

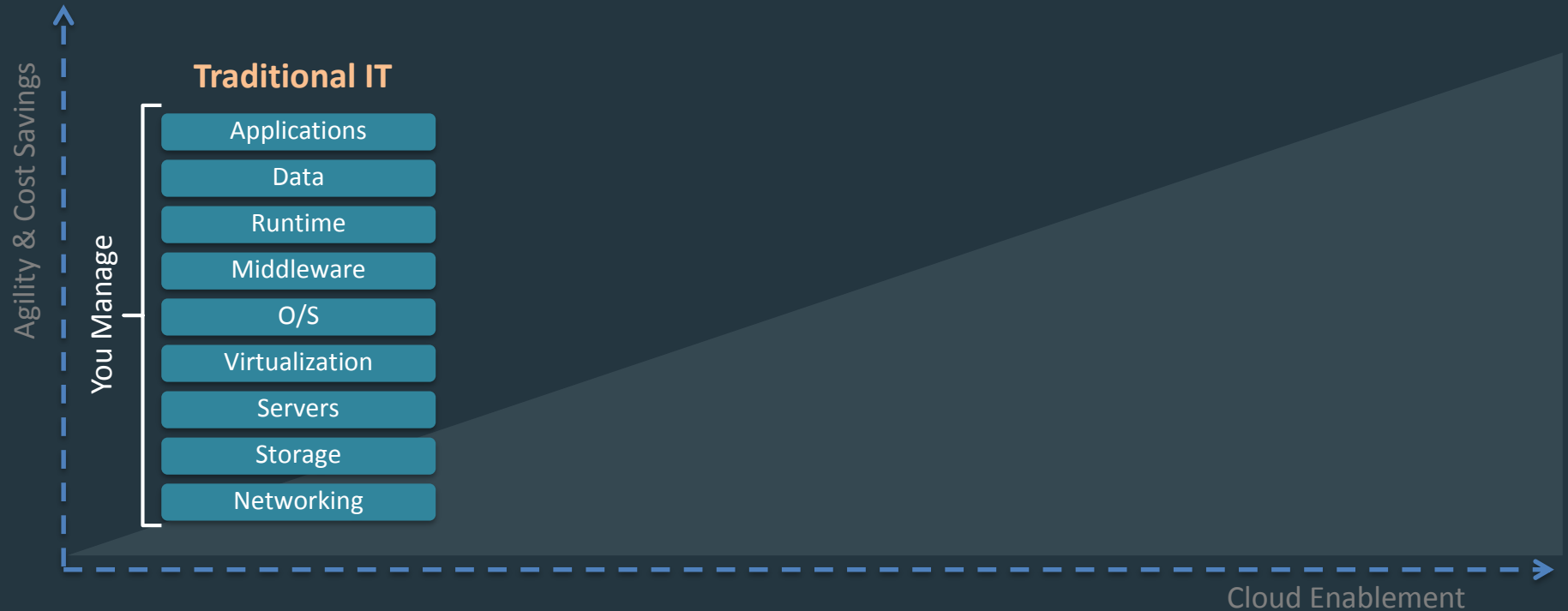
Pivotal Cloud Foundry

An Introduction

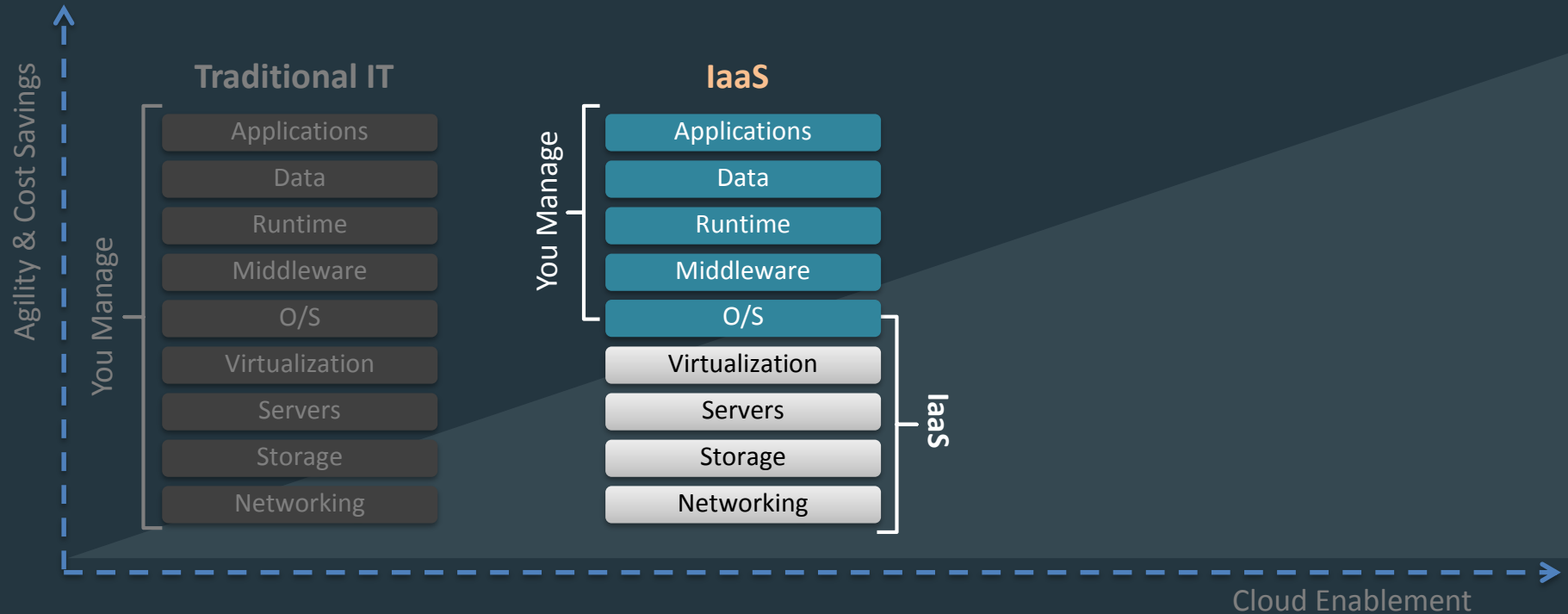
Agenda

1. Evolution of Cloud Architectures
2. Industry Trends
3. Cloud Foundry
4. Pivotal Cloud Foundry

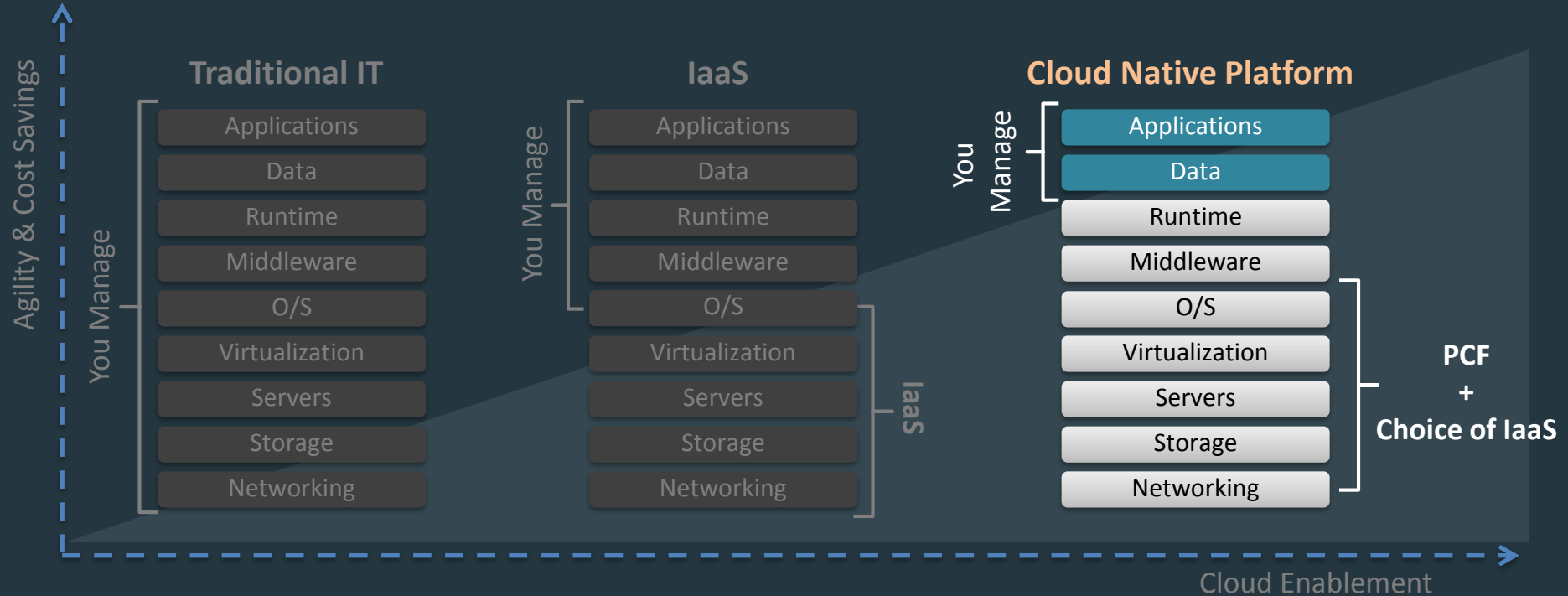
The Power of the Platform



The Power of the Platform



The Power of the Platform



Deploying an Application

IaaS

Pivotal Cloud Foundry

Deploying an Application

IaaS

- Provision a VM

Pivotal Cloud Foundry

Deploying an Application

IaaS

- Install Application Runtime
- Provision a VM

Pivotal Cloud Foundry

Deploying an Application

IaaS

- Deploy Application
- Install Application Runtime
- Provision a VM

Pivotal Cloud Foundry

Deploying an Application

IaaS

- Configure Load Balancer
- Deploy Application
- Install Application Runtime
- Provision a VM

Pivotal Cloud Foundry

Deploying an Application

IaaS

- Configure SSL Termination
- Configure Load Balancer
- Deploy Application
- Install Application Runtime
- Provision a VM

Pivotal Cloud Foundry

Deploying an Application

IaaS

- Configure Service Connectivity
