

ADD0

ALL DAY DEVOPS

NOVEMBER 12, 2020

Christian Melendez

**DevOps Is Not
What You Have
Been Told It Is**



\$whoami

Solutions Architect at Equinix

Developer at heart, Engineer by nature!

I like to talk/write/teach about DevOps,
Kubernetes, Cloud, Security, Go, and other
buzzwords 😊

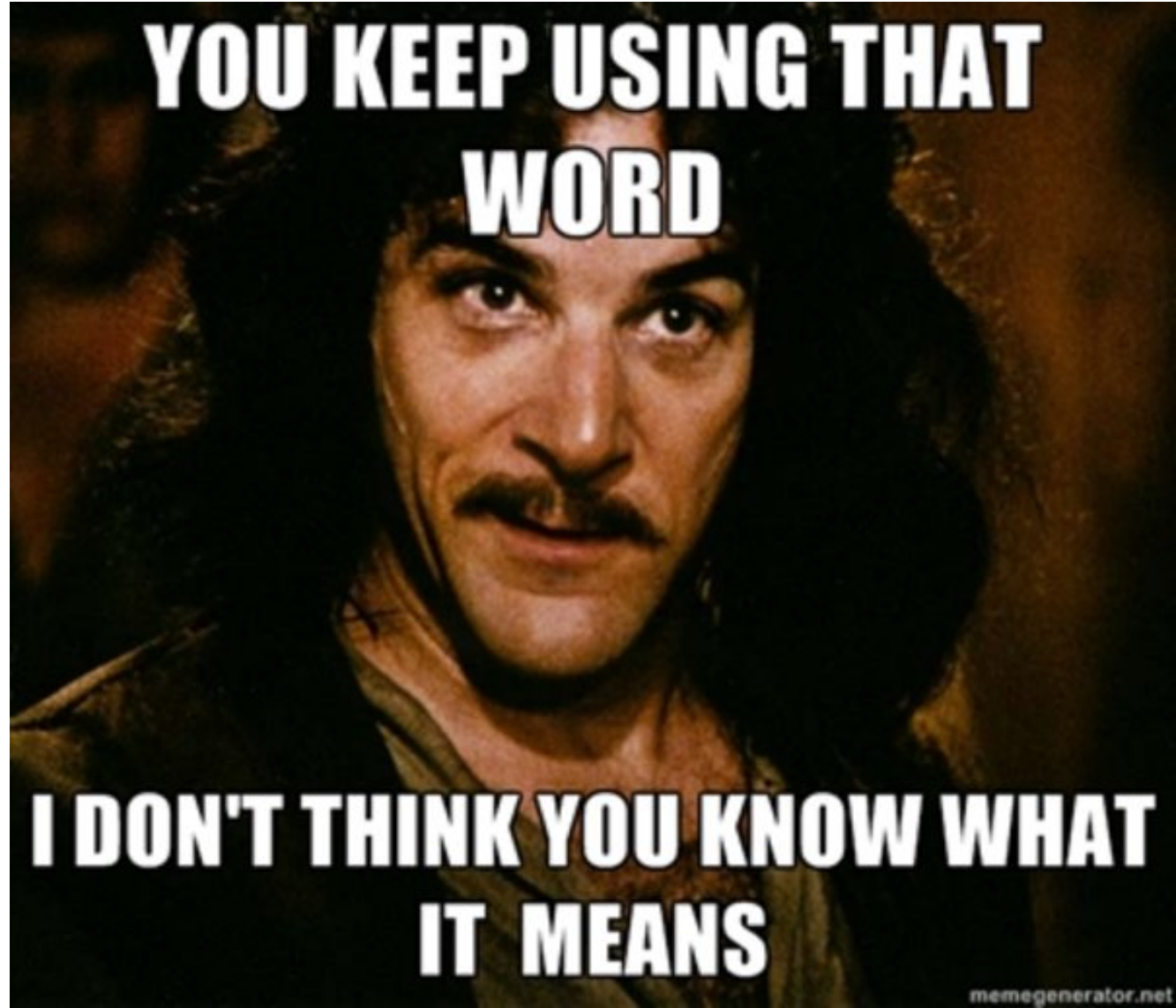
cmelendeztech.com | [@christianmldz](https://twitter.com/christianmldz)



Disclaimer!

