



DevOps for Defense

October 2020

It's the Economy Stupid!

JD Black

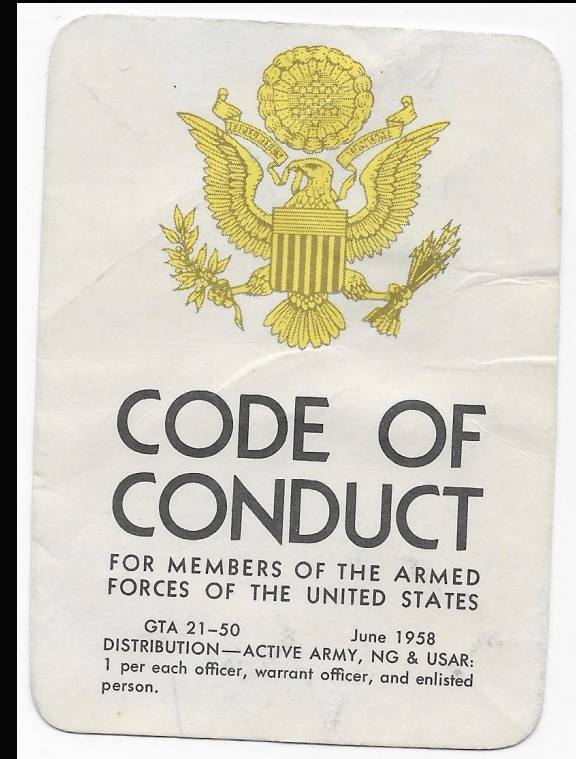
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DevOps for Defense Meetup: Code of Conduct

- UNCLASSIFIED ONLY!!!!
- Treat each other with respect and professionalism.
- Do not talk about private, sensitive, or proprietary work.
- Do talk about your experiences, needs, desires to improve work in our domain.
- Do share your thoughts.
- Do learn from others.
- Do mute yourself while others are speaking!





GET TOGETHER GO FASTER

DEVOPS ENTERPRISE SUMMIT

LAS VEGAS - VIRTUAL | OCTOBER 13 - 15, 2020

Email me for a 50% off code
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DevOps Enterprise Summit
Las Vegas - Virtual

October 13-15, 2020

Why all the fuss about DevOps?

1. DevOps is an economic force, not a “software thing”.
2. DevOps originated in industrial engineering and manufacturing, finding ways to produce high quality products cheaper and quicker.
3. DevOps is perceived as a “software thing” because software has embraced and tailored the principles and become a driving force in the current economy.

