

Pivotal

Beyond the nonsense of digital transformation

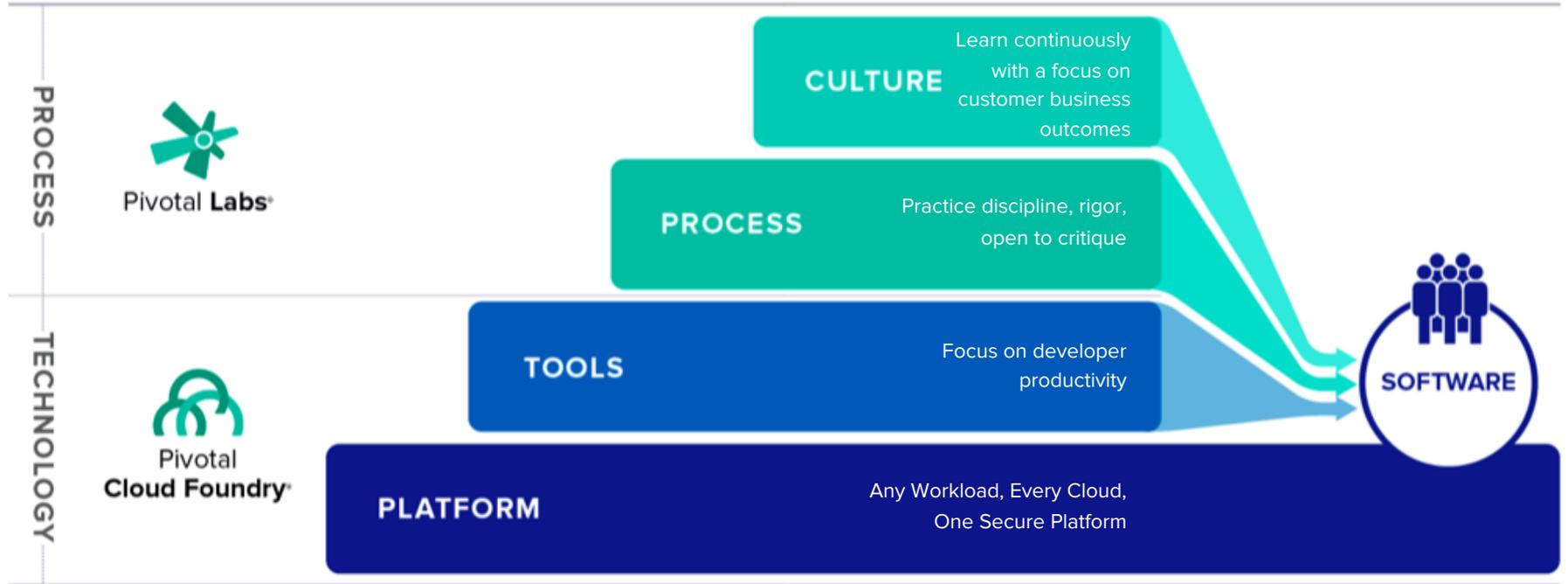
Gaining strategic advantage in the digital age

October, 2018

@cote

<http://cote.coffee/bettersoftware>

Pivotal: transforming how the world builds software



Enterprises are transforming with Pivotal

AUTO & TRANSPORTATION



INDUSTRIAL & BUSINESS SVCS.



FINANCIAL SERVICES



HEALTHCARE & INSURANCE



TECHNOLOGY & MEDIA



CONSUMER & COMMUNICATIONS



“Digital transformation” == creating better software



50% B2B customer engagement, shipped in 6 months vs. 18.



Idea to production in 2 days; fix production incidents in 2 hours.



Small teams deploying to production in minutes, not days.



Modernized app, rolled out 20 countries in 5 months



40%+ productivity/cost, rebooted member facing app.



40% policy strike rate, vs. 20% industry average.