- Configure SSL Termination
- Configure Load Balancer
- Deploy Application
- Install Application Runtime
- Provision a VM

Pivotal Cloud Foundry

Deploying an Application

IaaS

- Configure Firewall
- Configure Service Connectivity
- Configure SSL Termination
- Configure Load Balancer
- Deploy Application
- Install Application Runtime
- Provision a VM

Pivotal Cloud Foundry

Deploying an Application

IaaS

- Configure Firewall
- Configure Service Connectivity
- Configure SSL Termination
- Configure Load Balancer
- Deploy Application
- Install Application Runtime
- Provision a VM

Pivotal Cloud Foundry


- `cf push`

Deploying an Application

IaaS

- Configure Firewall
- Configure Service Connectivity
- Configure SSL Termination
- Configure Load Balancer
- Deploy Application
- Install Application Runtime
- Provision a VM

Pivotal Cloud Foundry



Common application needs are handled by the platform, so you can focus on business value.

Scaling an Application

IaaS

Pivotal Cloud Foundry

Scaling an Application

IaaS

- Provision a VM

Pivotal Cloud Foundry

Scaling an Application

IaaS

- Install Application Runtime
- Provision a VM

Pivotal Cloud Foundry

Scaling an Application

IaaS

- Deploy Application
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Pivotal Cloud Foundry

Scaling an Application

IaaS

- Configure Load Balancer
- Deploy Application
- Install Application Runtime
- Provision a VM

Pivotal Cloud Foundry

Scaling an Application

IaaS

- Configure Service Connectivity
- Configure Load Balancer
- Deploy Application
- Install Application Runtime
- Provision a VM

Pivotal Cloud Foundry

Scaling an Application

IaaS

- **Configure Firewall**
- Configure Service Connectivity
- Configure Load Balancer
- Deploy Application
- Install Application Runtime
- Provision a VM

Pivotal Cloud Foundry

Scaling an Application

IaaS

- Configure Firewall
- Configure Service Connectivity
- Configure Load Balancer
- Deploy Application
- Install Application Runtime
- Provision a VM

Pivotal Cloud Foundry

- `cf scale`

Agenda

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Software is Disrupting Every Industry

Silicon Valley is coming.

