

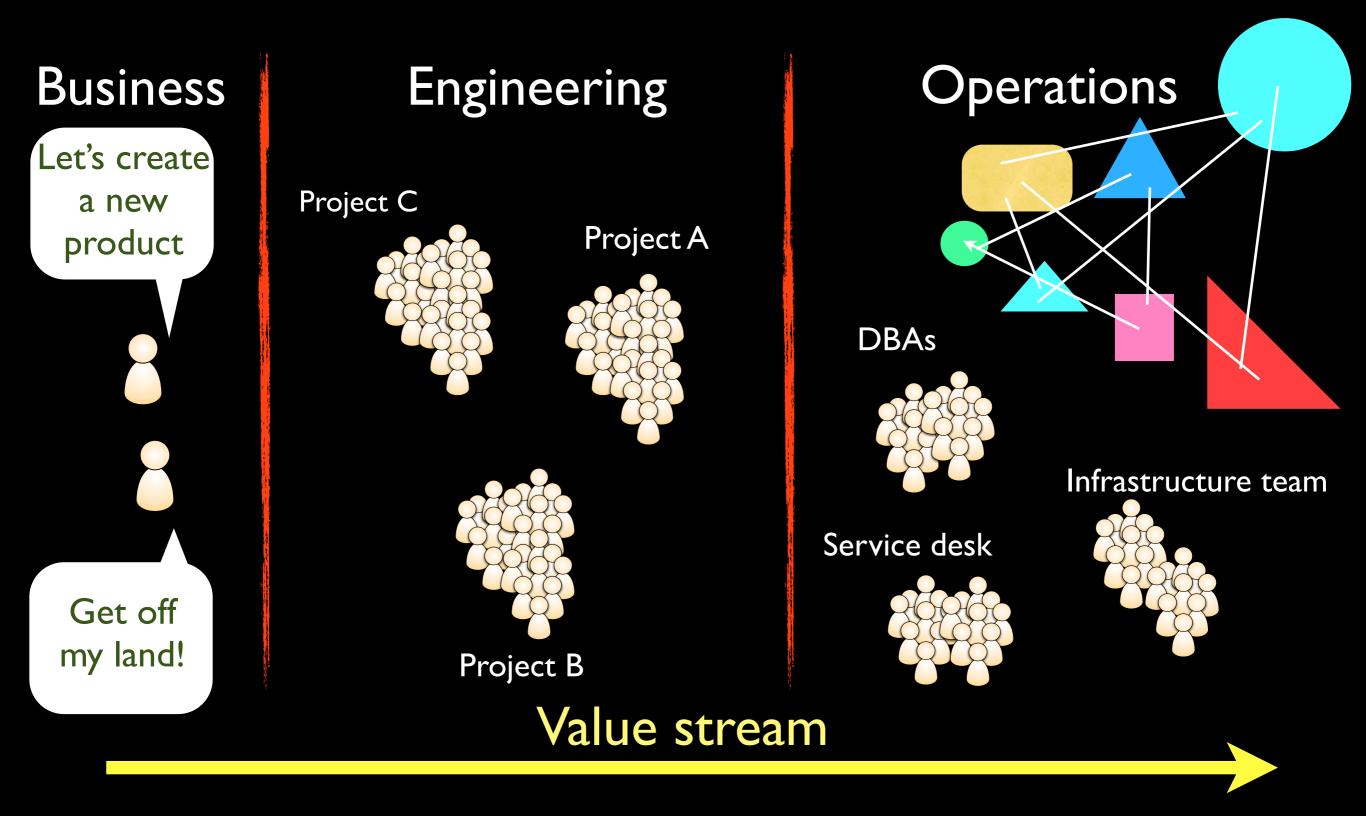
"the enterprise"

