

the lean enterprise

@jezhumble | @GRUVERGary



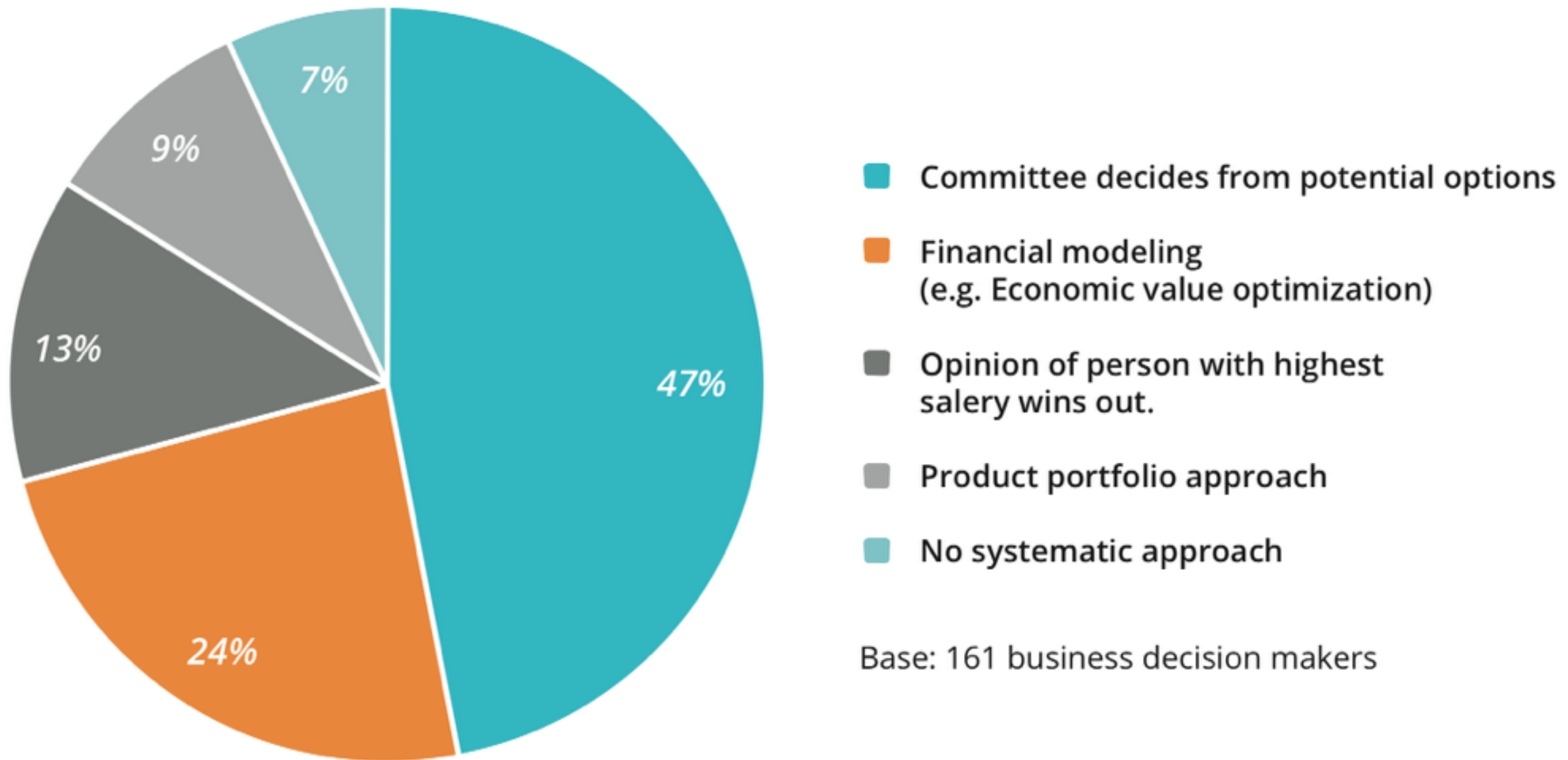
lean

“precisely specify *value* by specific product, identify the *value stream* for each product, make value *flow* without interruptions, let the customer *pull* value from the producer, and pursue *perfection*”

enterprise

a complex, adaptive system

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

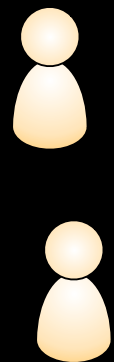


Source: A commissioned study conducted by Forrester Consulting on behalf of ThoughtWorks, September 2012

“the enterprise”

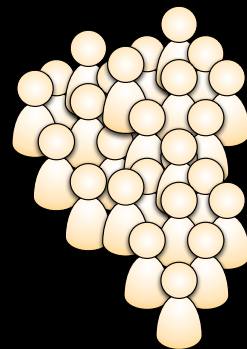
Ping!

Business

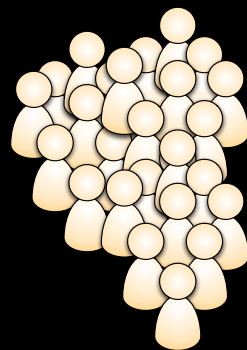
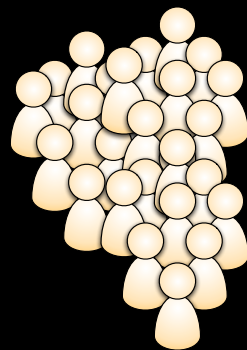