Jamie Dimon

CEO, JPMorgan Chase

Source: JPMorgan Chase Annual Shareholder Letter 2015

Software is Changing Industries



NETFLIX



Mobile Trends in the Enterprise



2013

20% of enterprise
apps are mobile

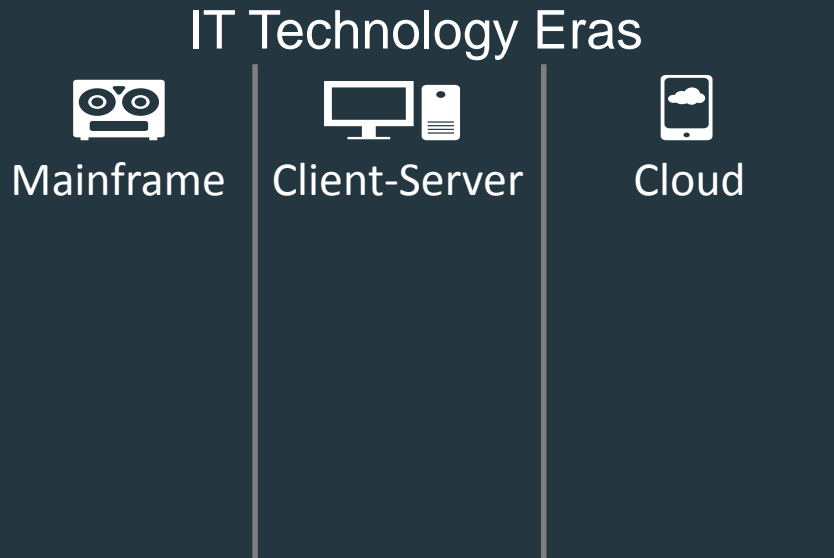


2017

90% of enterprise