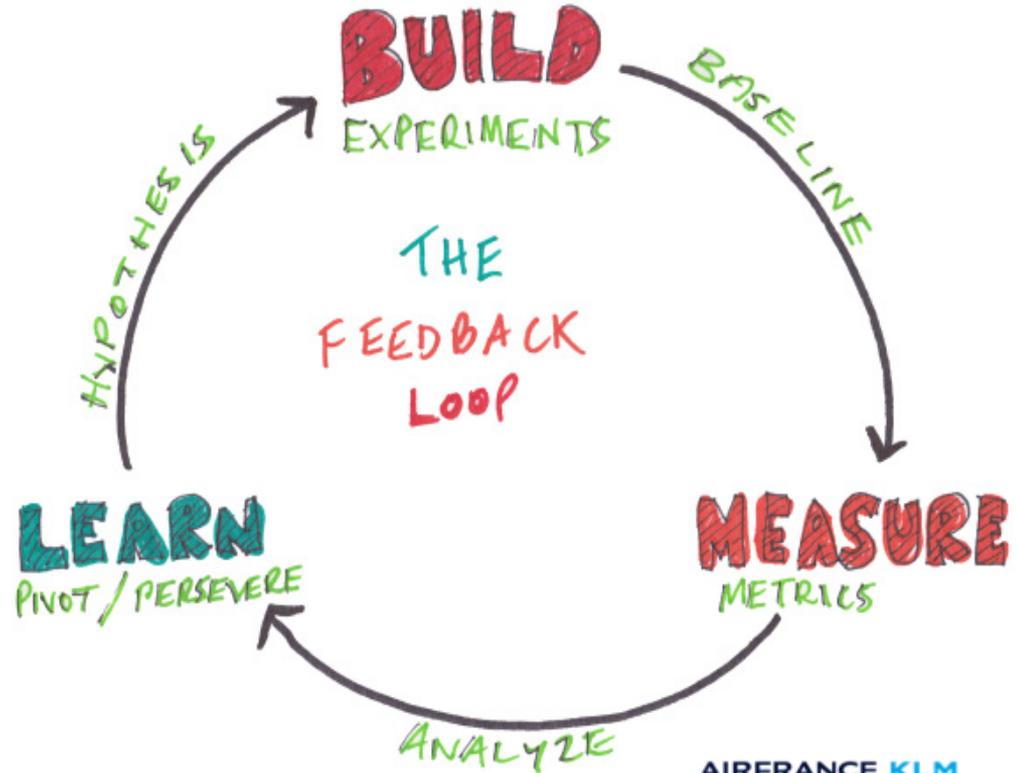
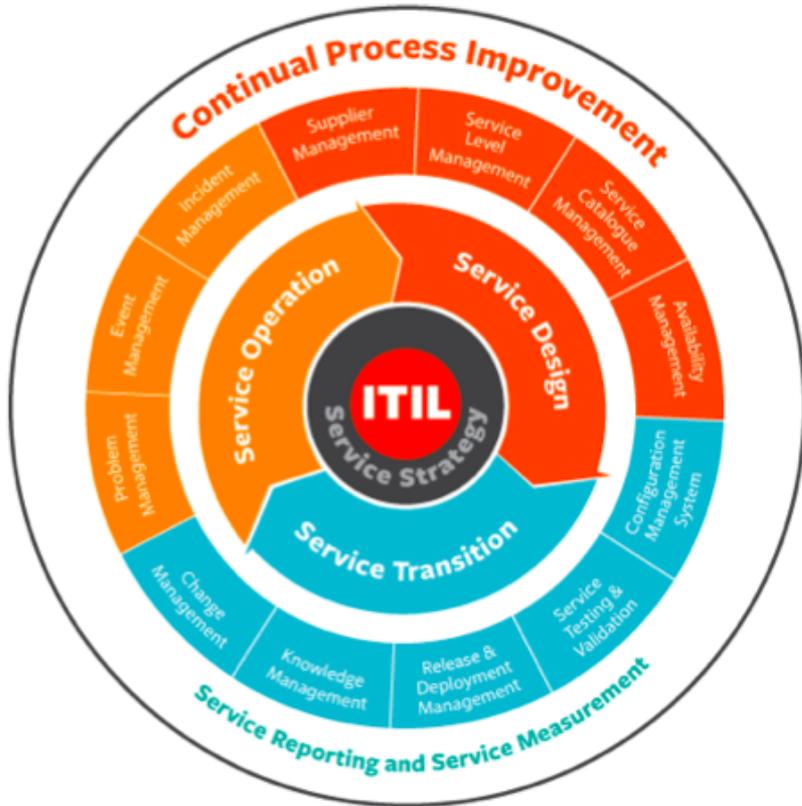
Three forces driving digital transformation

**Competitors
new & old**

**New capabilities
&
business models**

**Aging IT
&
technical debt**

Service Delivery → Product Delivery



From 37% availability to \$440m in back taxes

Before

Overview by Year		
YEAR	STATUS	AMOUNT
2014	Balance Due	\$644 >
2013	Taxes Paid	\$685 >
2012	Refund/Applied	\$100 >
2011	No Information Available	--

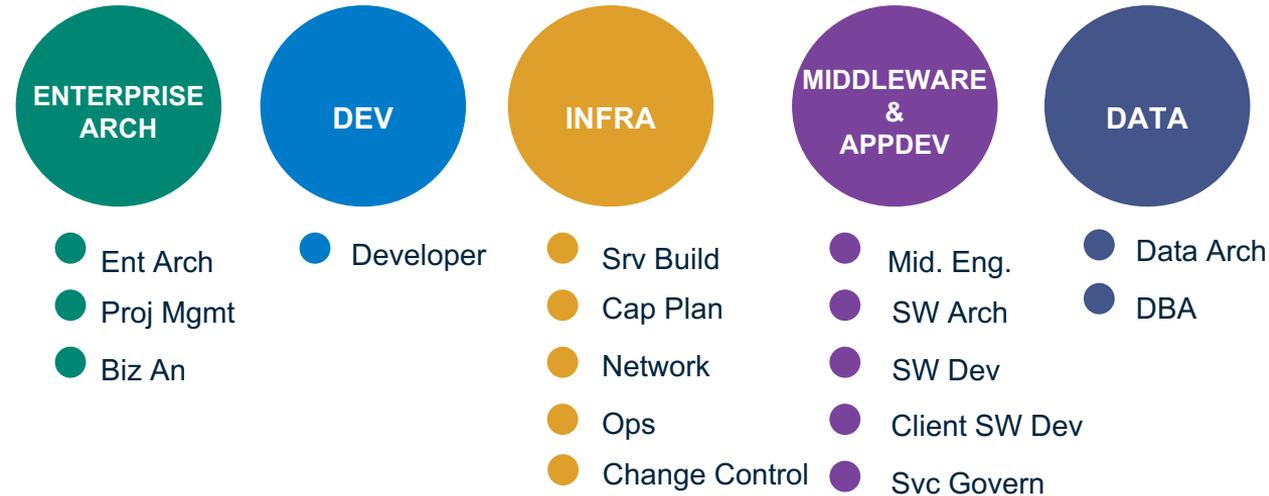
After

Overview by Year	
YEAR	BALANCE DUE
2014	\$644.00 >
2013	\$0.00
2012	\$0.00
2011	No Return on File >