By no means I'll try to define what DevOps is
... bear with me, I haven't even started yet 😊







DevOps Engineer

A Tool

DevOps Team

Jenkins





What we're seeing now?

- A DevOps team
- Sysadmins => DevOps engineers / SREs
- Focus on creating CI/CD pipelines only



Why Are Engineers Getting DevOps Fatigue?

[#devops](#) [#engineers](#)



Christian Melendez Nov 19, 2019 Originally published at scalyr.com · 7 min read

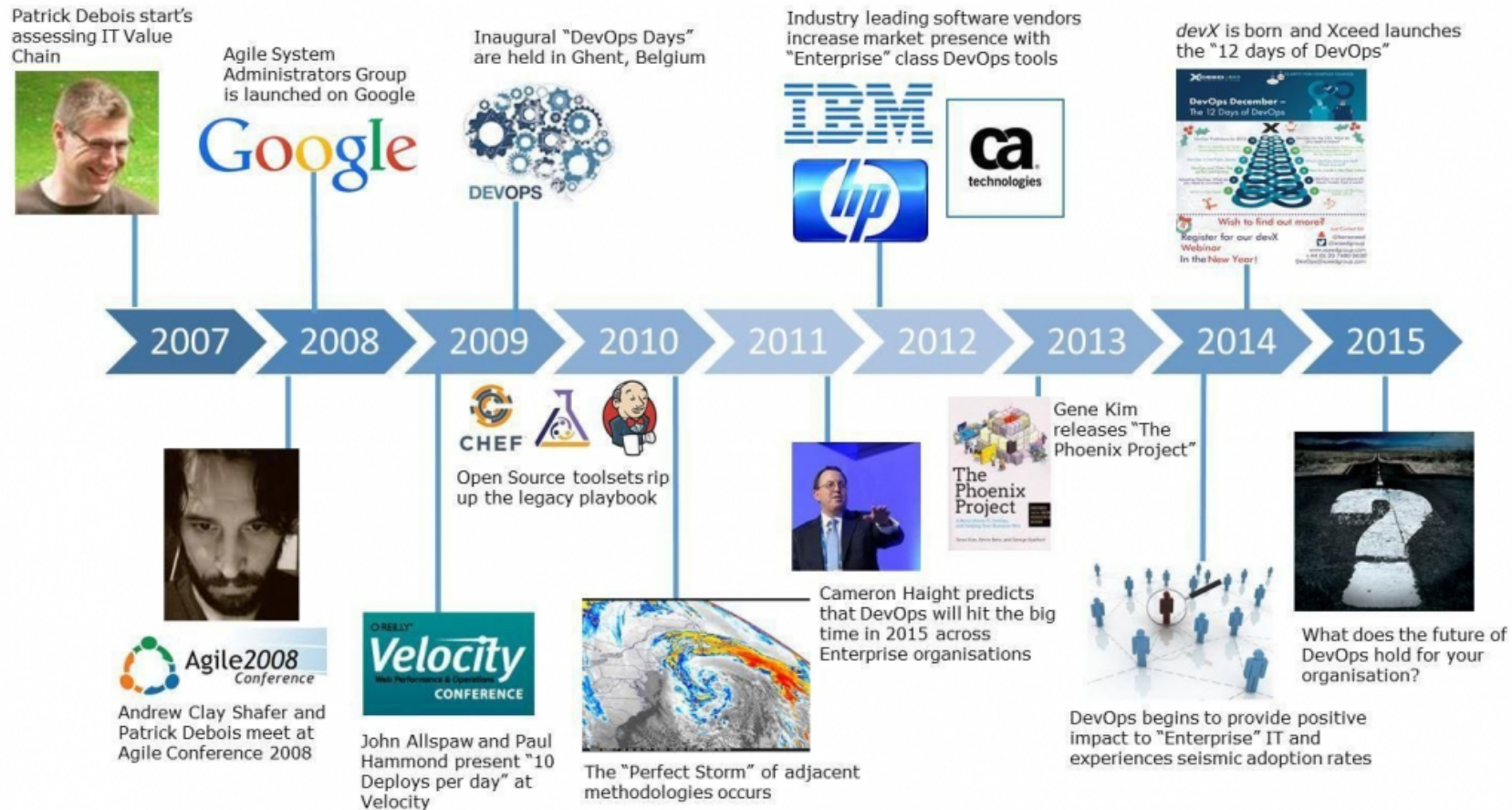
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Manage

