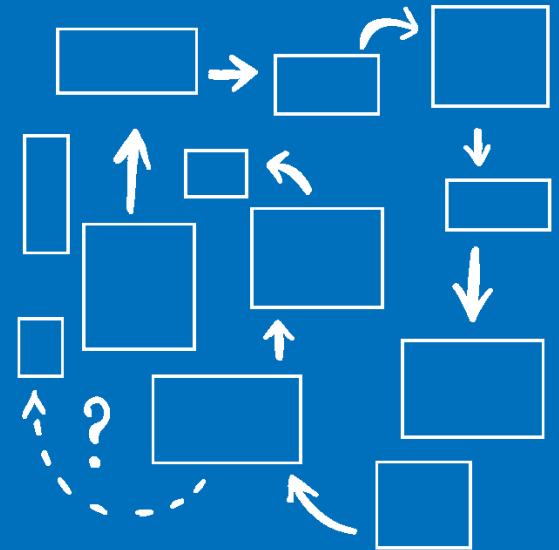


Build a DevOps culture  
Because you're better together



# Why are we here?

DevOps is about processes, people and technology. Here are some tips to make it work.

# On our Regcast today

**Ashok Reddy**

IBM

**Dale Vile**

Freeform Dynamics

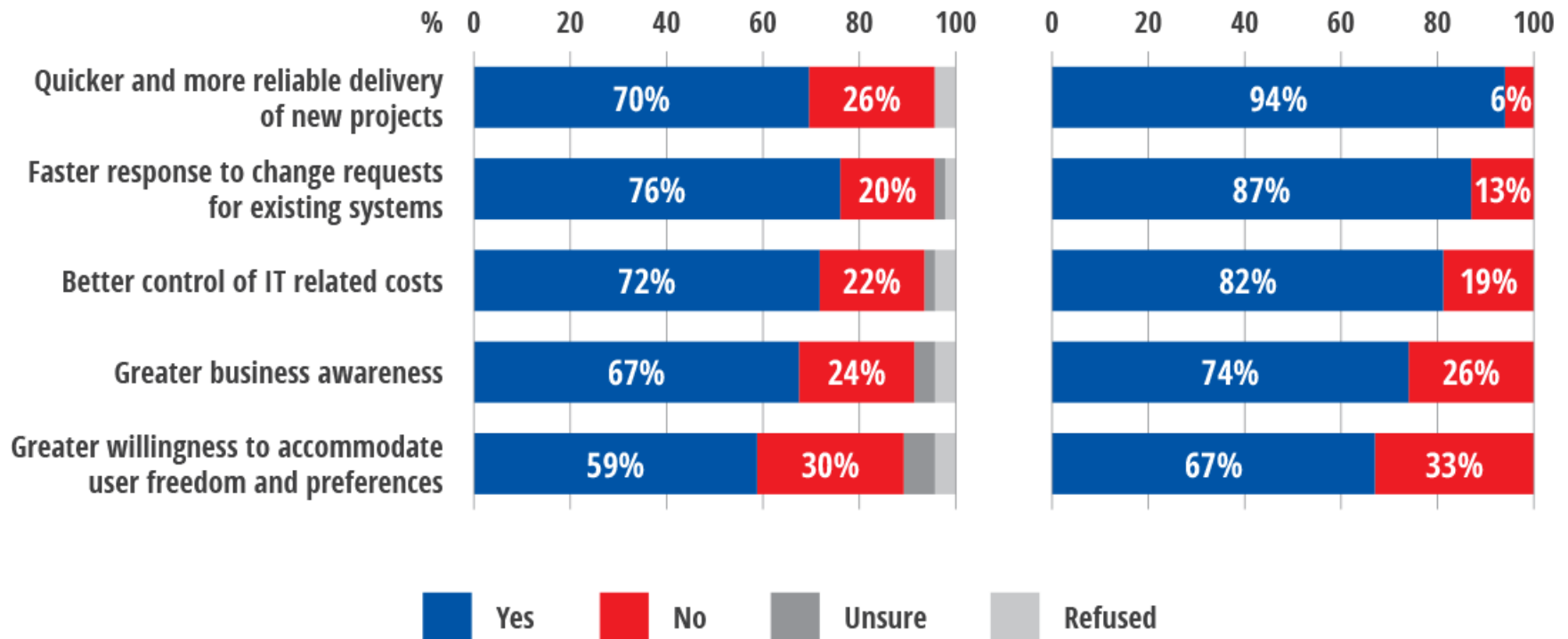
**Tim Phillips**

The Reg

# IT and business: more agility please

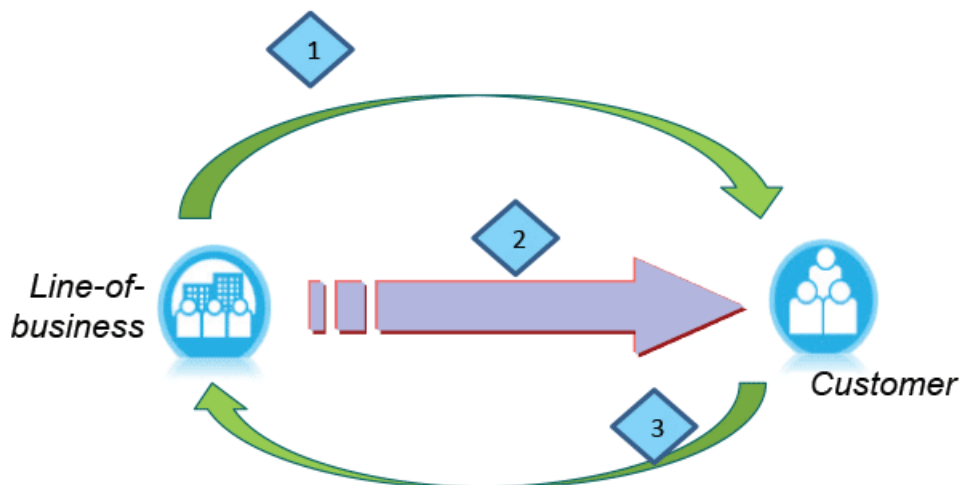
**"Your wishlist for IT?"  
Business respondents**

