

The Platform Mullet

Functions at the front
Containers at the back



Paul Czarkowski
@pczarkowski

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Agenda

- WTF is a platform anyway ?
- I knew it, I'm surrounded by aaS's
- CaaS, PaaS or FaaS nobody clouds for free.
- Transform your digits



A group of people in a workshop setting. A man on the left is pointing at a wall covered in sticky notes. A group of people are sitting on stools, listening. A man on the right is standing and looking towards the group. The background shows a modern office environment with large windows and a blackboard.

WTF is a platform anyway?

What is a platform ?

A **computing platform** or **digital platform**^[1] is the environment in which a piece of **software** is executed. It may be the **hardware** or the **operating system** (OS), even a **web browser** and associated **application programming interfaces**, or other underlying software, as long as the **program code** is executed with it. Computing platforms have different **abstraction** levels, including a **computer architecture**, an OS, or **runtime libraries**.^[2] A computing platform is the stage on which computer programs can run.

A platform can be seen both as a constraint on the **software development process**, in that different platforms provide different functionality and restrictions; and as an assistance to the development process, in that they provide low-level functionality ready-made. For example, an OS may be a platform that abstracts the underlying differences in hardware and provides a generic command for saving **files** or accessing the **network**.

https://en.wikipedia.org/wiki/Computing_platform

Software runs on a
platform

Platforms abstract
complexity

Different platforms
abstract differently

A person is seated at a table in a meeting, gesturing with their hands while speaking. They are wearing a dark t-shirt with a geometric logo. Two other people are visible in the foreground, seen from the back, listening to the speaker. The background is a plain wall.

