

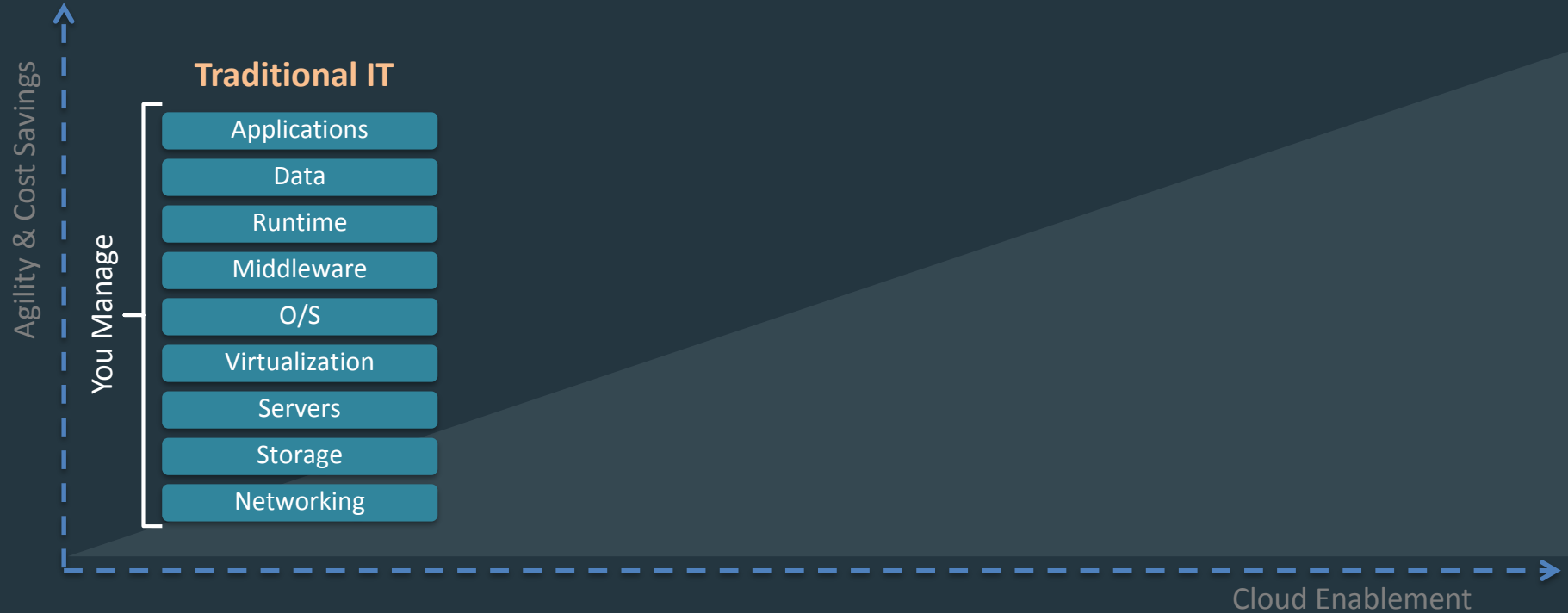
Pivotal Cloud Foundry

An Introduction

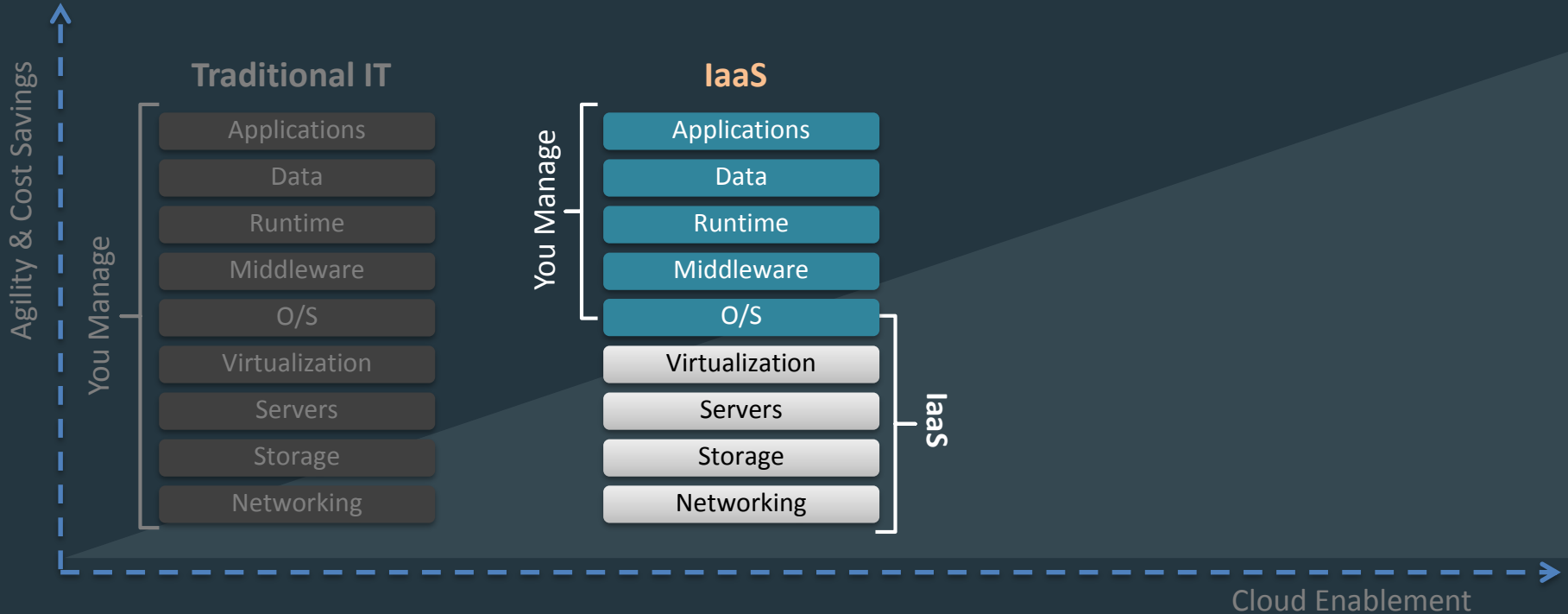
Agenda

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

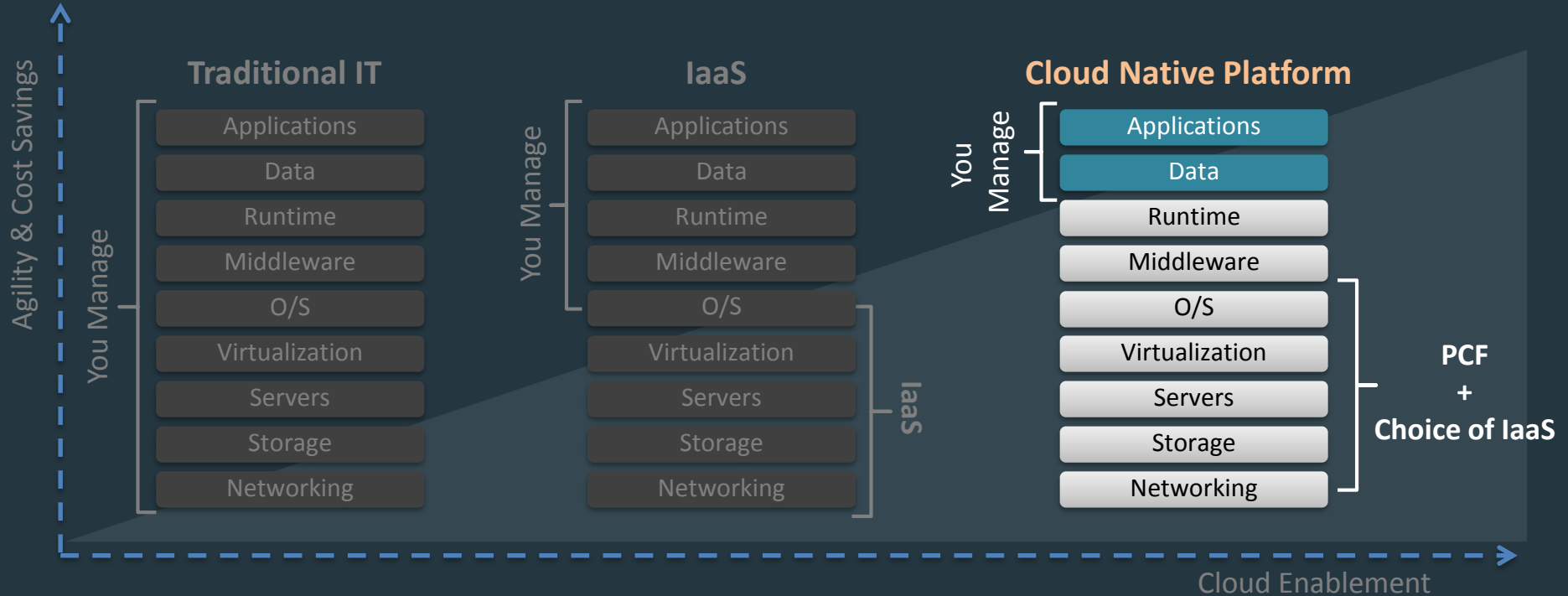
The Power of the Platform



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
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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
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- Install Application Runtime
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Pivotal Cloud Foundry

Deploying an Application

IaaS

- Configure Service Connectivity
- Configure SSL Termination
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Pivotal Cloud Foundry

Deploying an Application

IaaS

- **Configure Firewall**
- Configure Service Connectivity
- Configure SSL Termination
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Pivotal Cloud Foundry

Deploying an Application

IaaS

- Configure Firewall
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Pivotal Cloud Foundry


- `cf push`

Deploying an Application

IaaS

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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

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Pivotal Cloud Foundry

Scaling an Application

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Scaling an Application

IaaS

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Pivotal Cloud Foundry

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Scaling an Application

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Scaling an Application

IaaS

- Configure Firewall
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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

