



We fear change.

Understanding why people resist using your platform

Coté - February 6thth, 2024

Build it and they don't come



“Accountability”

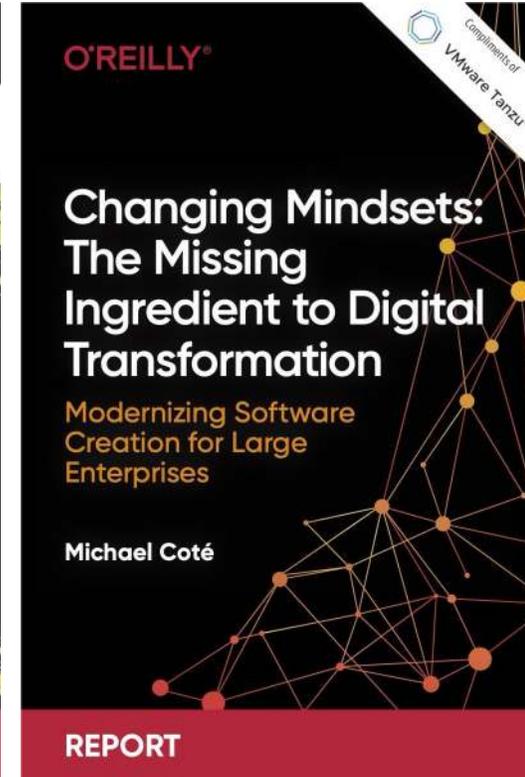
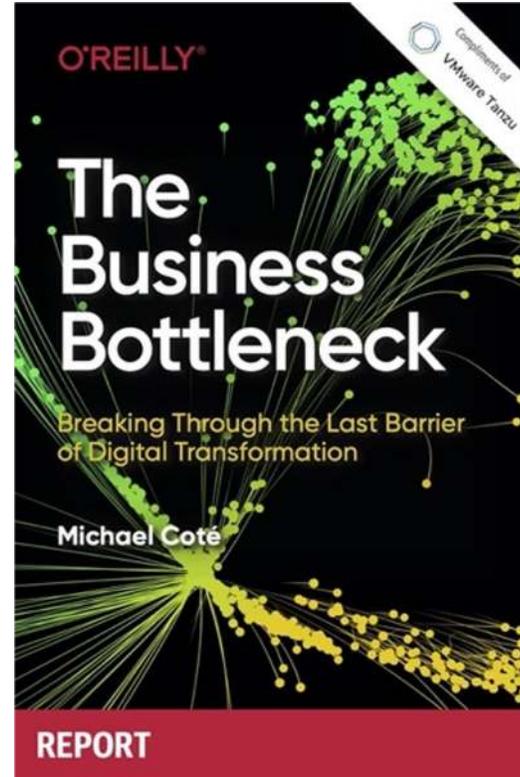
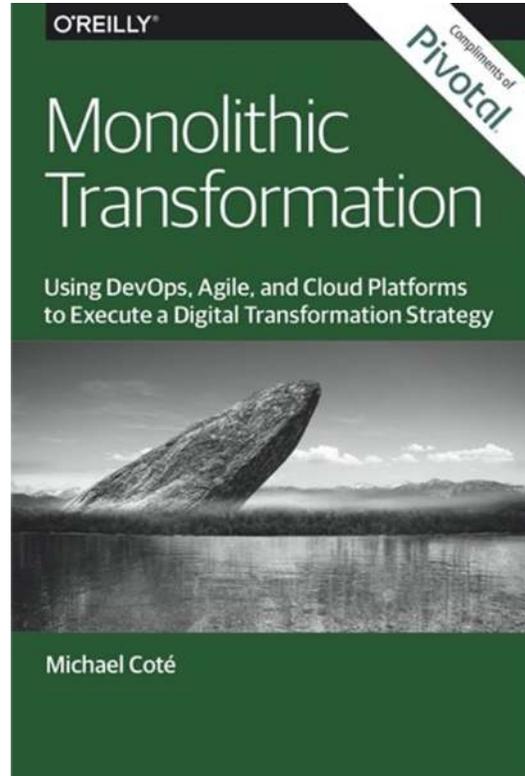
The Business Bullshit Dictionary

<https://cote.io/bigco/>



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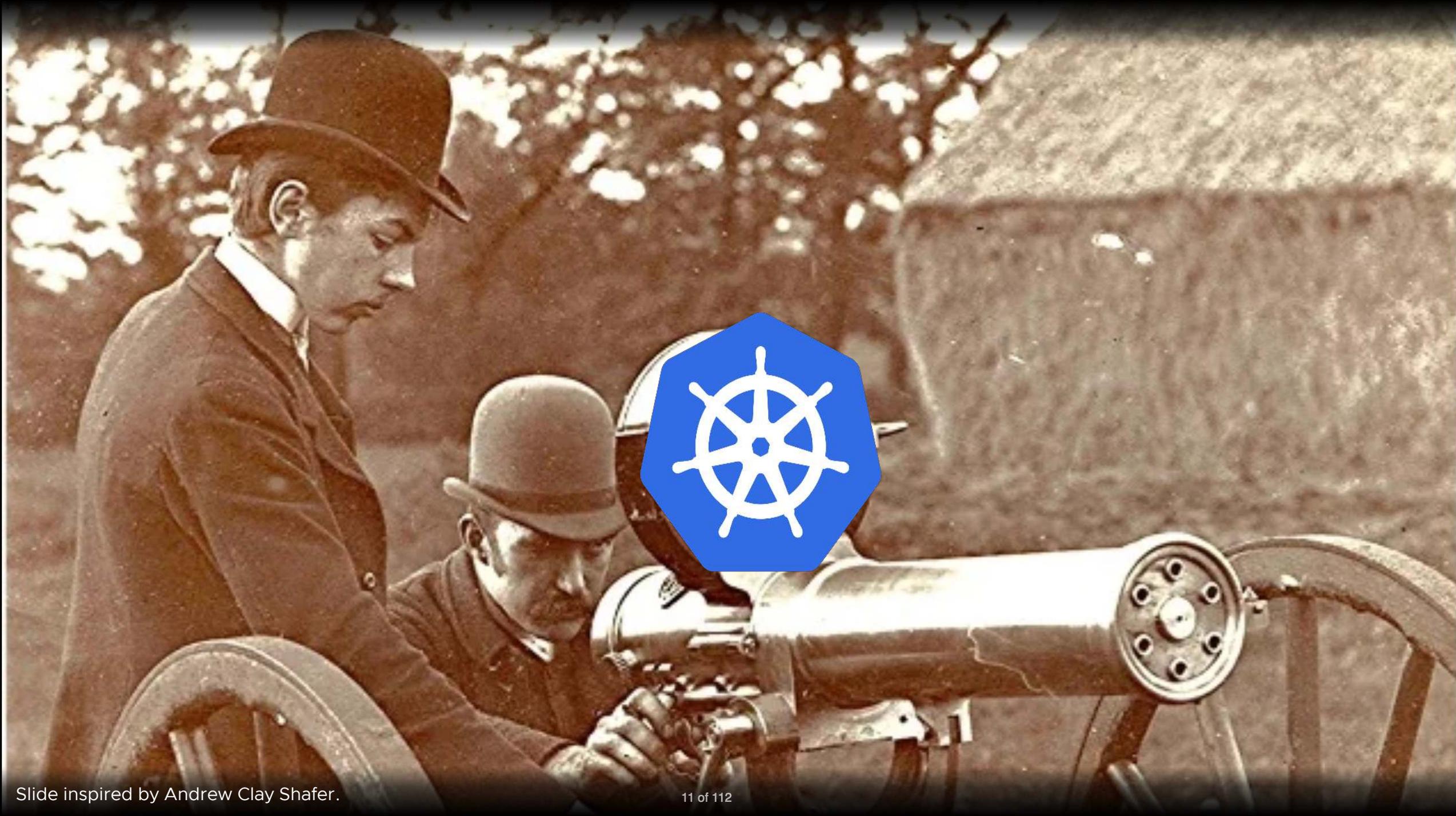
<https://newsletter.cote.io/> | cote@broadcom.com



...and,
I'm a recovering
thought-leader

Yes,

But





**Error:
No Thoughts
Found**

“Let’s take a step back.”