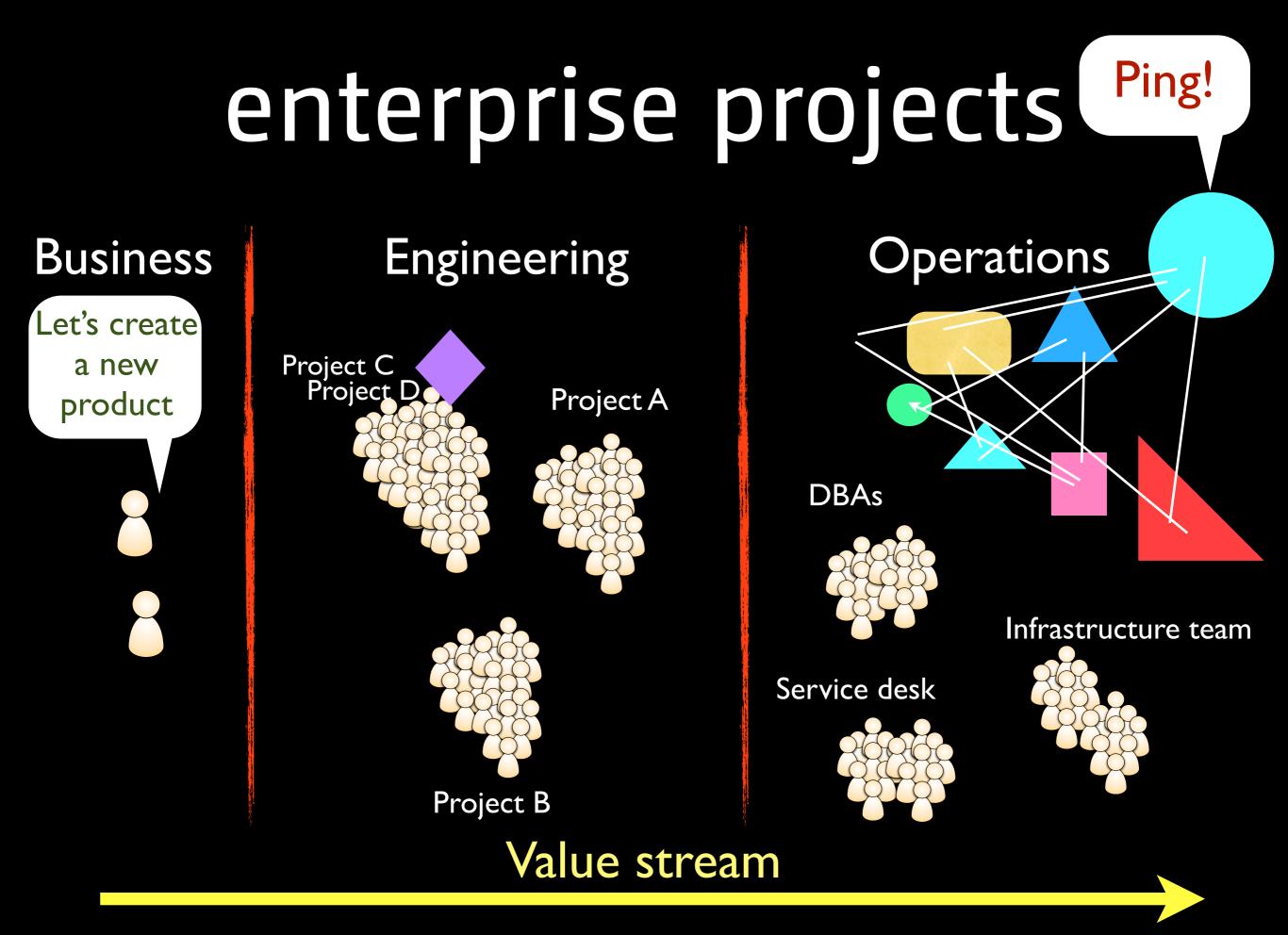
Business



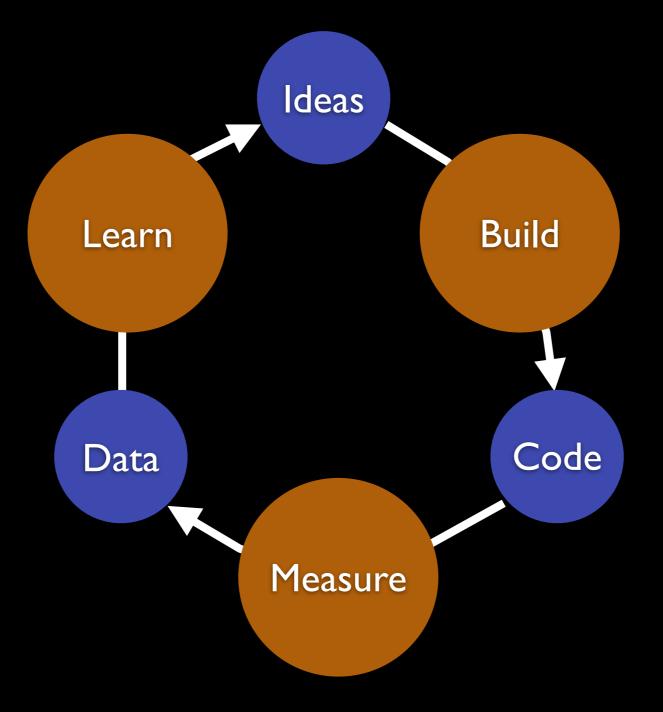
Ping!