Engineering

Project C

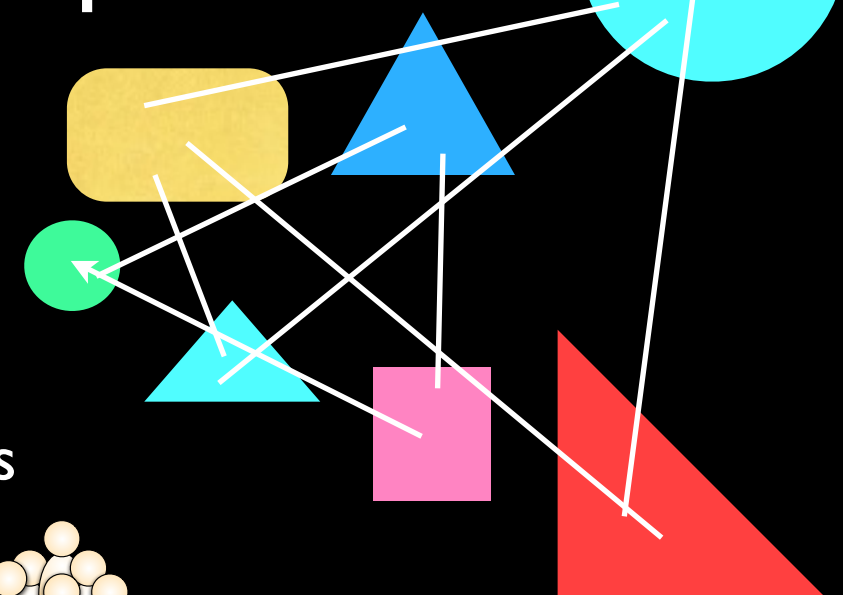


Project A

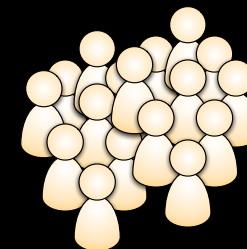


Project B

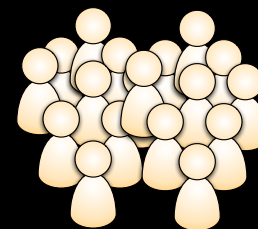
Operations



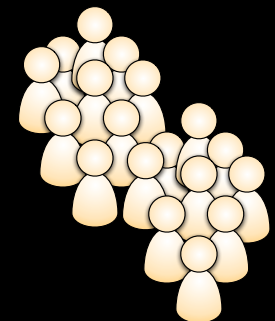
DBAs



Service desk



Infrastructure team



Value stream

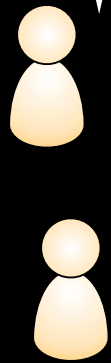


enterprise projects

Ping!

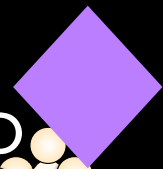
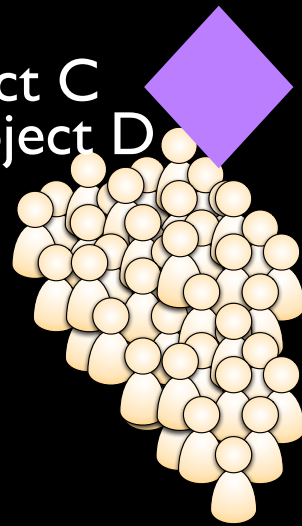
Business

Let's create
a new
product

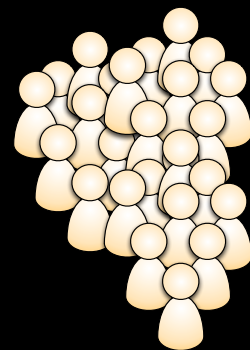
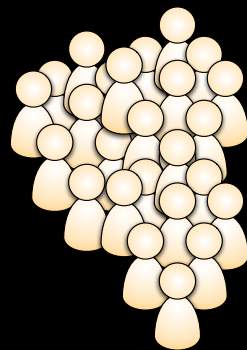


Engineering

Project C
Project D

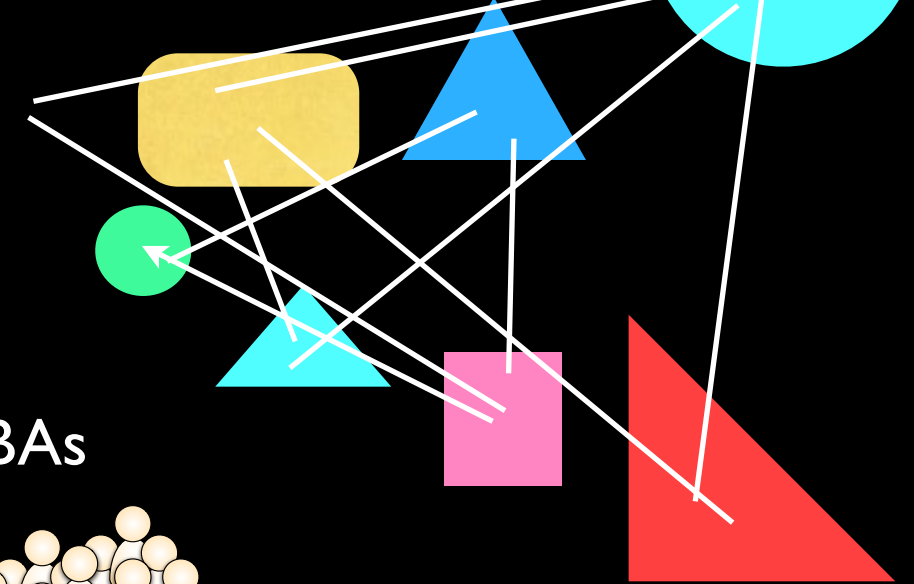


Project A

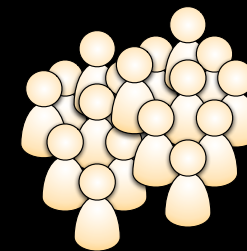


Project B

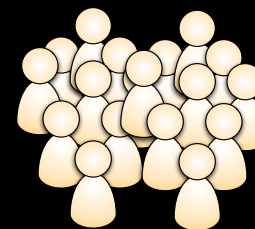
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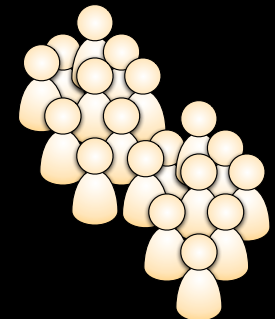
DBAs



Service desk



Infrastructure team

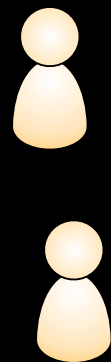


Value stream



Oh shit!

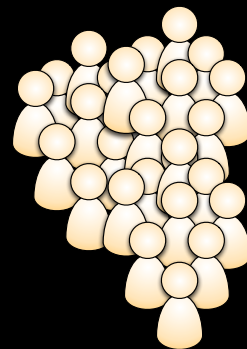
Business



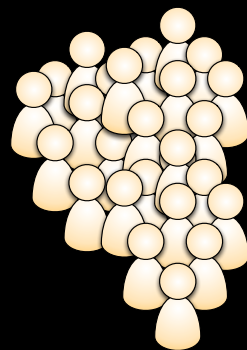
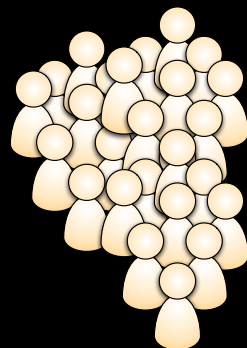
We're
going agile!