- User-centric, small batch
- Only 37% of calls answered, shrinking budgets
- From 2 year to 9 week releases
- 2m+ users paid \$440m in taxes

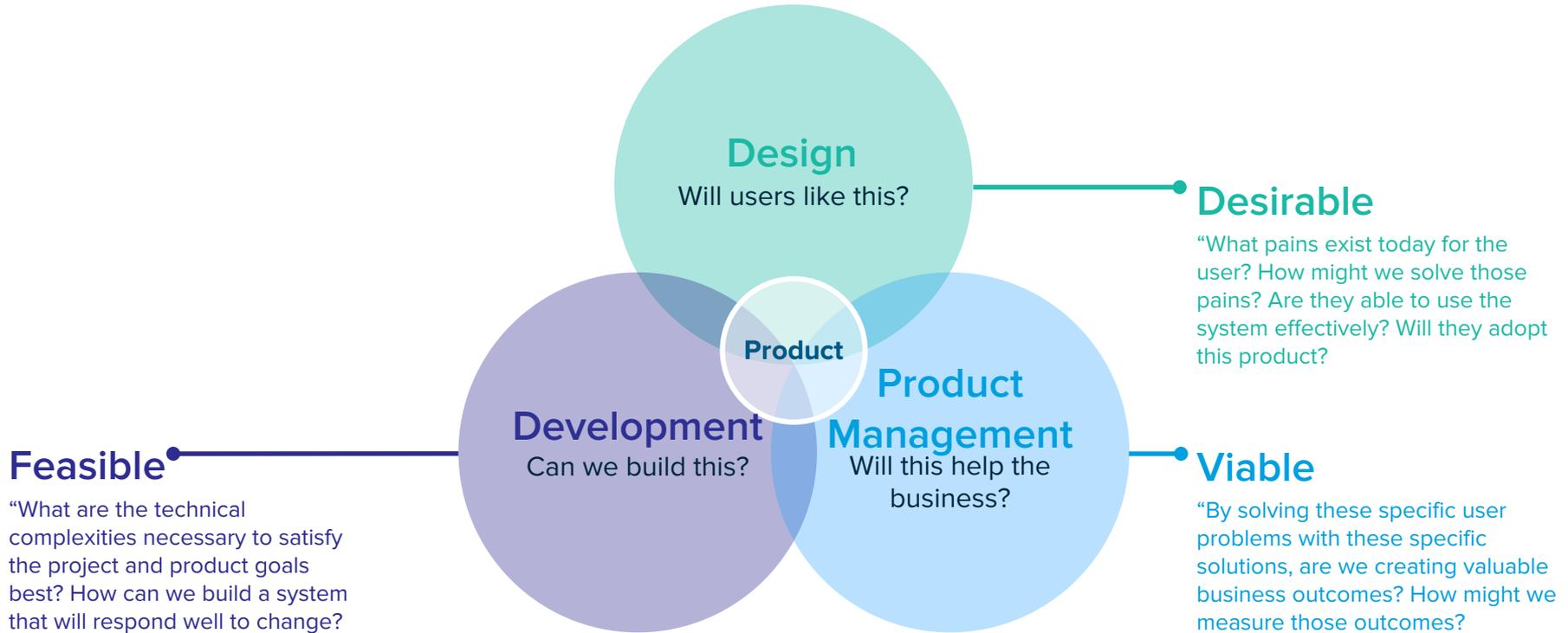


Functional organizations are a poor fit for product delivery



- Optimized for cost & repeatability
- Requires coordination overhead
- Locally optimized
- Elusive responsibility for final outcome
- Often lacks design & product management

Product centric, balanced teams



From coding 20% of the time coding to coding 90% of the time



An agile methodology, proven over 25+ years:

- Balanced teams w/all roles needed, dedicated to the product
- Paired programming, & beyond
- Test-driven Development
- Short iterations
- Continuous Integration & Continuous Delivery

Closer to a product organization...