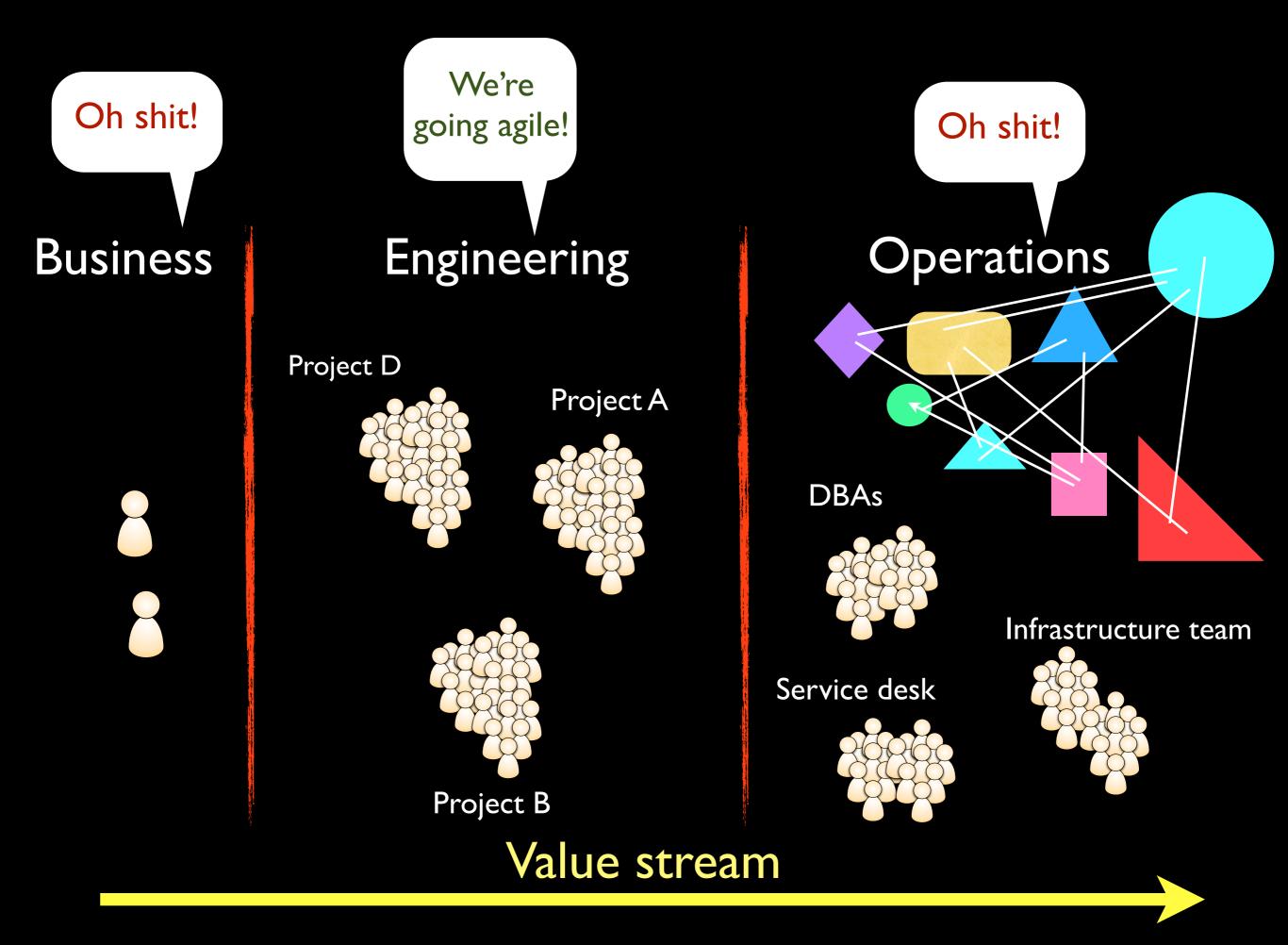
enterprise politics



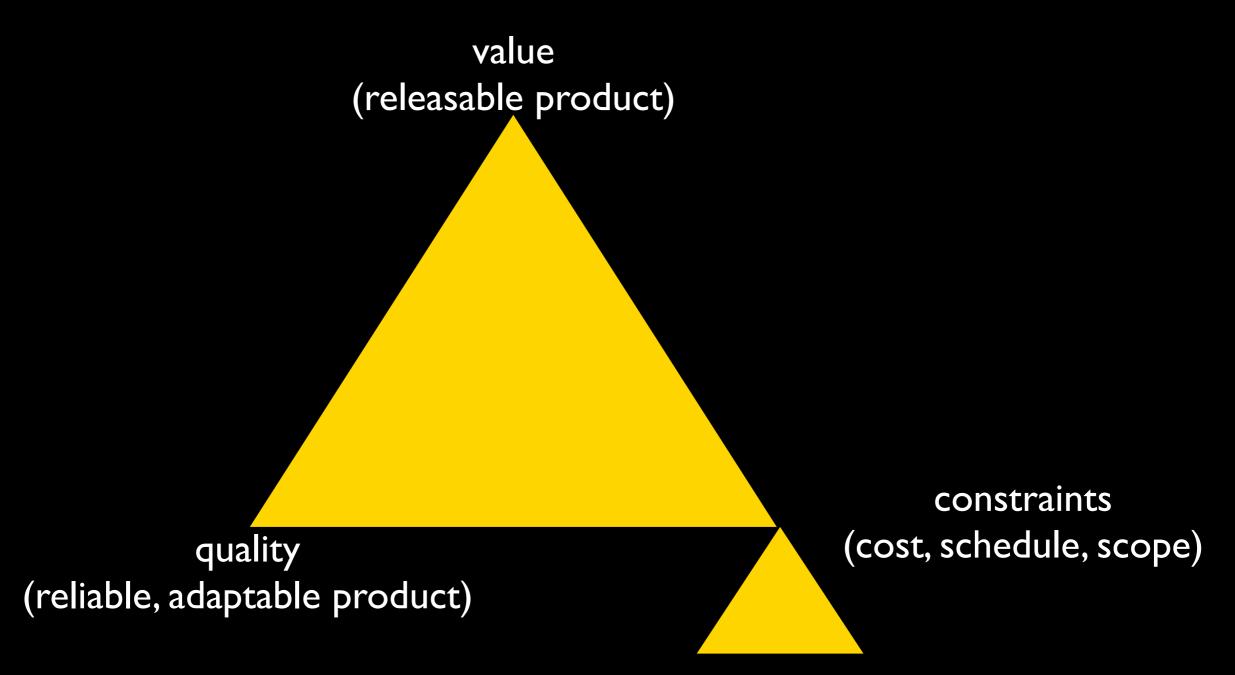


Ideas -> Measurement





agile triangle



Jim Highsmith: Agile Project Management

do less

Far more than 50% of functionality in software is rarely or never used. These aren't just marginally valued features; many are no-value features.