apps will be desktop
and mobile

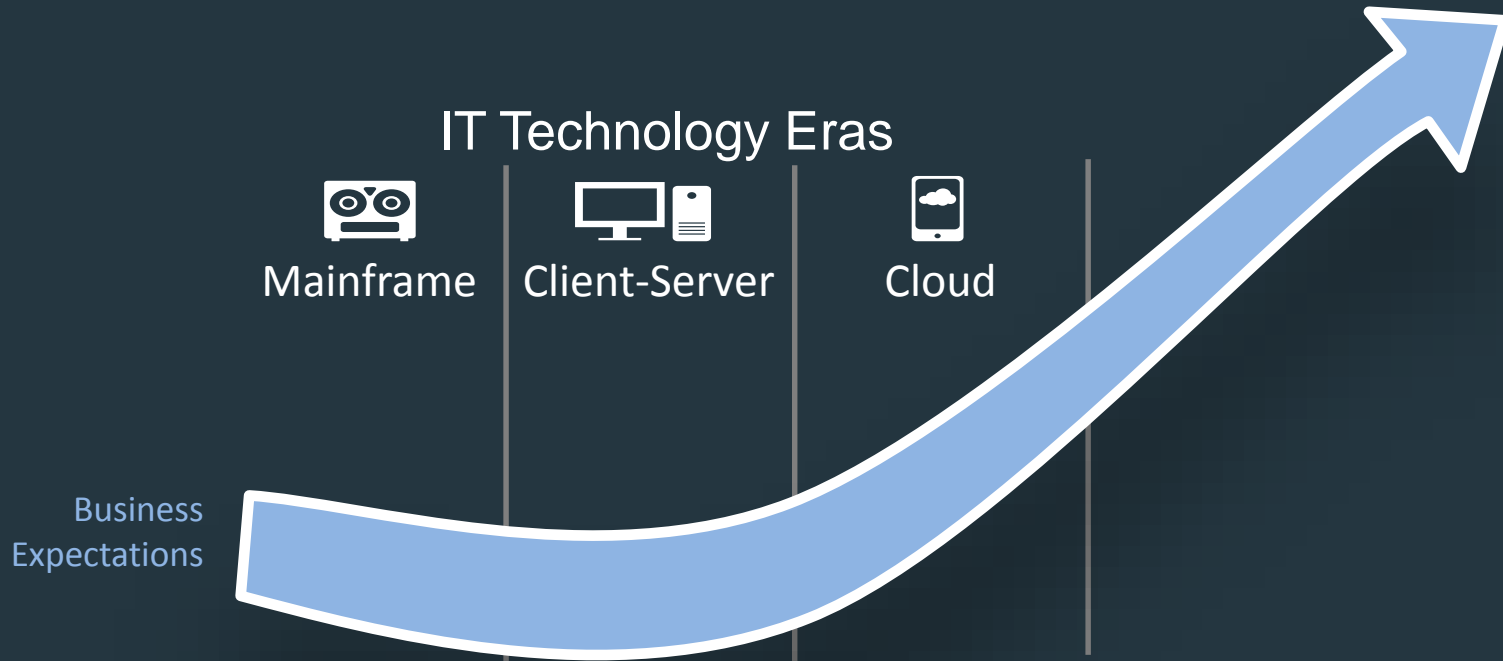
Source: Gartner predicts

Business Needs Exceed IT Expectations



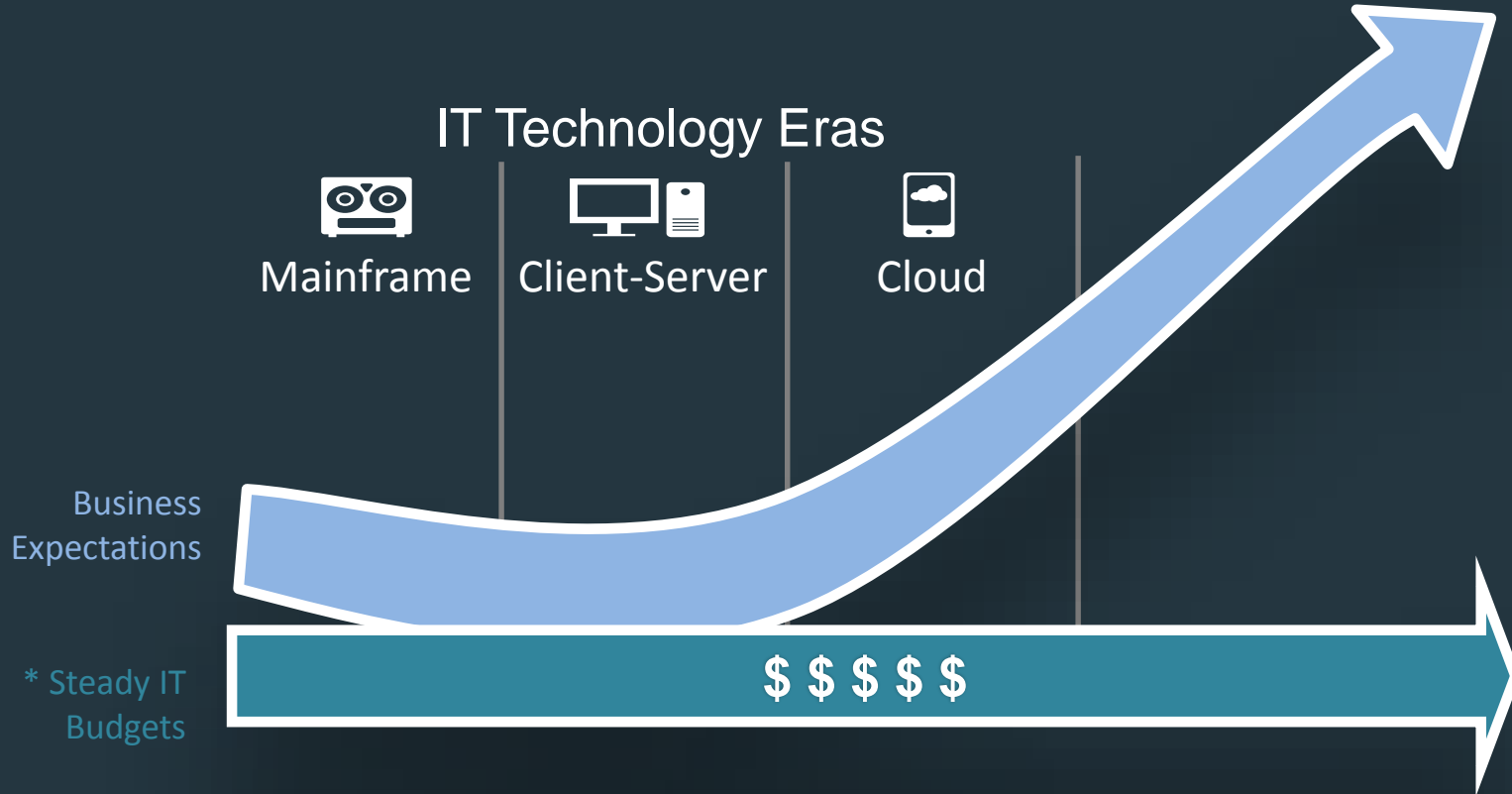
Source: Gartner, 2013: “Hunting and Harvesting in a Digital World: The 2013 CIO Agenda”