Engineering

Project D



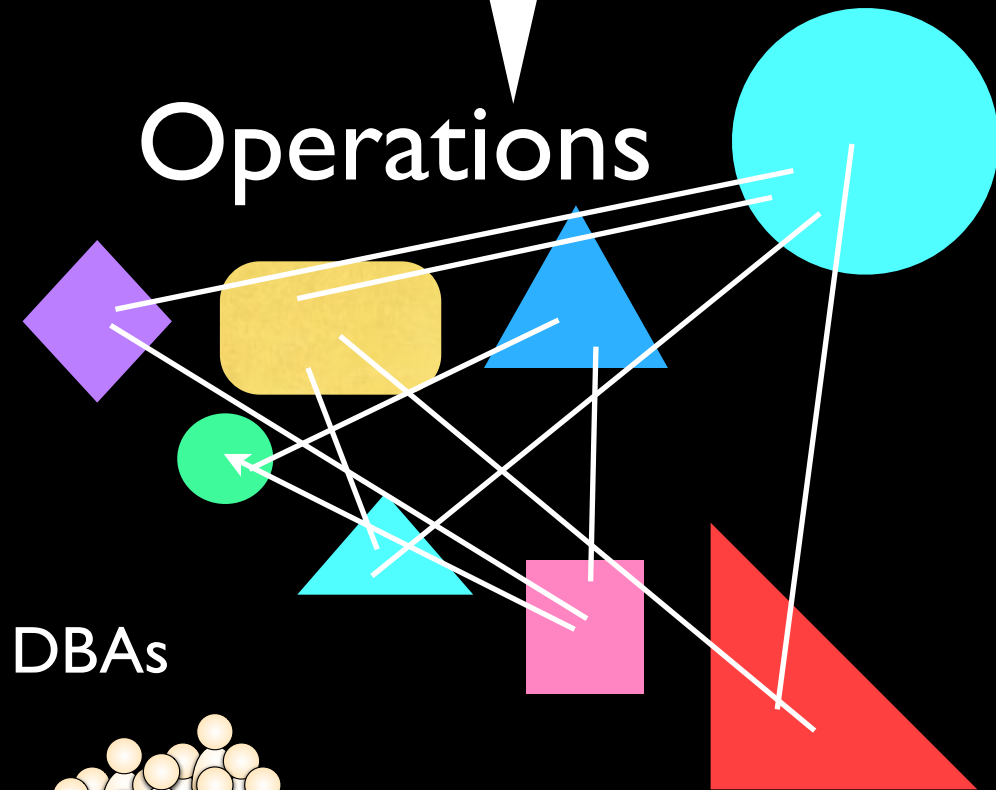
Project A



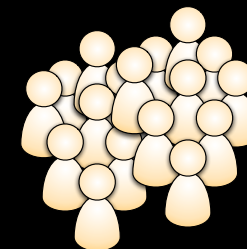
Project B

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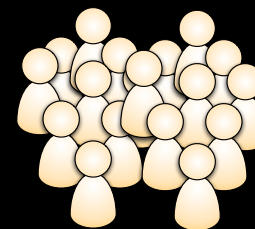
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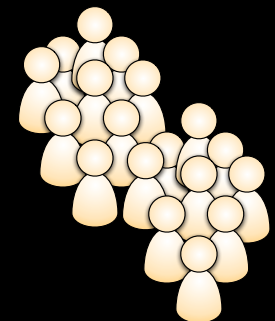
DBAs