The Global Economic Landscape has Changed

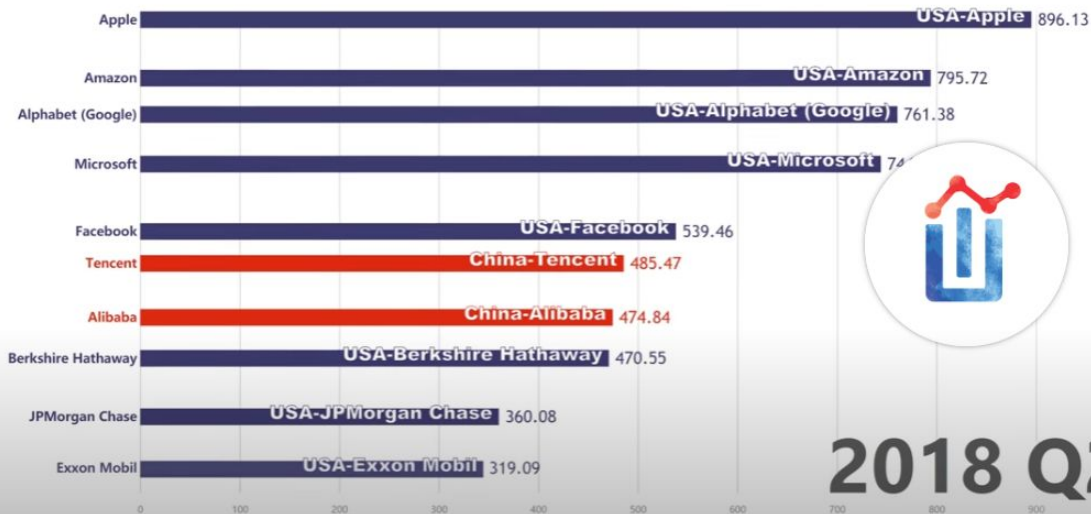
1998

Market Capitalization in Billions USD



Source: Wawamu Stats
<https://youtu.be/fobx4wIS6W0>

Market Capitalization in Billions USD

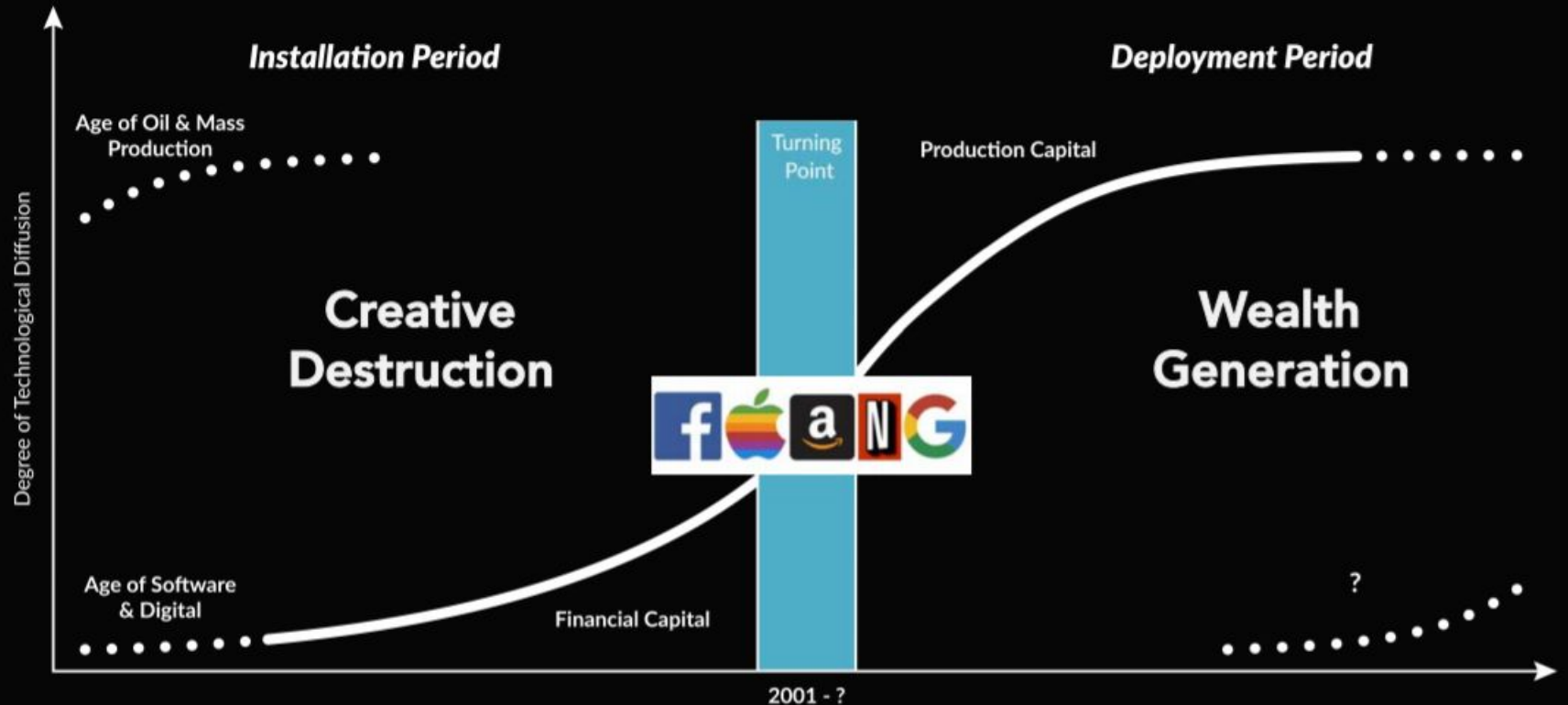


2018 Q2

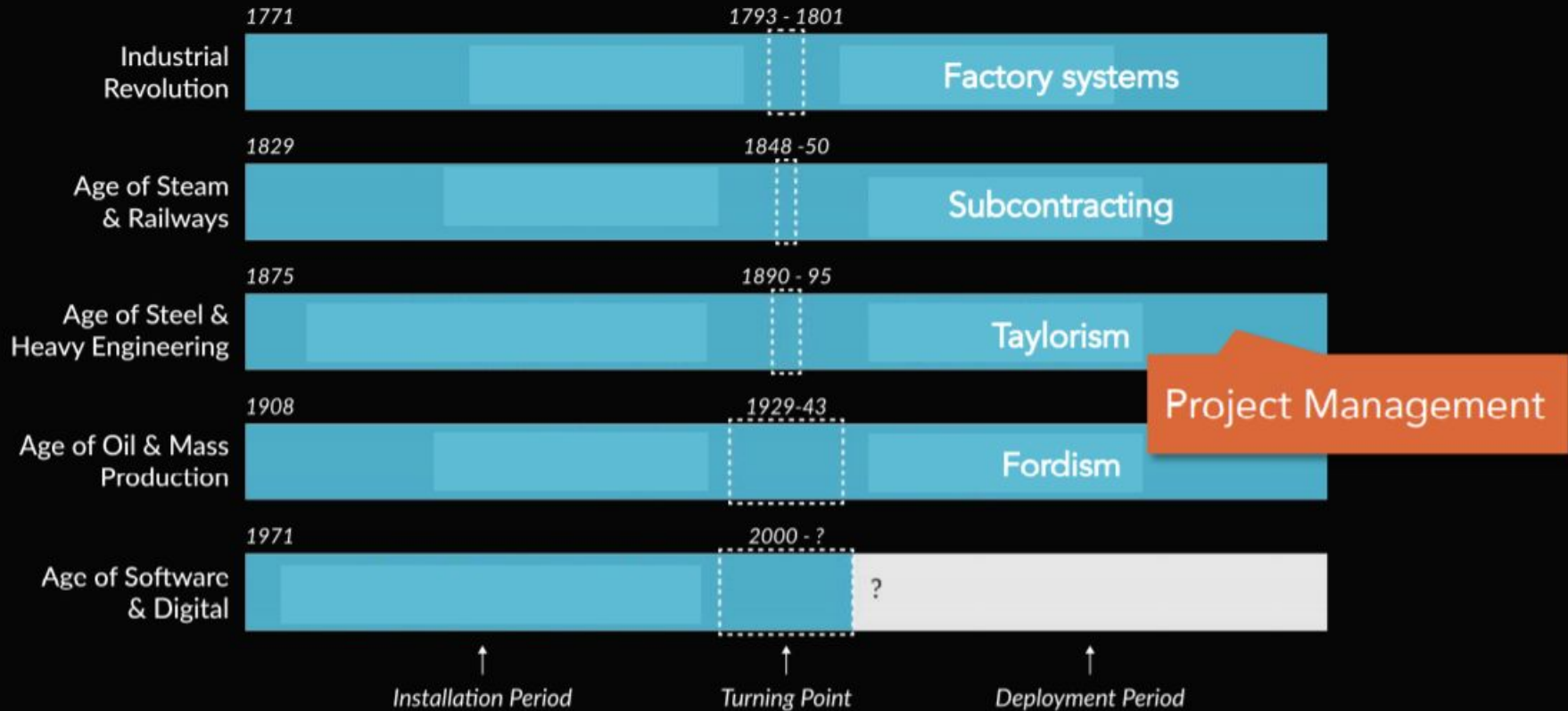
Stock Price Change 2006-2016



The Turning Point



Technological Revolutions



Reconsider What and How You Deliver

- Yes, we build “systems” but they are usually in quantities between 1 and 100, not a mass produced item
- Therefore, the systems themselves must evolve to meet changing real world needs
- Re-think your value stream to focus on delivering changes to your baseline (aka 4 types of work)
- Optimize your processes and infrastructure to quickly, cheaply deliver high quality changes with confidence
- This applies to the whole value stream, not just software development