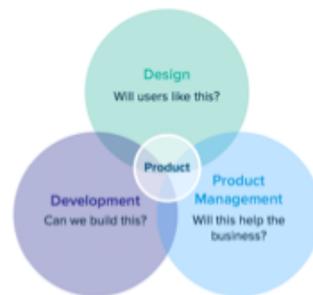
Mobile payments



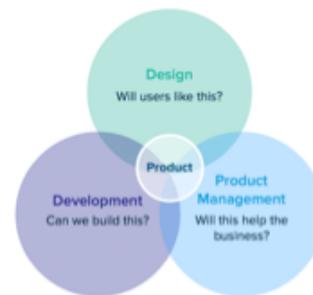
Mortgage application



Mortgage approval

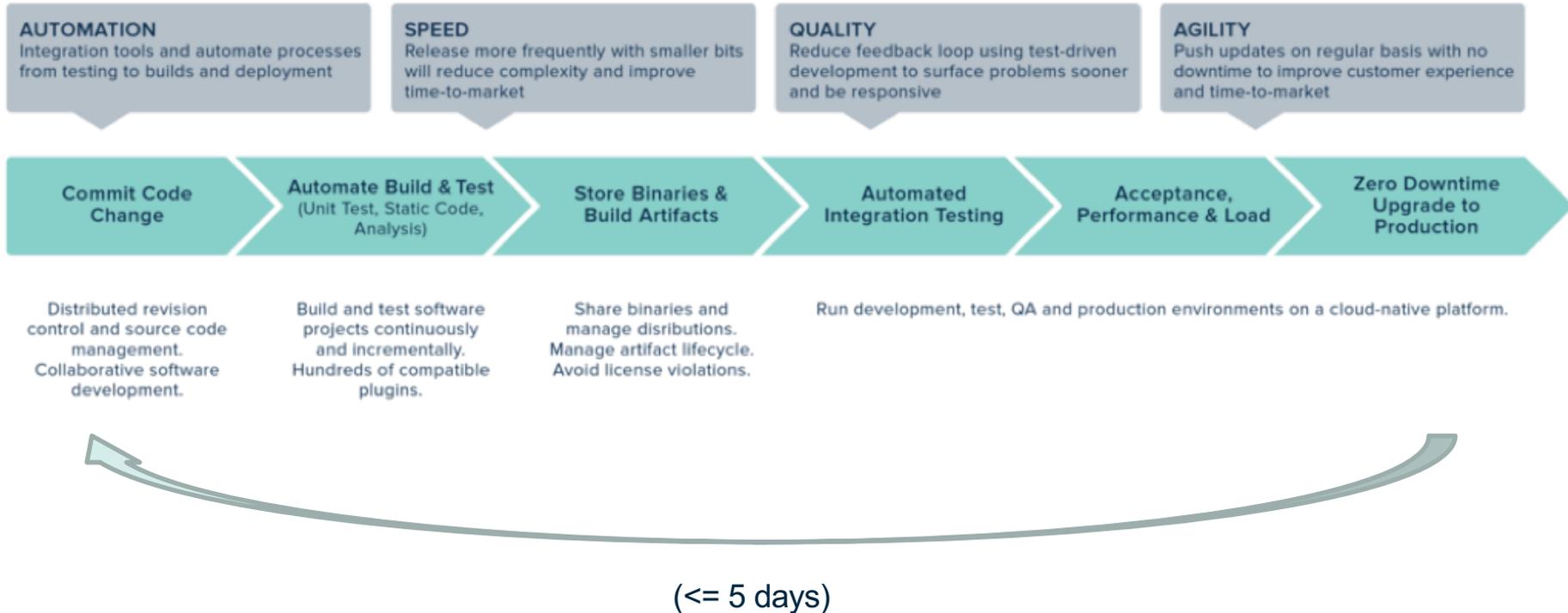


Bill pay

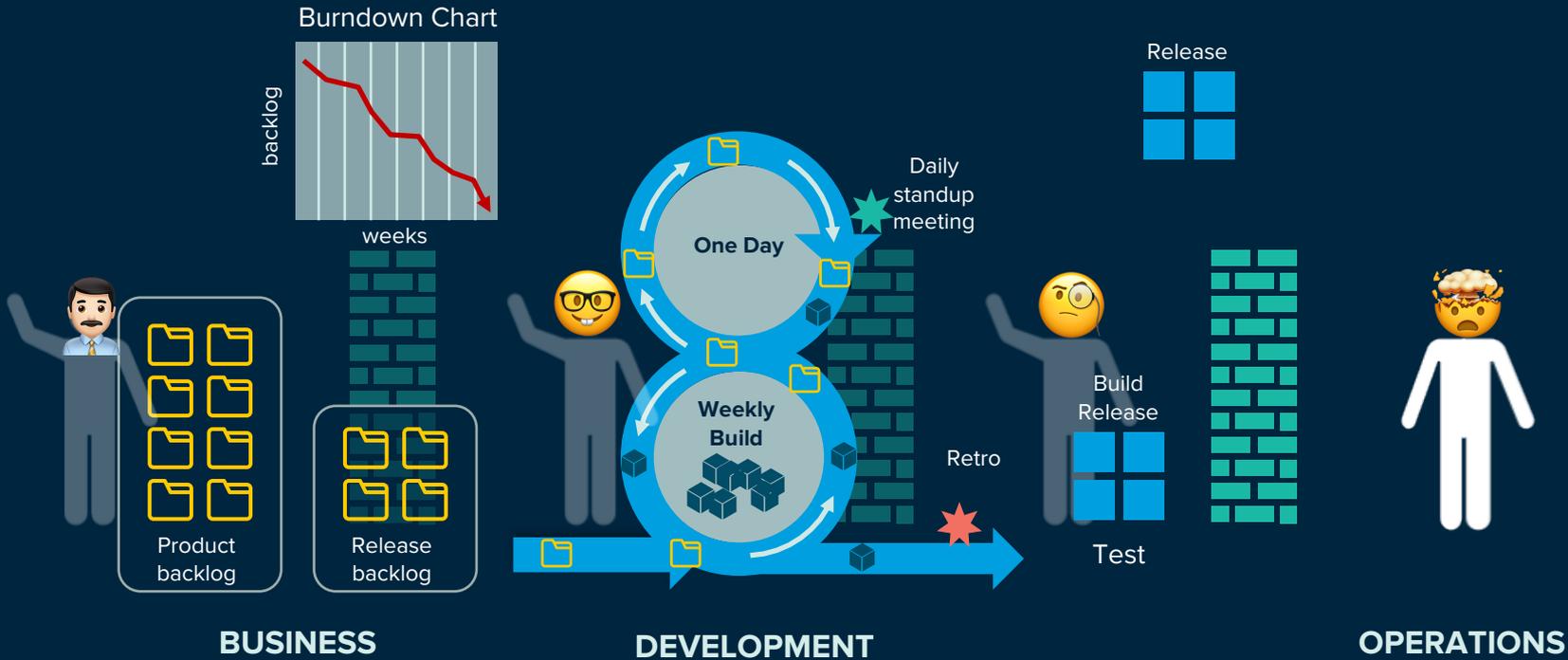


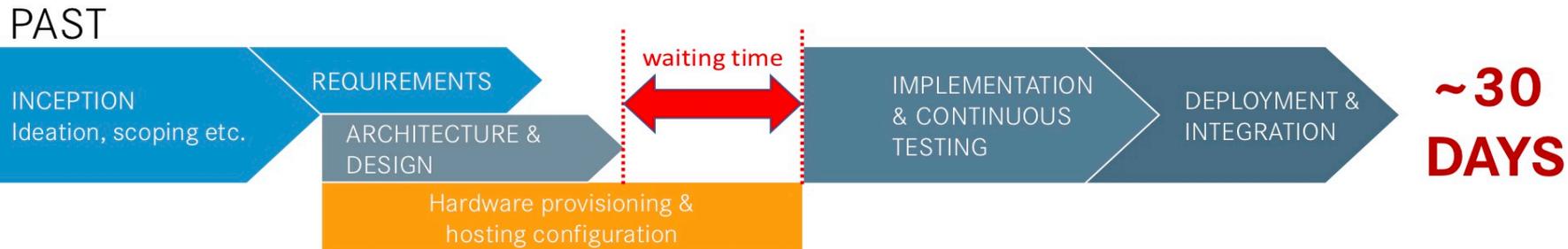
Transfers

Standardize & automate with a build pipeline

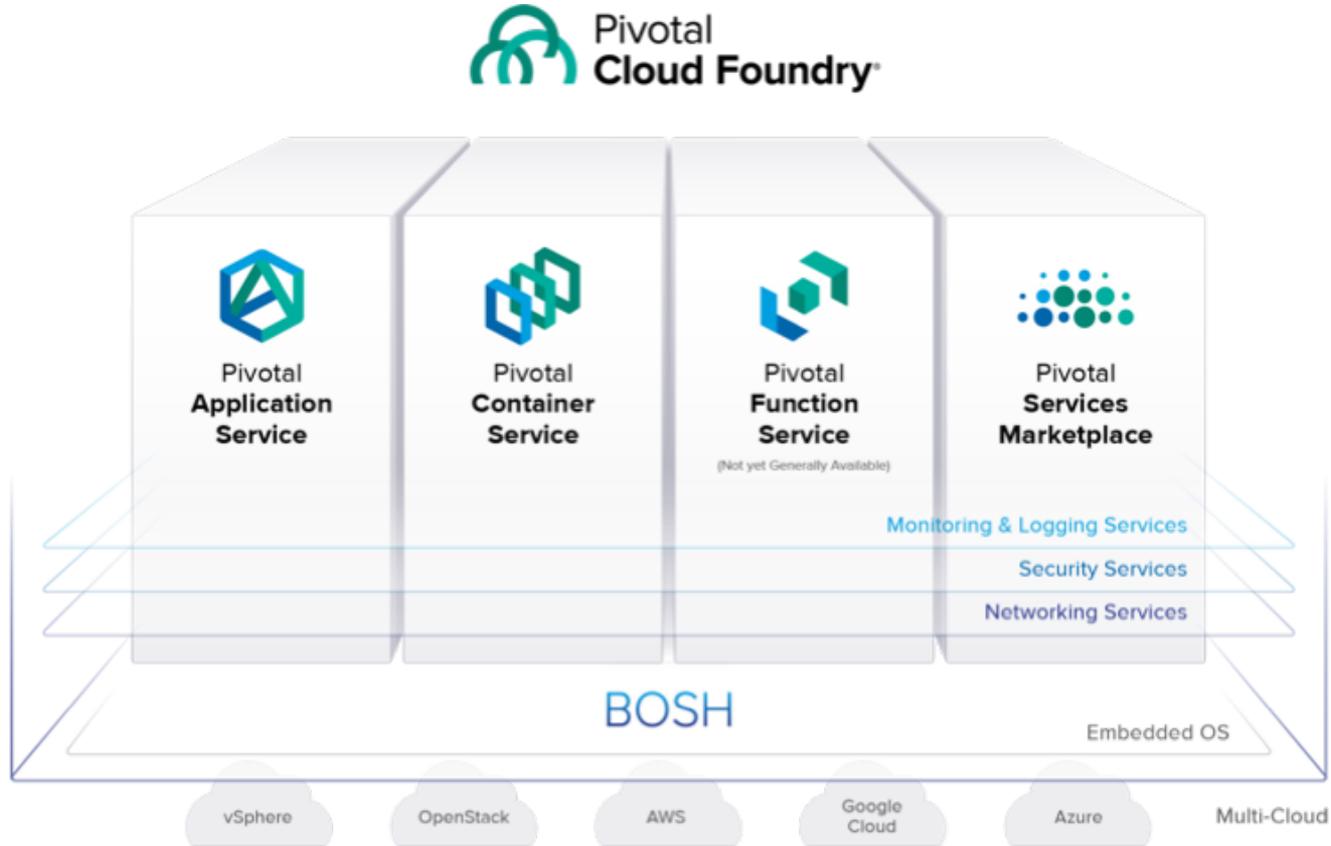


Sources: [“Speed Thrills: How to Harness the Power of CI/CD for Your Development Team.”](#) Ben Kamysz & Jared Ruckle, Pivotal, Aug 2017. CI/CD estimate based on the [“The 12th Annual State of Agile Report”](#) (2018) and [“Survey Analysis: Agile Now at the Tipping Point - Here's How to Succeed.”](#) Mike West, Gartner, June 2017, see also [estimates from 2015](#).