IT Technology Eras



Mainframe

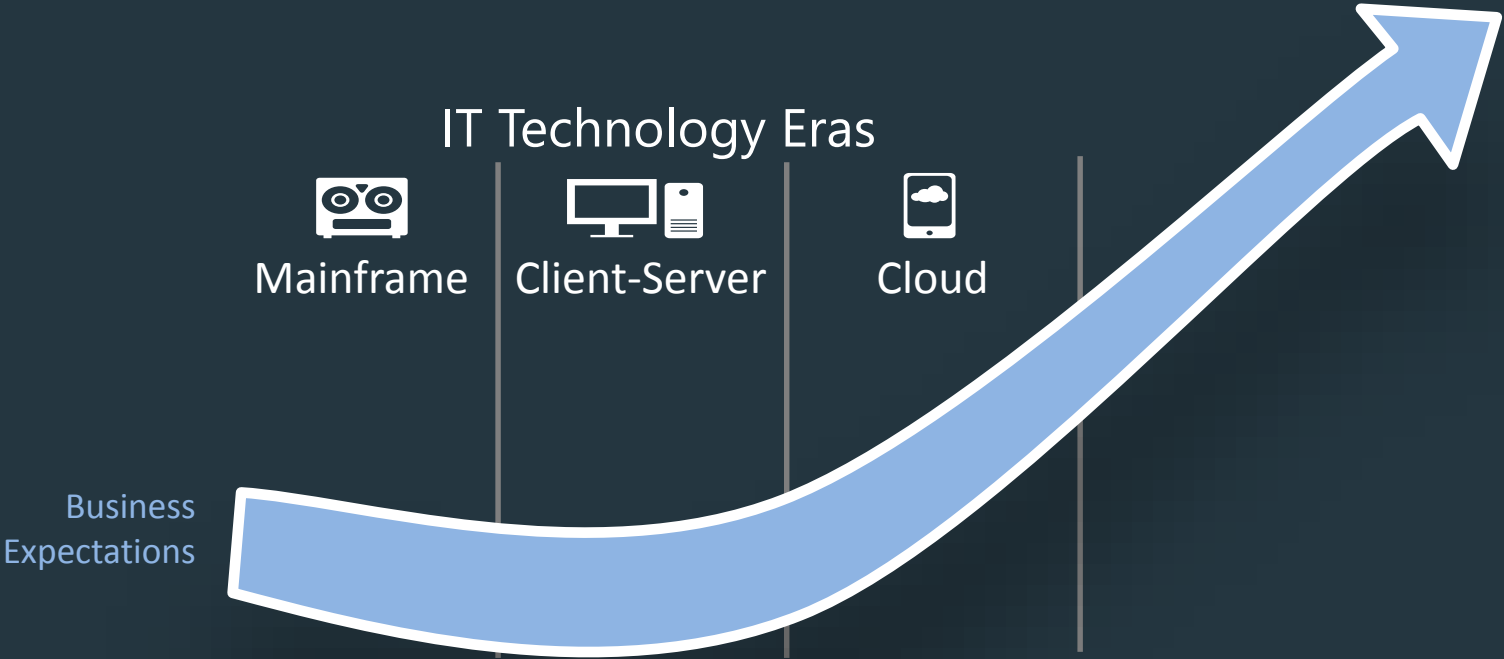


Client-Server



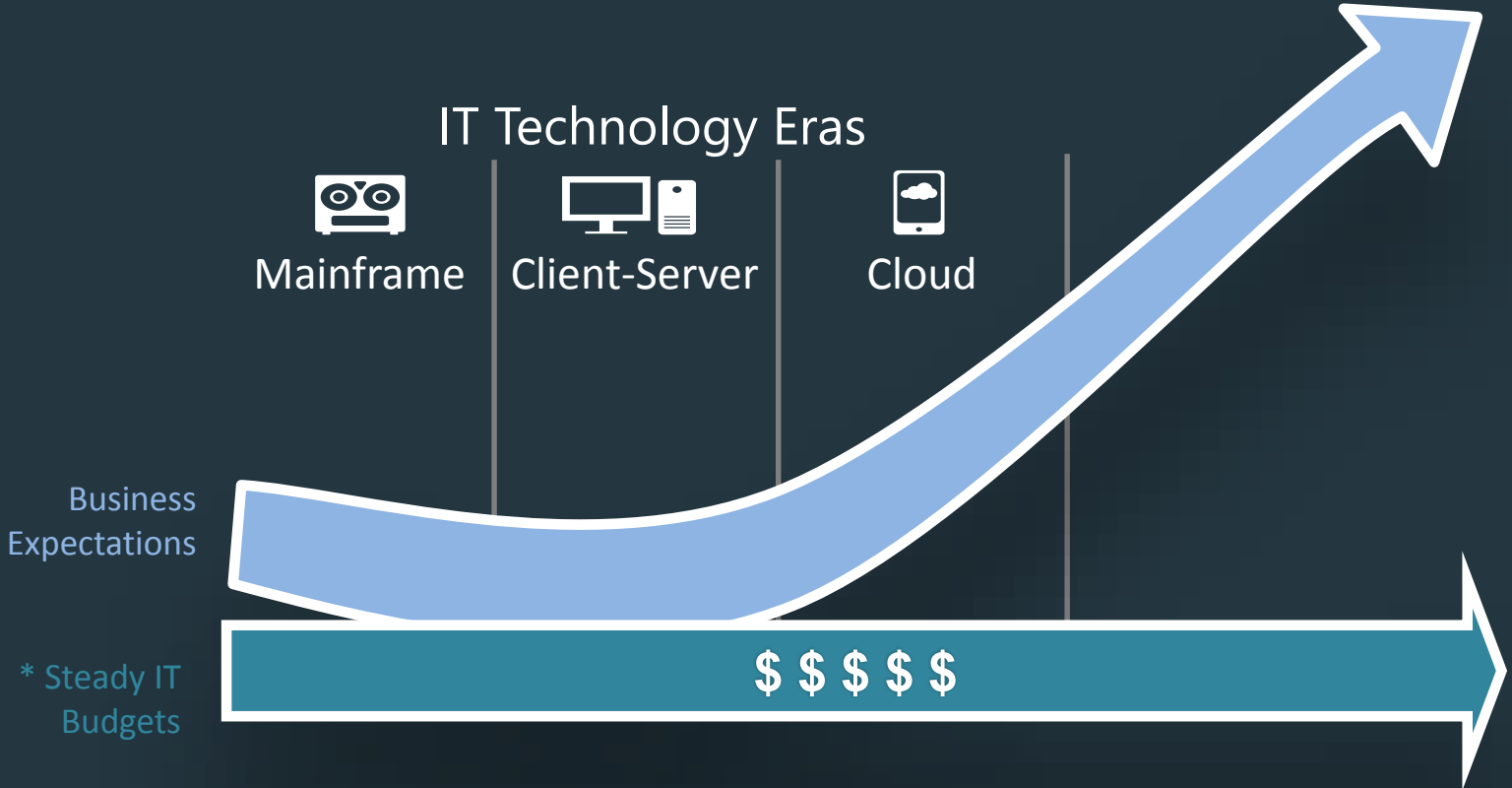
Cloud

Business Needs Exceed IT Expectations



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

Business Needs Exceed IT Expectations



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Business Needs Exceed IT Expectations