The Standish Group, reported in the IEEE conference 2002

quality

"if we do not know who the customer is, we do not know what quality is"

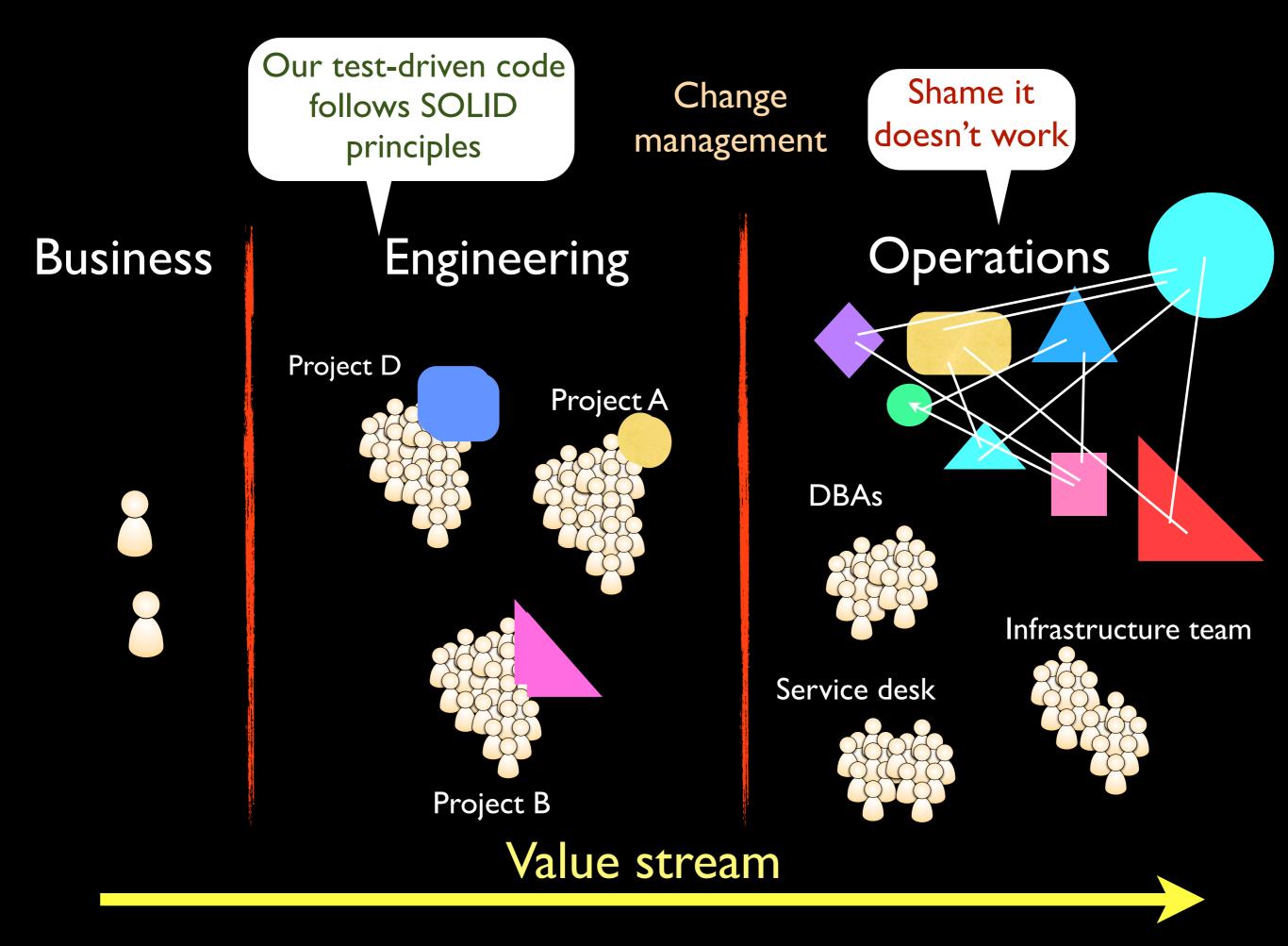
the lean startup, ch. 6 - test

build quality in



"Cease dependence on mass inspection to achieve quality. Improve the process and build quality into the product in the first place"