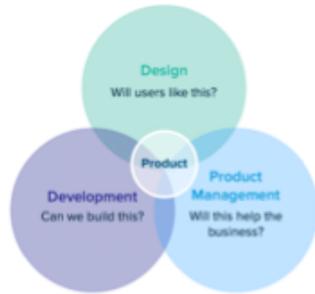


How T-Mobile went from **7 months** to update software, **to same day** deployments





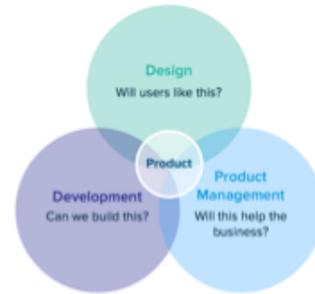
Mobile payments



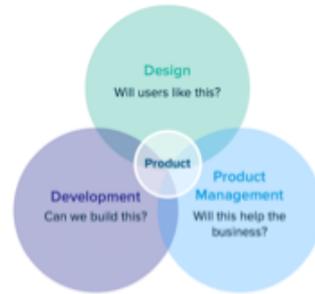
Mortgage application



Mortgage approval



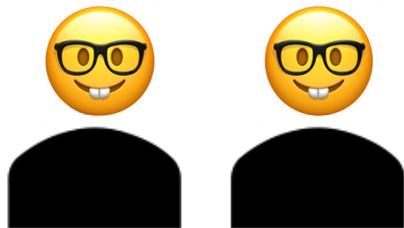
Bill pay



Transfers

Platform Engineers

Platform as a product (aka SRE)



Platform Engineers

Functions

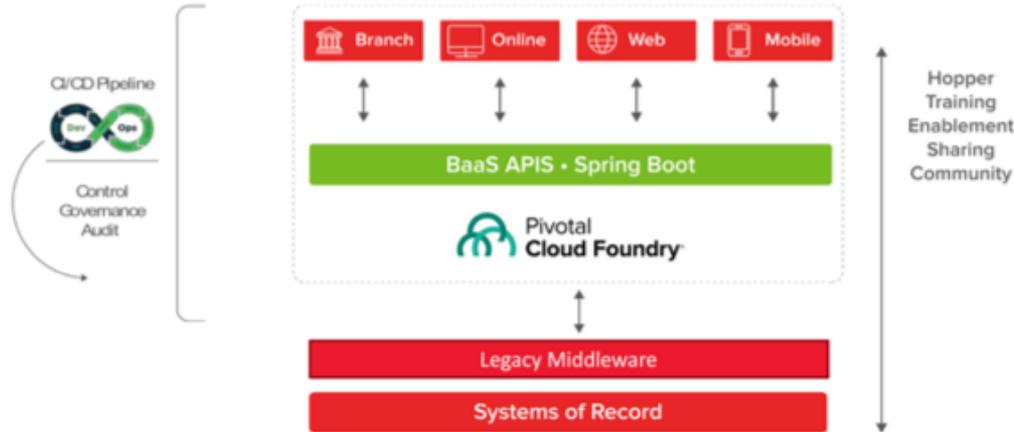
- Removes toil with automation & programming
- Stands up & manages the platform