Service desk



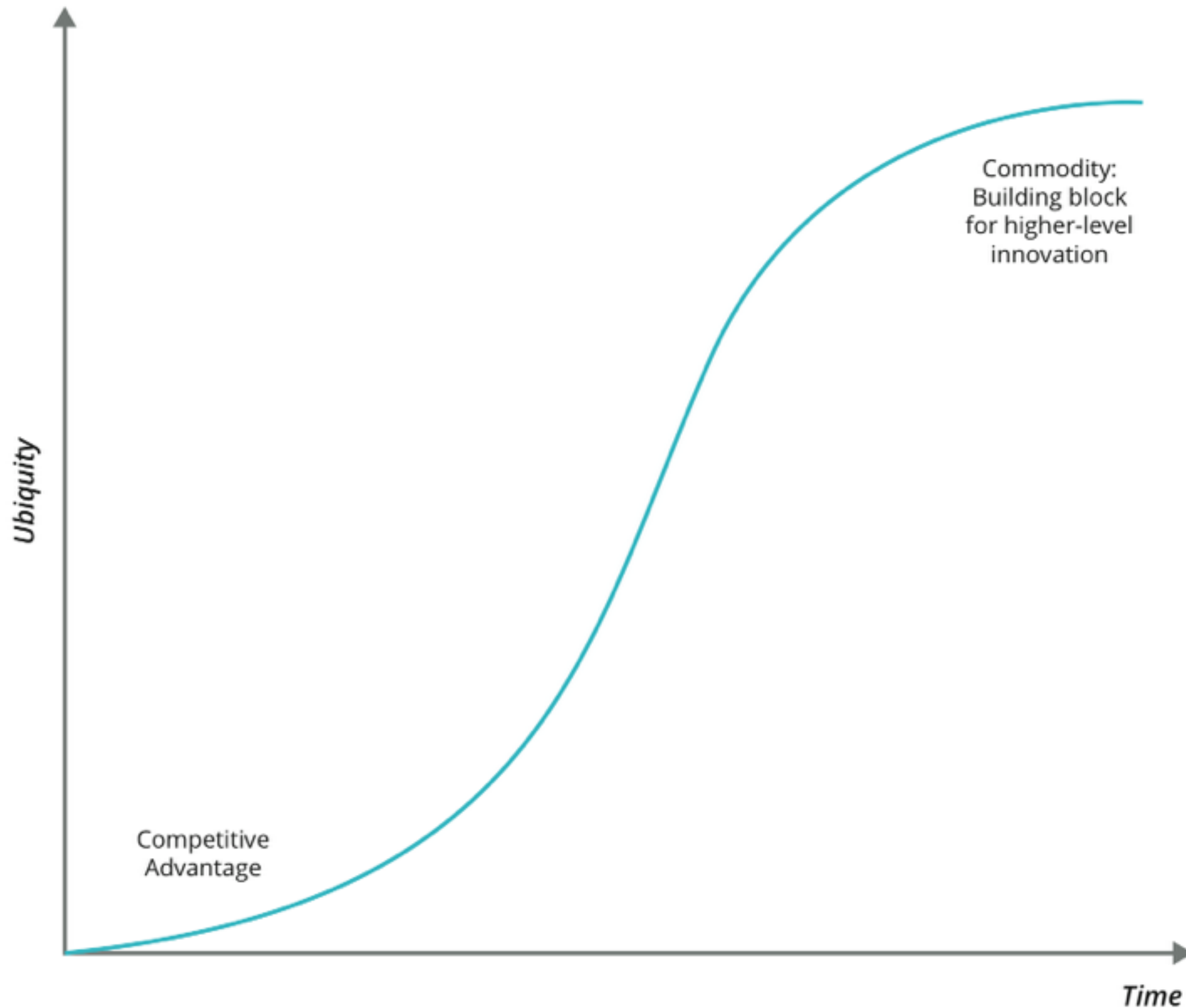
Infrastructure team



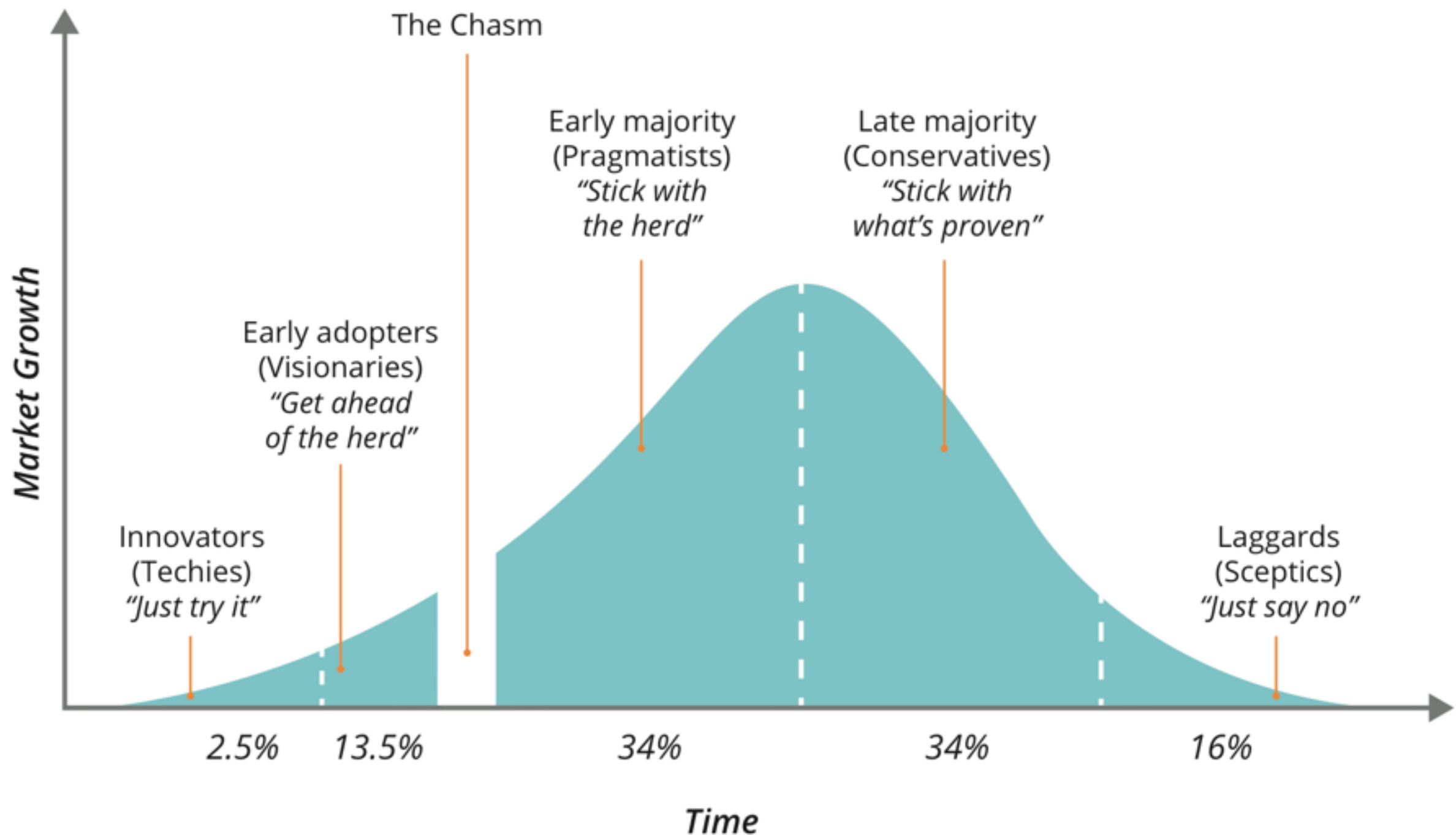
Value stream



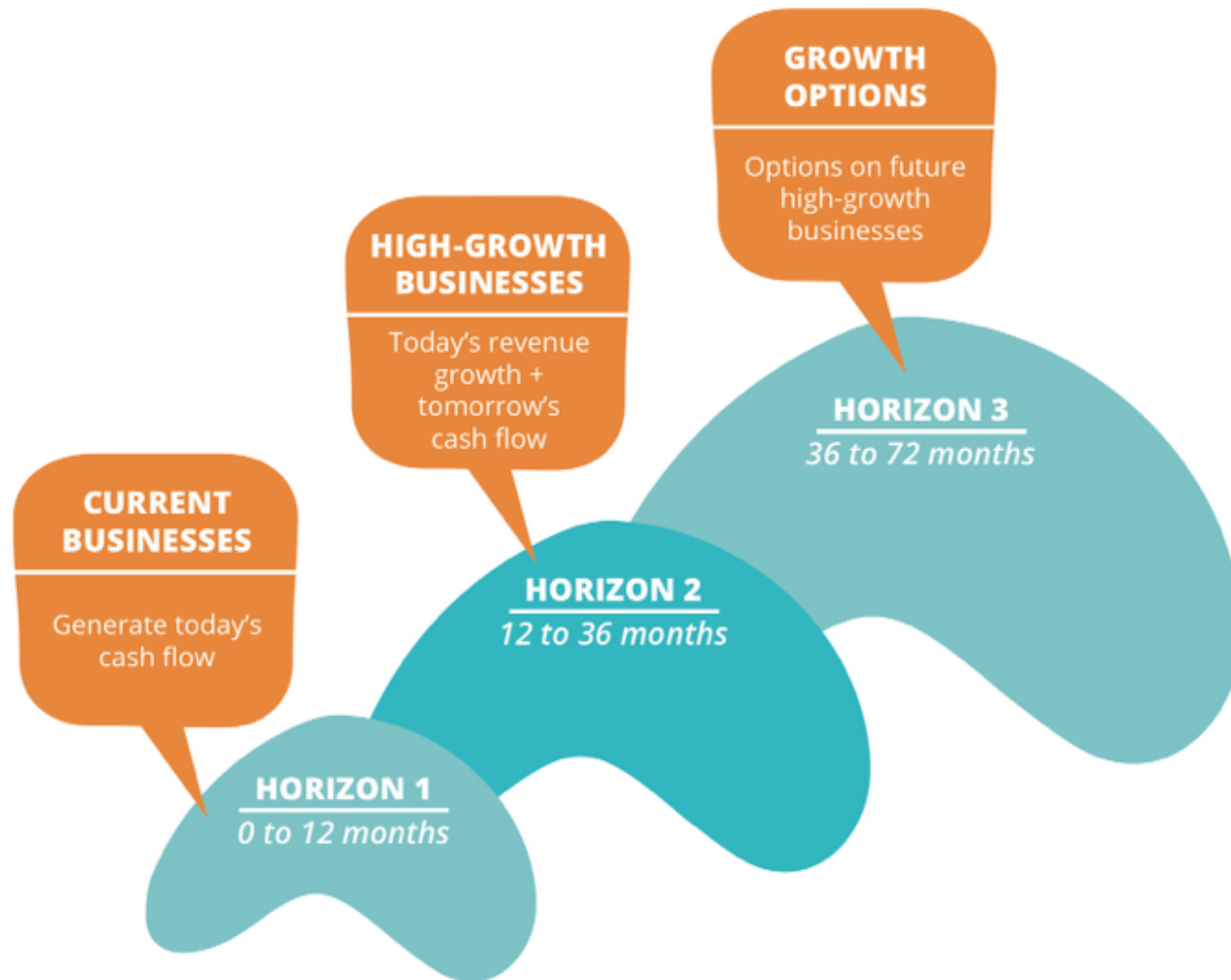
lifecycle of innovations



technology adoption lifecycle



three horizons



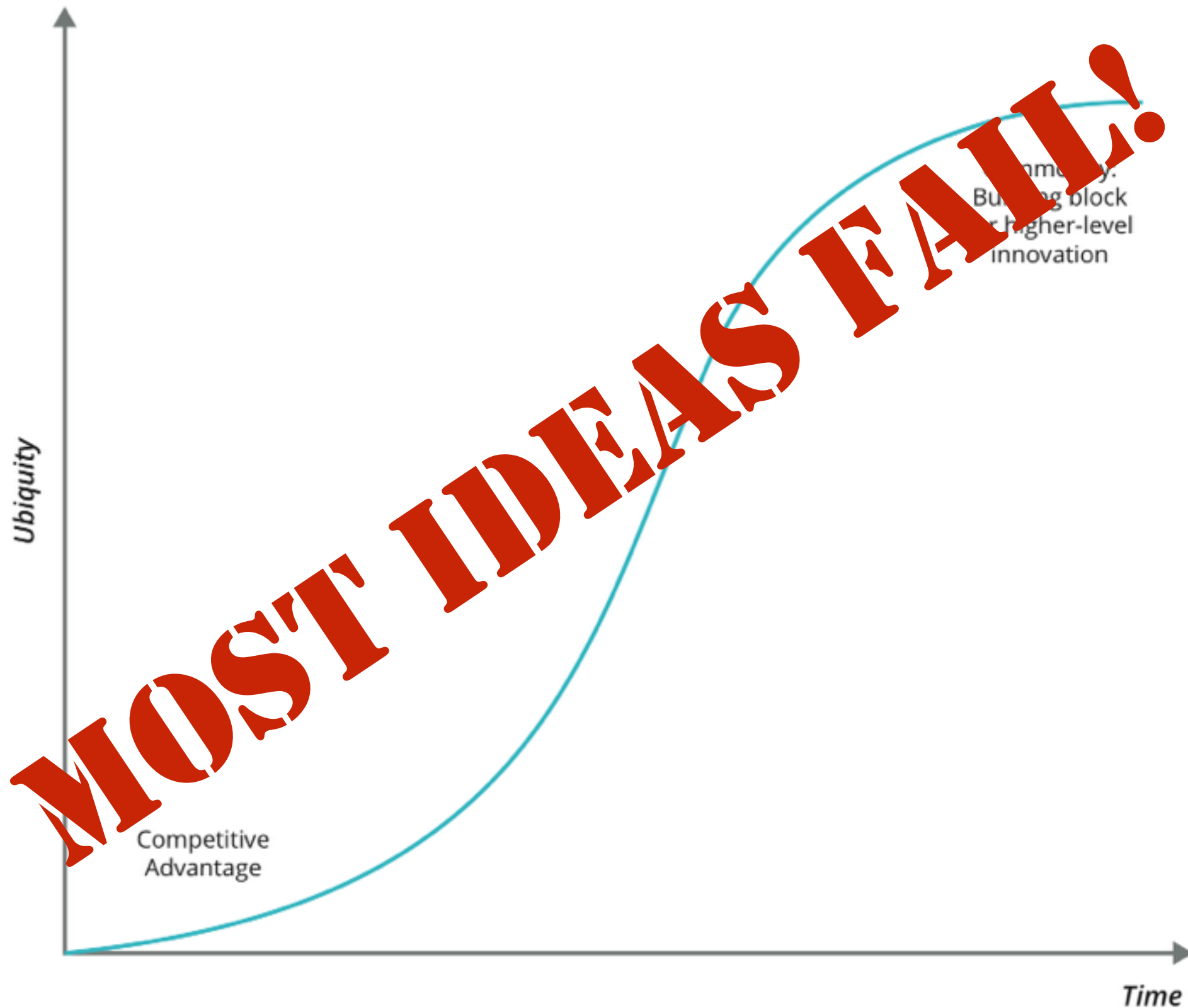
Intuit horizons and metrics

	Existing businesses	Adolescent businesses	Ideas
Investment	60%	30%	10% of operating expenses, funded quarterly based on validated learning
Metrics	Growing category, Share, Net promoter, Revenue	Growth, Increasing efficiency (will lead to profitability)	Love Metrics based on delivering customer benefit, active product usage, proactive word of mouth
Example products	TurboTax, Mint	QuickBooks Online Accounting	SnapTax