**"What does the business demand?"  
IT respondents**

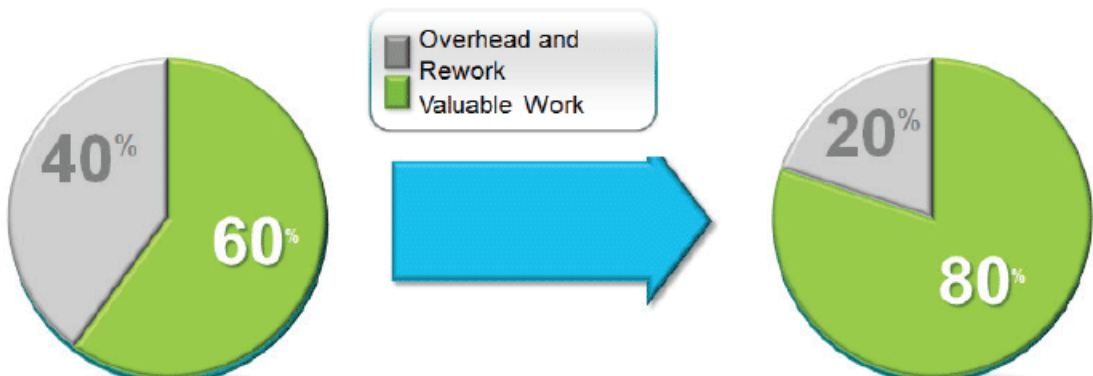


# DevOps approach:

Apply lean and agile principles to create a continuous feedback loop with users



1. Get ideas into production fast
2. Get people to use it
3. Get feedback



Eliminate any activity that is not necessary for learning what customers want

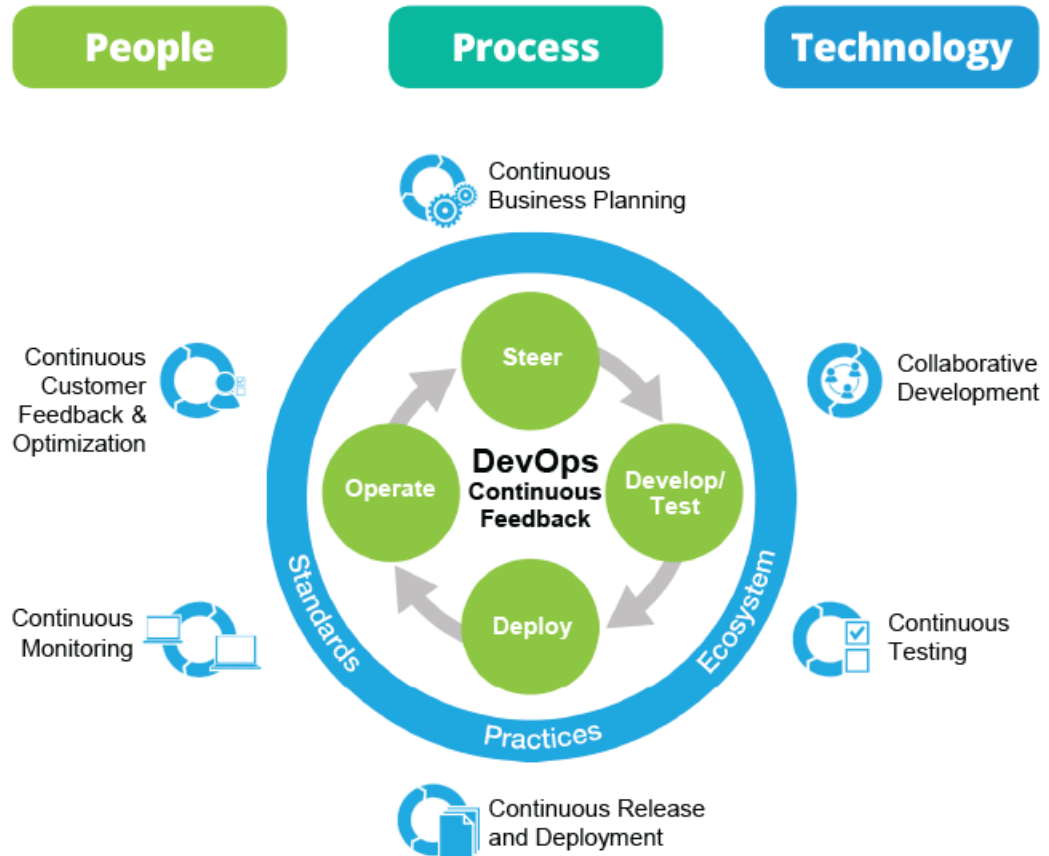
# DevOps

Enterprise capability for continuous software delivery that enables organisations to seize market opportunities and reduce time to customer feedback

