

# Introduction to Pivotal Cloud Foundry

# Cloud Foundry

1. **Overview of Cloud Computing**
2. What is Cloud Foundry?
3. Open Source and the Cloud Foundry Foundation
4. Case Studies

# What is “the cloud”?



“The cloud is not about **where** computing is done,  
it’s about **how** computing is done.”

Paul Maritz  
Executive Chairman, Pivotal

# The shift to the 3rd generation platform

1st

Mainframe



2nd

Client-Server  
& Web

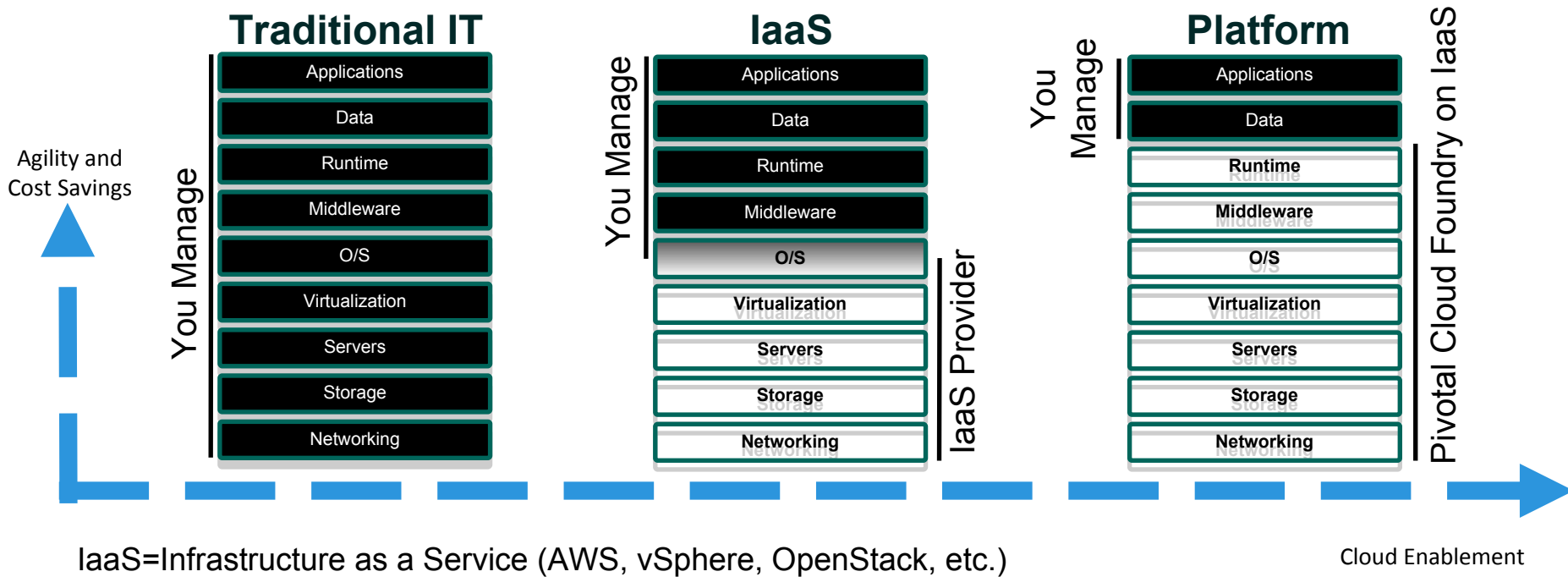


3rd

Cloud



# The Power of a Platform



# Software is Changing Industries



Financial Services