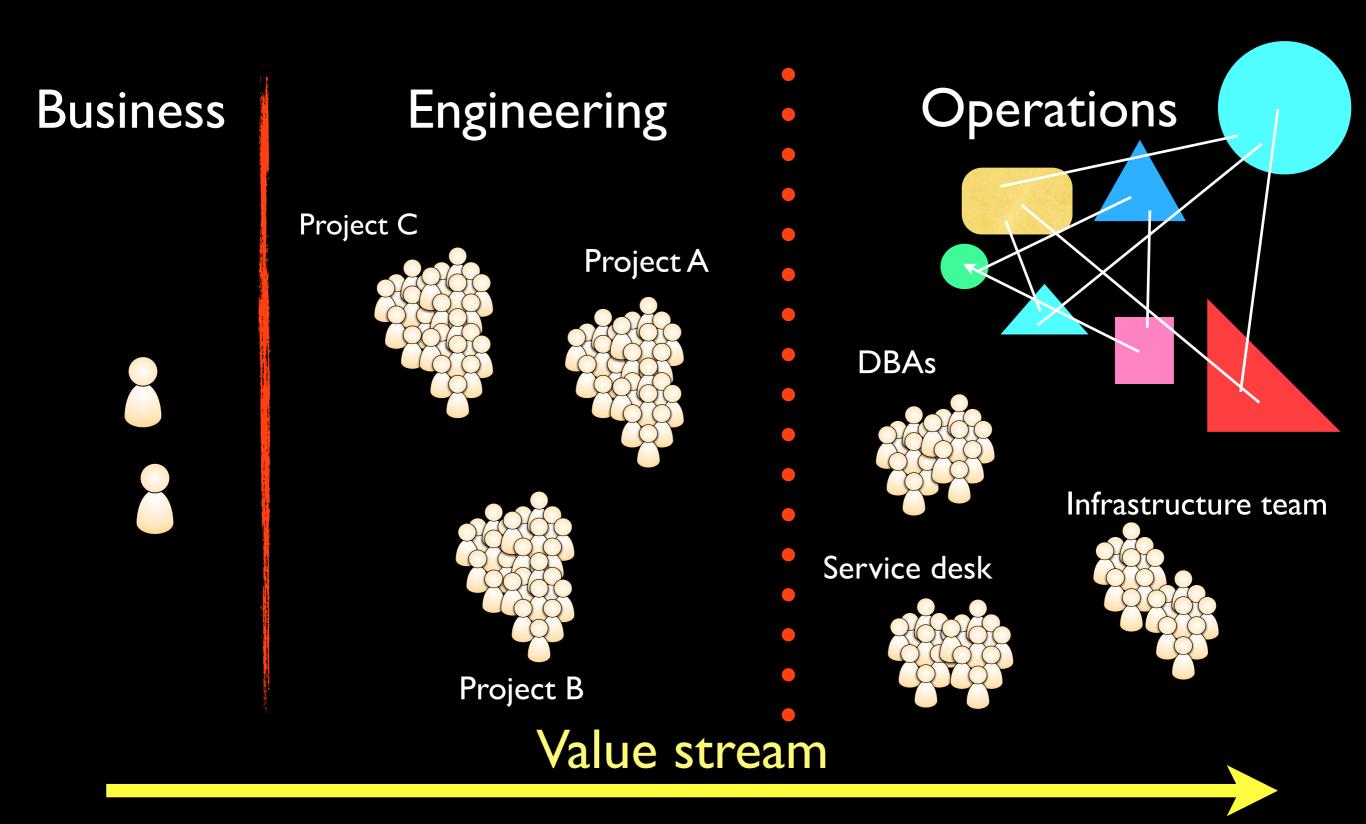
W. Edwards Deming





devops

culture automation measurement sharing



continuous delivery

developers write production-ready code

everyone collaborates throughout lifecycle