- Creates shared services/middleware/etc.
- Consults with initial projects

Staffing

- T-Mobile USA: 8 ops to 300 developers, 11k containers
- Dick's Sporting Goods: 6 ops to 120 devs.

Building a Banking as a Service platform at Scotiabank

The Cloud Developer Platform



- “At the center of that platform is Pivotal Cloud Platform”
- 29 teams, with 21 in production
- Used in 4 countries
- 3,000+ deploys a month



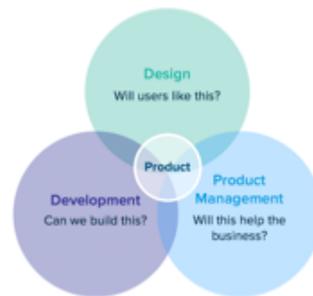
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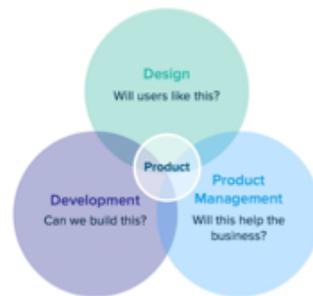
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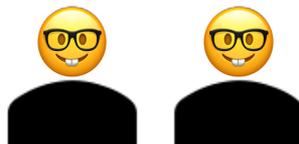
Mortgage approval