The Business Bullshit Dictionary

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We all know that

**Changing organizations fails 70% of
the time.**

Actually,

**We have no idea how frequently
changing organizations succeeds or
fails.**

We all know that

Technology is easy.

People are hard.

Actually,

Technology is very hard!

(People are hard too.)

My Theory

**Management needs to change,
and then people will change.**

Feedback from American Managers

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Part One: The Wonderful World of Management

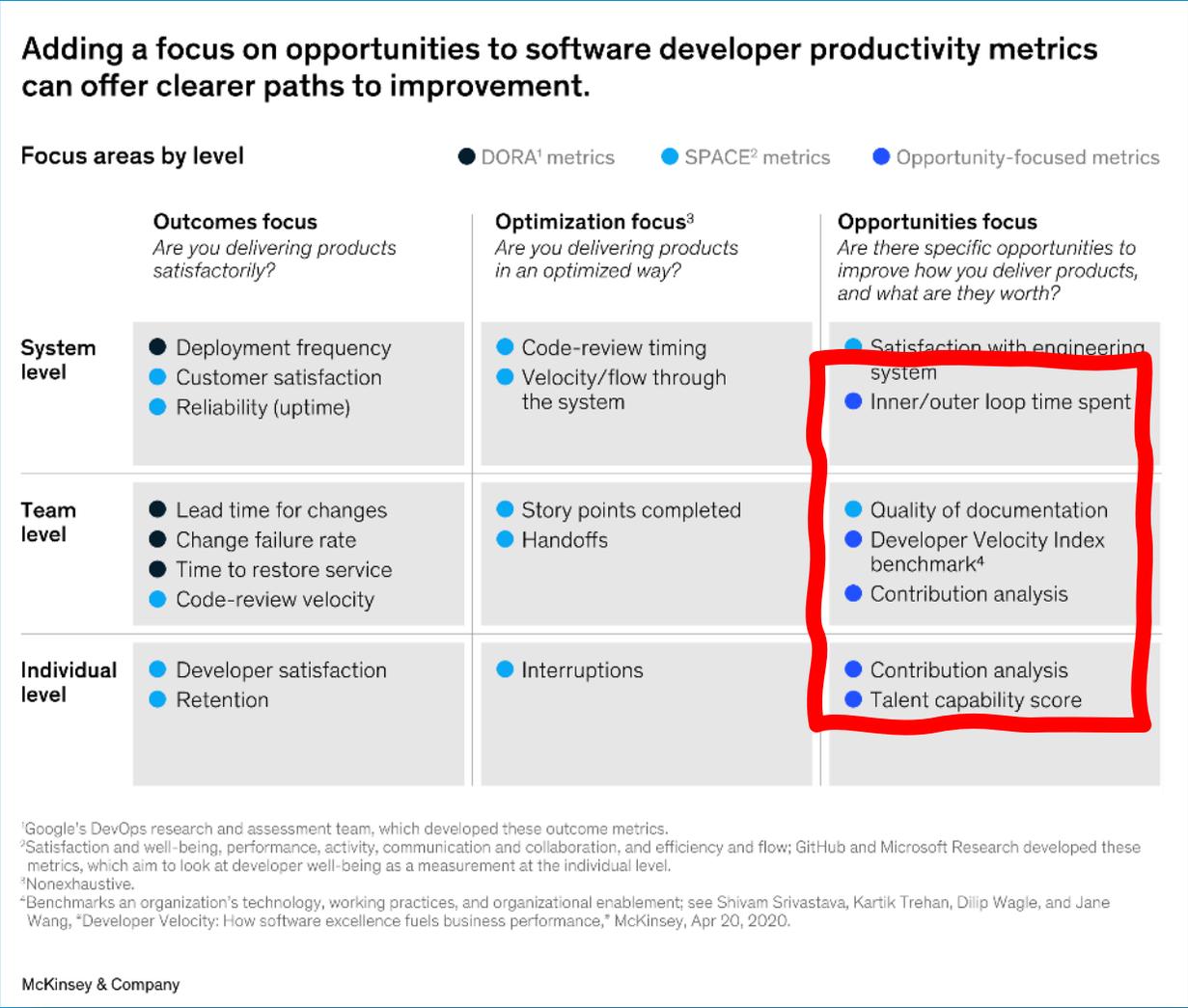


“This is a 1 ½ CIO Job.”



Sources: [“Fortune 500 C-Suite Snapshot: Profiles in Functional Leadership.”](#) SpencerStuart, 2023 (analysis done as of June 30, 2023).

Management & workers often have different incentives & motivations



Sources: "Great Attrition' or 'Great Attraction'? The choice is yours," Aaron De Smet, Bonnie Dowling, Marino Mugayar-Baldocchi, Bill Schaninger, McKinsey, Sep 2021; "Yes, you can measure software developer productivity," Chandra Gnanasambandam, Martin Harrysson, Alharith Hussin, Jason Keovichit, and Shivam Srivastava, McKinsey, August, 2023. "The SPACE of Developer Productivity," March, 2021. See also further commentary from Coté.

A thriving organization focuses on satisfaction, flow, ease, happiness

Causes of thriving	Because a developer is...
Agency	<ol style="list-style-type: none"> 1) able to voice disagreement with team definitions of success 2) has a voice in how their contributions are measured
Motivation & Self-Efficacy	<ol style="list-style-type: none"> 1) motivated when working on code at work 2) can see tangible progress most of the time 3) is working on the type of code work they want to work on 4) is confident that even when working in code is unexpectedly difficult, they will solve their problems
Learning Culture	<ol style="list-style-type: none"> 1) learning new skills as a developer 2) able to share the things they learn at work
Support & Belonging	<ol style="list-style-type: none"> 1) supported to grow, learn, and make mistakes by their team 2) agrees they are accepted for who they are by their team

TABLE 1: **EXAMPLE DEVEX METRICS**

	FEEDBACK LOOPS	COGNITIVE LOAD	FLOW STATE
PERCEPTIONS <i>Human attitudes and opinions</i>	<ul style="list-style-type: none"> • Satisfaction with automated test speed and output • Satisfaction with time it takes to validate a local change • Satisfaction with time it takes to deploy a change to production 	<ul style="list-style-type: none"> • Perceived complexity of codebase • Ease of debugging production systems • Ease of understanding documentation 	<ul style="list-style-type: none"> • Perceived ability to focus and avoid interruptions • Satisfaction with clarity of task or project goals • Perceived disruptiveness of being on-call
WORKFLOWS <i>System and process behaviors</i>	<ul style="list-style-type: none"> • Time it takes to generate CI results • Code review turnaround time • Deployment lead time [time it takes to get a change released to production] 	<ul style="list-style-type: none"> • Time it takes to get answers to technical questions • Manual steps required to deploy a change • Frequency of documentation improvements 	<ul style="list-style-type: none"> • Number of blocks of time without meetings or interruptions • Frequency of unplanned tasks or requests • Frequency of incidents requiring team attention
KPIS <i>North star metrics</i>	<ul style="list-style-type: none"> • Overall perceived ease of delivering software • Employee engagement or satisfaction • Perceived productivity 		

Management vs. workers often have different urgency & motivation to change

Exec's View	Work the Same	Transform!
Compensation	\$	\$\$\$\$
Risk	HIGH	HIGH
Outcome		

Staff's View	Work the Same	Transform!
Compensation	\$	
Risk		HIGH
Outcome		

The people who do the work (should) decide how to change the work

Leaders at the Genba



The boss made immediate changes once I put him on the line!