As an engineer, you already have enough responsibilities when developing software. Adding more tasks—say, DevOps-related ones—to your workday activities might not sound very appealing. With DevOps, not only are you responsible for producing working software, but now you also need to automate the building, testing, and deployment phases of the software. That's a lot to take care of! But the extra work aside, maybe you're just tired of the DevOps movement, and all the hype surrounding it is causing DevOps fatigue.

<https://dev.to/scalyr/why-are-engineers-getting-devops-fatigue-15hi>

It started as an Ops movement





And after so many years ...



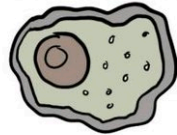


Everybody wants DevOps



EVOLUTION OF OPERATIONS

OPS



- PRIMORDIAL, PROTOZOIC
- BORN IN THE SWAMPS OF PERL
- OPERATES IN A SINGLE-CELL SILO
- SURPRISINGLY RESILIENT

DEVOPS



- A CROSS-FUNCTIONAL MARVEL
- VASTLY INCREASED AGILITY
- SECRETLY JUST A BUNCH OF SINGLE CELLS THAT HAVE LEARNED NOT TO KILL EACH OTHER

DEVSECOPS



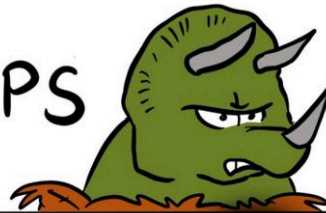
- MORE ADVANCED, MORE PARANOID
- SECURITY IS AUTOMATED RIGHT INTO ITS DNA
- KNOWS THAT SHARED RESPONSIBILITY IS THE ONLY ESCAPE FROM FOSSILIZATION

DEVSECMLOPS



- WHAT EVEN IS THIS?
- IS IT A FISH WITH FEET?
- WE SHOULD PROBABLY LEAVE IT ALONE FOR A FEW MILLION YEARS AND SEE WHAT HAPPENS

TRICERATOPS



- DOES NOT CARE ABOUT YOUR ORG STRUCTURE
- VULNERABLE ONLY TO DIRECT METEOR STRIKES
- WHAT WERE WE TALKING ABOUT, AGAIN?

@acloudguru



Reasons why DevOps is not what you've been told it is ...