Bill pay



Transfers



Platform Engineers

~~OPPRESS~~
~~ANARCHY~~

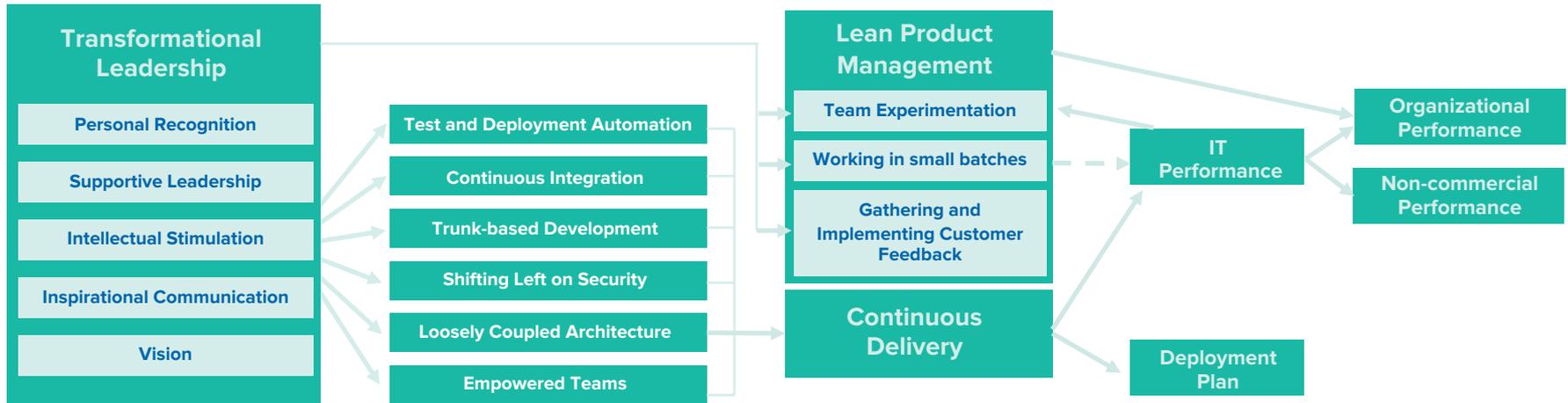
DON'T Tell Me
What To Do!!

“

The promise we made to our developers is that life will get simpler.”

Vincent Oostindië, Rabobank

Building trust with leadership



Small batch management

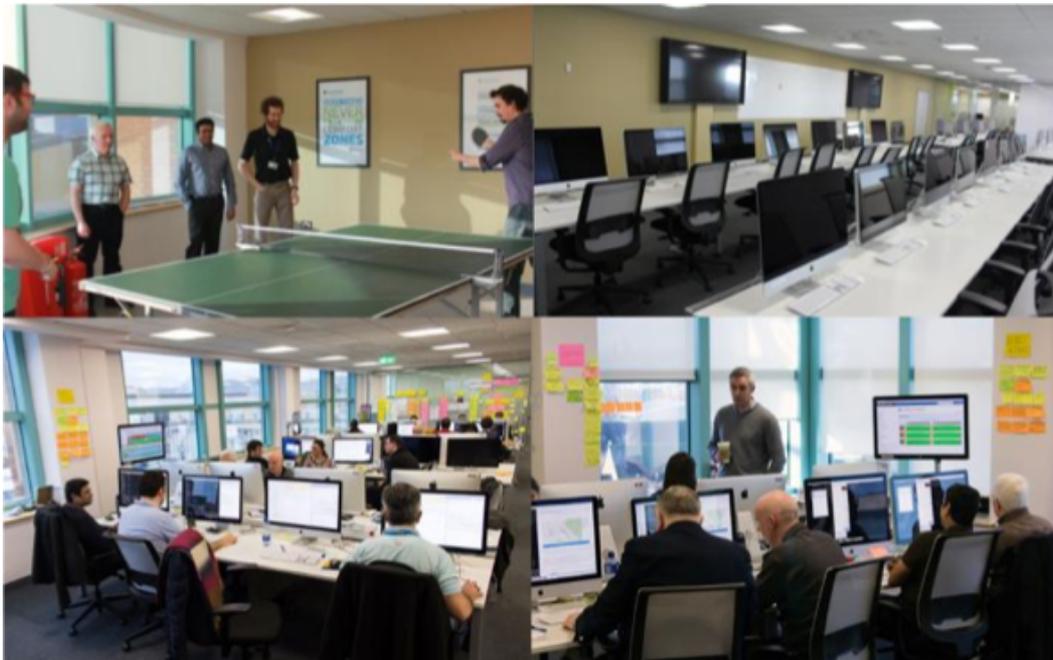
- Driving & explaining strategy
- Creating & championing teams
- Nurturing an innovation culture
- Transform the org. chart
- Facilities & policy changes
- Align HR & finance
- Manage scaling change
- Fight Eeyores & corporate backstabbers

“Executive sponsorship for us was absolutely critical. Without that we could not have gotten anywhere that we needed to be.”