**A modern software
platform provides
API driven compute
resources.**

Generic Platform

Users



API

Artifacts

Database

Storage

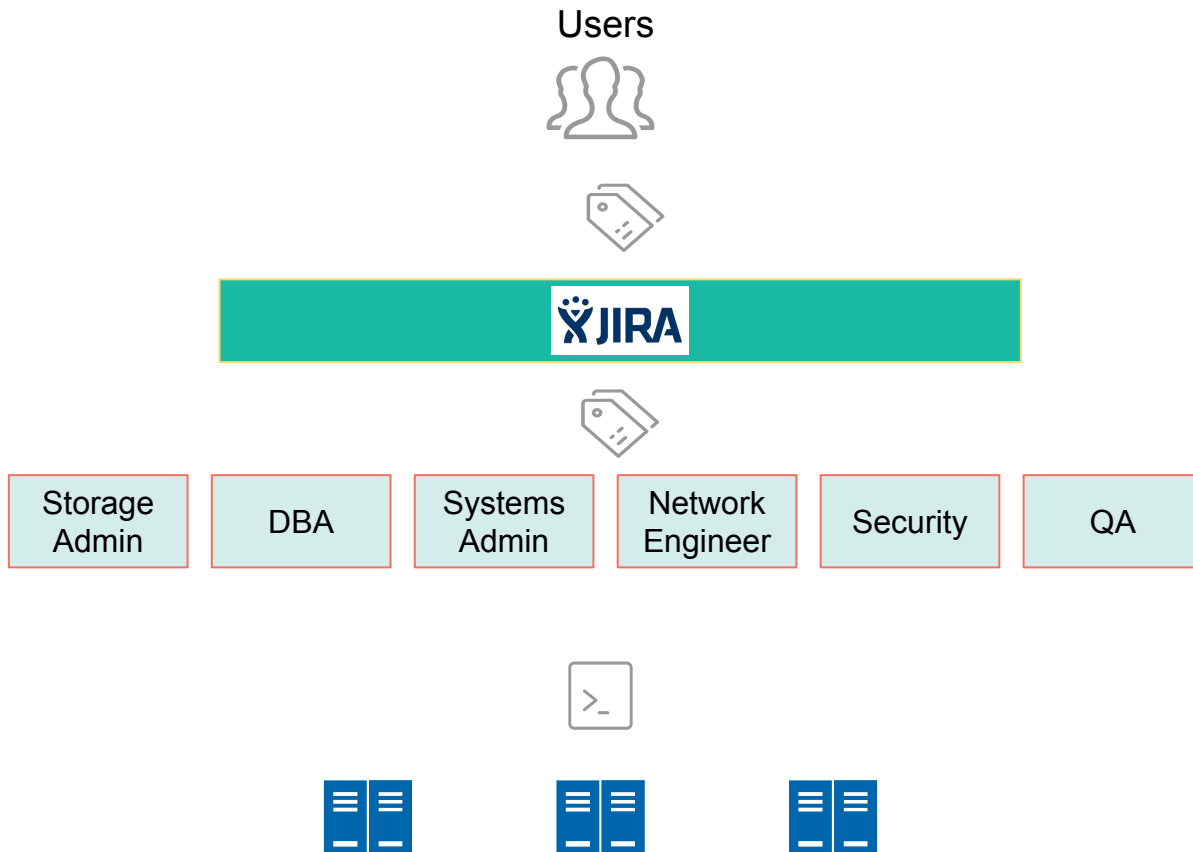
Compute

Network

Access



Enterprise IT



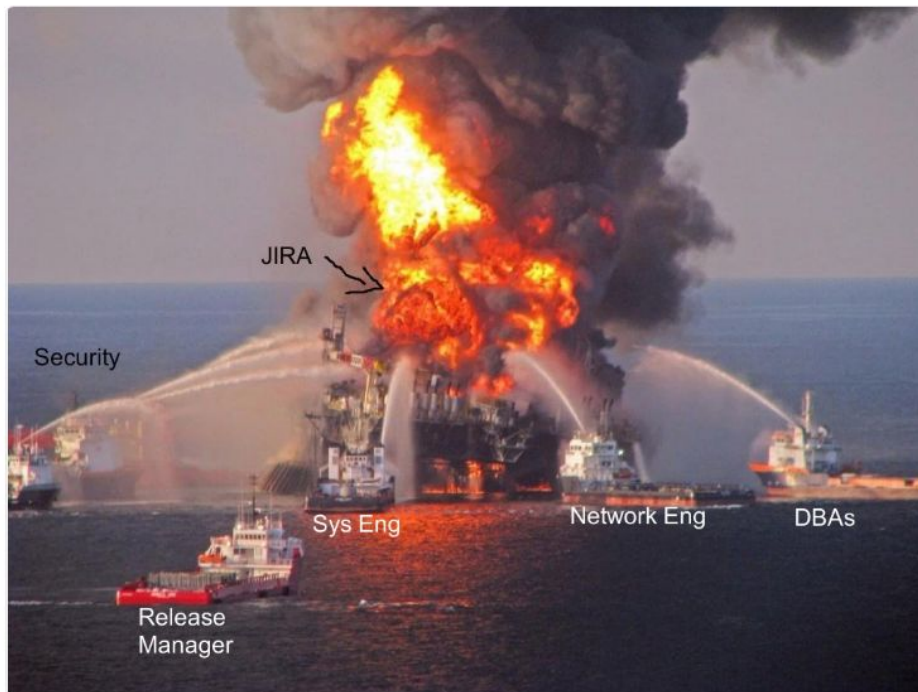


Czarcloudski

@pczarkowski




Enterprise DevOps



11:16 AM - 11 Jun 2018

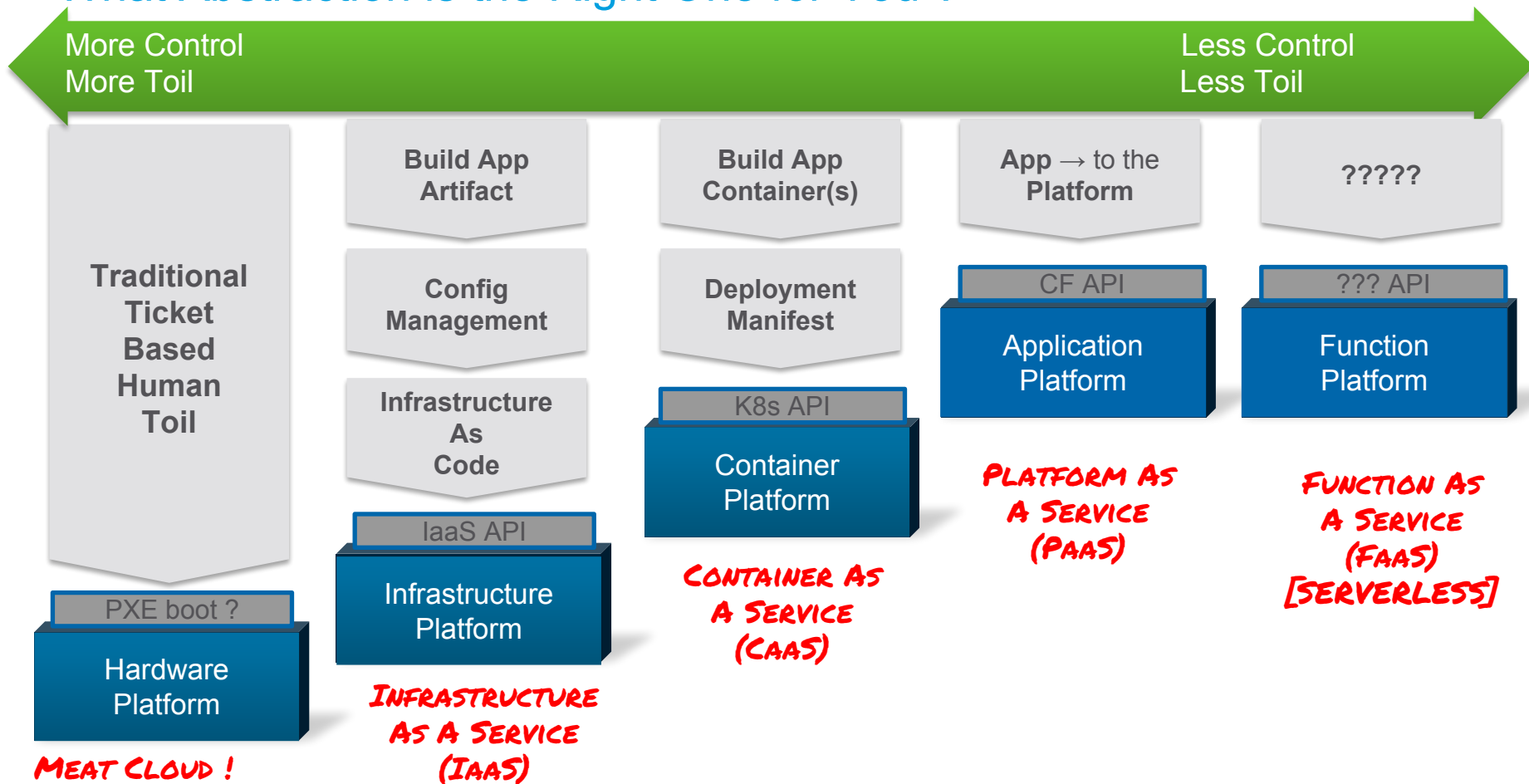
1,217 Retweets 2,307 Likes



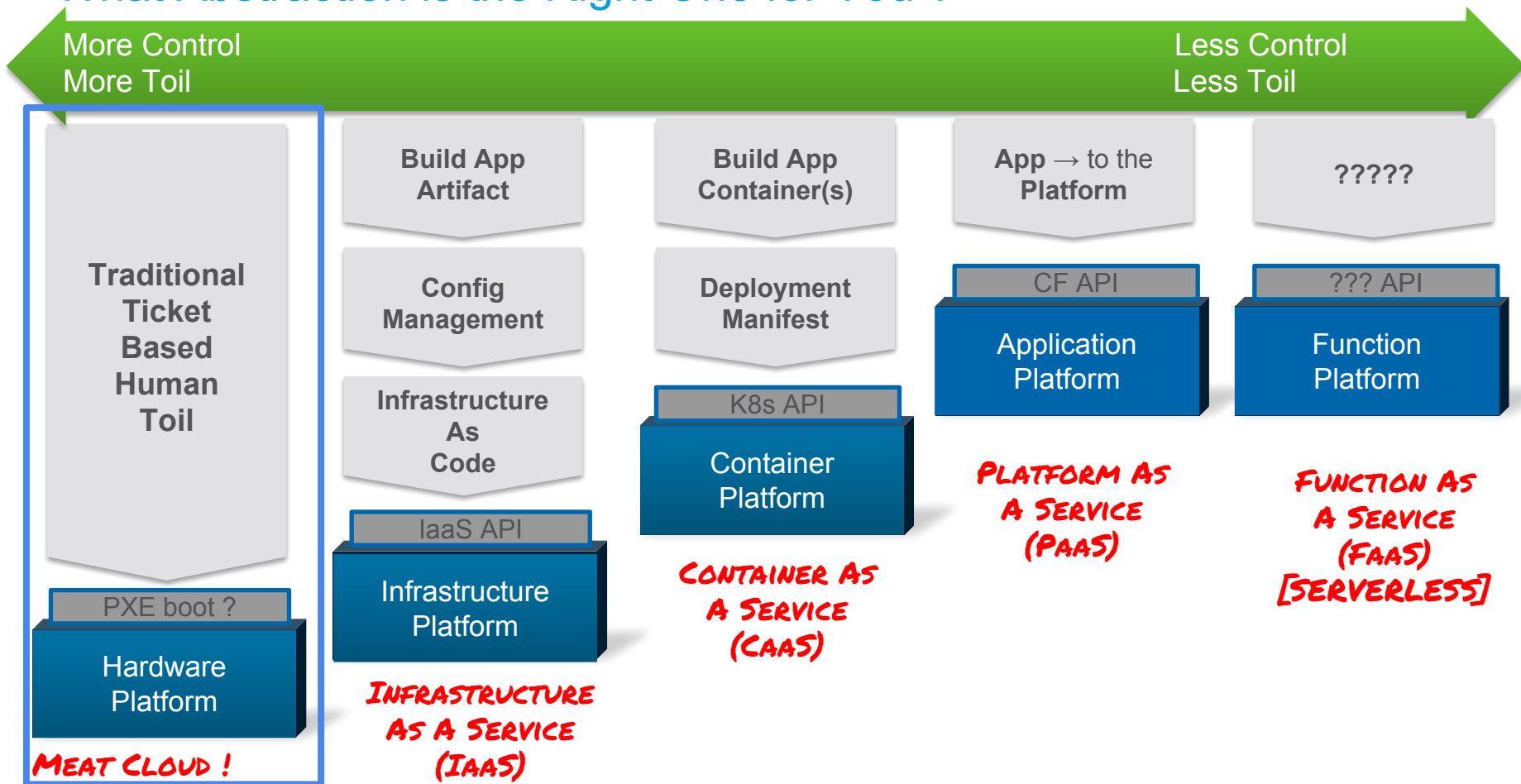
A group of people are in a workshop or meeting room. One person is standing on the left, pointing at a wall covered in many sticky notes. Several other people are sitting on stools, looking towards the speaker. A man with a beard is standing on the right, looking towards the group. The room has a modern, open-plan feel with large windows and a high ceiling.

**I knew it! I'm surrounded
by aaS's**

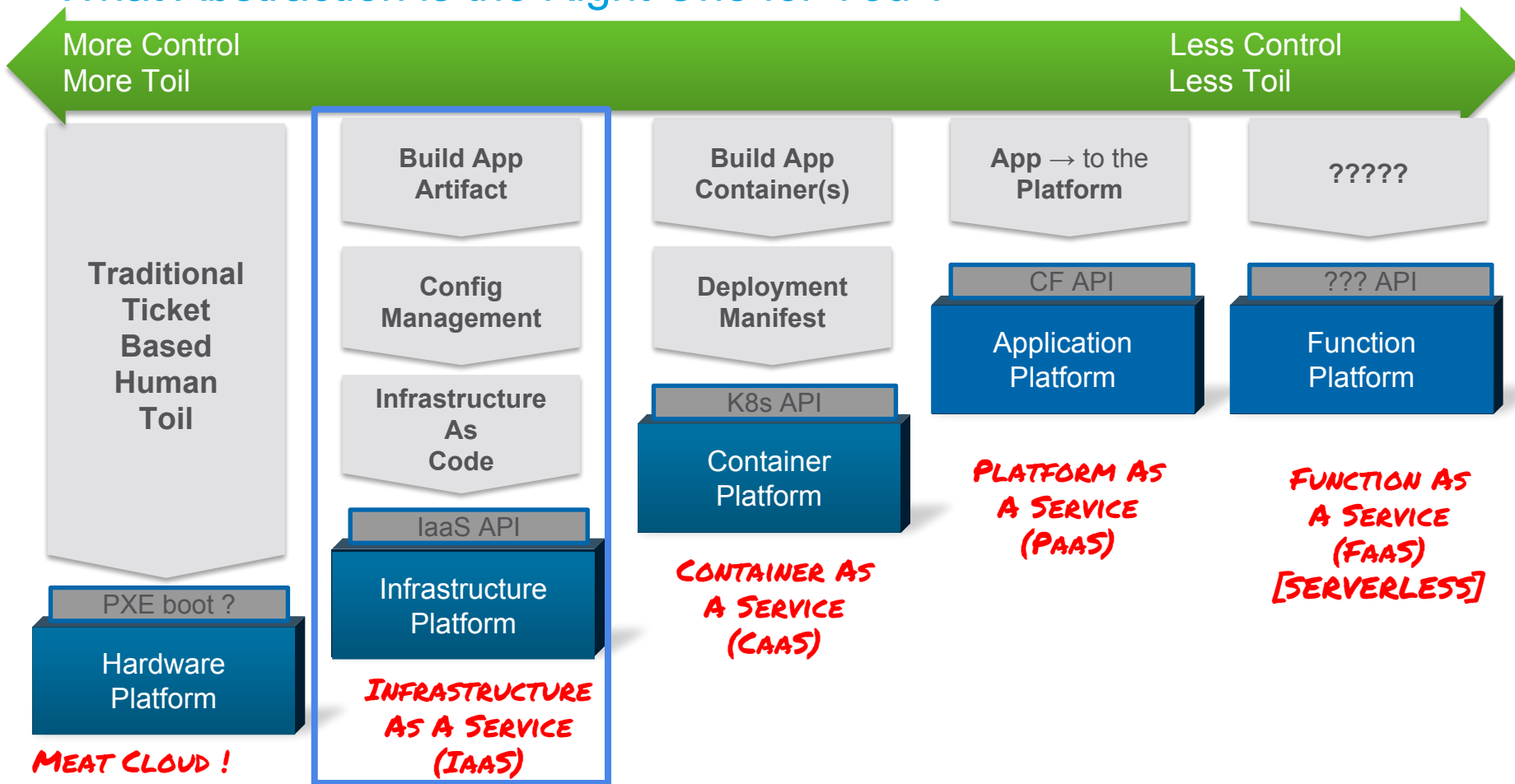
What Abstraction is the Right One for You ?



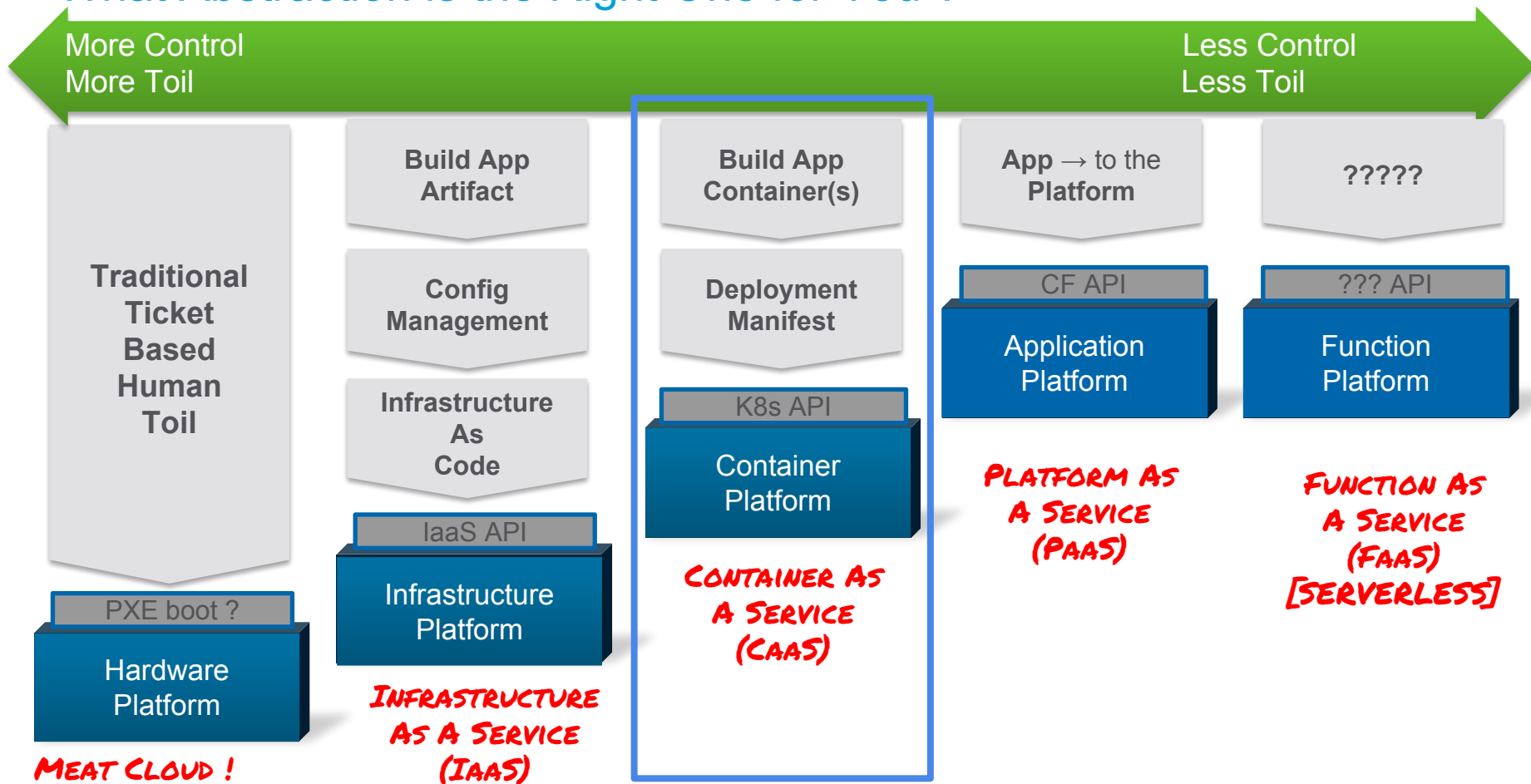
What Abstraction is the Right One for You ?