Lean Principles

- Precisely specify value by product,
- Identify the value stream for each product
- Make value flow without interruptions
- Let the customer pull value from the producer

Lean Thinking by James P. Womack

What flows in software delivery?



Features

New business value, pulled by customer



Risks

Security, availability, compliance, pulled by risk officers



Defects

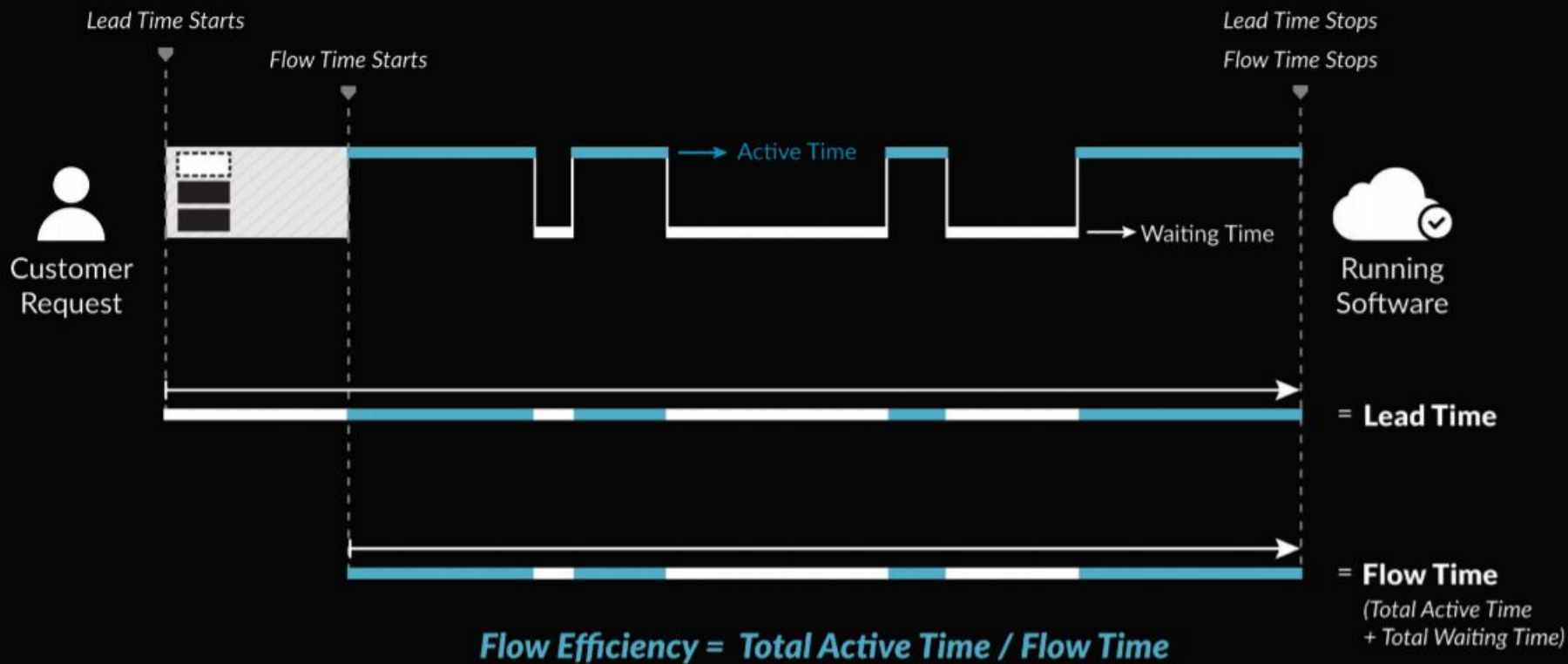
Quality improvements, pulled by customer



Debts

Technical debt improvements, pulled by architects

*Flow Items are MECE**



The Economic Outcomes are Real!