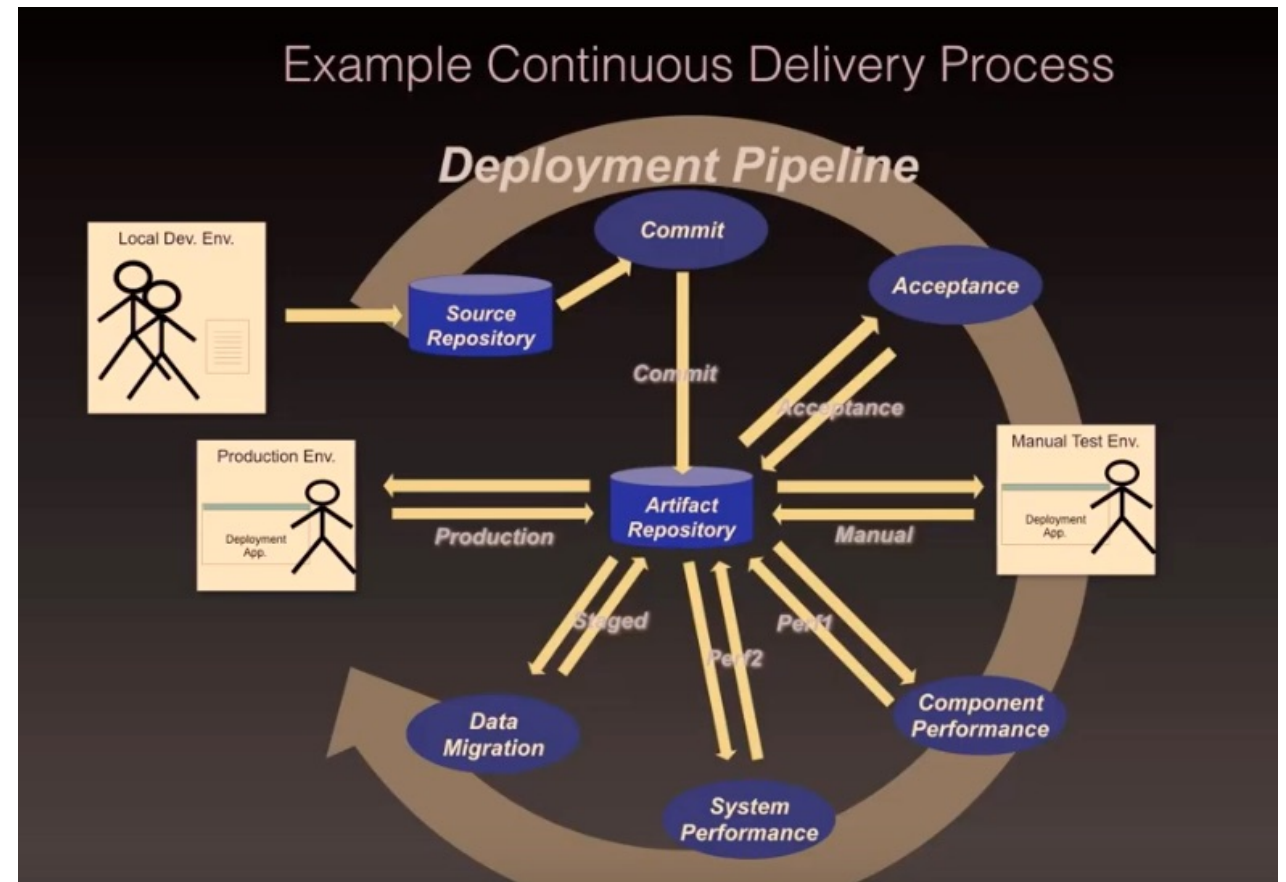


After 10 years of Continuous Delivery

Focus on three aspects

- Technical
- Organizational
- Cultural

Technical practices alone aren't enough



<https://www.infoq.com/news/2020/02/ten-years-continuous-delivery/>

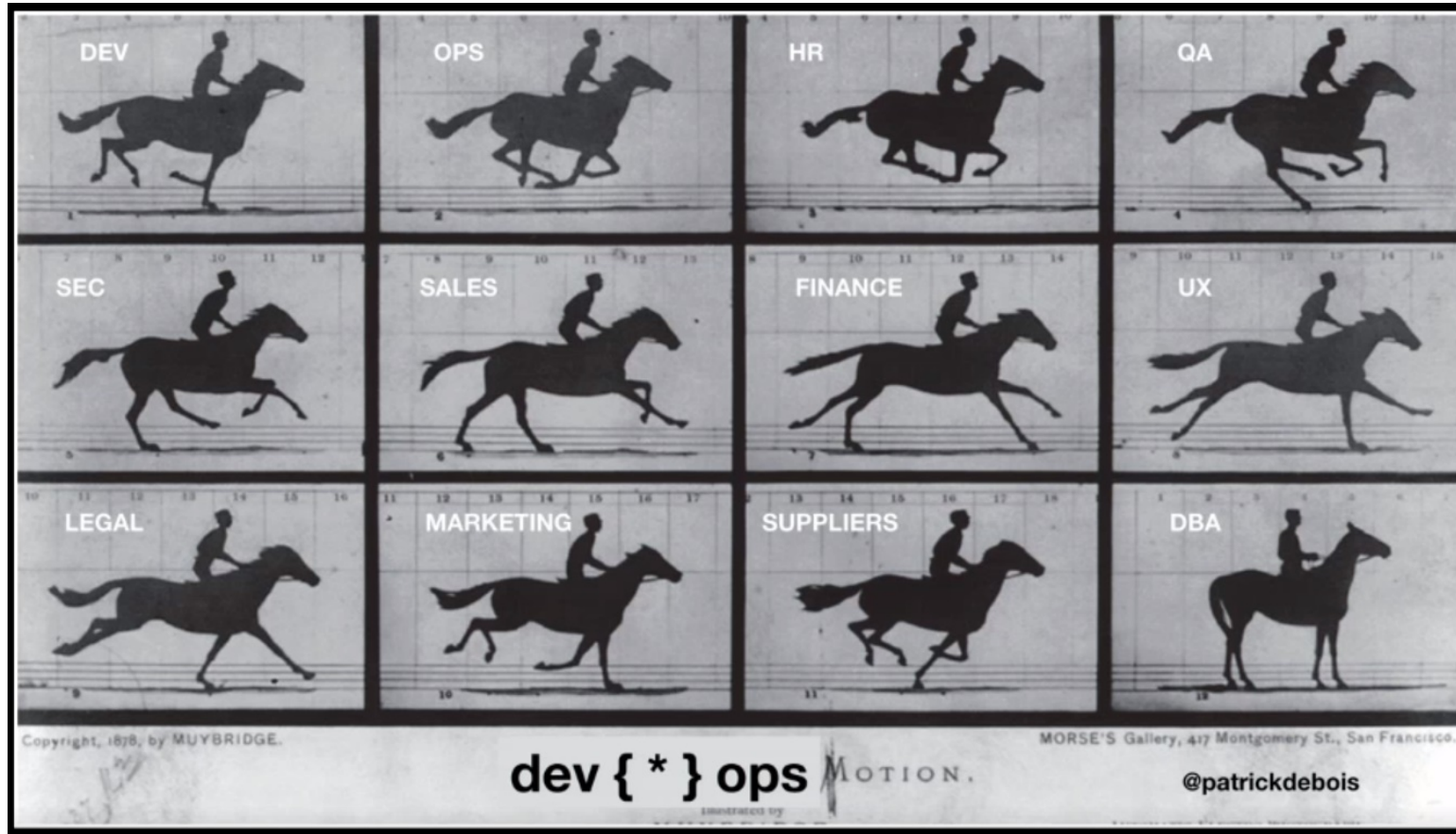


“It’s about **engineering**, applying rational
scientific thinking to solving practical
problems within economic **constraints**”

Dave Farley



Beyond Dev and Ops



<https://www.infoq.com/news/2020/03/devops-complexity-lessons/>

“If you have the idea of **dev and ops just working together** to try to fix a problem of the build pipeline, **the problem is way bigger**. And we can attribute way more to the organization than we think. Always think about **where the next bottleneck is.**”

Patrick Debois



Team Topologies (2015)

How Different Team Topologies Influence DevOps Culture

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DevOps is a movement. DevOps is a mindset. DevOps is devs and ops working together. DevOps is a way of organizing. DevOps is continuous learning.