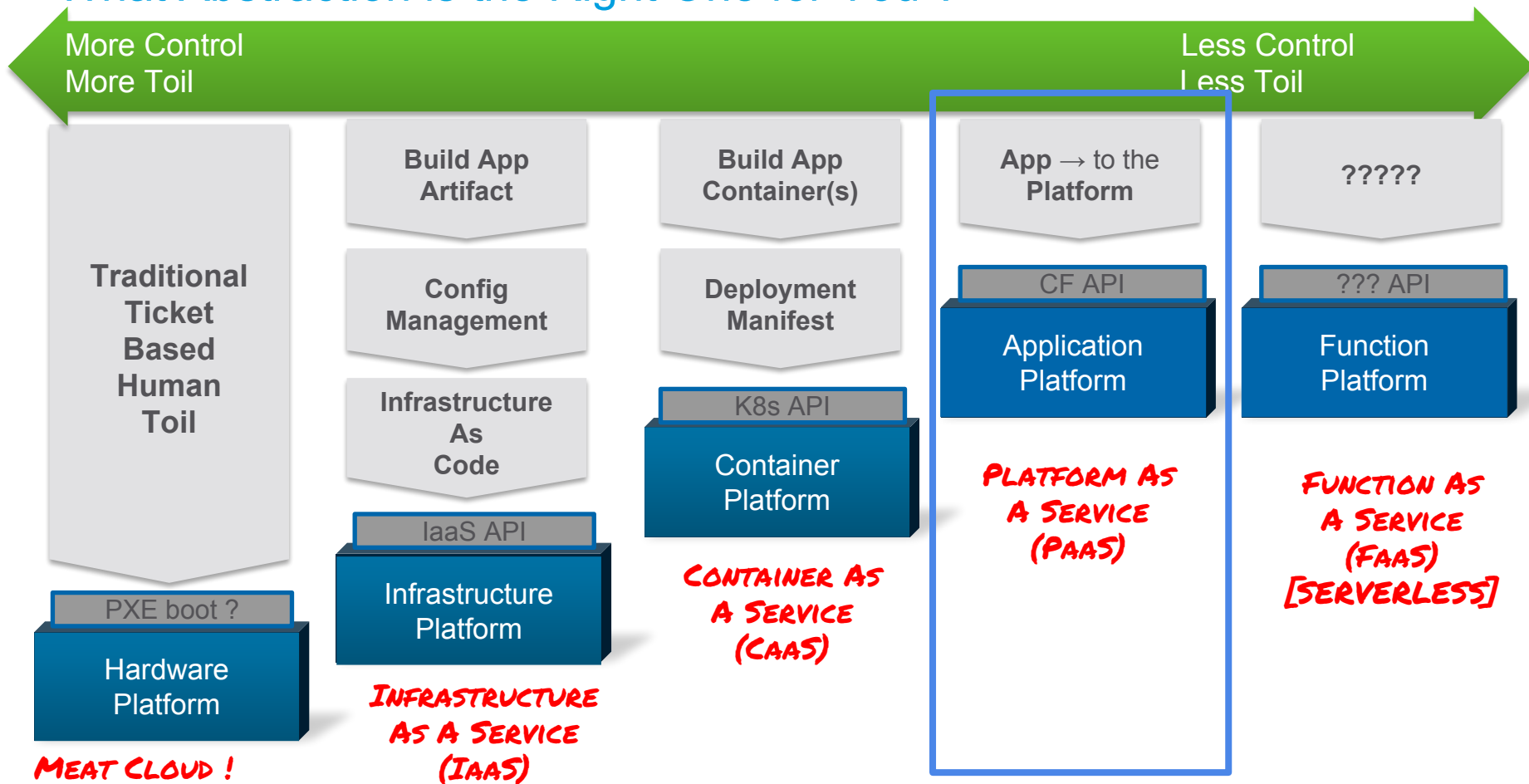
What Abstraction is the Right One for You ?



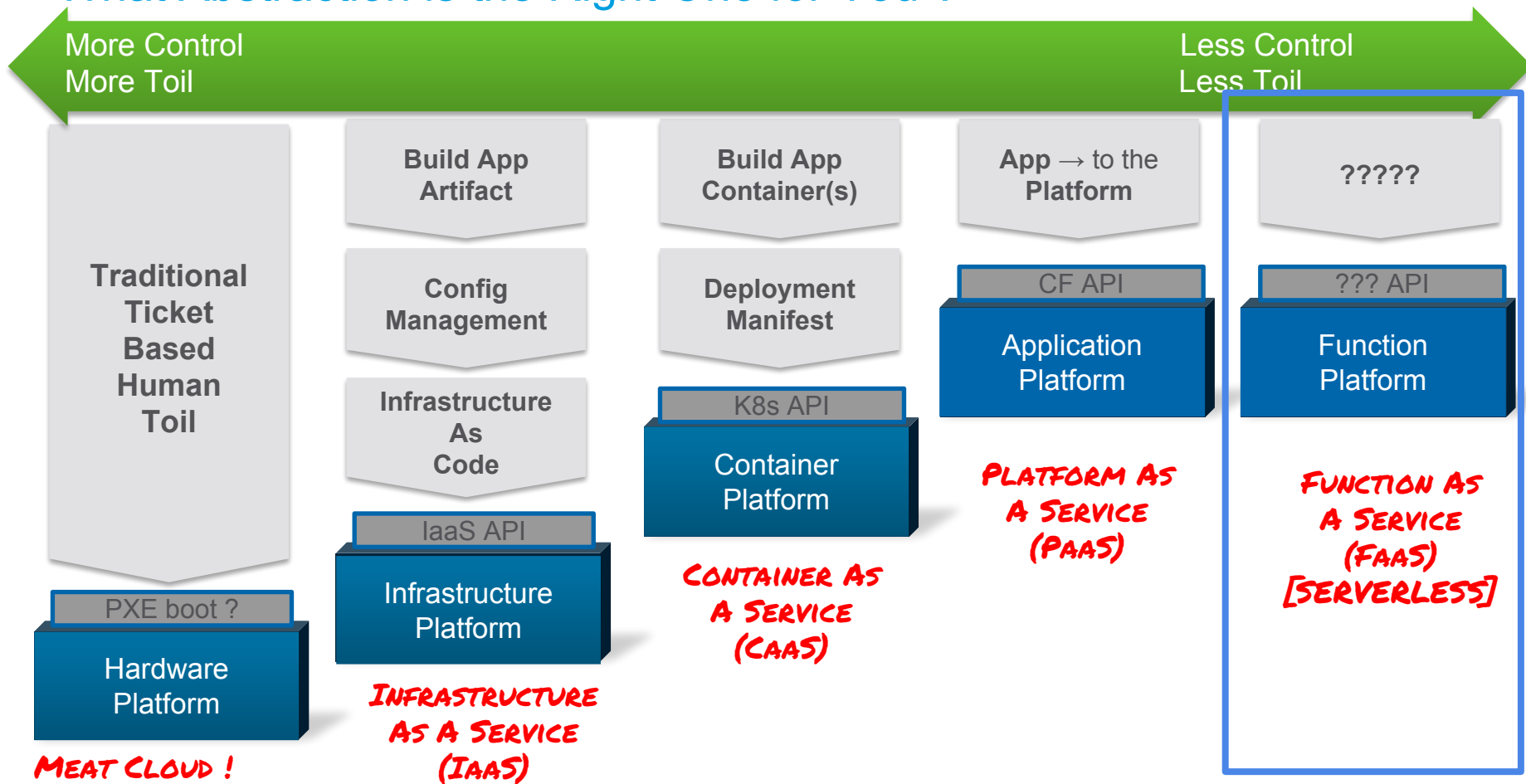
What Abstraction is the Right One for You ?



What Abstraction is the Right One for You ?



What Abstraction is the Right One for You ?





Onsi Fakhouri

@onsijoe

cf push haiku

here is my source code
run it on the cloud for me
i do not care how

2:18 PM - 12 May 2015

<https://twitter.com/onsijoe/status/598235841635360768>



Czarkernetes

@pczarkowski



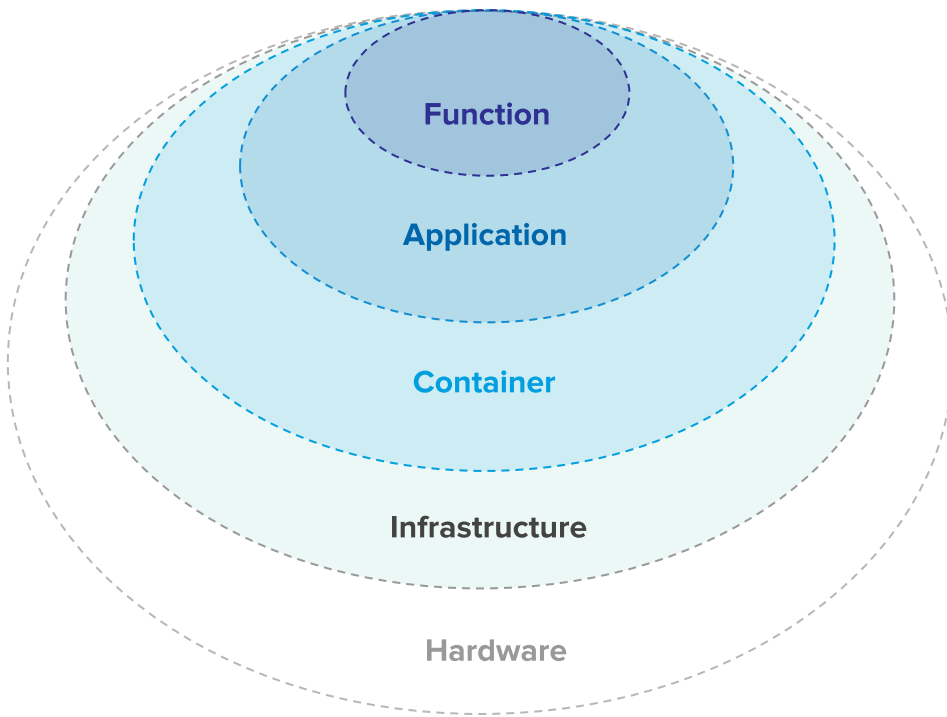
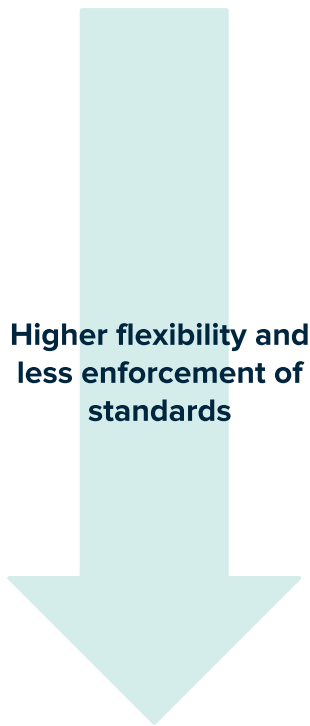
kubectl apply haiku^H^H^H^H^H^H Sonnet

Here is my source code
I built it into a container just now,
Please run it for me
This YAML will tell you how.