Business Needs Exceed IT Expectations



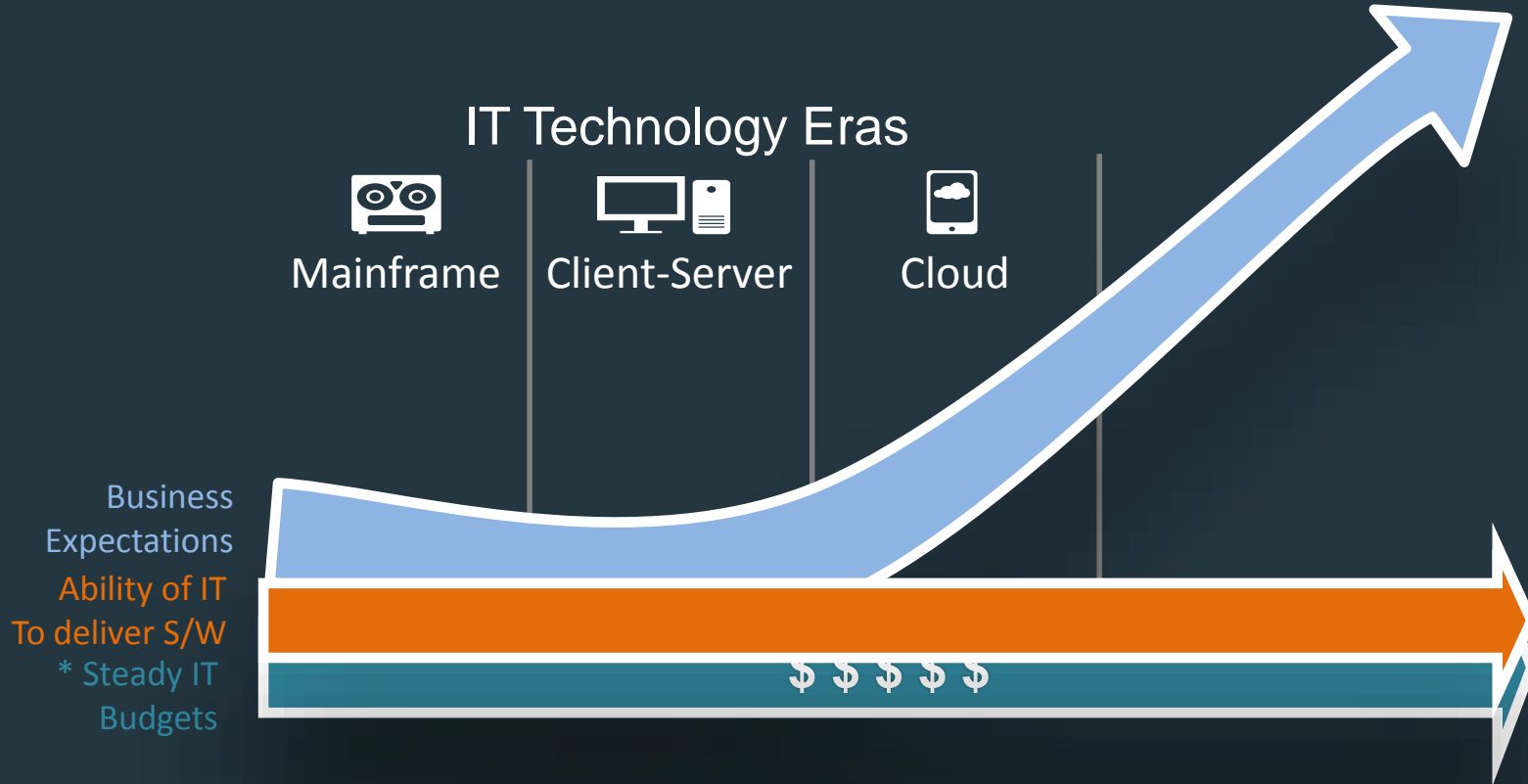
Source: Gartner, 2013: "Hunting and Harvesting in a Digital World: The 2013 CIO Agenda"