**Accelerate software delivery**  
– for faster time to value

**Reduce time to customer feedback** – for improved customer experience

**Balance speed, cost, quality and risk** – for increased capacity to innovate

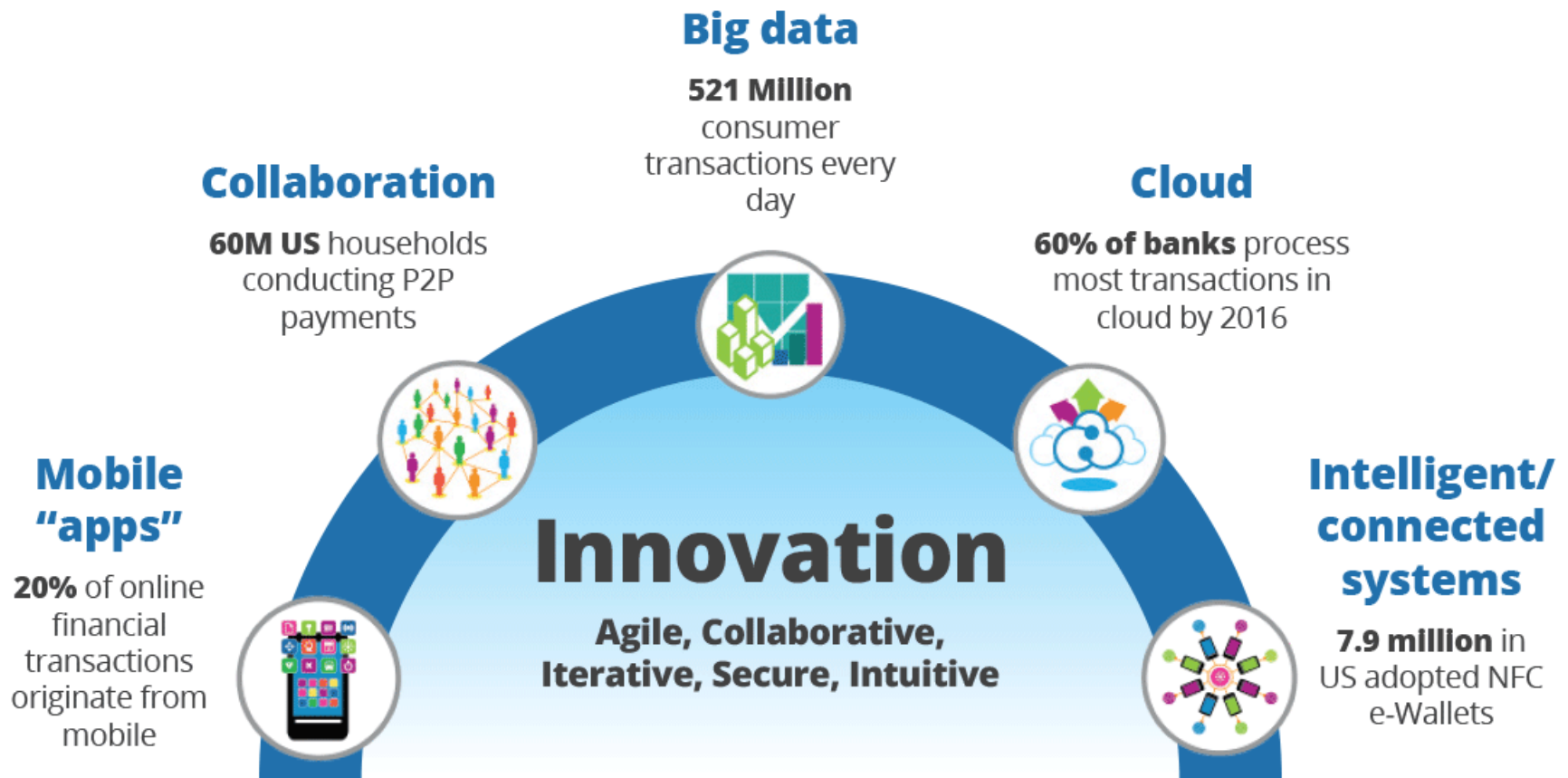


# A software-driven world

- Evolving market and customer expectations
- Changing the pace of innovation
- Smarter, faster, and higher quality
- Empowered developers



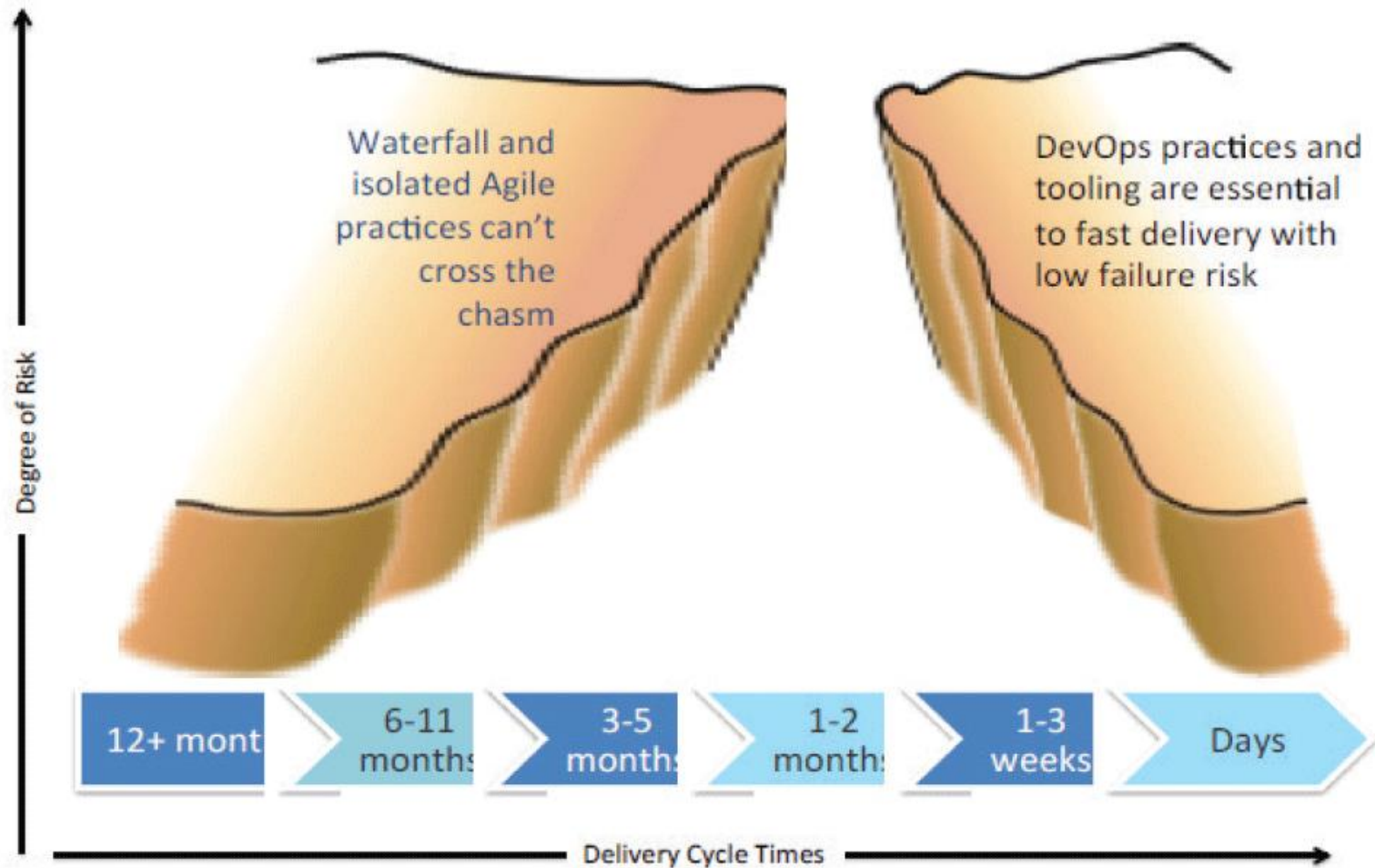
# Disruptive technologies and market shifts



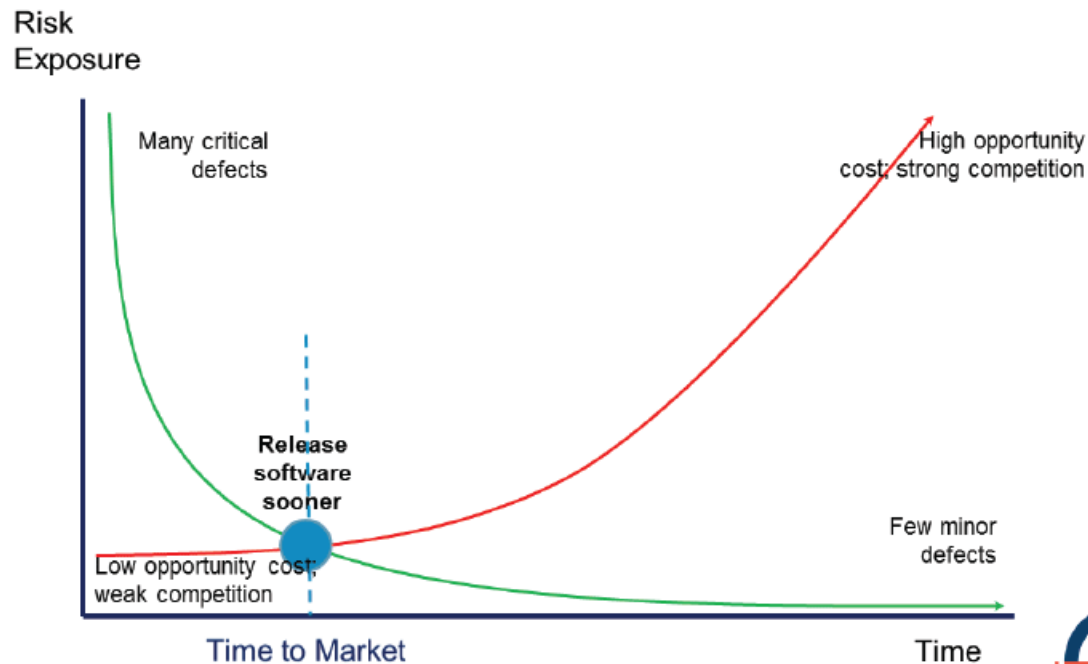
These technology trends also affect the applications which are used internal to a company or IT.