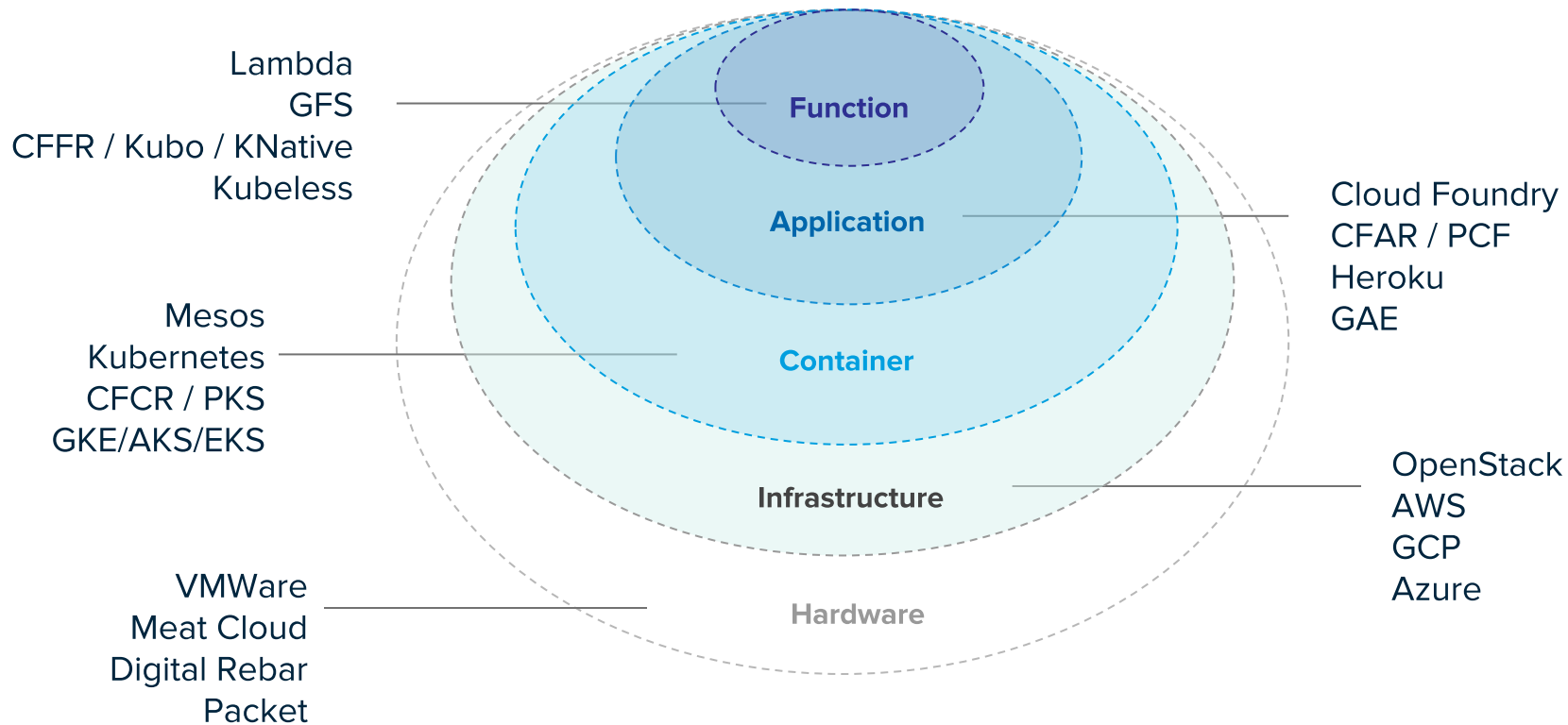
12:47 PM - 16 Feb 2018

Serverless Haiku

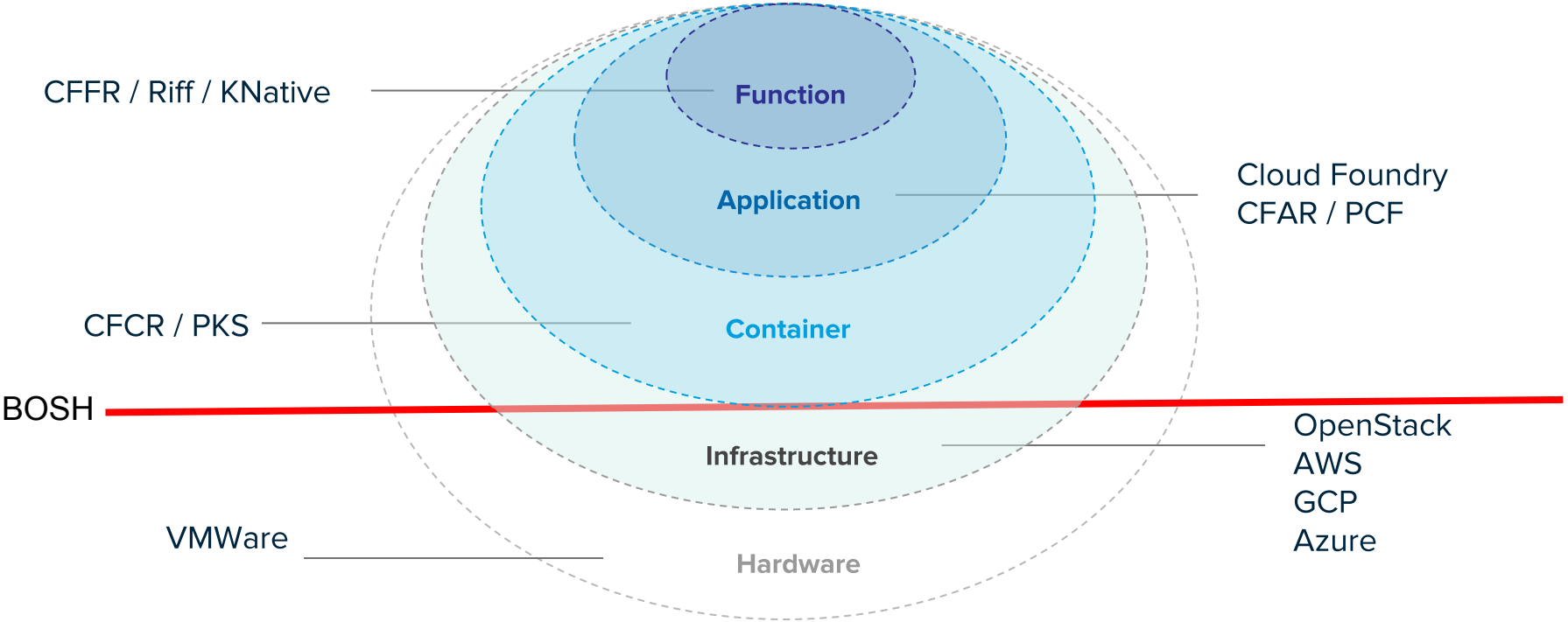
“Here is a Function
Run it every time you
receive an event.”



Platform Projects / Products



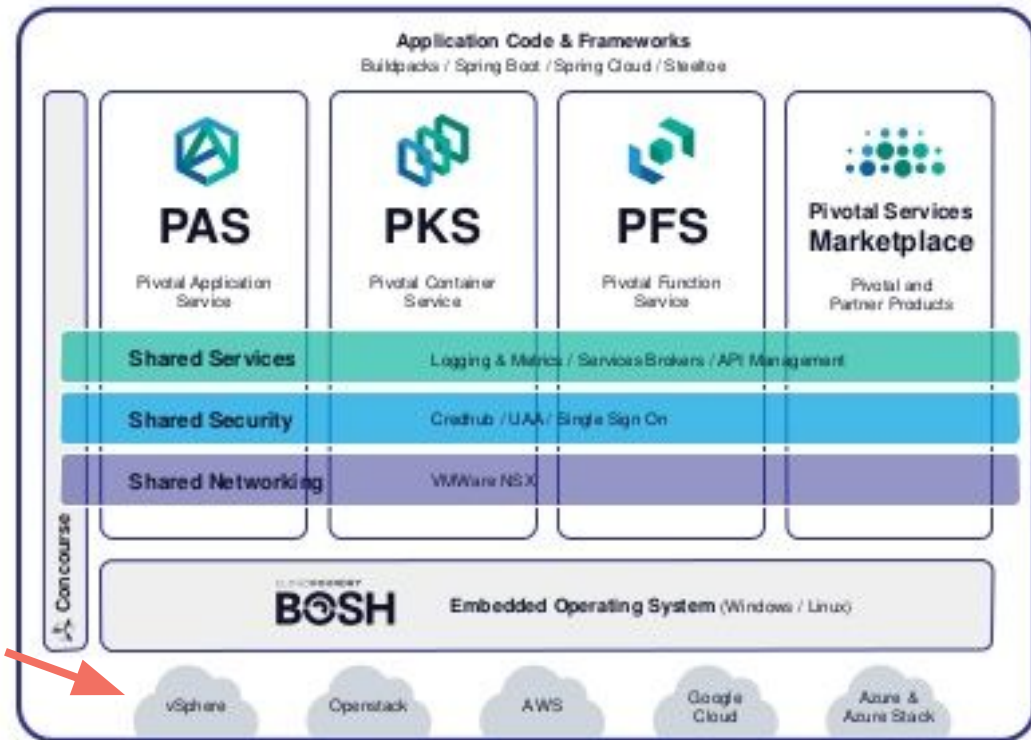
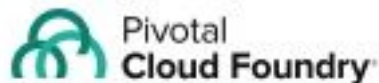
Platform Projects / Products



Any App Every Cloud One Platform

PCF 2.0 — for everything
that matters

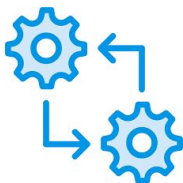
Pivotal



Pick the Right Runtime for Each Workload



Containers



Batches



Event-Driven Functions



Microservices



Data Services



Monolithic Applications

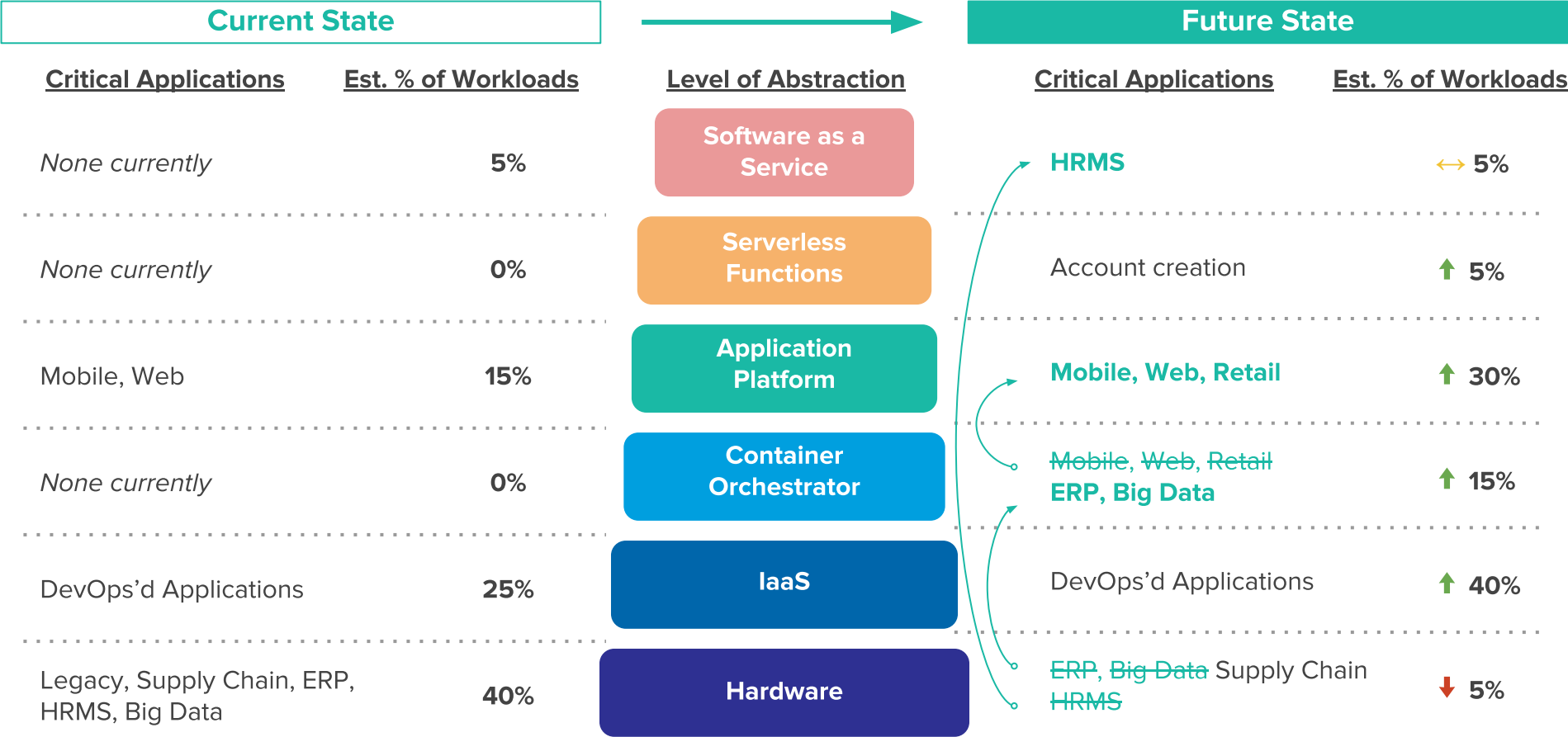
Container
Orchestrator (CaaS)