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FLOW SYSTEM

5 DevOpsDays DFW 2022

403

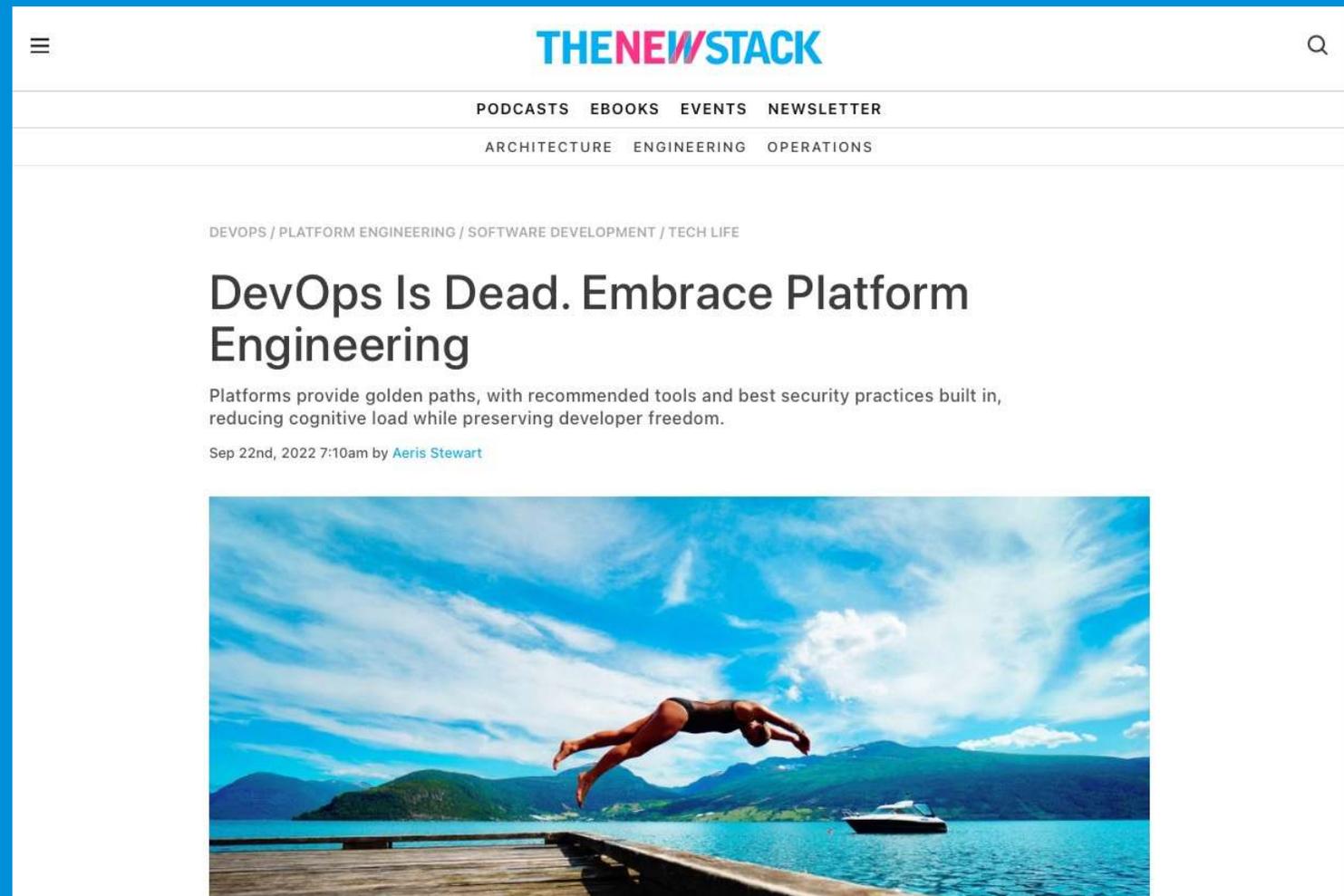
360 review

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Part Two: Platforms



The screenshot shows the top portion of a web page. At the top left is a hamburger menu icon. The logo 'THE NEW STACK' is centered at the top in a blue and red font. To the right is a search icon. Below the logo is a navigation bar with links for 'PODCASTS', 'EBOOKS', 'EVENTS', and 'NEWSLETTER'. A second navigation bar contains links for 'ARCHITECTURE', 'ENGINEERING', and 'OPERATIONS'. The main content area features a breadcrumb trail: 'DEVOPS / PLATFORM ENGINEERING / SOFTWARE DEVELOPMENT / TECH LIFE'. The article title is 'DevOps Is Dead. Embrace Platform Engineering'. Below the title is a short paragraph: 'Platforms provide golden paths, with recommended tools and best security practices built in, reducing cognitive load while preserving developer freedom.' The author information is 'Sep 22nd, 2022 7:10am by Aeris Stewart'. At the bottom of the article preview is a photograph of a person in a black swimsuit performing a backflip from a wooden pier into a lake. The background shows a blue sky with white clouds and green mountains.

THE NEW STACK

PODCASTS EBOOKS EVENTS NEWSLETTER

ARCHITECTURE ENGINEERING OPERATIONS

DEVOPS / PLATFORM ENGINEERING / SOFTWARE DEVELOPMENT / TECH LIFE

DevOps Is Dead. Embrace Platform Engineering

Platforms provide golden paths, with recommended tools and best security practices built in, reducing cognitive load while preserving developer freedom.

Sep 22nd, 2022 7:10am by [Aeris Stewart](#)