# How do we speed up software delivery?



# Shift left to speed delivery and learn faster



Organisations are asking teams to release higher quality software sooner. Development teams are becoming more and more agile; testing still never seems to have enough time.

# Eight key practices accelerate delivery

- 1. Minimum viable product**
- 2. Dedicated teams**
- 3. Loosely coupled architecture**
- 4. Minimising handoffs, maximising flow**
- 5. Deliver in small batches**
- 6. Transparency**
- 7. Eliminate overhead**
- 8. Automate testing using APIs**

# Demands on IT have increased dramatically

## Optimisation



Next Generation  
of Hybrid  
Architectures

## Innovation



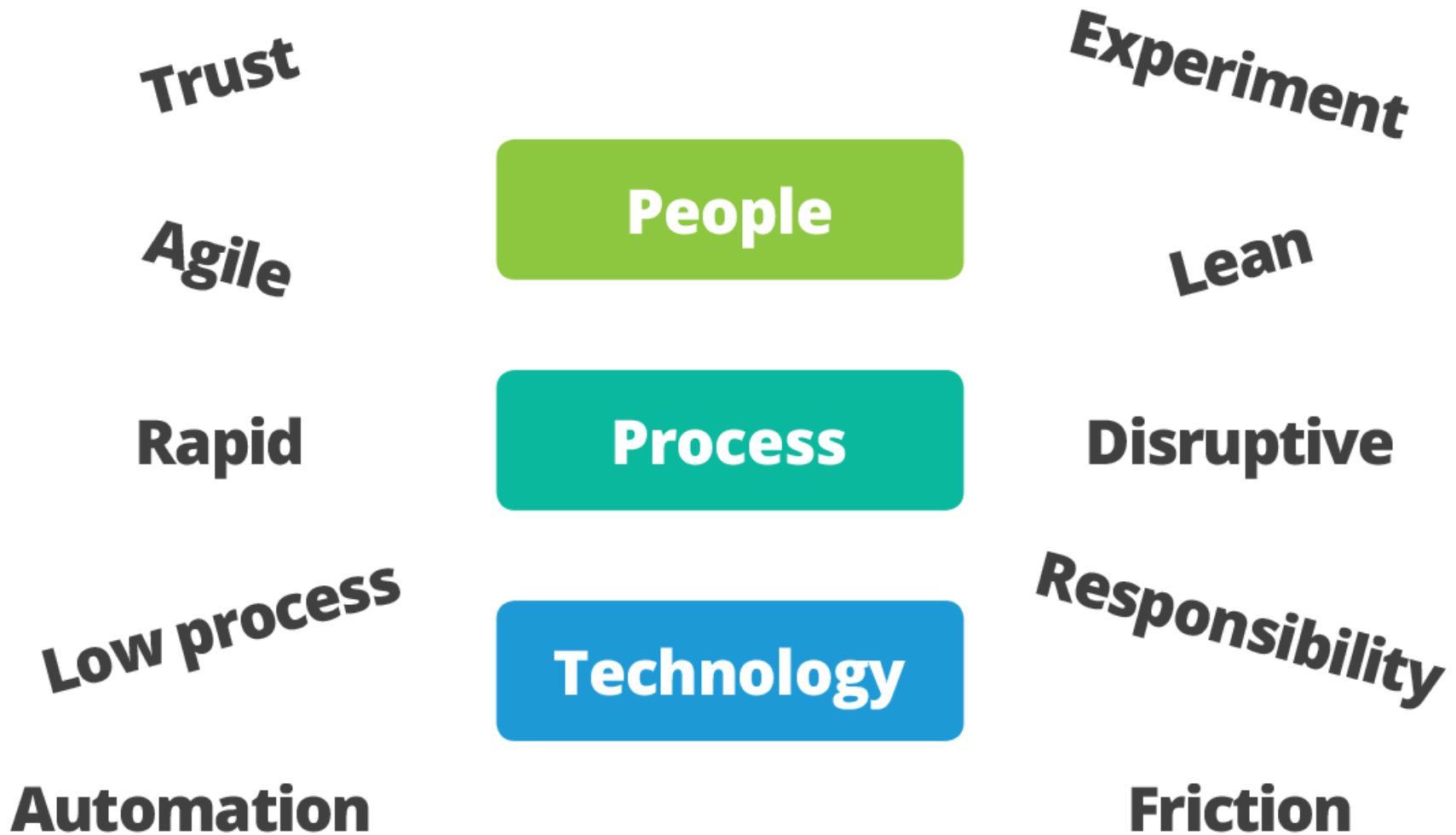
Innovation  
drives need for  
continuous IT  
**optimisation**