Business Needs Exceed IT Expectations



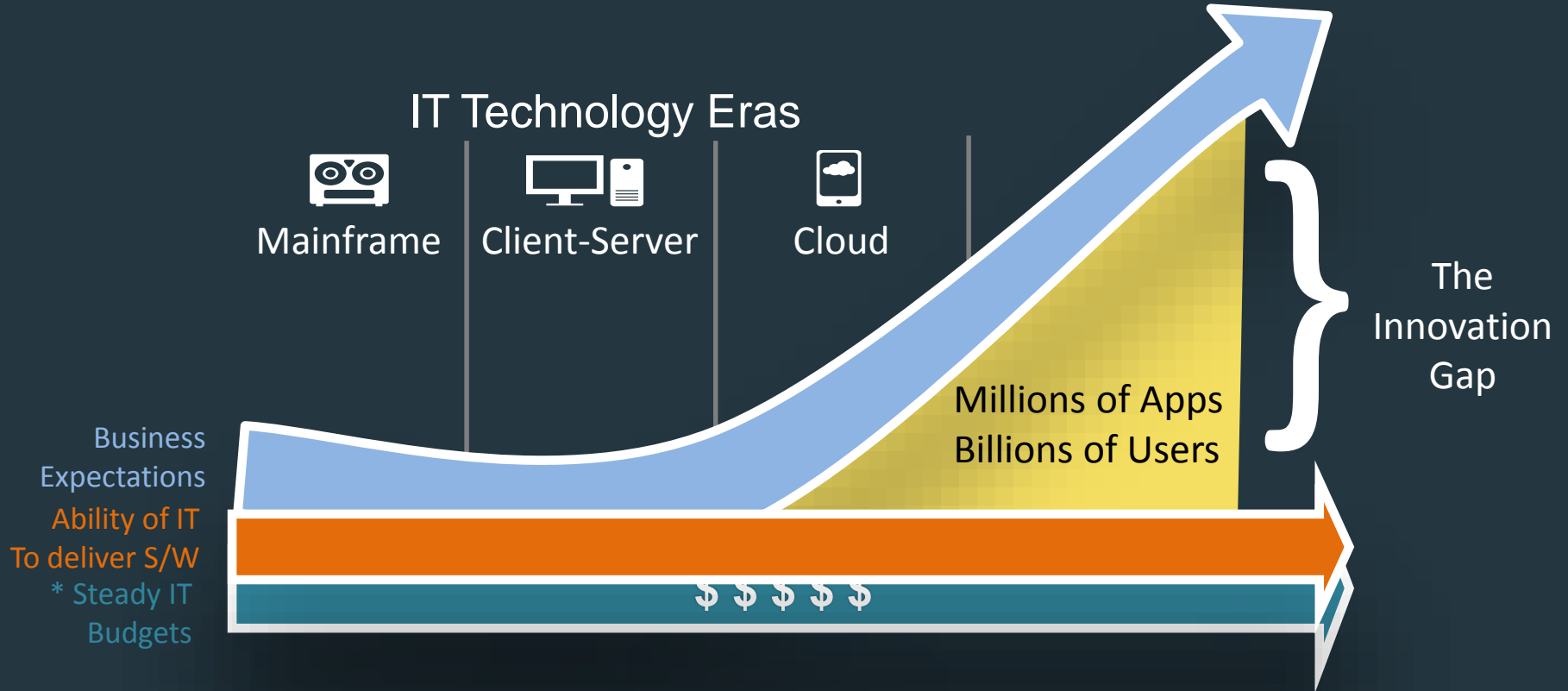
Source: Gartner, 2013: "Hunting and Harvesting in a Digital World: The 2013 CIO Agenda"