Application
Platform
(PaaS)

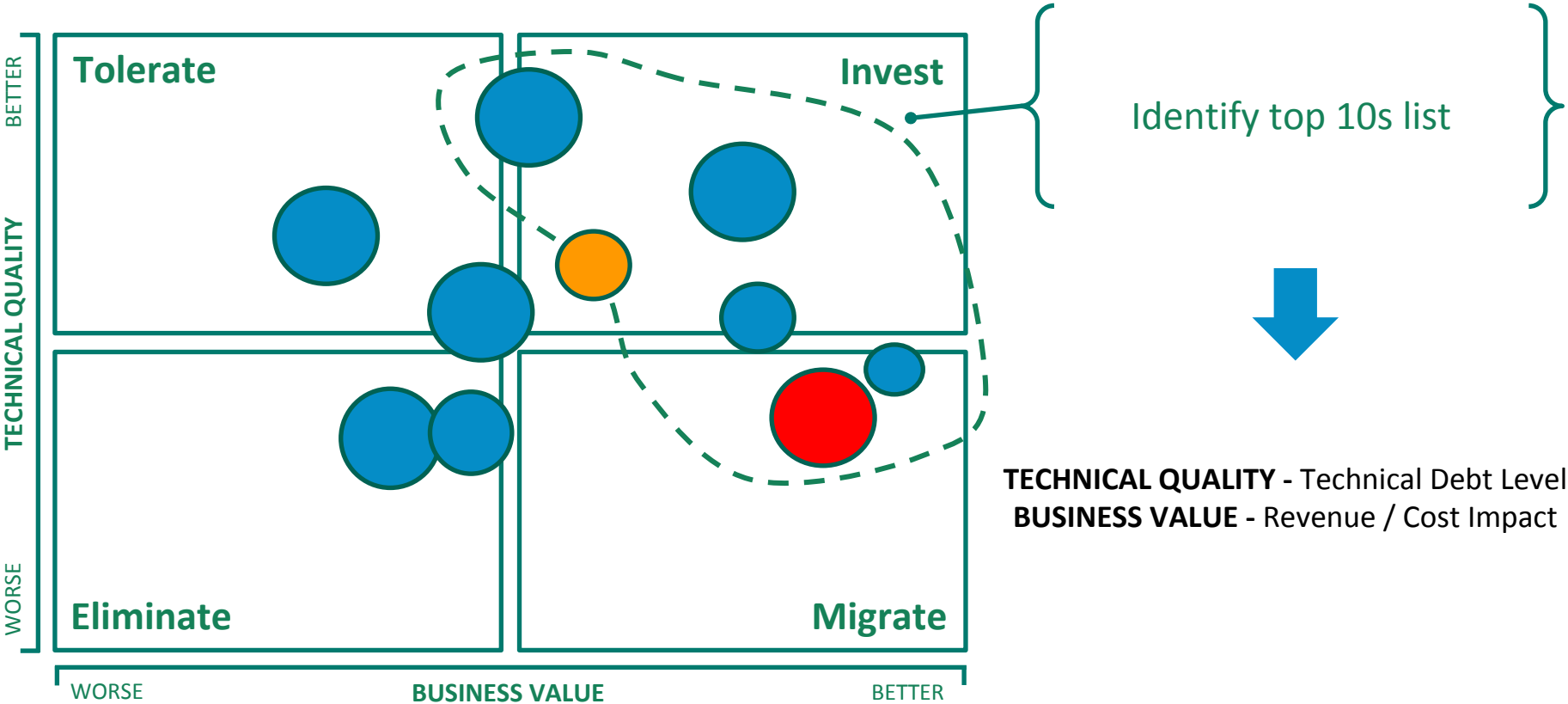
Serverless
Functions
(FaaS)

IaaS

Current State vs. Future State: Workloads



TIME Methodology

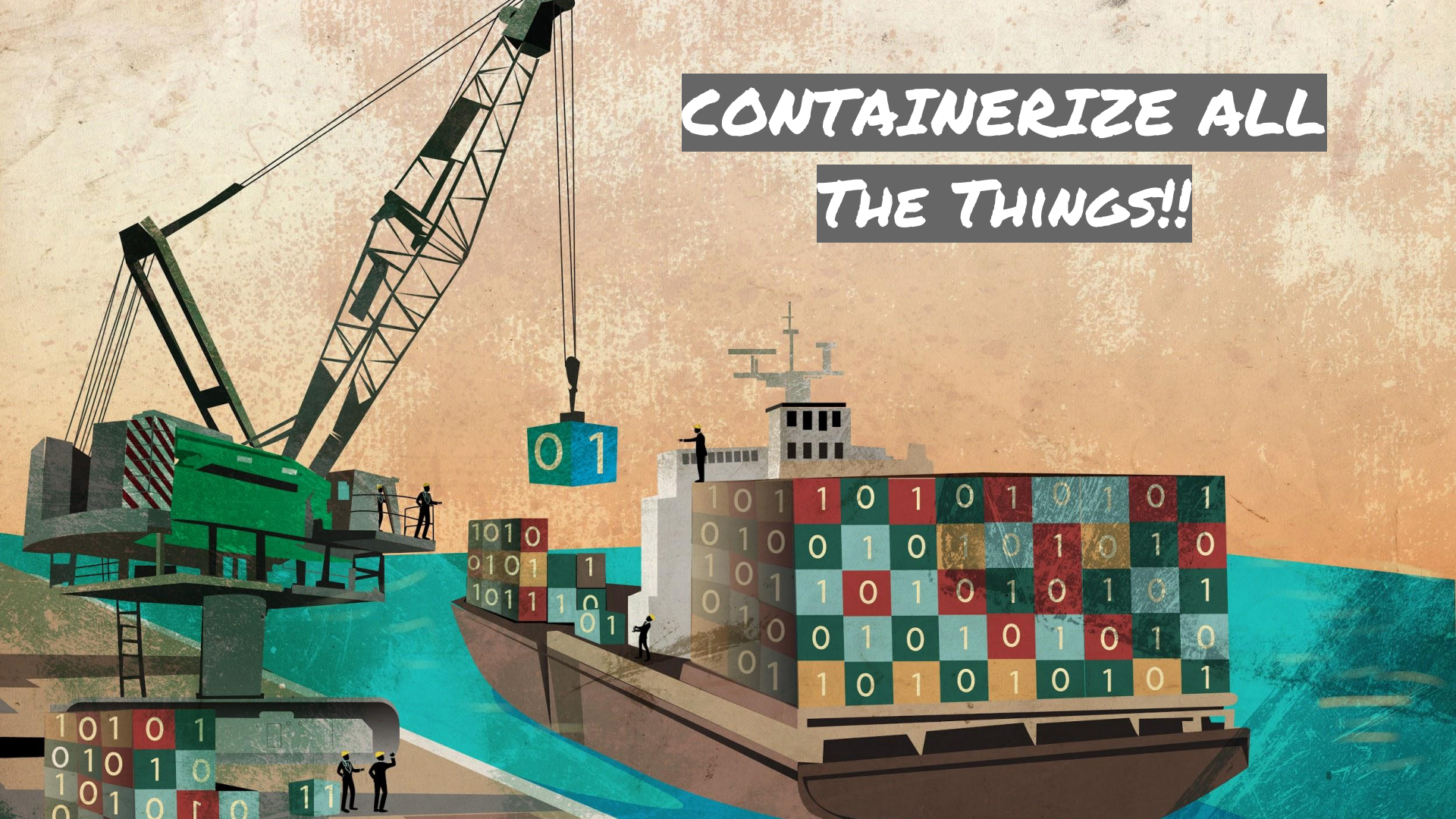


* Gartner's TIME methodology for Application Portfolio Rationalization

A group of people in a workshop setting. One person is standing and pointing at a wall covered in sticky notes. Several other people are sitting on stools, looking towards the speaker. The scene is dimly lit with a blue tint.

CaaS, PaaS, or FaaS
Nobody clouds for free.

CONTAINERIZE ALL
THE THINGS!!



Where to start ?

Levels of Abstraction

Best for:

Hardware

*Baremetal, VMWare,
mainframe apps, fragile
processes*

Where to start ?

Levels of Abstraction

Best for:

Software as
a Service

Software outside a company's core competency

Hardware

*Baremetal, VMWare,
mainframe apps, fragile
processes*

Where to start ?

Levels of Abstraction

Best for:

Software as
a Service

Software outside a company's core competency

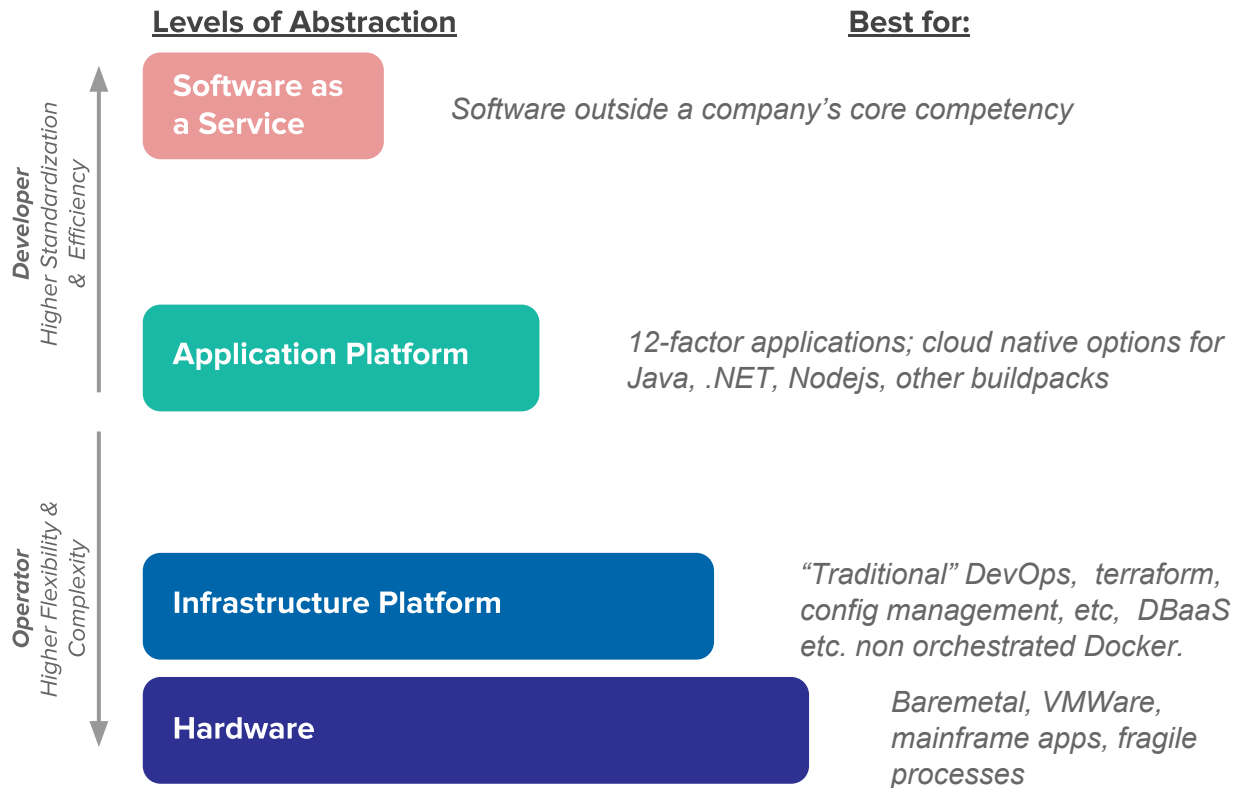
Application Platform

Infrastructure Platform

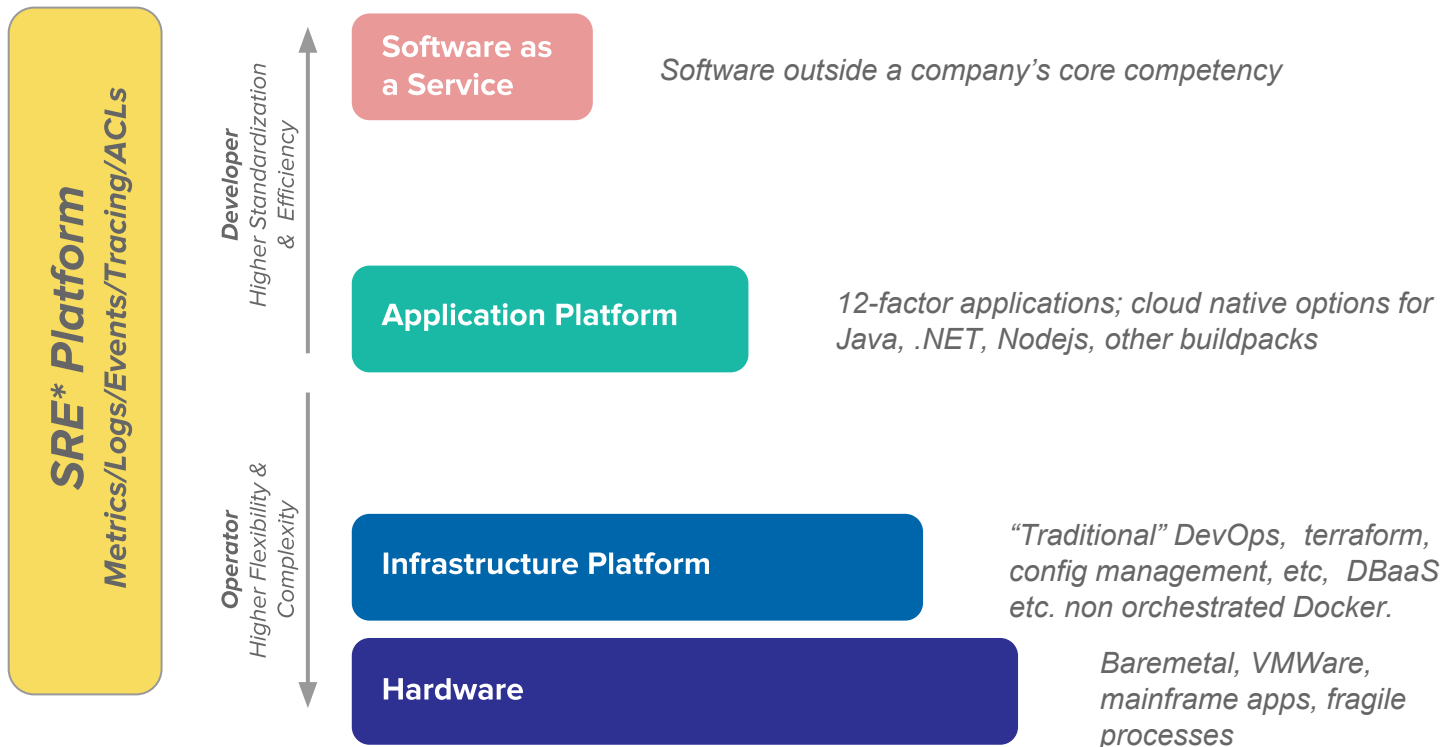
Hardware

*Baremetal, VMWare,
mainframe apps, fragile
processes*

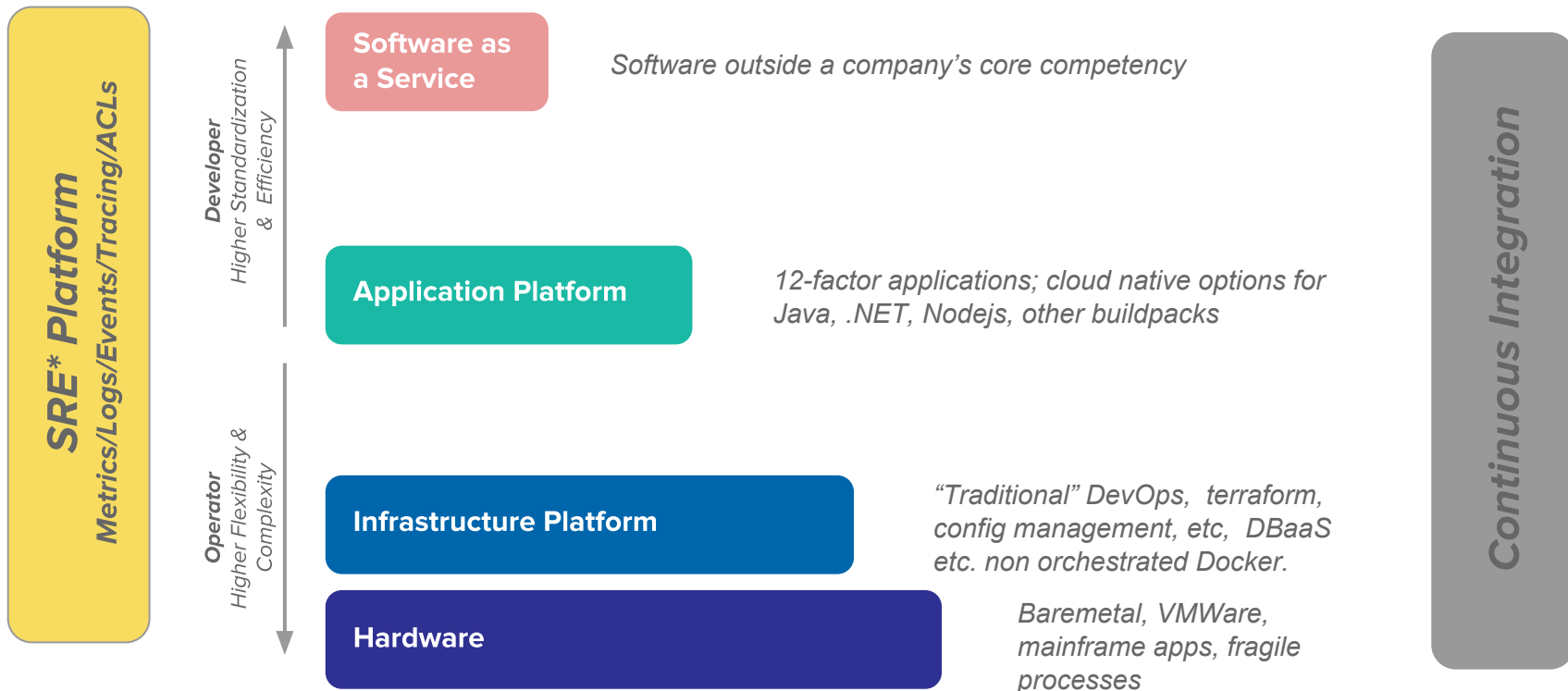
Where to start ?



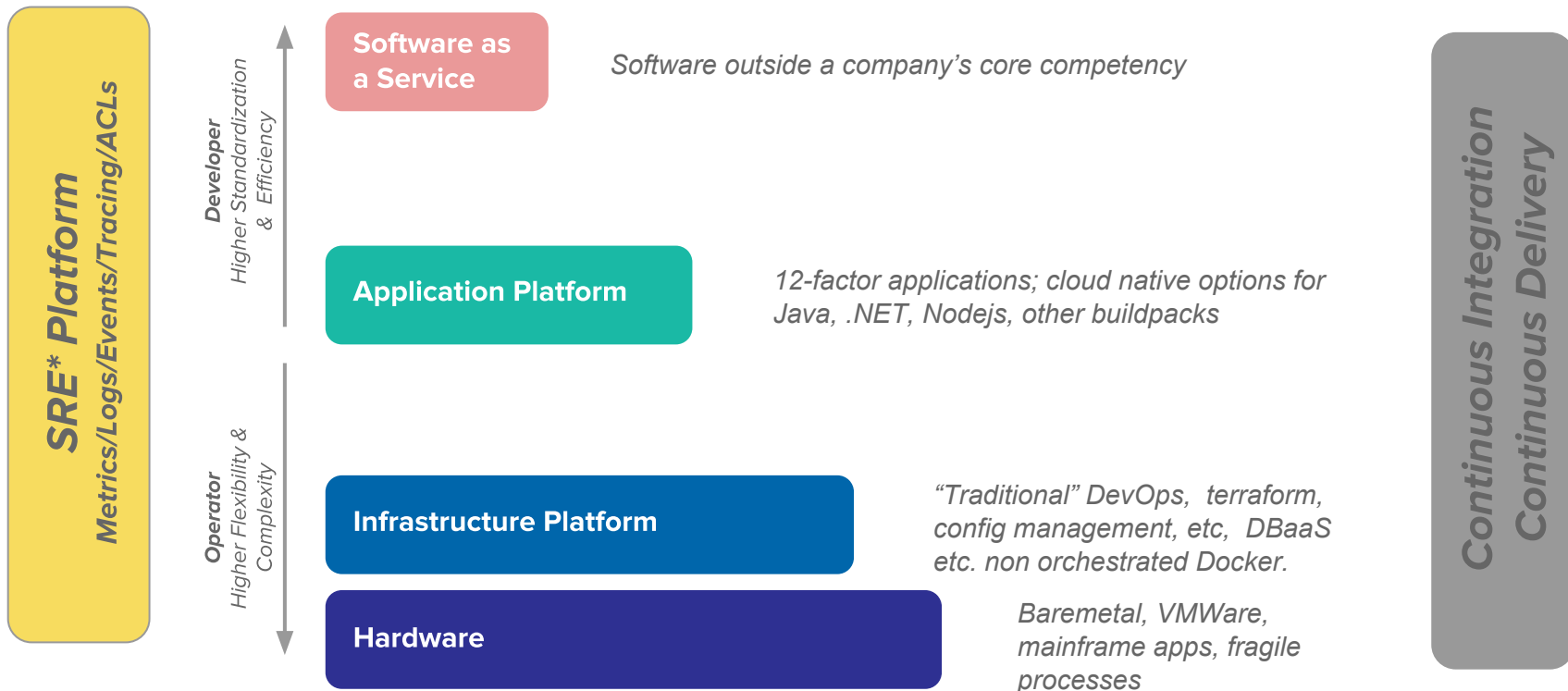
Where to start ?