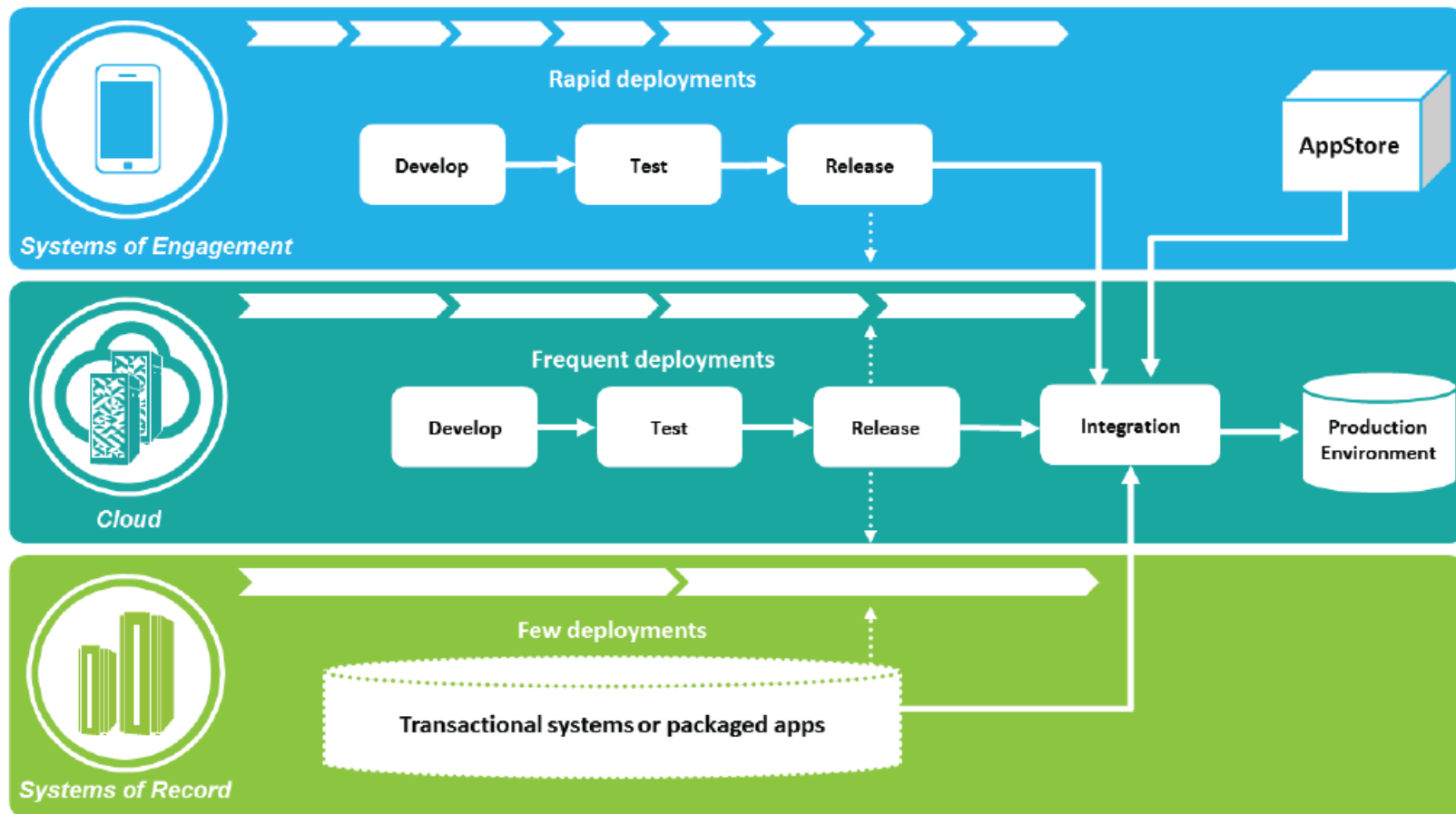
New economics  
of IT fuels  
investments in  
**innovation**

*"Don't be afraid to make mistakes, just be afraid of not learning from them."*  
Thomas Edison

# DevOps is a Journey... not a destination



# Increased cycles of innovation need to include existing processes, people and systems



# How to get started: DevOps adoption framework

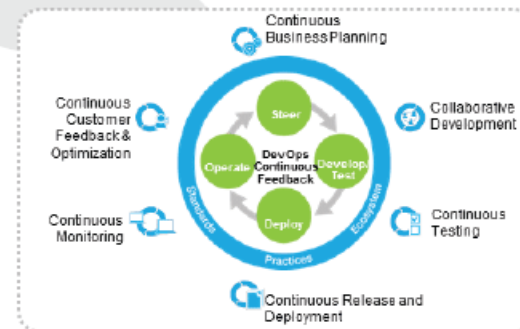
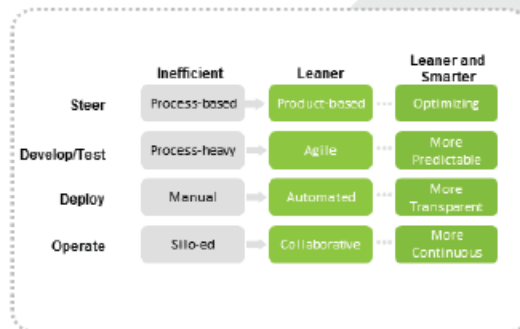
## Adoption Model