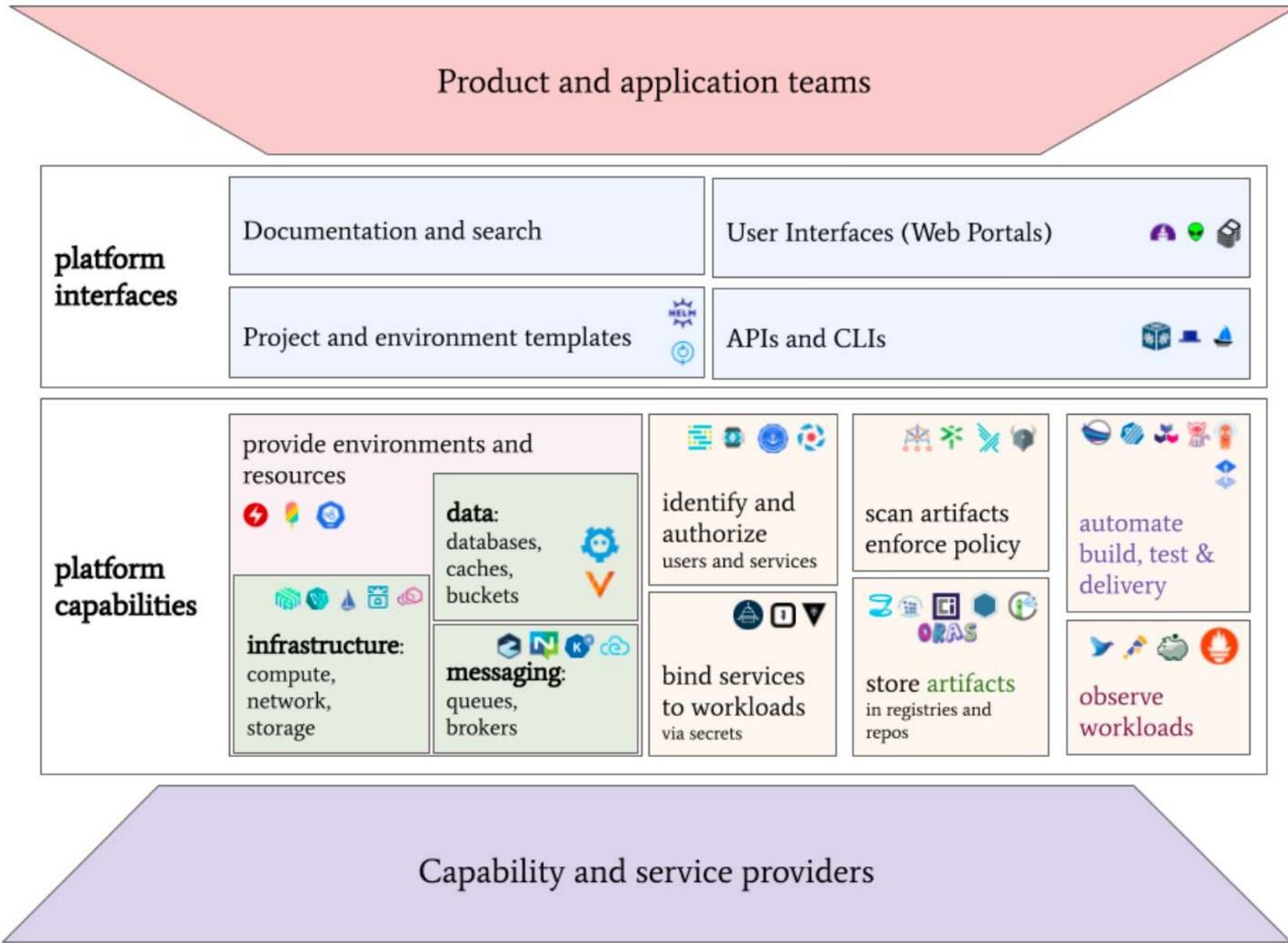


“Let’s take a step back.”

The Business Bullshit Dictionary

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Product and application teams

platform interfaces	Documentation and search	User Interfaces (Web Portals)
	Project and environment templates	APIs and CLIs

platform capabilities	provide environments and resources			
	data: databases, caches, buckets	identify and authorize users and services	scan artifacts enforce policy	automate build, test & delivery
	infrastructure: compute, network, storage		store artifacts in registries and repos	observe workloads
	messaging: queues, brokers	bind services to workloads via secrets		

Capability and service providers

	Aspect	Provisional	Operational	Scalable	Optimizing
<u>Investment</u>	<i>How are staff and funds allocated to platform capabilities?</i>	Voluntary or temporary	Dedicated team	As product	Enabled ecosystem
<u>Adoption</u>	<i>Why and how do users discover and use internal platforms and platform capabilities?</i>	Erratic	Extrinsic push	Intrinsic pull	Participatory
<u>Interfaces</u>	<i>How do users interact with and consume platform capabilities?</i>	Custom processes	Standard tooling	Self-service solutions	Integrated services
<u>Operations</u>	<i>How are platforms and their capabilities planned, prioritized, developed and maintained?</i>	By request	Centrally tracked	Centrally enabled	Managed services
<u>Measurement</u>	<i>What is the process for gathering and incorporating feedback and learning?</i>	Ad hoc	Consistent collection	Insights	Quantitative and qualitative

“We are building this platform not for us, we are building it for Mercedes-Benz developers.”

Thomas Müller, Mercedes-Benz



Find the Developer Toil, Confusion, Blockers

Find the Developer Toil, Confusion, Blockers

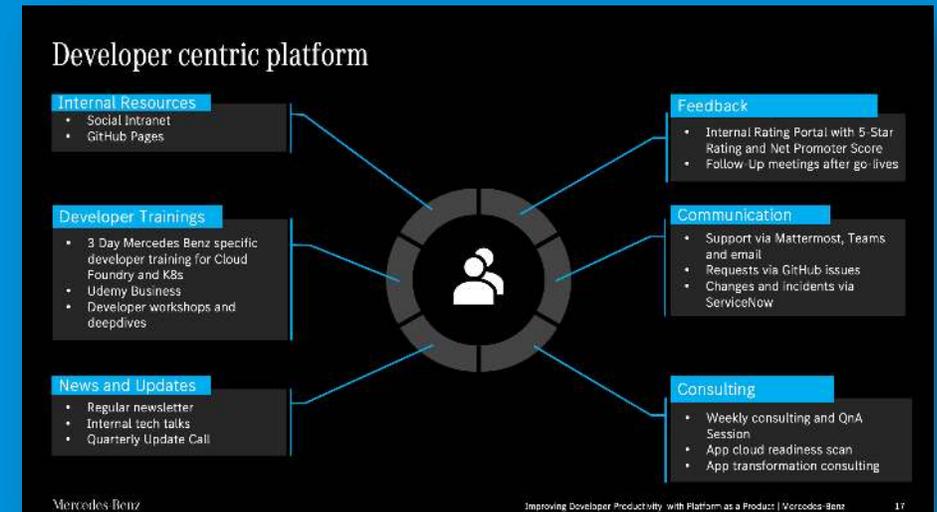
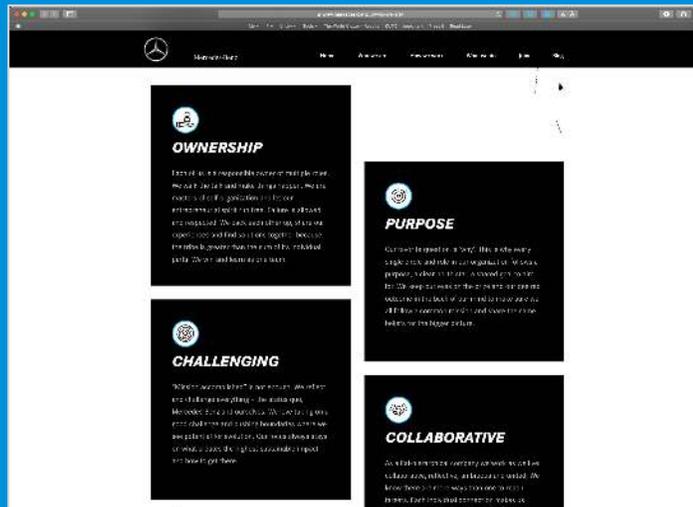
- What are we making?
- We have a strong vision for our product, and we're doing important work together every day to fulfill that vision.
- I have the context I need to confidently make changes while I'm working.
- I am proud of the work I have delivered so far for our product.
- I am learning things that I look forward to applying to future products.
- My workstation seems to disappear out from under me while I'm working.
- It's easy to get my workstation into the state I need to develop our product.
- What aspect of our workstation setup is painful?
- It's easy to run our software on my workstation while I'm developing it.
- I can boot our software up into the state I need with minimal effort.
- What aspect of running our software locally is painful? What could we do to make it less painful?
- It's easy to run our test suites and to author new ones.
- Tests are a stable, reliable, seamless part of my workflow.
- Test failures give me the feedback I need on the code I am writing.
- What aspect of production support is painful?
- We collaborate well with the teams whose software we integrate with.
- When necessary, it is within my power to request timely changes from other teams.
- I have the resources I need to test and code confidently against other teams' integration points.
- What aspect of integrating with other teams is painful?
- I'm rarely impacted by breaking changes from other tracks of work.
- We almost always catch broken tests and code before they're merged in.
- What aspect of committing changes is painful?
- Our release process (CI/CD) from source control to our story acceptance environment is fully automated.
- If the release process (CI/CD) fails, I'm confident something is truly wrong, and I know I'll be able to track down the problem.
- What aspect of our release process (CI/CD) is painful?
- Our team releases new versions of our software as often as the business needs us to.
- We are meeting our service-level agreements with a minimum of unplanned work.
- When something is wrong in production, we reproduce and solve the problem in a lower environment.