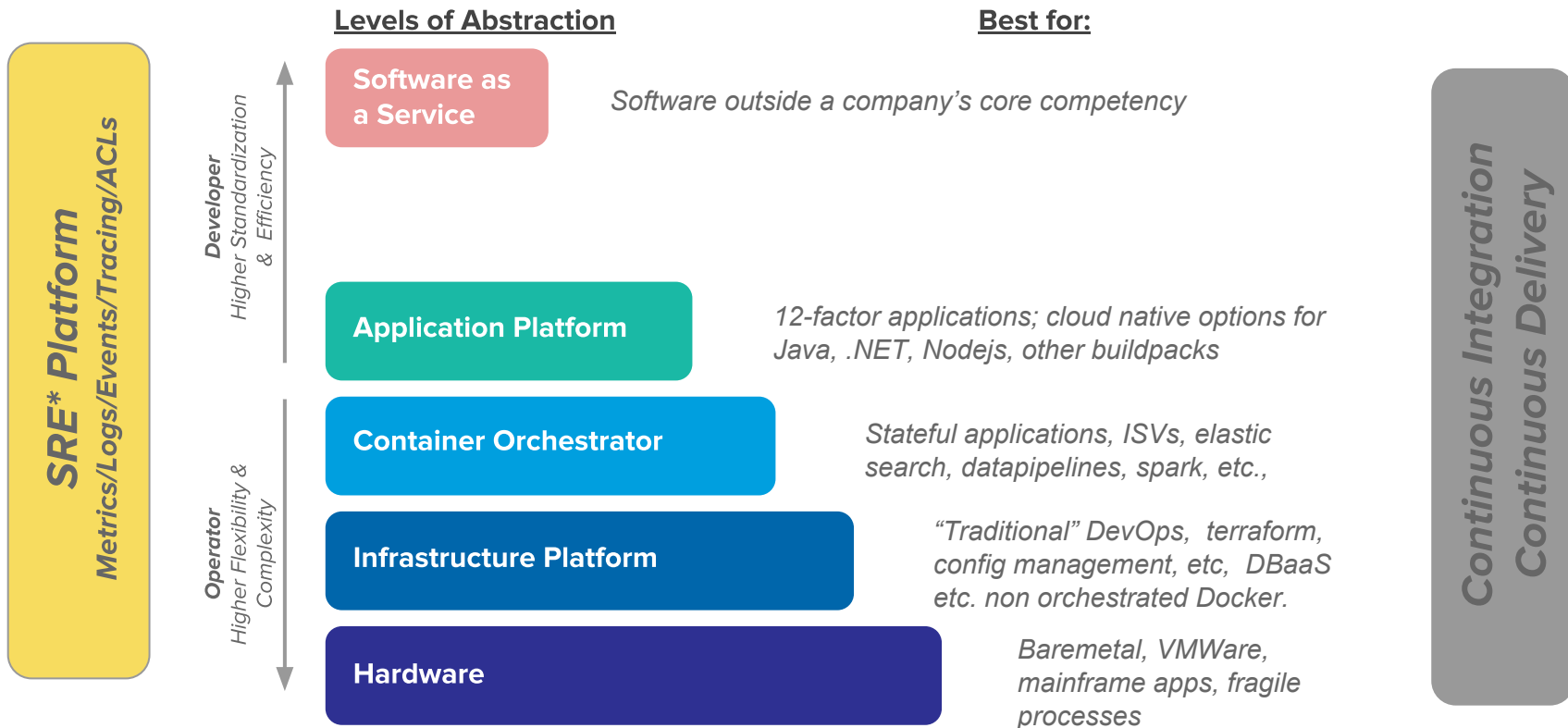
Where to start ?



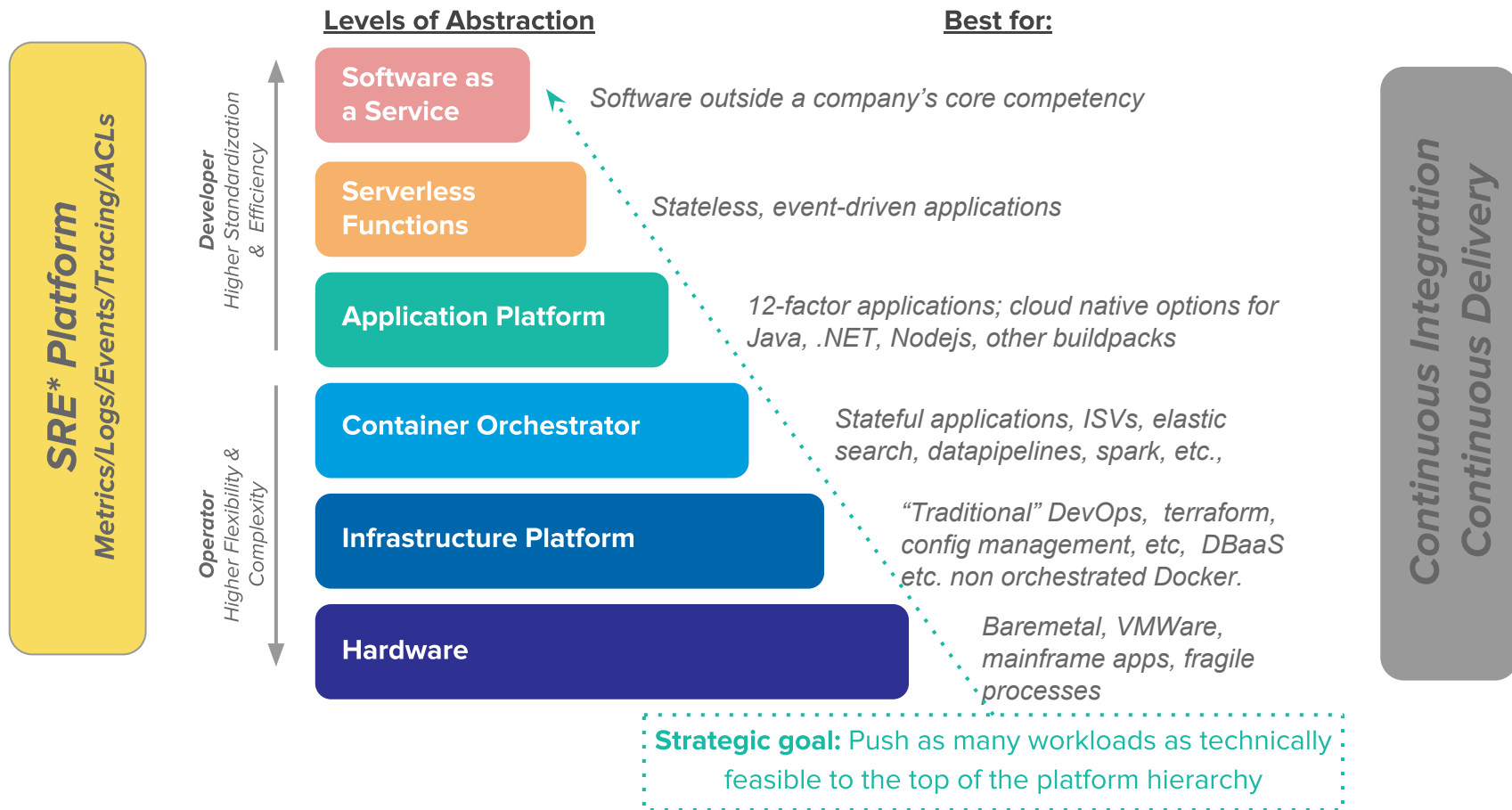
Where to start ?



Where to start ?



Selecting the Appropriate Level of Abstraction





A group of people in a workshop setting. A man on the left is pointing at a wall covered in sticky notes. A group of people are sitting on stools in the center, listening. A man on the right is standing with his arms crossed, also listening. The scene is dimly lit with a blue tint.

Transform your digits.

A person with glasses and a dark shirt is sitting at a table, gesturing with their hands while speaking. They are surrounded by other people whose backs are to the camera. The scene is dimly lit, with a blue tint.

**“respondents that do most of their work on a
PaaS are 1.5 times more
likely to be in the elite performance group”**

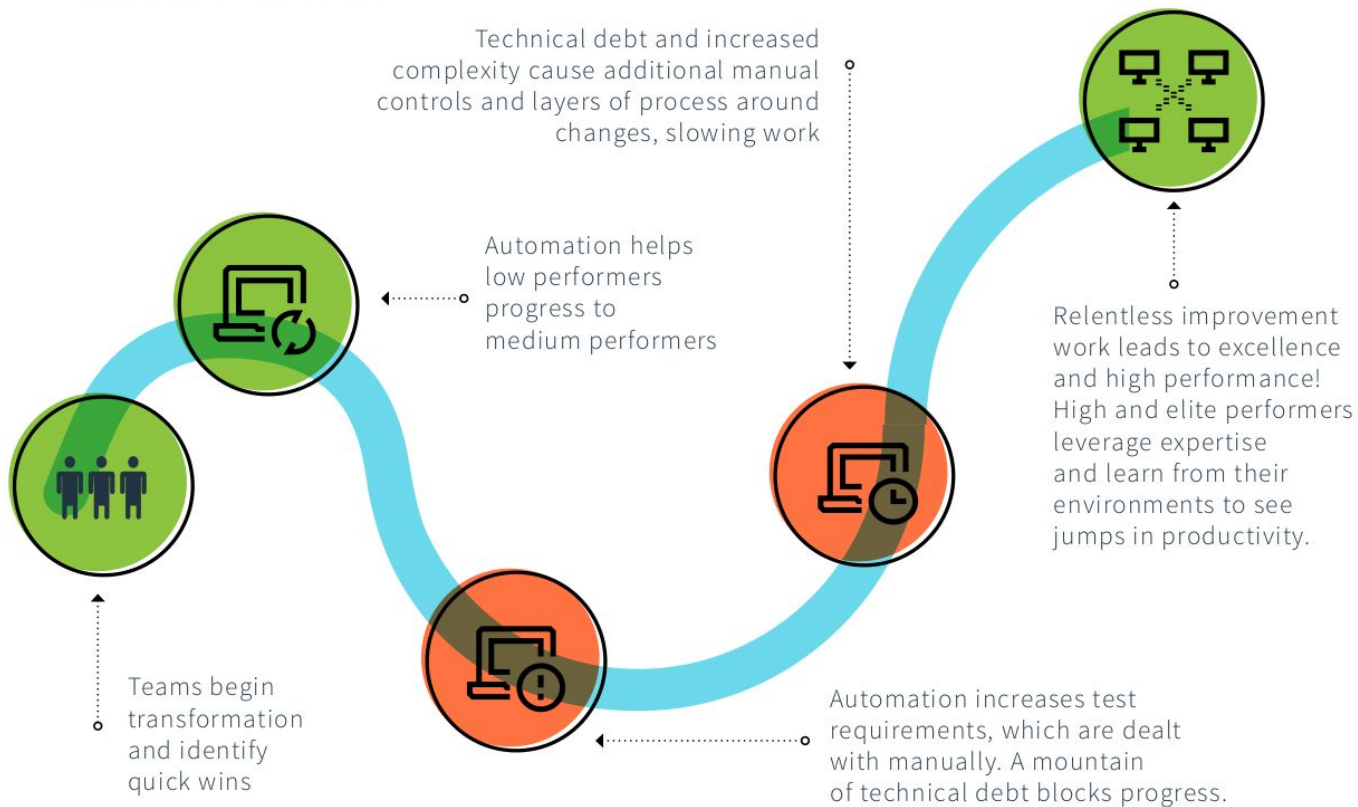
<https://cloudplatformonline.com/2018-state-of-devops.html>

*What's in the
box?*

*Digital
transformation.*

<https://youtu.be/qvdt8uRf8RY>

J-CURVE OF TRANSFORMATION



<https://cloudplatformonline.com/2018-state-of-devops.html>

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online

YOUR
FUTURE
DEPENDS
ON WHAT
YOU DO

Today

make it
COUNT!

GOALS:

start studying!
start studying!
studying!