Business Needs Exceed IT Expectations



Source: Gartner, 2013: "Hunting and Harvesting in a Digital World: The 2013 CIO Agenda"

Business Needs Exceed IT Expectations



Source: Gartner, 2013: "Hunting and Harvesting in a Digital World: The 2013 CIO Agenda"

Software Continues to be Constrained by Silos

Yesterday



ORACLE



Windows
Server

Software Continues to be Constrained by Silos

Yesterday



Today



Google Cloud Platform



Microsoft Azure

Agenda

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Cloud Foundry



CLOUD FOUNDRY
COMMUNITY

Cloud Foundry Foundation

PLATINUM



GOLD



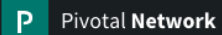
SILVER



Agenda

1. Evolution of Cloud Architectures
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Pivotal Network

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**PCF Ops Manager**

admin ▾

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No upgrades available

Pivotal Elastic Runtime
No upgrades available

Redis
No upgrades available

Metrics
No upgrades available


MySQL for Pivotal Cloud Foundry
No upgrades available

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Installation Dashboard ⚙




Ops Manager Director for
vmware
vSphere®

v1.7.0.0




Pivotal Elastic
Runtime

v1.7.0-build.315




Redis

v1.5.11



Metrics

v1.0.3



MySQL for Pivotal
Cloud Foundry

v1.7.6

No updates

Apply changes

Apps Manager



Pivotal
Apps Manager

dave > dev

droberts@pivotal.io

ORG

dave

SPACES

dev

Marketplace

Docs

Tools

SPACE
dev
● 4 Running
● 0 Stopped
● 0 Crashed

Overview

Settings

Apps

| NAME | INSTANCES | MEMORY | LAST PUSH | ROUTE |
|--------------------|-----------|--------|-------------|---|
| ● adminportal | 1 | 1024MB | a day ago | http://adminportal.cfapps.haas-39.pez.pivotal.io > |
| ● articulate | 1 | 512MB | 8 days ago | http://articulate.cfapps.haas-39.pez.pivotal.io > |
| ● attendee-service | 1 | 512MB | 11 days ago | http://attendee-service.cfapps.haas-39.pez.pivotal.io > |
| ● route-service | 1 | 512MB | a day ago | http://route-service.cfapps.haas-39.pez.pivotal.io > |

Service Menu



Redis



Single Sign-On



RabbitMQ



MySQL



CloudBees
Jenkins



Spring Cloud
Services



AWS



Pivotal Cloud Foundry Core Tenets

Self Serve Platform for Developers

`cf push`

Service Marketplace

Microservice Ready

Pivotal Cloud Foundry Core Tenets

Operationally Robust

Elastic Scale

High Availability

Metrics

Logs

Quotas

Pivotal Cloud Foundry Core Tenets

IaaS Independent

AWS

VMware

Openstack

Azure

A dark, atmospheric photograph of the Golden Gate Bridge in San Francisco. The bridge's iconic red-orange towers and suspension cables are visible, extending from a steep, rocky cliff on the left towards the right. The bridge is partially shrouded in a thick, low-lying fog or mist that fills the background and the water below. The sky is a uniform, dark grey, contributing to the moody and dramatic feel of the image. The overall lighting is very low, with the bridge's structure being the primary light source in the scene.

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Transforming How The World Builds Software