High Performers Win In The Marketplace

2x

more likely to
exceed profitability,
market share &
productivity goals

2x

more likely to achieve
organizational and
mission goals, customer
satisfaction, quantity &
quality goals

Source: Puppet DORA, 2017 State Of DevOps Report. <https://puppet.com/resources/whitepaper/state-of-devops-report>

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High Performers Win In The Marketplace

2.2x

higher employee
Net Promoter Score

50%

higher market
capitalization growth
over 3 years*

Source: Puppet Labs 2016 State Of DevOps Report. <https://puppet.com/resources/white-paper/2016-state-of-devops-report>

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High Performers Are More Agile

46x

more frequent
deployments

440x

faster lead times
than their peers

Source: Puppet DORA, 2017 State Of DevOps Report. <https://puppet.com/resources/whitepaper/state-of-devops-report>

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High Performers Are More Reliable

5x

lower change
failure rate

96x

faster mean time
to recover (MTTR)

Source: Puppet DORA, 2017 State Of DevOps Report. <https://puppet.com/resources/whitepaper/state-of-devops-report>

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High Performers Are More Secure And Controlled

2x

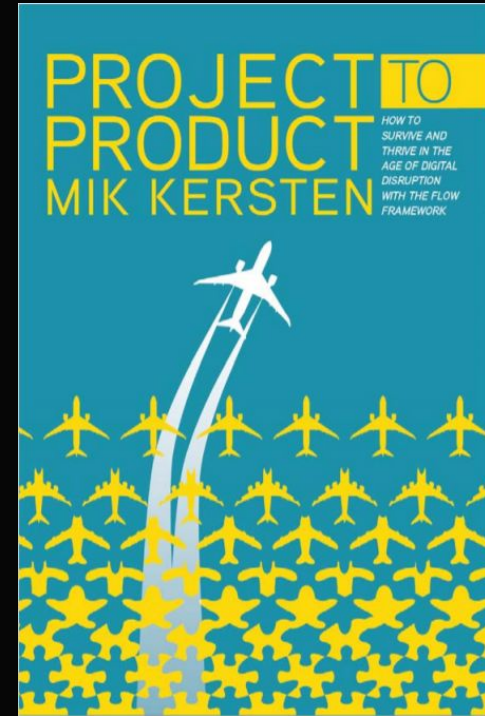
less time spent
remediating
security issues

29%

more time spent
on new work

Source: Puppet Labs 2016 State Of DevOps Report. <https://puppet.com/resources/white-paper/2016-state-of-devops-report>

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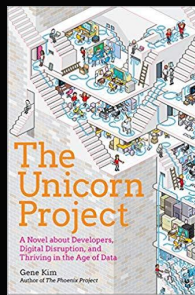
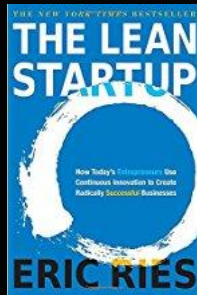
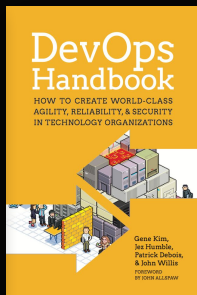
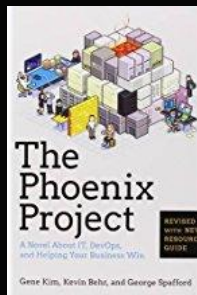
Material adapted from Mik Kersten's 2018 DOES Presentation, Project to Product.

<https://youtu.be/E5VP3ioSRU8>

DevOps Resources

<https://devopsfordefense.org/resources/>

Books / Publications:



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Conference Presentations (YouTube):

- DevOps Enterprise Summit (DOES)
- IT Revolution
- Velocity
- GoTo