Platform marketing, advocacy, consulting

Organizational Learning



Focus on ways of working.....



“If that crusty, old .Net developer can do it, anyone can.”



Source: [“Navigating the Sea of ‘No’s,’”](#) John Osborn, GAIC, Dec 2017; [Dealing with Grumps](#), Coté, May 2018.

TECHNICAL IMPROVEMENTS

Daily deploys

+30% developer productivity

+78% operational efficiency

60% reduction in incidents

Repaving prod months->weeks->daily

BUSINESS IMPROVEMENTS

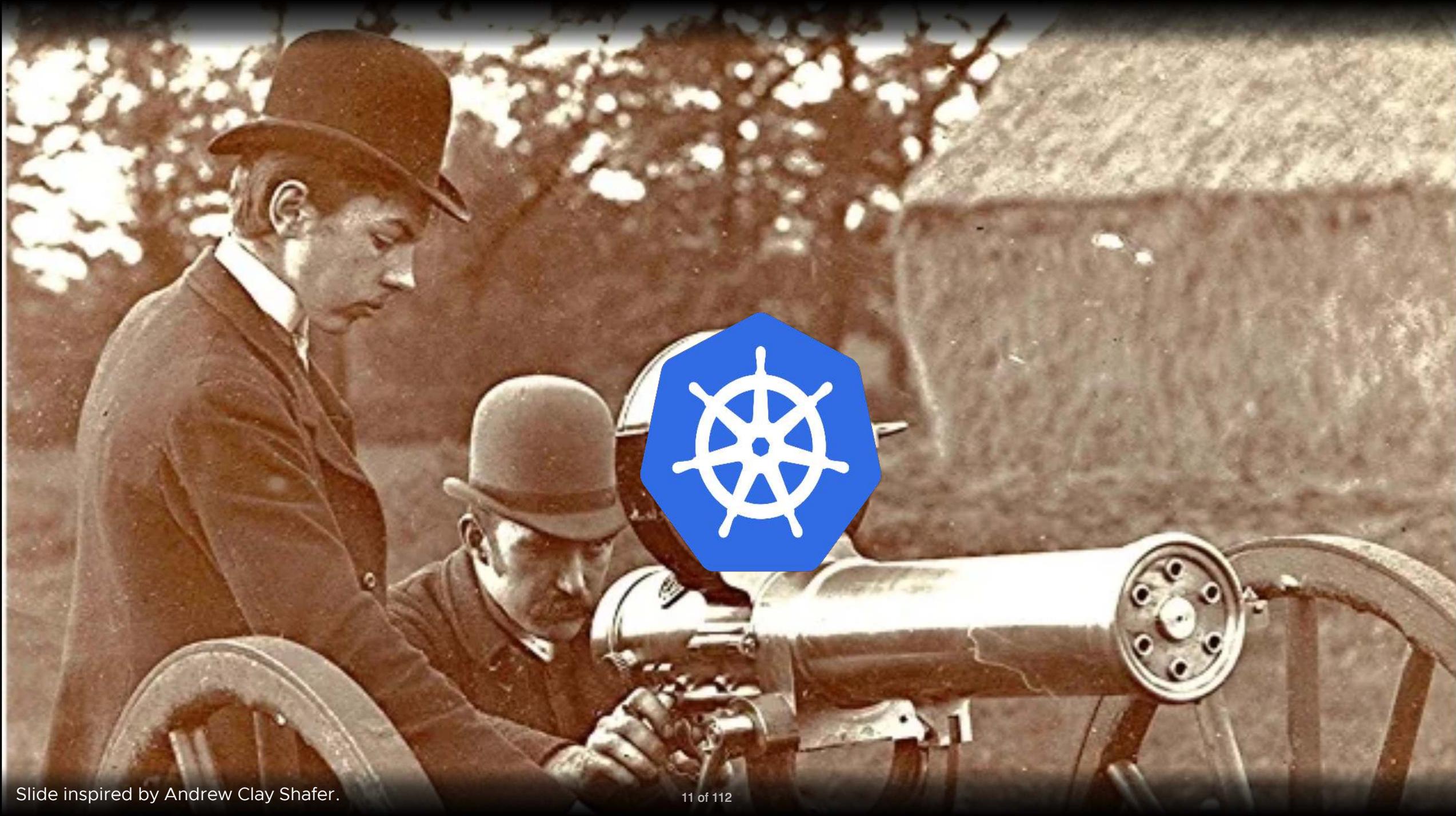
65% shift to in-app ordering

+46% enrollment rates

3 1/2 weeks to retool loan program