Self-assessments  
Adoption paths  
Adoption services

## Solutions

Practices  
Tooling  
Services

Where and How to Get Lean



Expertise and Technologies

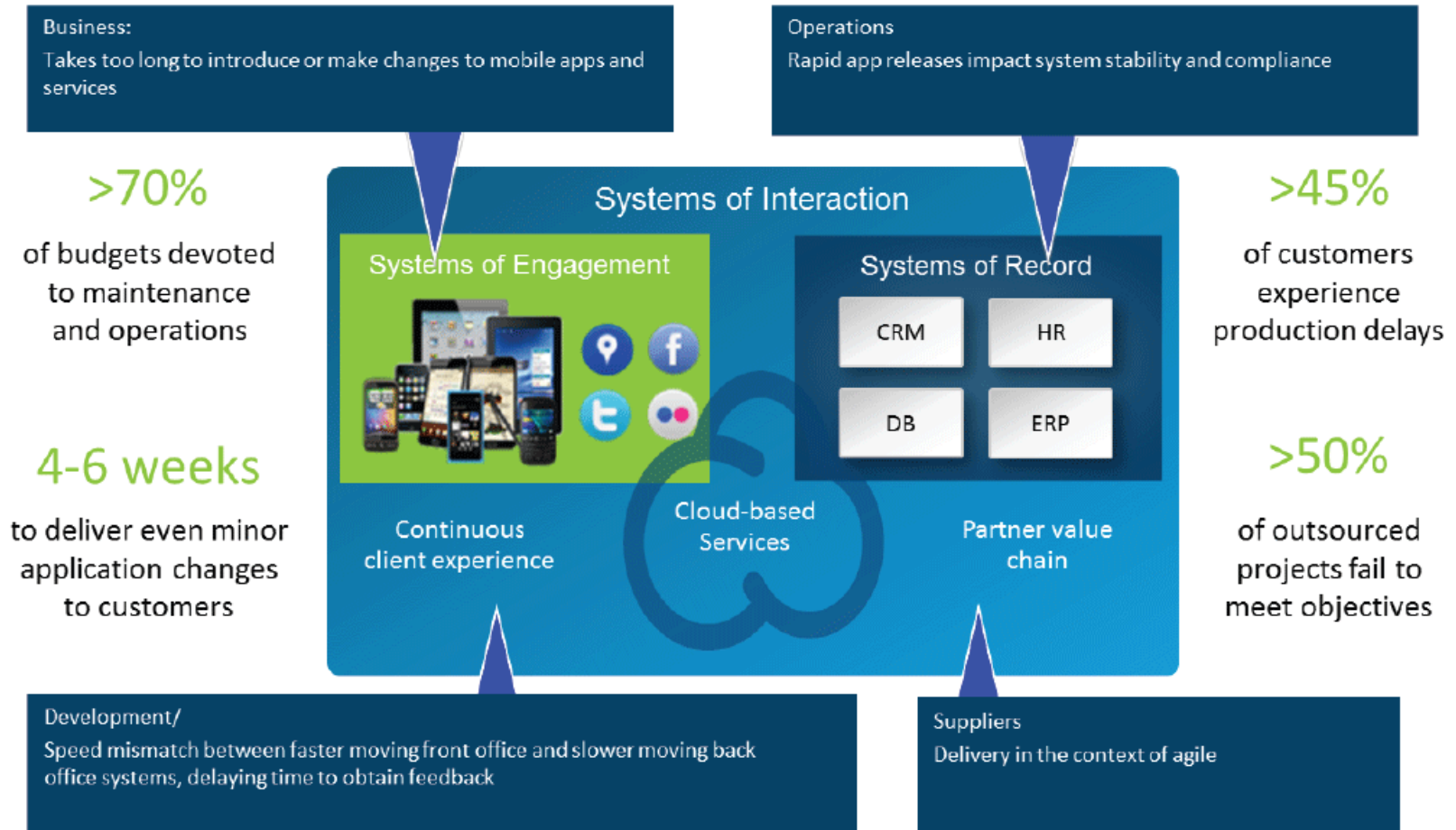
Community Stories Enablement Feedback



Knowledge sharing

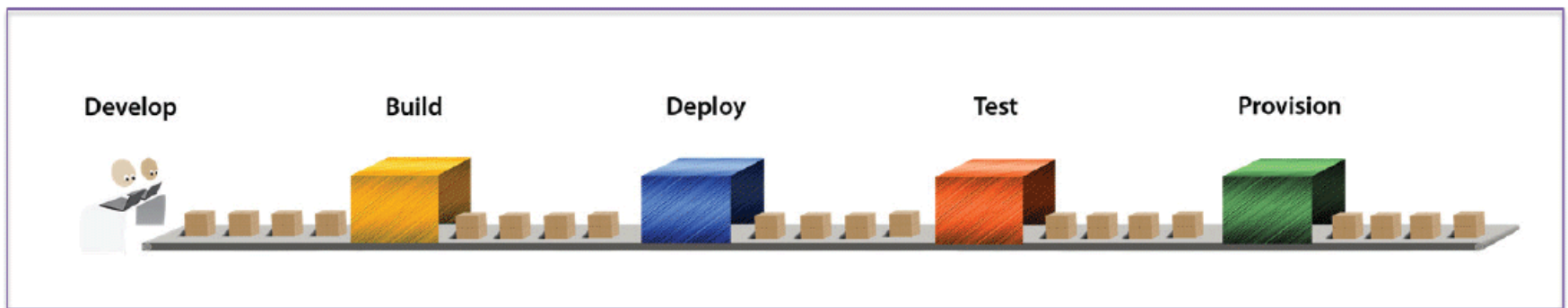
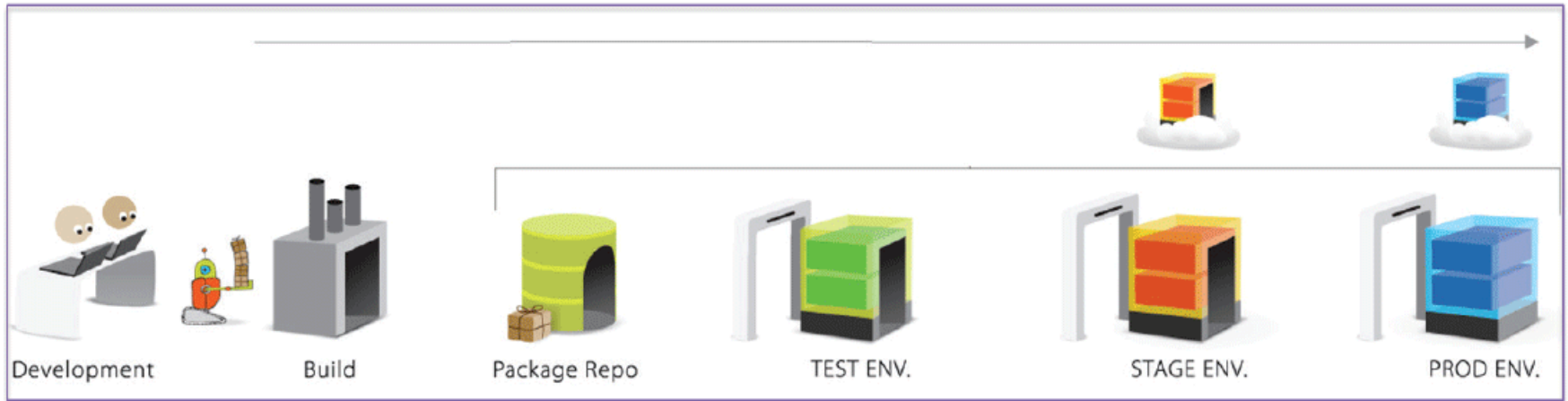


# Inefficient software delivery impacts the entire business



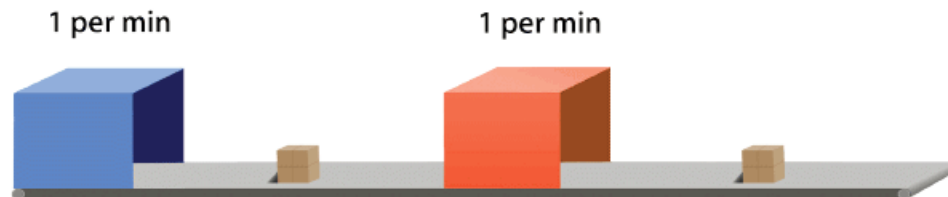


# DevOps pipeline is an assembly line



# Balancing the assembly line

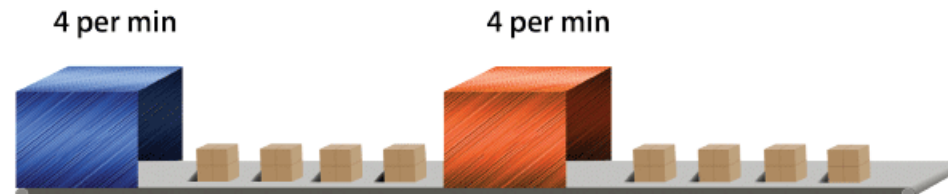
Equal process throughput avoids backlogs