(USA)



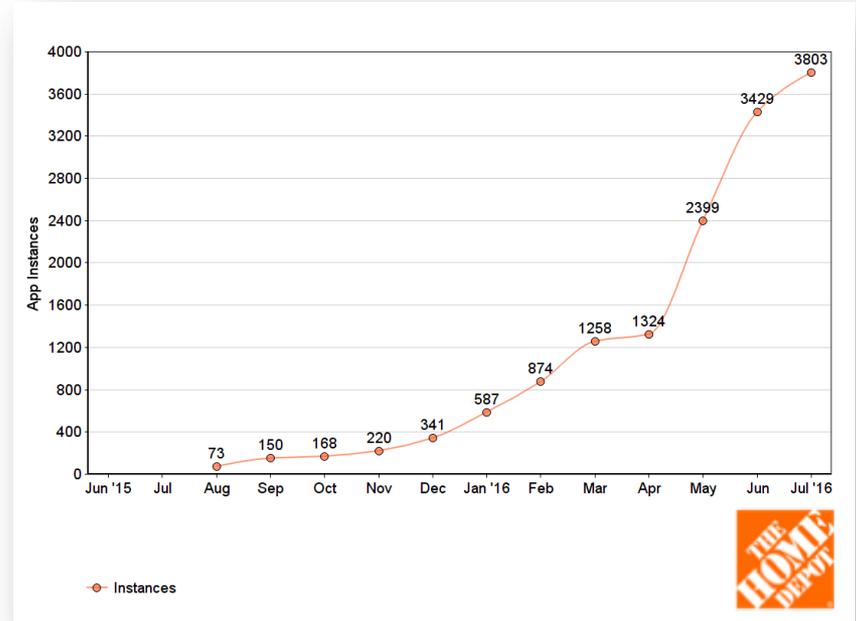
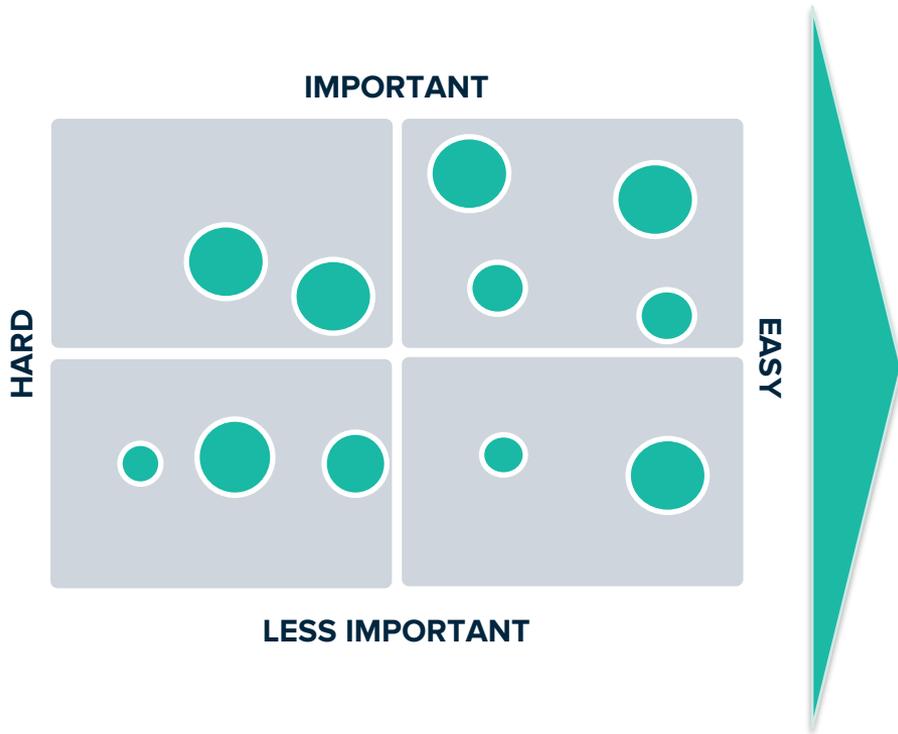
Changing is often too hard, so create a new organization



- **CompoZed Labs now handles 40% of Allstate's software development**
- **Road-side assistance app delivered in 6 months**
 - **25k rescues/month**
 - **30 minute wait to 15**
 - **+\$10m, +\$100m planned**

Sources: [Andy Zitney](#); "[Don't Forget People and Process in Your Digital Transformation.](#)" Allstate case study, March, 2017; "[How Insurance Giant Allstate Is Using Cloud Tech to Build New Businesses.](#)" Barb Darrow, June, 2017; "[Allstate Technology Chief Develops The Uber Of Roadside Assistance.](#)" Perer High, Oct, 2017.

Starting: “pilot low-risk apps, and ramp-up.”



Sources: [Home Depot meetup, Oct 2015](#); [Humana at CF Summit 2015](#); [“Getting started.” Coté, Oct 2016](#); [Comcast’s Christopher Tretina at SP1 2016](#); [“Cloud-Native at Home Depot, With Tony McCulley”](#); [“Bottom Up Enterprise Transformation,” Kyle Campos, CSAA Insurance, CF Summit EU, Oct 2017](#). Number of AI’s equates to ~130 apps composed on ~900 services.



Internal marketing: Everything, frequently

A new business in 6 months, doubling avg. sales rate



Liberty Mutual Insurance

#TechAtLiberty 20