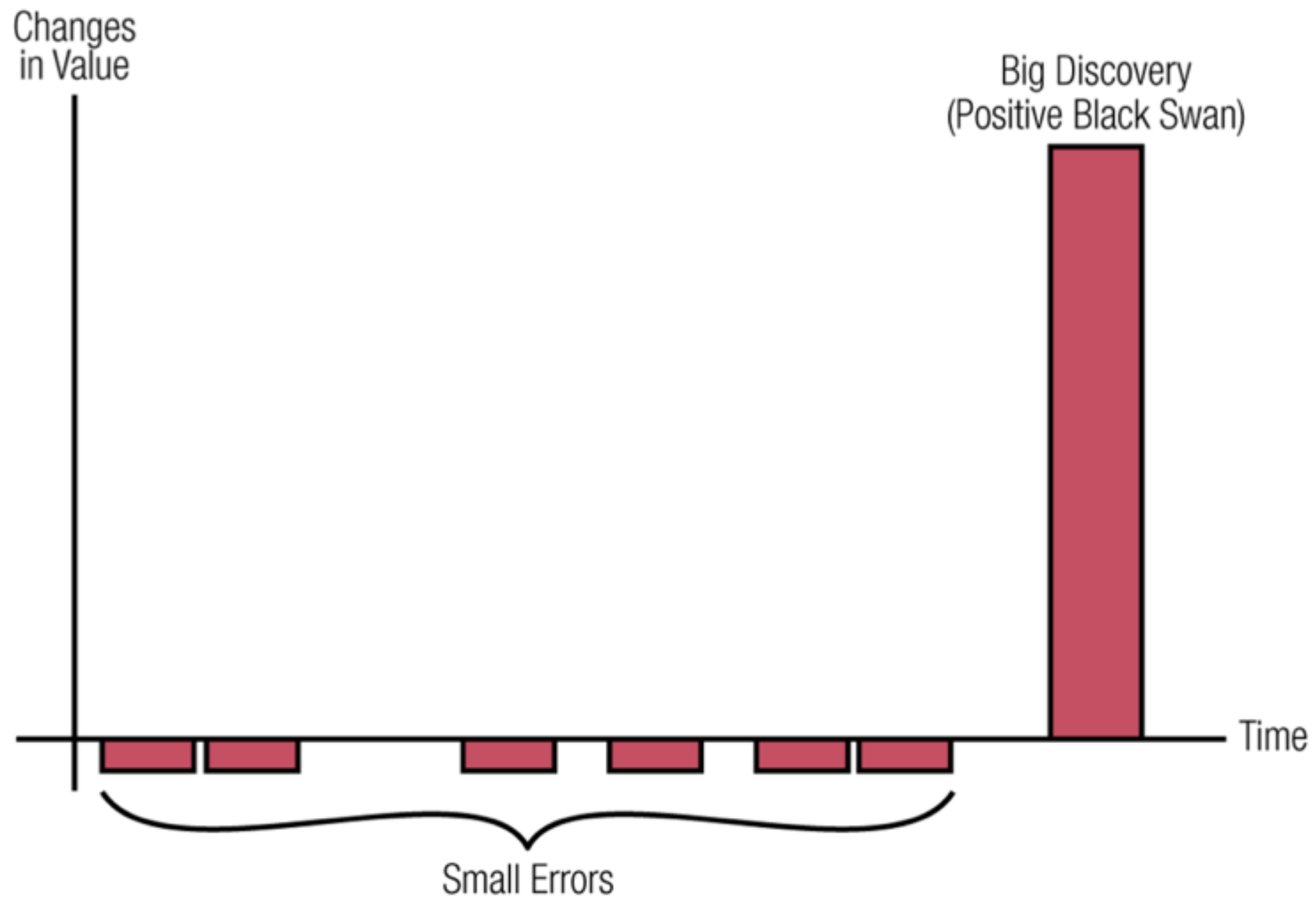
explore vs exploit

	Explore	Exploit
Strategy	Radical or disruptive innovation, new business model innovation	Incremental innovation, existing business model optimization
Structure	Small cross-functional multi-skilled team	Multiple teams aligned using Principle of Mission
Culture	High tolerance for experimentation, risk taking, acceptance of failure, focus on learning	Incrementally improve and optimize, values quality and customer satisfaction
Risk management	Biggest risk is failure to achieve product/market fit	A more complex set of trade-offs specific to each product/service
Goals	Create new markets, discover new opportunities within existing markets	Maximize yield from captured market, outperform competitors
Measure of progress	Achieving product/market fit	Outperform forecasts, achievement of planned milestones and targets