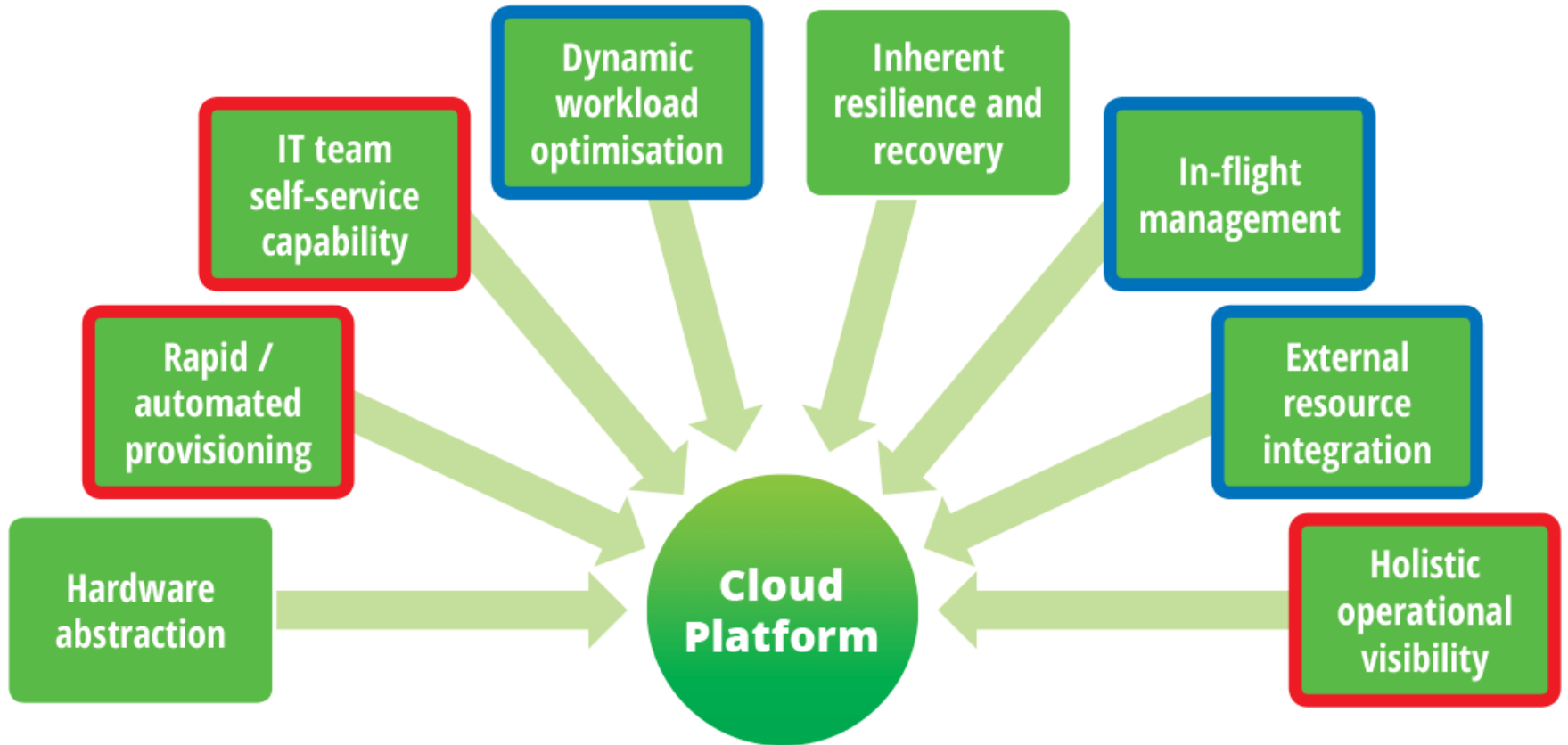
Upgrading a preceding process causes downstream backlogs