SPAANS

7 8 9
woordenchat &
merkwoorden

ECONOMIE

→ steel:
1 2
theorie in praktijk
omzetten

log:

We are focused on **Agility**, **User Experience**, **Quality** and **Developer Productivity**

Agility



Business-led Agile enabled flexibility to support changes while ensuring minimal rework & wastage

User Experience



Placing **Usability** at the Core

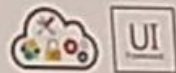
- Discovery
- Prototype
- User Research
- Synthesis
- Design

Quality Maintainability



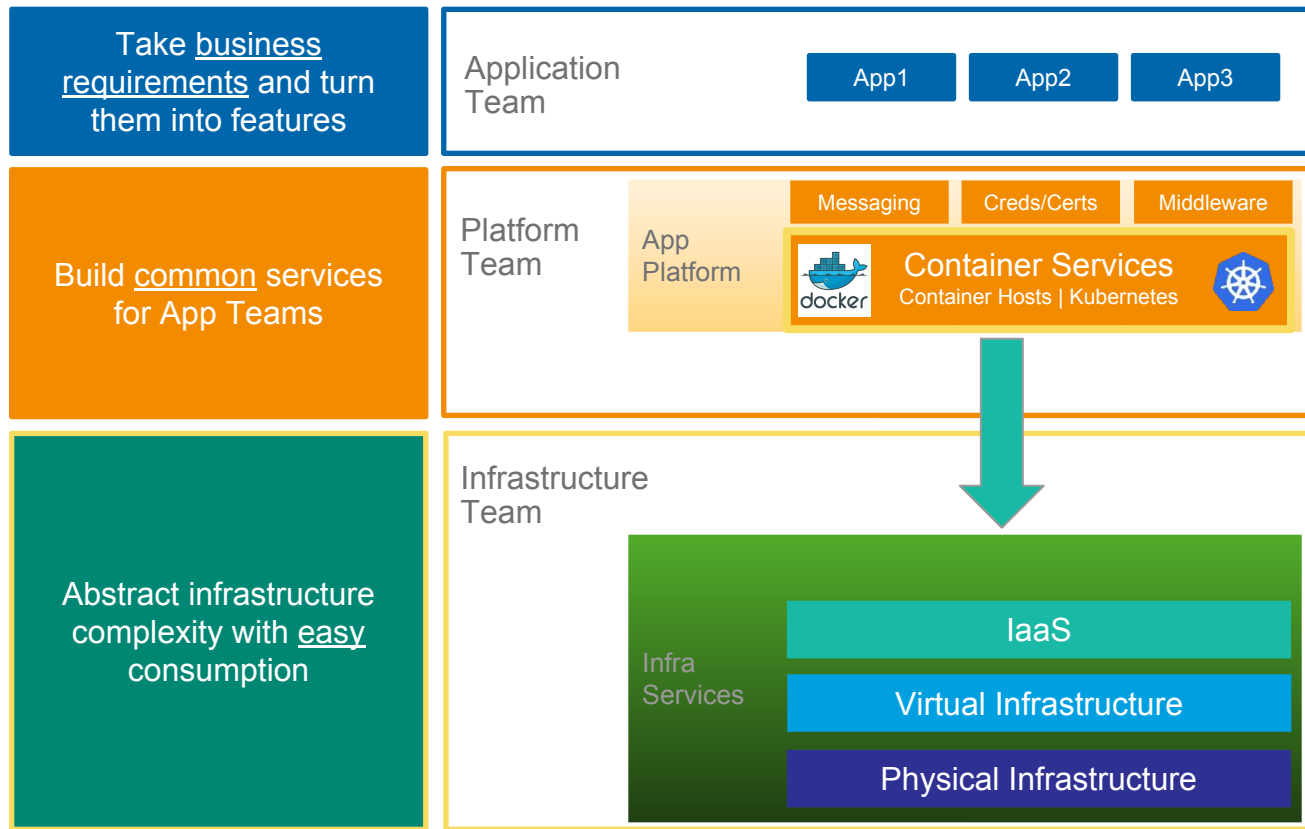
Quality, security & controls systematically enforced through automation

Developer Productivity



Leverage of **PaaS & Frameworks** enables developers to focus on business features

Change!!!



We started our Digital Transformation journey 4 years ago



2015

INSOURCING

Acquire Deep Technical Talent
+
Re-skill



2016

RE-ARCHITECT (POC)

Cloud Computing
+
Platform-as-a-Service
+
Big Data, Machine Learning

CULTURE

Agile Transformation
+
Customer Journey/ Client Experience

Through

Talent [Acquire + Re-skill with
Pivotal Labs

+
Culture [Remove Barrier +
Reorganisation]



2017

RE-ARCHITECT @ SCALE

Acquire
+
Re-skill
+
Remove Barriers
+
Giving Back

Through

Pivotal, [Cloudera, Amazon
Web Services, CapGemini/ IBM/
Infosys]

+
Conferences (e.g. ASiCloud),
Meetups, Mentoring Startups,
BootCamps, Pair Programming

+
Hack2Hire

+
Mission Zero



2018

PLATFORM ORGANISATION

Business & Technology
+
Industry Tech Partners

Through

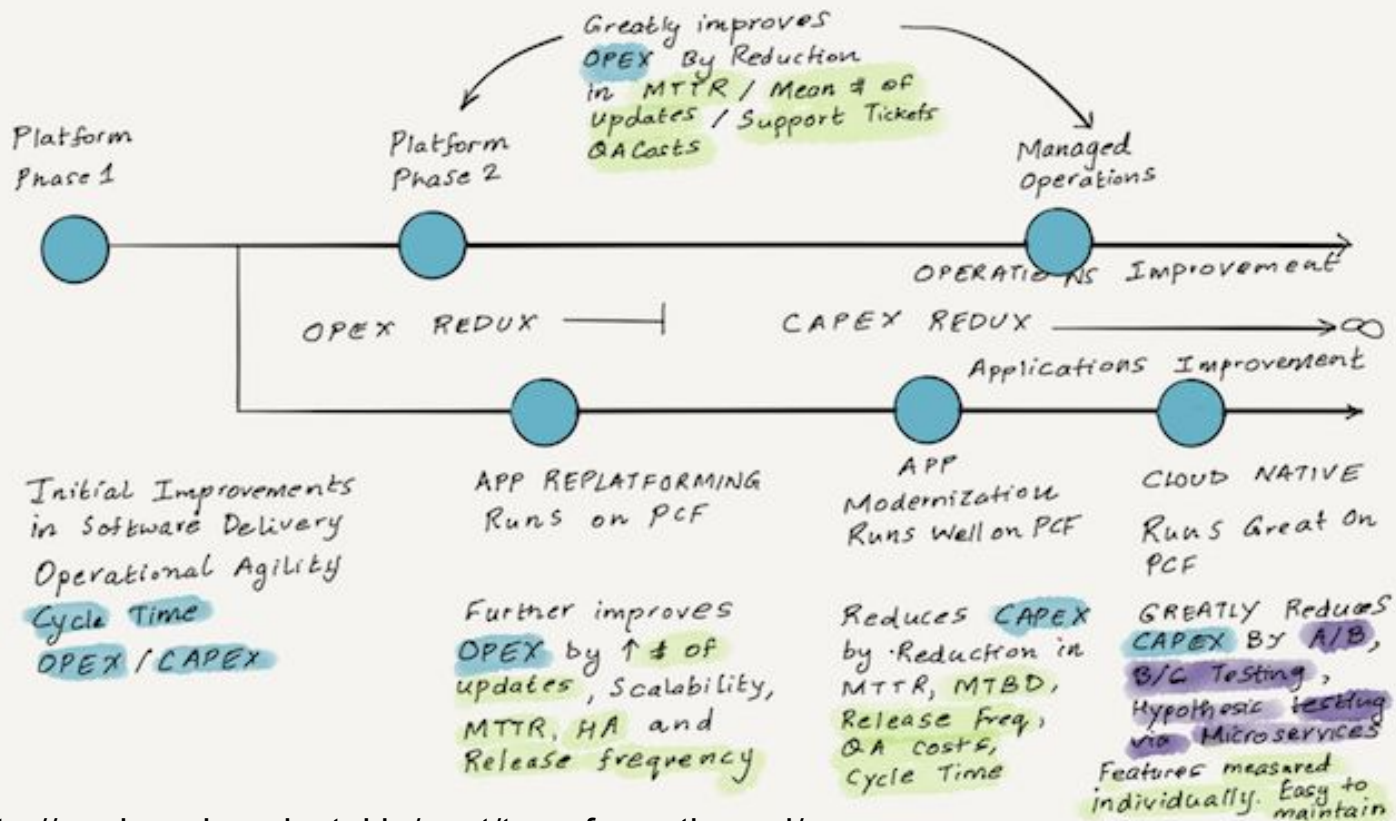
36 Platforms across Business &
Technology

+
Strategic partnerships in key
technology areas:

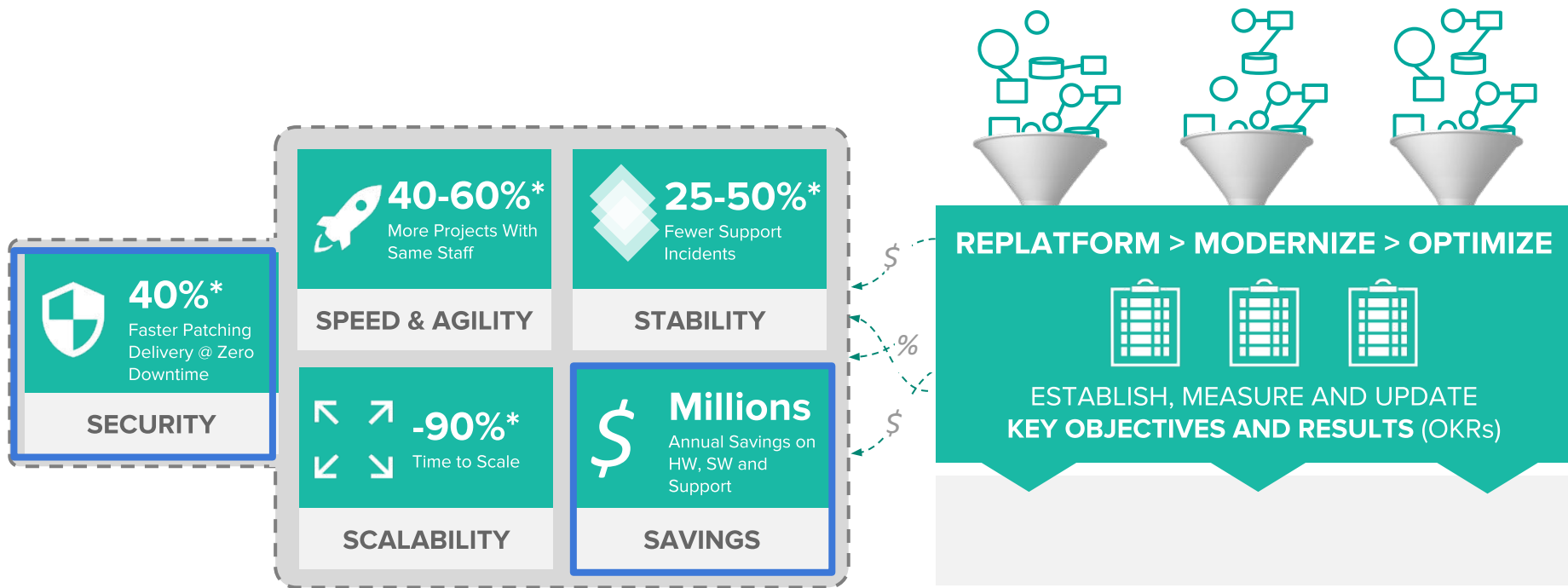
• **Cloud Native (Pivotal)**

• **BigData/Machine Learning** [Cloudera,
Alibaba, Kaggle]

CLOUD NATIVE ROI CONTINUUM



How We Think about the Business Case



PLATFORM VALUE STREAM AND METRICS

The background of the slide is a teal-colored image of the Golden Gate Bridge, viewed from a low angle looking up at the tower and the bridge deck stretching into the distance.

Pivotal®

Transforming How The World Builds Software

Paul Czarkowski - @pczarkowski

Thank You All Day DevOps Supporters





Meet me in the Slack channel for Q&A

bit.ly/addo-slack

#2018addo-cultrans