product/market fit

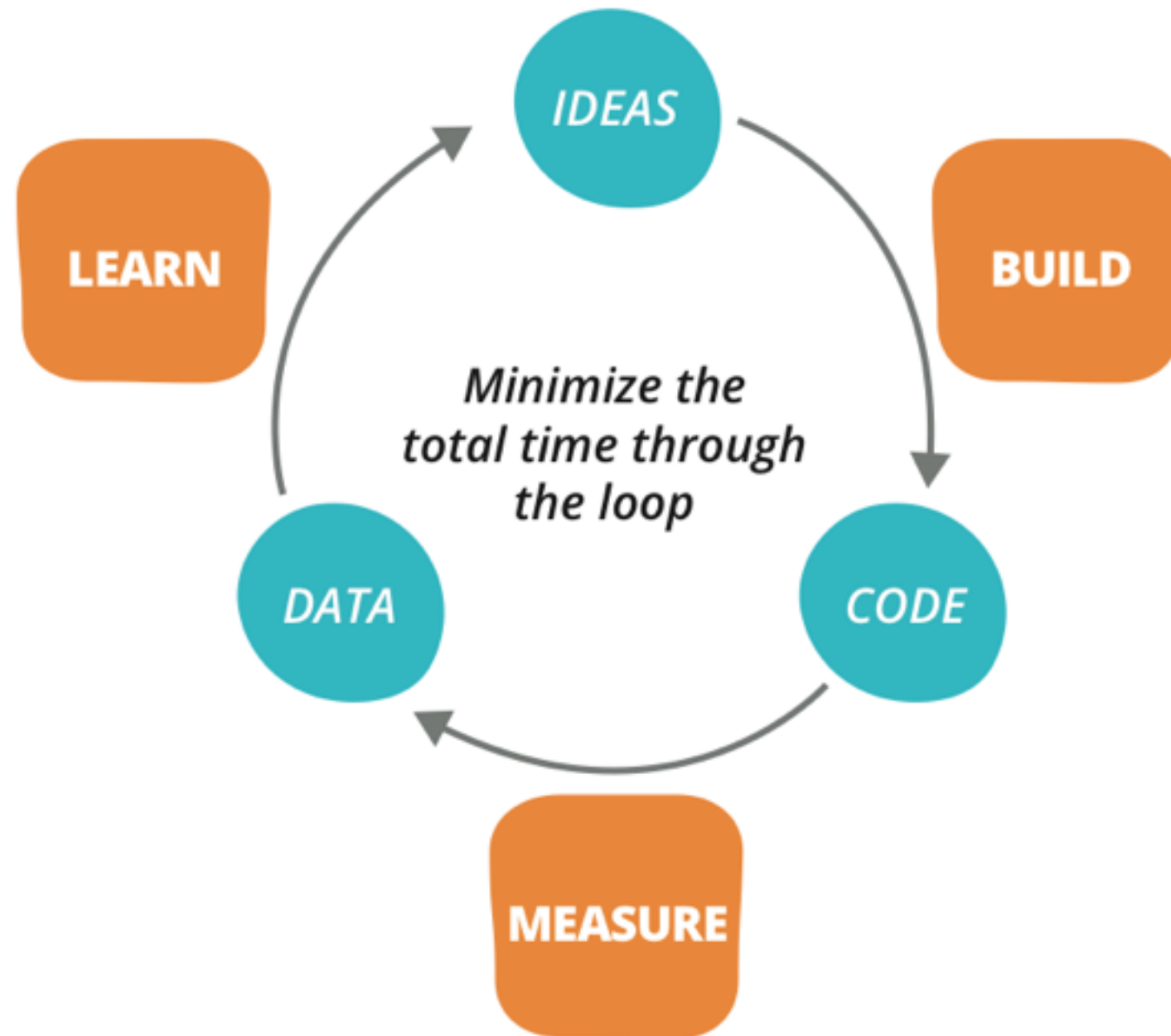


optionality

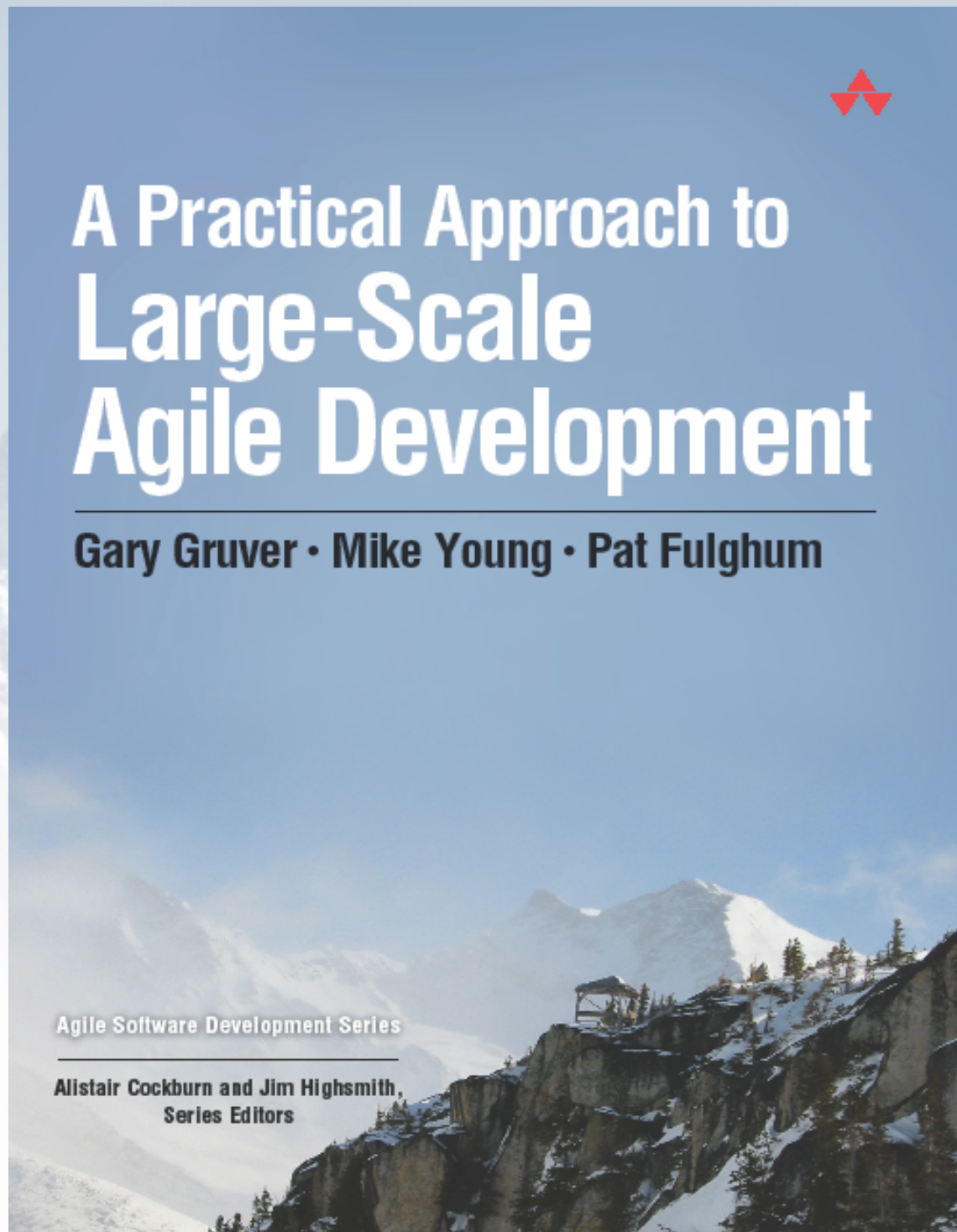


Nassim Taleb, *Antifragile*

build-measure-learn



gary gruver



- Led HP's 400+ developers on a journey from waterfall to agile development
- VP of QE, Release, and Operations at Macys.com leading journey to CD
- President Large-Scale Agile LLC consulting (trying to to help the Psychopaths)