Upgrading downstream process throughput re-establishes balance

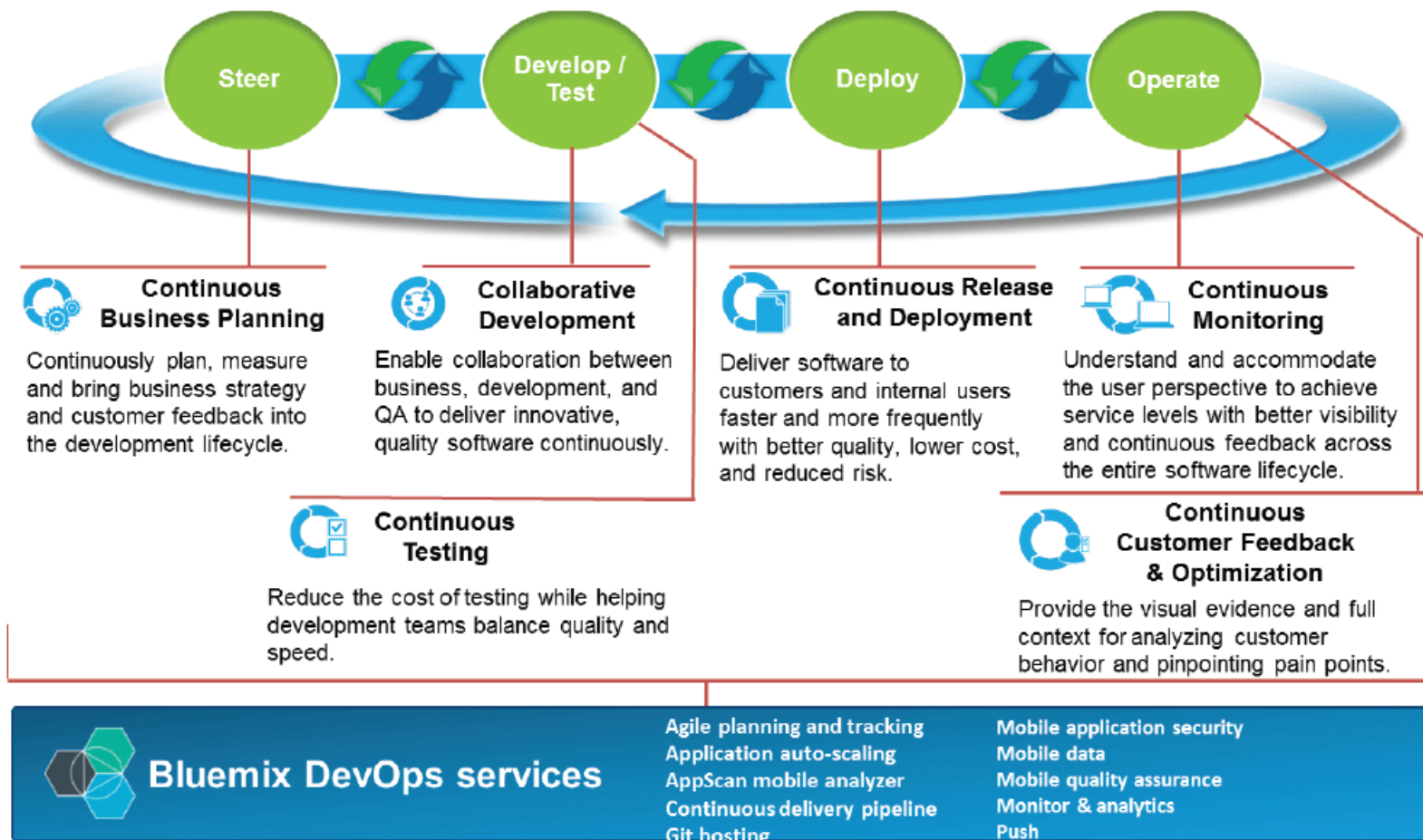


# Prerequisites for DevOps

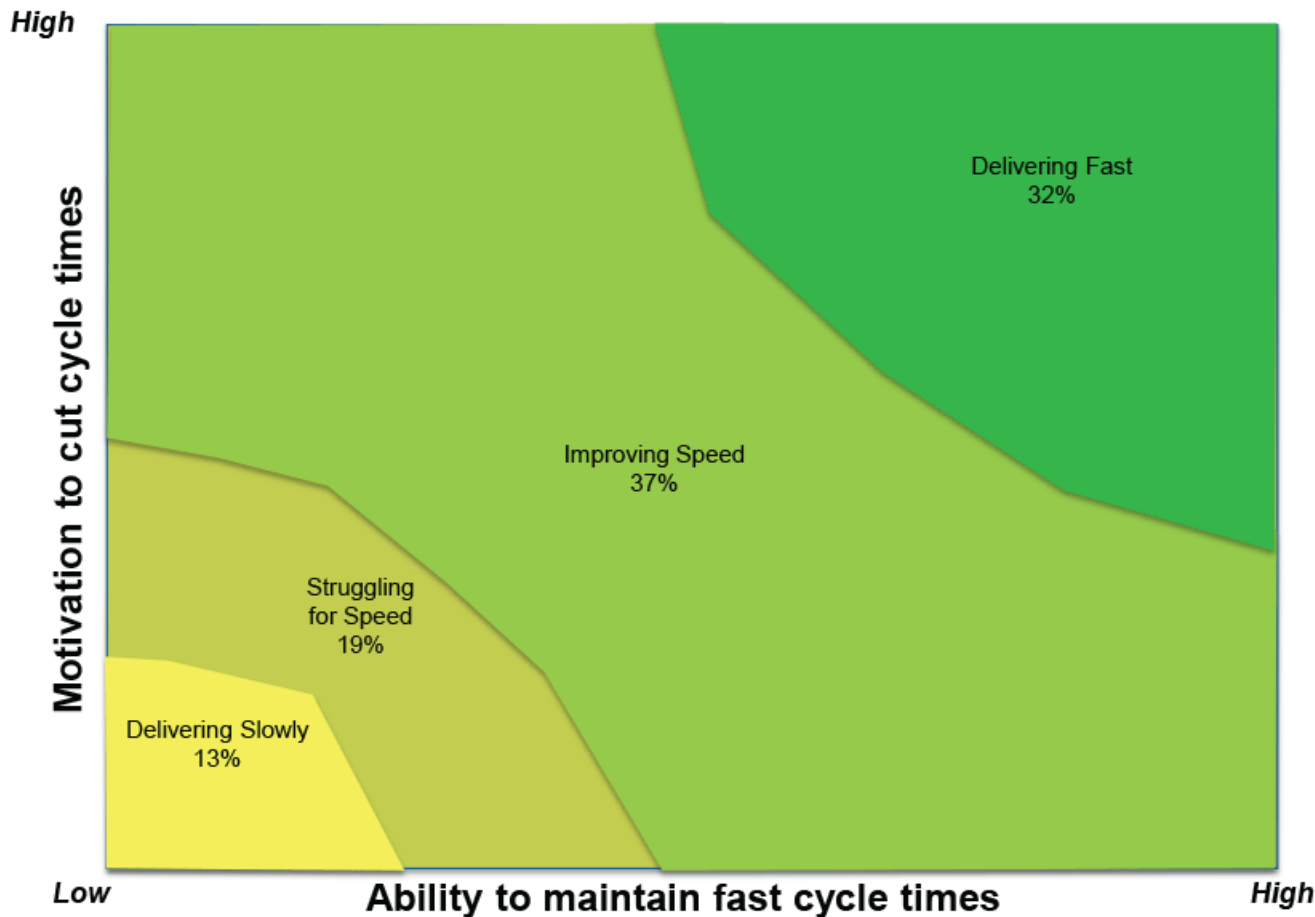


# IBM DevOps

Addresses bottlenecks and waste across the delivery lifecycle



# One in three companies delivering with speed with quality



Base: 600 IT professionals with application development responsibilities from US, Canada, UK, France, and Germany

Source: A commissioned study conducted by Forrester Consulting on behalf of IBM, May 2014

# DevOps delivers value across the software delivery lifecycle

## Tangerine

**Reduced** end-to-end development time **from 6 weeks to 2 weeks**; **accelerated** standing up an operational hardware and software stack to **just 30 minutes**.  
– *Tangerine*

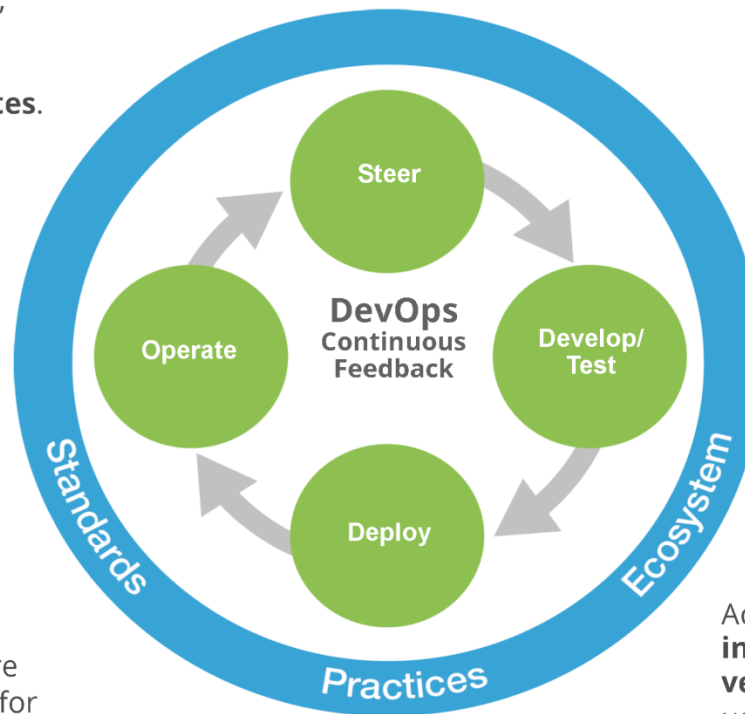


Increased new product releases from **30-40 per year to more than 400**.  
– *cars.com*



Reduced the time required for software releases **by 99%**; achieved cost avoidance of more than **USD2.3 million per year** (for a single app). – *Fidelity Investments*

**Reduced delivery cycles** from nine weeks to three weeks. -- *IBM Watson team*



Shortened development time for products **from months to days**; gained 1.2 million new customers in just one year. – *RCBC*



**80% reduction in critical defects** over the last three years; **90% on-time delivery** vs. 60% previously. – *Nationwide Insurance*



**40% reduction** in overall testing costs; **80% productivity improvement**. – *Large Government Agency*

Achieved a **1600% increase in delivery velocity**, in 7 months, using a DevOps approach. – *TIAA Cref*



# Nationwide: continuous delivery, speed to market

**80% reduction in critical defects** over the last three years

**90% on-time delivery** vs. 60% previously

**70% increase** in user's overall system availability

**82% of Agile teams** moved into top two industry quartiles (QSM) in **productivity measures**



“We’re more agile as a business and more responsive to our customers. Collaboration has become an expected part of our culture.”

**Steve Farley**

Vice President, Application Development Center, Nationwide

# Further reading

## **IBM DevOps**

<http://reg.cx/2cUh>

## **DevOps for Dummies**

<http://reg.cx/2cUj>

## **DevOps: IBM Approach: Technical Paper**

<http://reg.cx/2cUk>



# Thanks for joining us

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An archived version of today's events will be made available on The Register in the near future.

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