faster feedback loops

lower-risk, more reliable releases

done means released

but

ops still has all that legacy crap

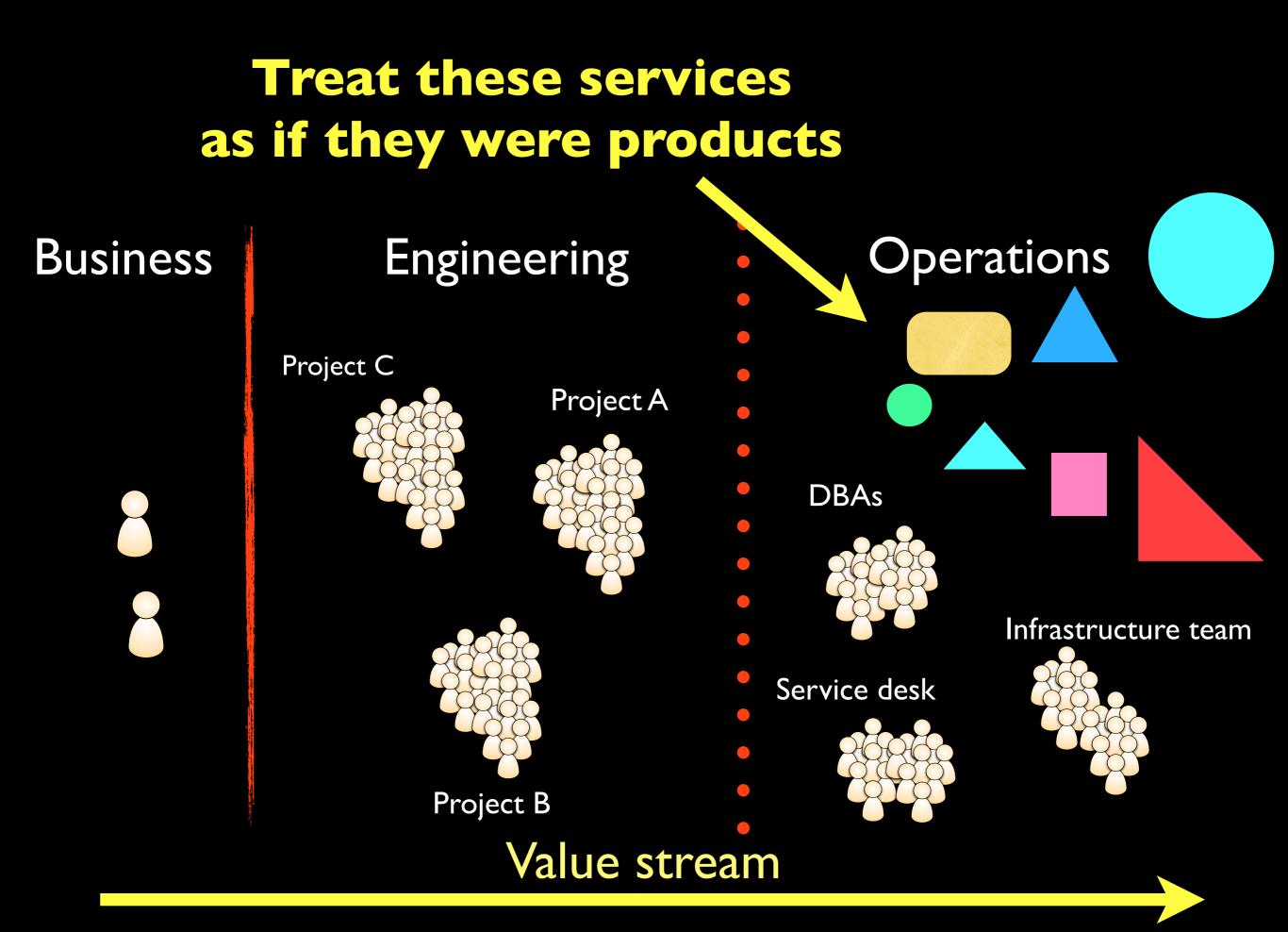
no way to rationally decide what to retire