hp laserjet firmware team

2008

10% - code integration

20% - detailed planning

25% - porting code

25% - current product support

15% - manual testing

~5% - innovation

firmware development transformation



**Consistent Dev
Environment**



**Integrated
Tools**

**Organizational
Change
Management**

**Agile
Development
with Mini
Milestones
(Sprints)**

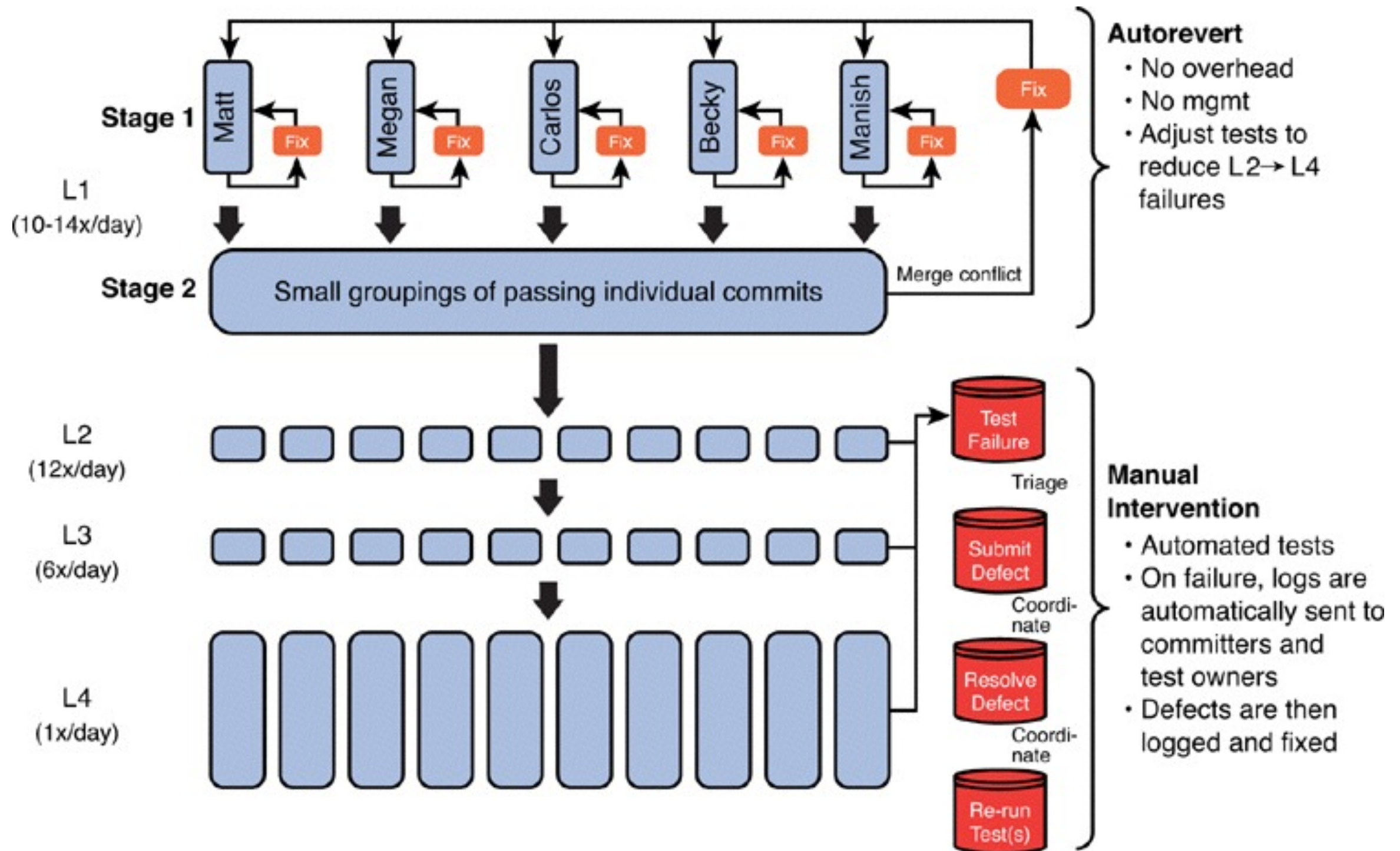
**Architected for
product
variability**

**Fully automated
unit and
system test**

**Continuous
integration and
test system**

**One branch for all
products including
CPE**

deployment pipeline



breakthrough capacity for development

New Customer
Capabilities

Defect
Fixes

FutureSmart FW Large Scale Agile Development Engine

- 400+ developers
- 10+M LOC
- 75,000-100,000 LOC turmoil
- 100-150 Commits
- 10-15 builds /day
- 15,000 hours/day of testing (90% pass rate)



hp laserjet firmware team

2008

10% - code integration

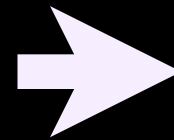
20% - detailed planning

25% - porting code

25% - current product support

15% - manual testing

~5% - innovation



2011

2% - continuous integration

5% - agile planning

15% - one main branch

10% - one branch cpe

5% - most testing automated

~40% - innovation

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

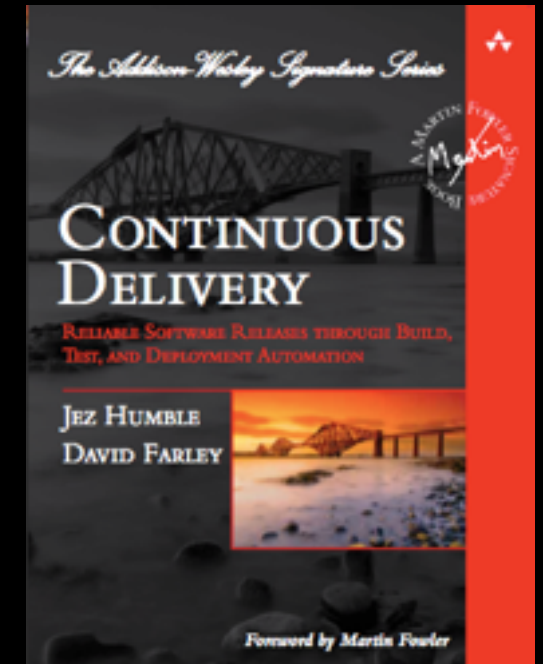
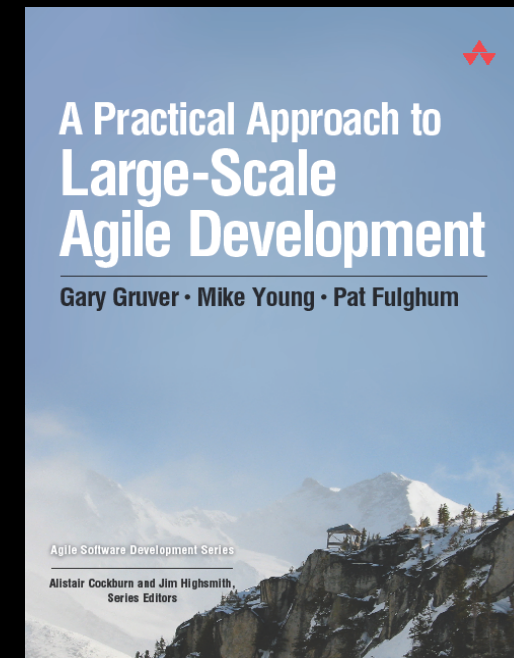
questions

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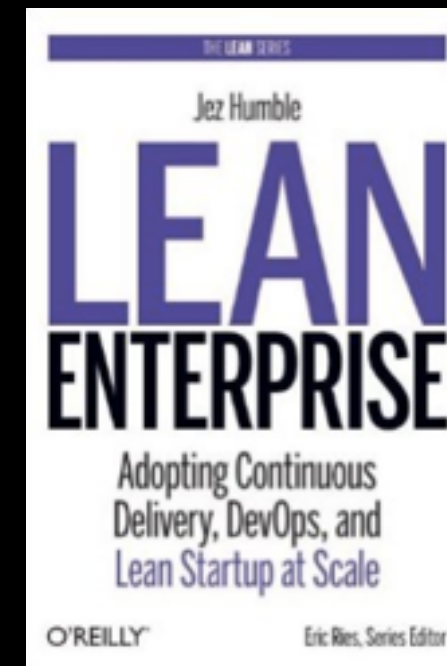
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