The intangibility of DevOps makes it hard for leaders to come up with a clearcut roadmap for adopting DevOps in their organization. The meaning of DevOps is highly contextual, there are no popular methodologies with prescribed practices to abide by.

However, healthy organizations exhibit similar patterns of behavior, organization and improvement efforts. In this series we explore some of those patterns through testimonies from their practitioners and through analysis by consultants in the field who have been exposed to multiple DevOps adoption initiatives.

This InfoQ article is part of the series "[Patterns of DevOps Culture](#)". You can [subscribe](#) to receive notifications via RSS.

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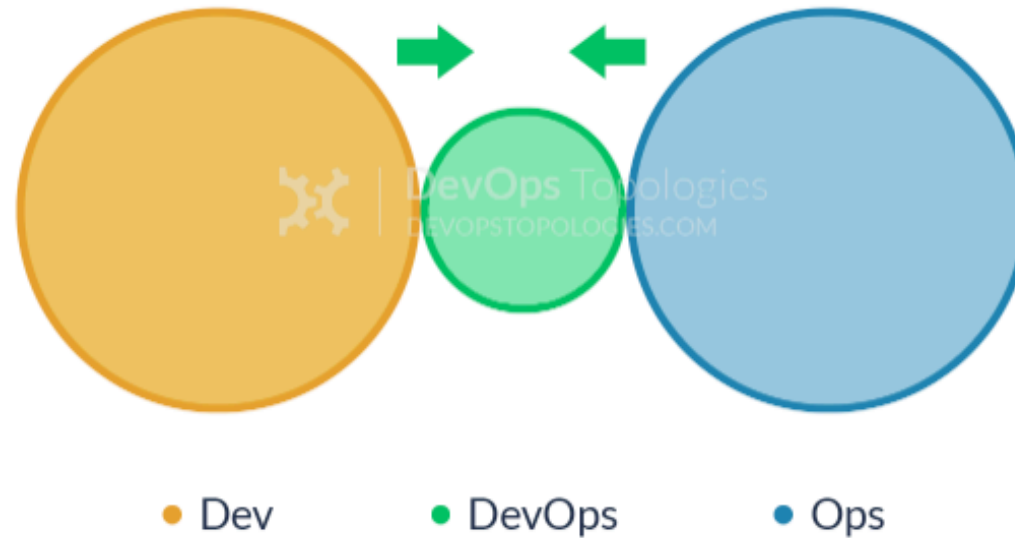
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<https://www.infoq.com/articles/devops-team-topologies/>



DevOps Team with an Expiry Date



Type 5 suitability: as a precursor to **Type 1 topology**, but beware the danger of **Anti-Type B**.

Potential effectiveness: **LOW to HIGH**

<https://web.devopstopologies.com/>



DevOps Influenced ITIL V4

Encourages an iterative approach

Has 4 dimensions:

- People
- Products
- Partners
- Processes

Focus on co-creating **value** together!





It's Continuous Improvement

- DevOps team/role? Temporary
- Start with infra-as-code? Sure, but keep moving
- Avoid eating the elephant in one bite
- **COLLABORATION**
- **EMPATHY**



A Continuous Improvement Story

- Single VMs => Microservices in Docker
- 2 – 3 days deployments => 5 minutes
- We had DevOps evangelists
- Multi-disciplinary team

The name didn't matter at the end!



The NAME is not **that** important!





Nonetheless ...

**Some transformations are still focusing only on
Development + Operations + Tooling**

We need to think more broadly!



“You have to be aware that whenever a new idea or buzzword comes around, like DevSecOps or SRE, there’s value to it because **it brings a new perspective to the table**. It doesn’t mean that DevOps as a term will exist forever.”

Patrick Debois

Thank You!

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