6 months to launch a new business

142% ROI on platform investment



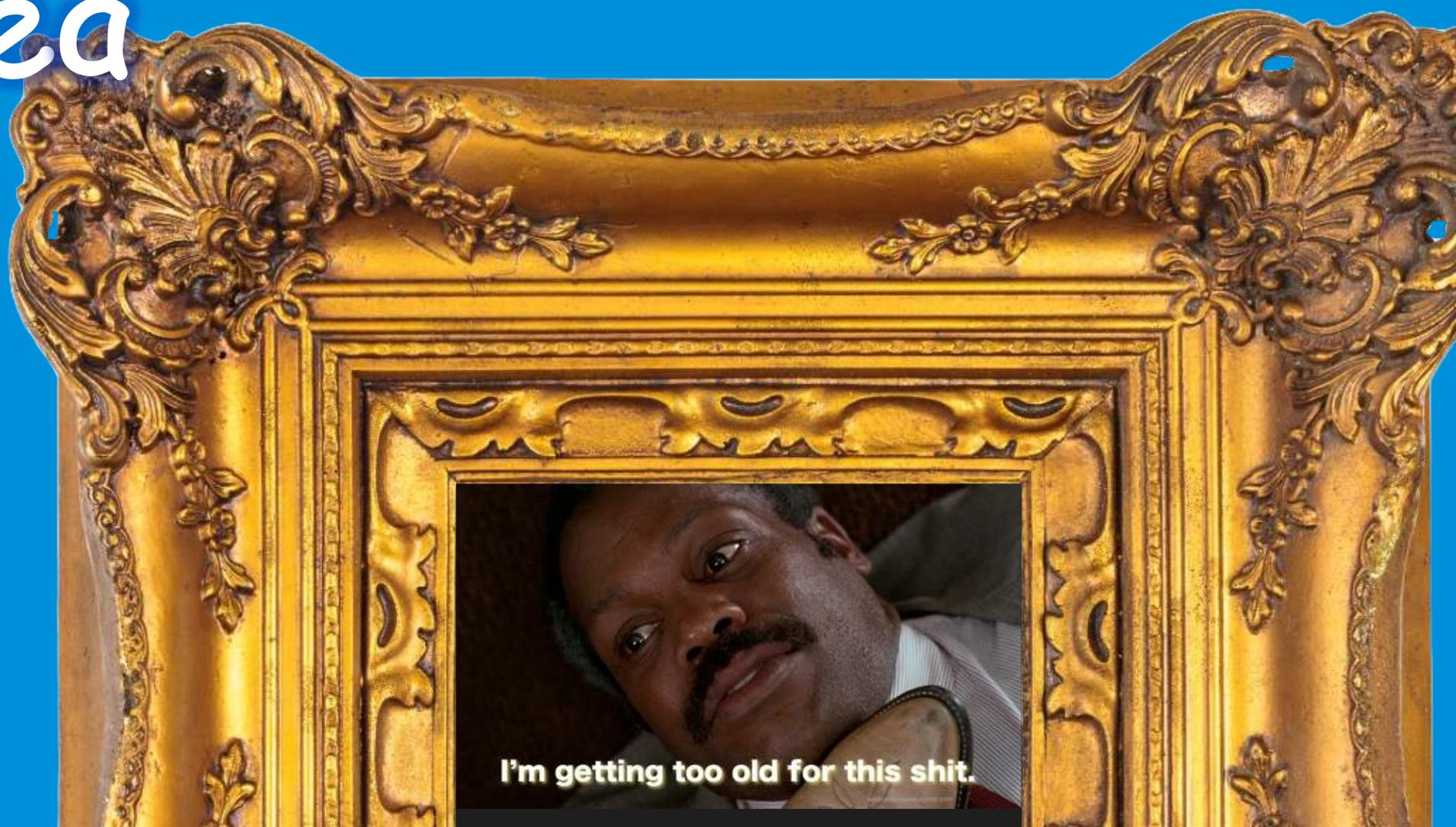
360 review

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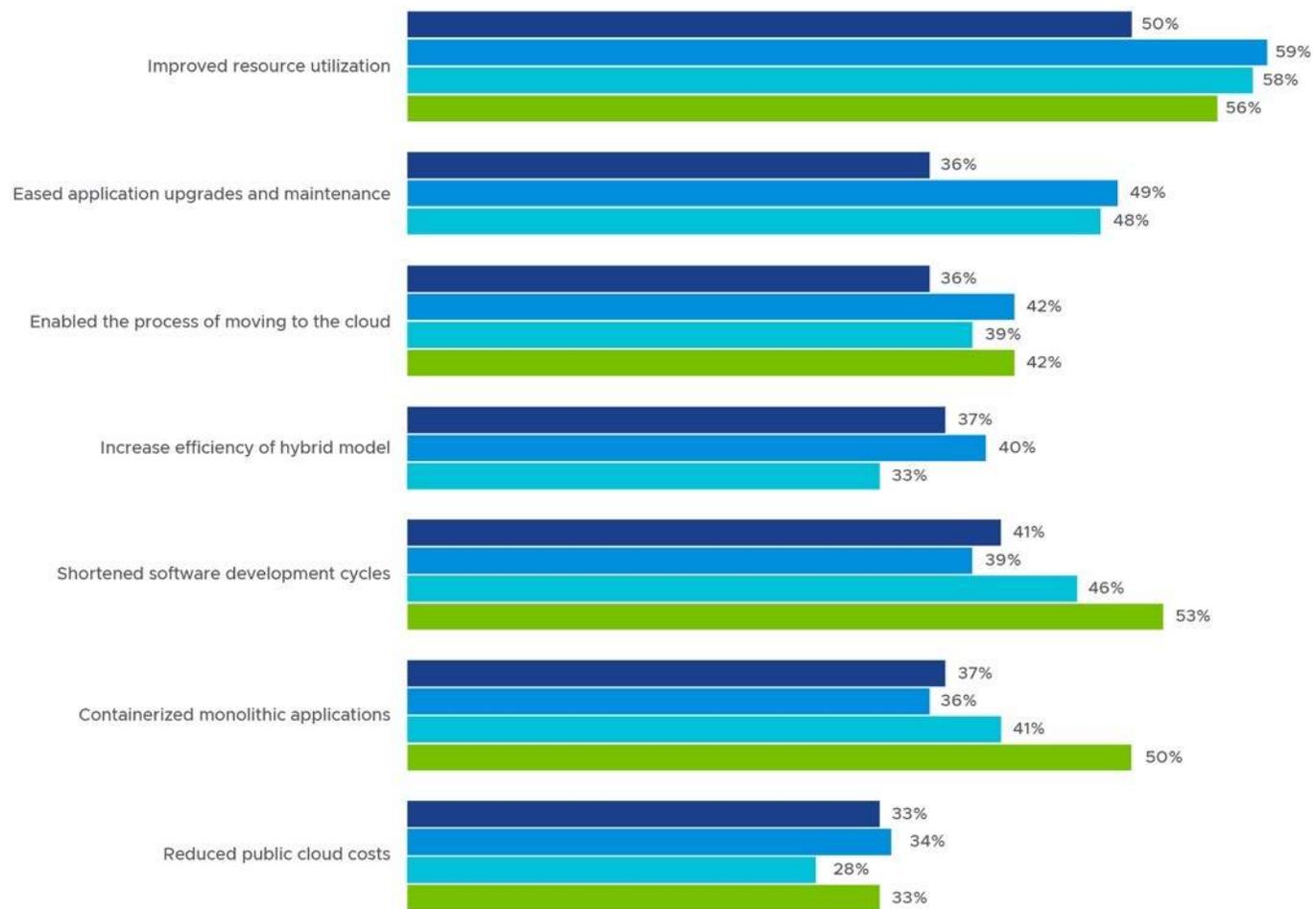
Part Thre: A plea



I'm getting too old for this shit.

What benefits has your organization realized from operating Kubernetes?

(Choose all that apply)



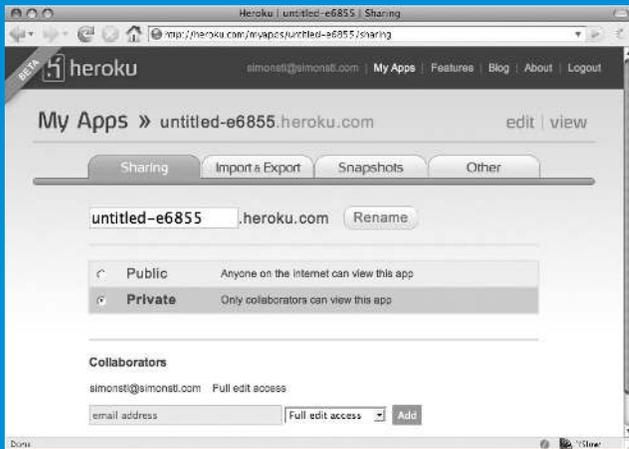
Source: State of Kubernetes 2022, UMuar

■ 2020 ■ 2021 ■ 2022 ■ 2023

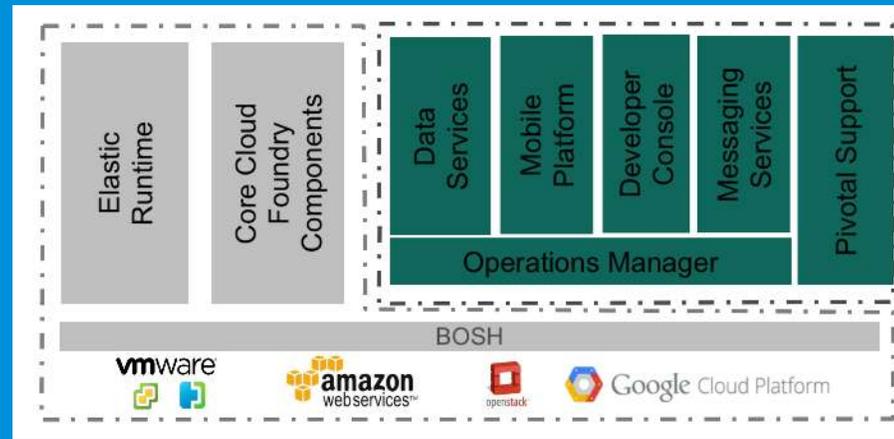
The Eternal Recurrence of (Platforms, PaaS, DevOps, Cloud Native)