IT Technology Eras



Mainframe

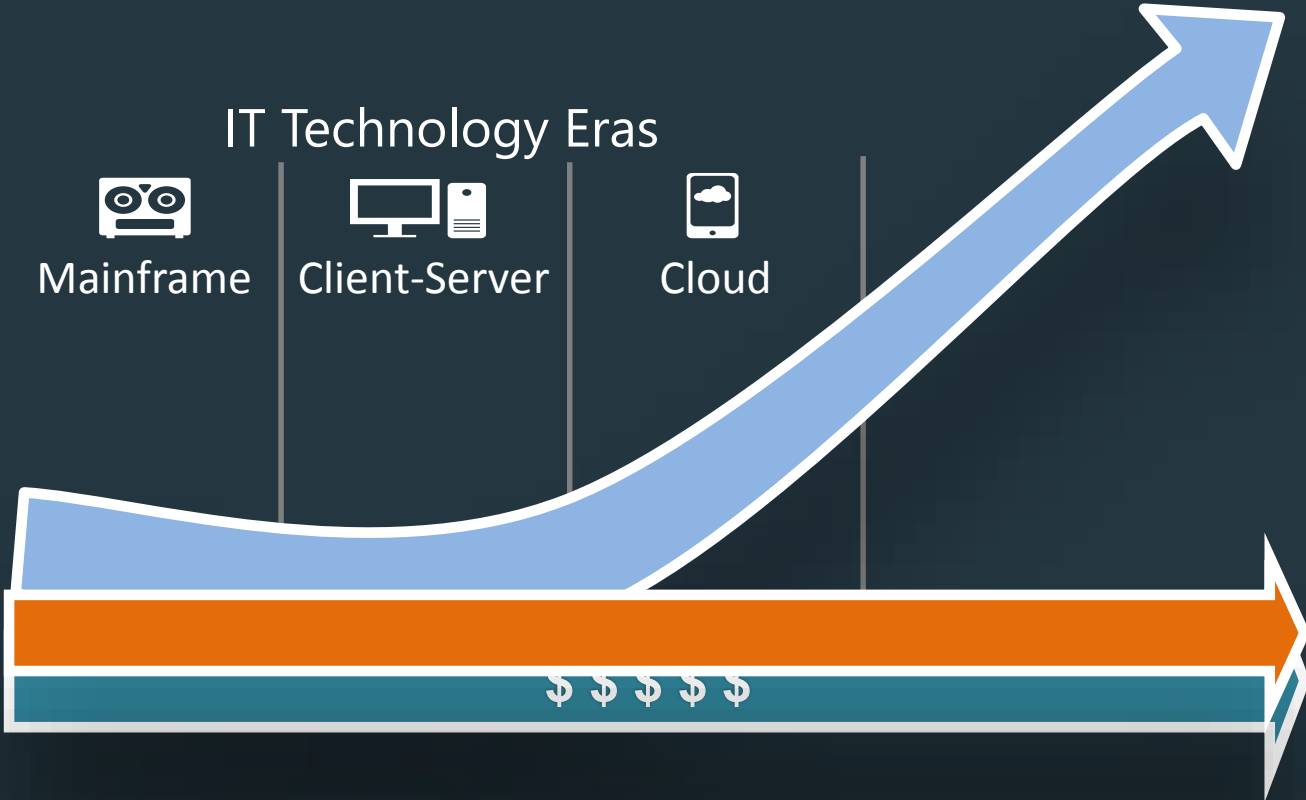


Client-Server



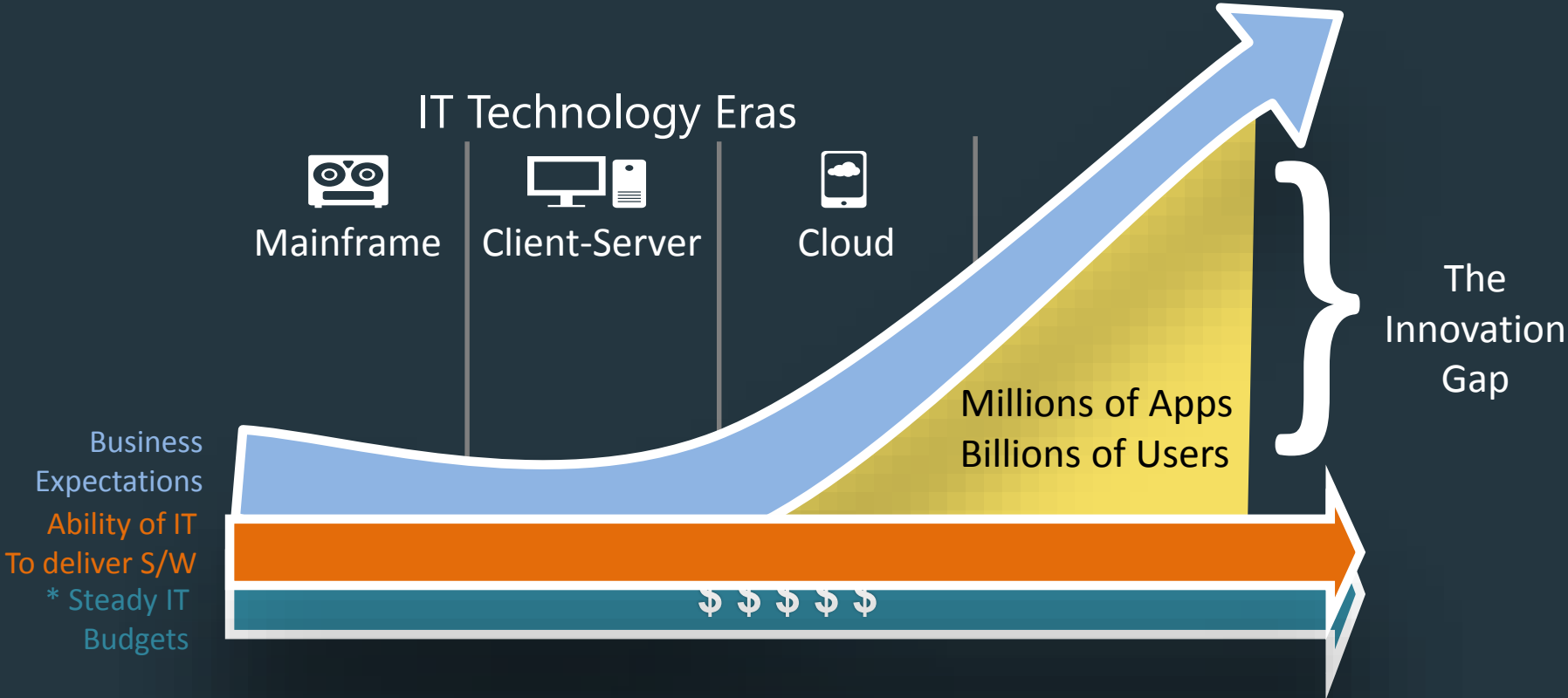
Cloud

Business
Expectations
Ability of IT
To deliver S/W
* Steady IT
Budgets



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

<https://www.cloudfoundry.org>

Cloud Foundry Foundation

PLATINUM



GOLD



SILVER



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Pivotal Network

Explore, download, and update Pivotal software and services

Software designed with the enterprise in mind

[Join](#)

To download and evaluate all products and services

Ops Manager

Available Products

Ops Manager Director

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





Import a Product

Download PCF compatible products at
[Pivotal Network](#)

Delete unused products

Installation Dashboard



<p>Ops Manager Director for vmware vSphere</p> <p>v1.7.0.0</p>	<p></p> <p>Pivotal Elastic Runtime</p> <p>v1.7.0-build.315</p>	<p></p> <p>Redis</p> <p>v1.5.11</p>
<p></p> <p>Metrics</p> <p>v1.0.3</p>	<p></p> <p>MySQL for Pivotal Cloud Foundry</p> <p>v1.7.6</p>	

No updates

Apply changes

Apps Manager

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

apigee



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, partially obscured by a thick layer of fog. The bridge's iconic towers and suspension cables are visible against a grey, overcast sky. The foreground shows a dark, rocky hillside with sparse vegetation.

Pivotal[®]

Transforming How The World Builds Software