deciding what to do is command-and-control

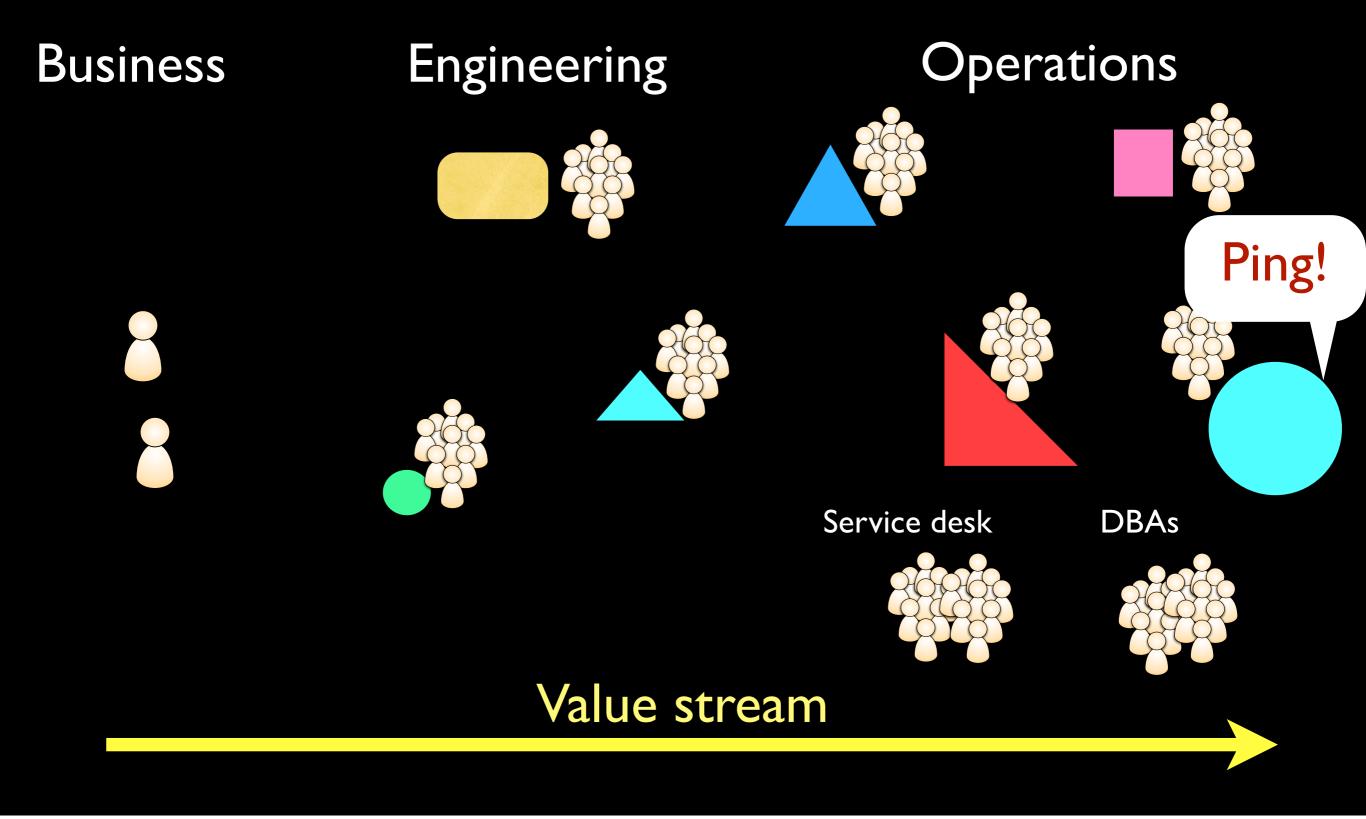
who is feeling the pain?

You build it, You run it

werner vogels, cto, amazon



think product



what about utilization?

$\frac{Cycle\ time}{Value\ added\ time} = \frac{1}{1-\rho}$

Donald Reinertsen, The Principles of Product Development Flow, p60.

therefore...

measure cost and value delivered

rationally determine what to prioritize

self-manage using lean startup methodology

architecture group regulates at system level

PMO prevents "market failure"

what is "done"?

"user stories were not considered complete until they led to validated learning"

the lean startup, ch. 7 - measure

enterprise governance

risk management

SOX, ITIL, COBIT

segregation of duties

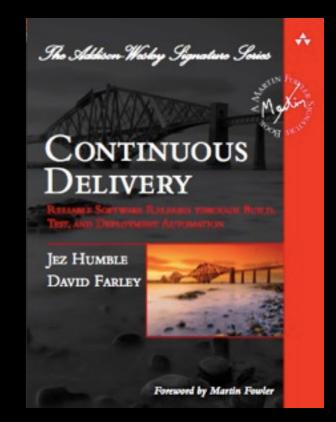
change management

auditing and compliance

questions

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