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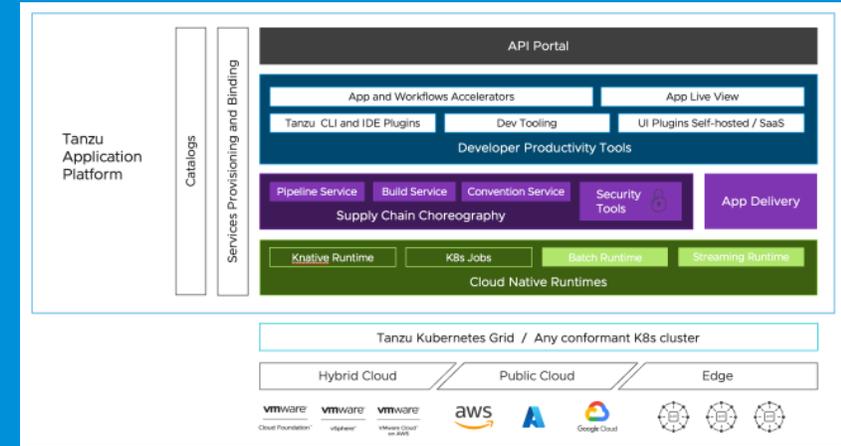
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2007



2015



2023 & Beyond



Not pictured:

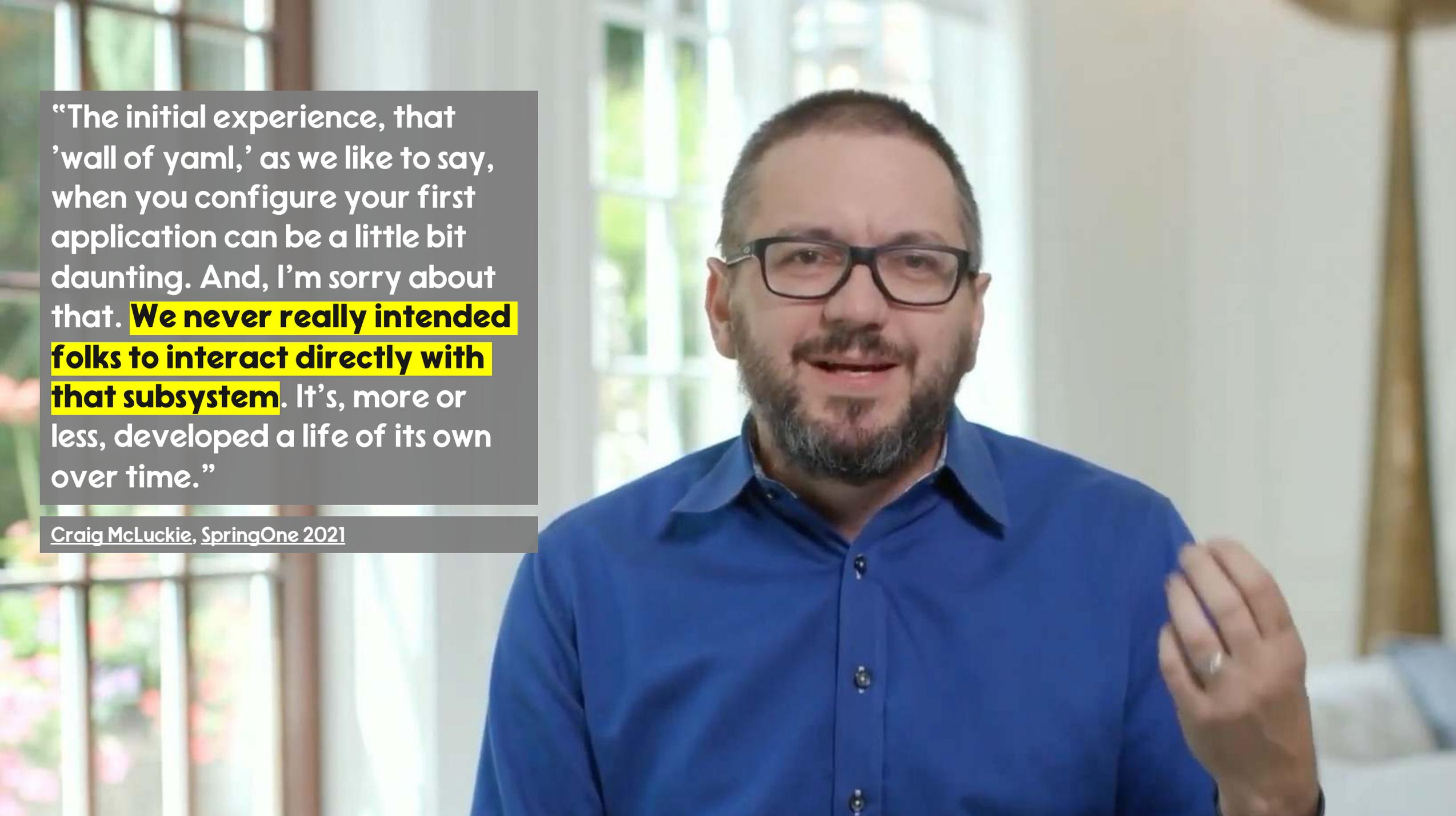
OO, Small Talk, RUP, CORBA, J2EE/.Net, SOA & WS-*, RAD, Low Code, Public Clouds

"Incrementalism wasn't gonna actually make Google successful with [Google Compute Engine]. How do we change things up, how do we **shake the snow globe in a way that, you know, may not be all about Google, but at least gives Google a fighting chance** to be able to start grabbing some of these customers and to starting being a balance against the dominance that AWS had at the time?" *(in circa 2013)*

Joe Beda

Principal Engineer @ VMware,
Prev @ Google





“The initial experience, that ‘wall of yaml,’ as we like to say, when you configure your first application can be a little bit daunting. And, I’m sorry about that. **We never really intended folks to interact directly with that subsystem.** It’s, more or less, developed a life of its own over time.”

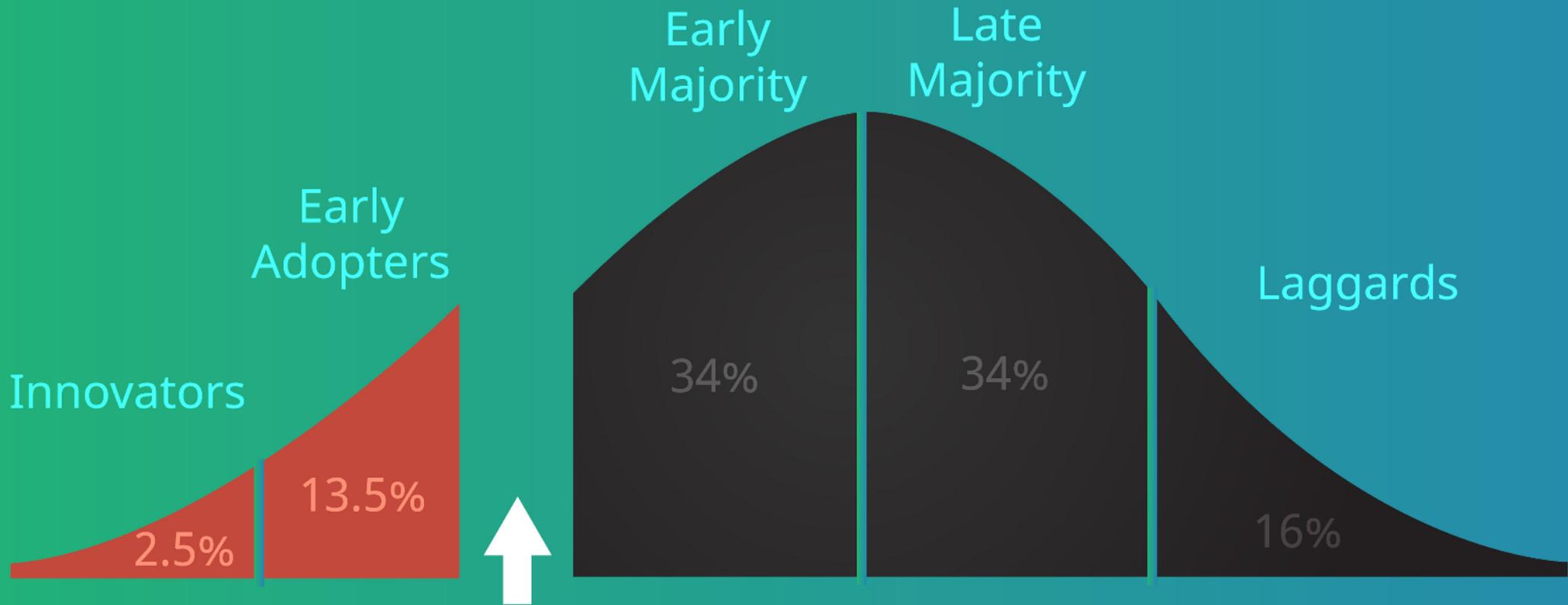
Craig McLuckie, SpringOne 2021



Kubernetes is great, but it's been a 7 year distraction

The snow globe is shook, 3 major problems are solved, & now it's back to developers. Plus, reconsidering potatoes in omelettes, the lifespan of S&P 500...

FEB 2 • COTÉ



Chasm



“We believe that we need to increase independent oversight to make board members more accountable, as well as increase the ability to follow our standards of conduct in more complex situations.”

Siew Choo Soh, DBS Bank

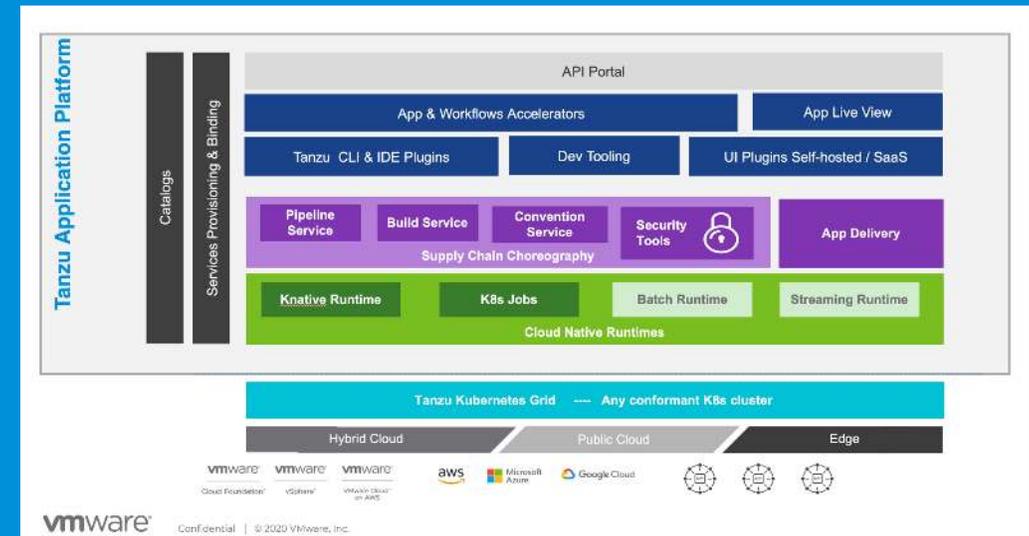
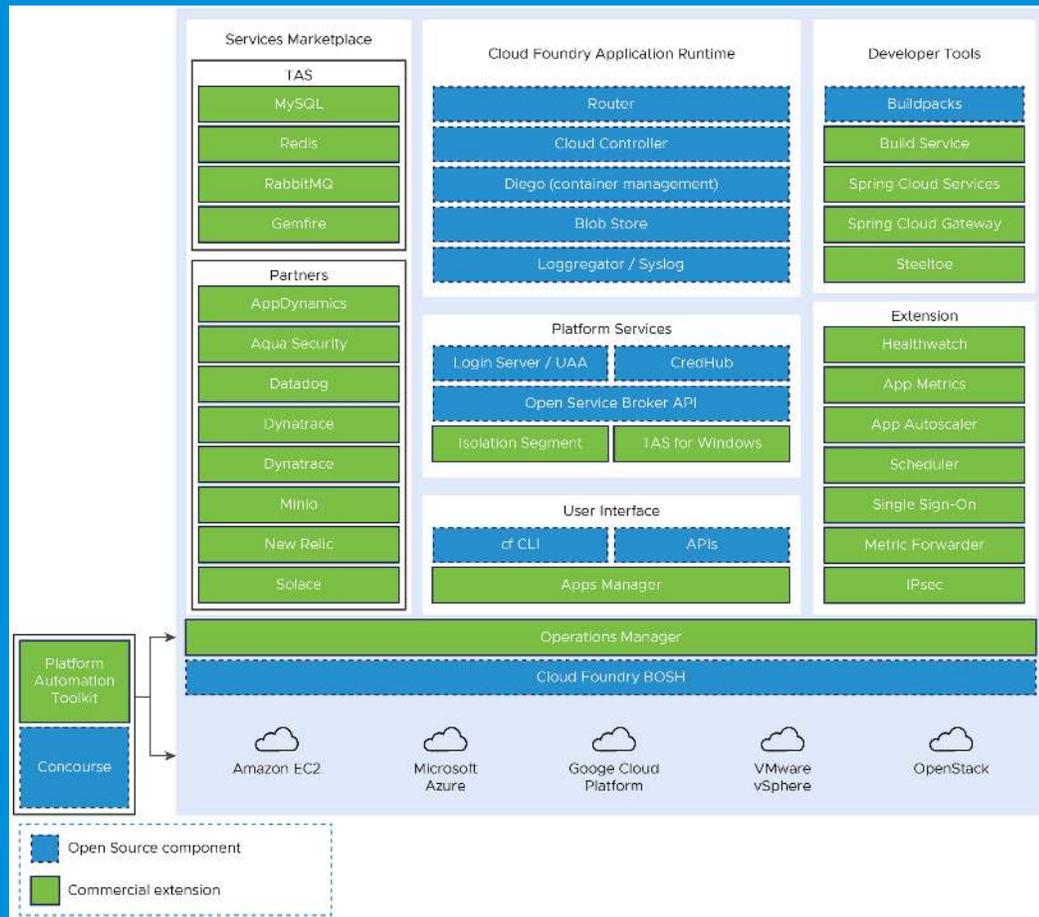


Don't build platforms.

Build apps.

A fine selection of pre-shaved yaks

<https://tanzu.vmware.com>



“At the end of the day.”

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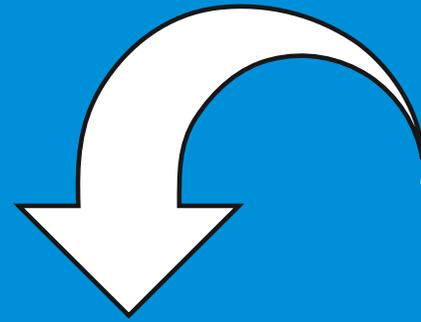
The Business Bullshit Dictionary, a selection

1. Synergies.
2. "We should get lunch!"
3. Pre-wire.
4. Deck.
5. Executize
6. Accountability
7. Optimizing
8. Parking lot/"Take it offline."
9. 360 Review
10. "Let's socialize this deck."
11. Politics.
12. Bureaucracy
13. "Let's take a step back."
14. Input.
15. American Manager Feedback.
16. "Make sure they're in the loop."
17. "At the end of the day."
18. Riffing.

<https://cote.io/bigco/>



Thanks!



Slides & stuff

 <https://newsletter.cote.io>

 <https://cote.io/platform/>

 cote@broadcom.com



Scaling Phase – Pairing & Seeding to build trust & training



1. Create platform team.
2. Pick one or two apps, *real* apps.
3. Develop the apps & platform together.
4. Do this for three months.
5. Pick some more apps, to taste.
6. Seed app people to new teams.
7. GOTO 3.