Transportation



Entertainment



Travel & Hospitality

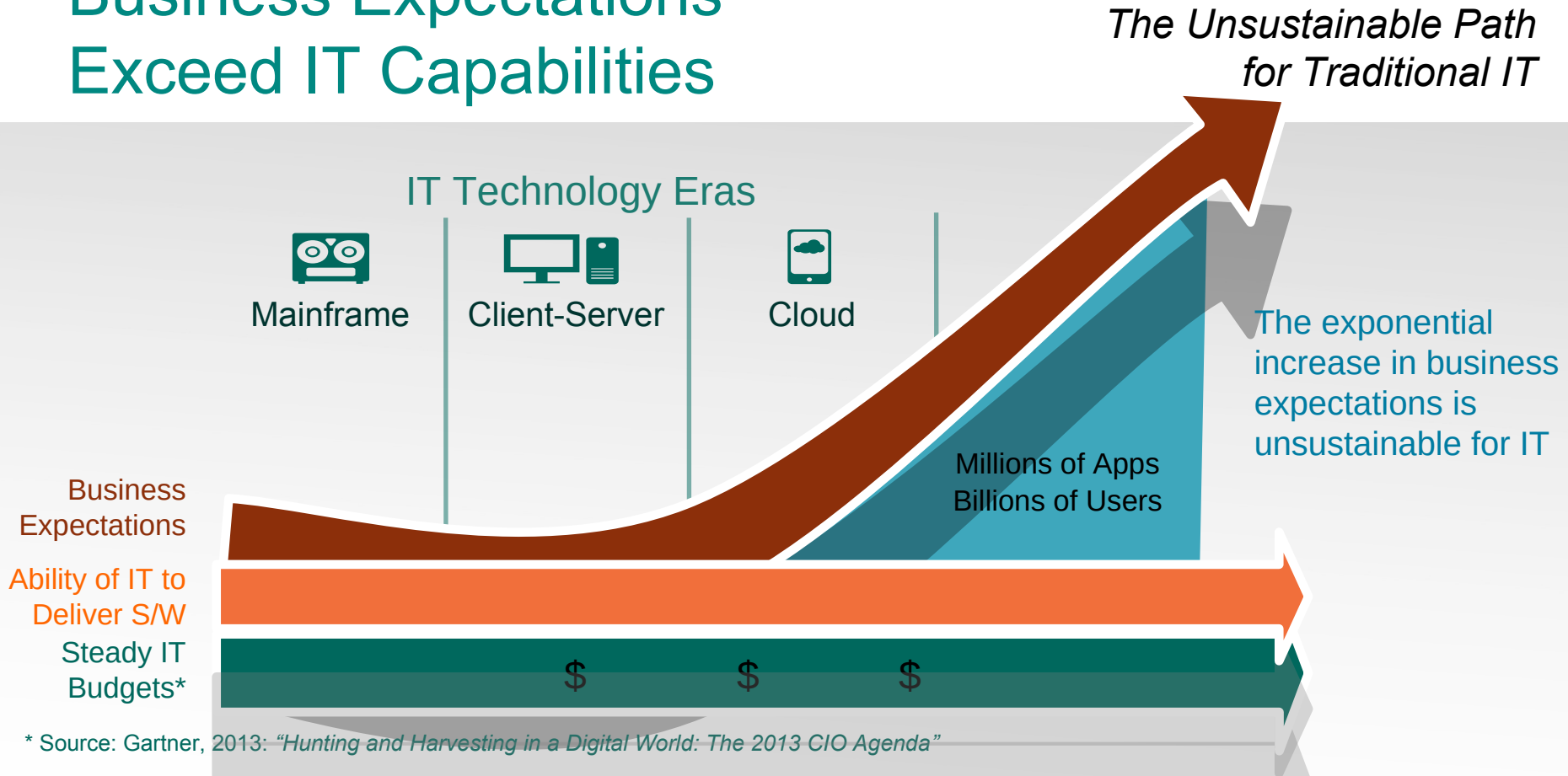


Home Automation



Monsanto--Agriculture

# Business Expectations Exceed IT Capabilities



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# What is Cloud Foundry?



Cloud Foundry is a **platform** for developing and running cloud applications

# Cloud Foundry is a bit ironic...

- It is opinionated
  - It allows you to organize, simplify and lock down your IT infrastructure
- Yet, it is open and flexible
  - It works on multiple infrastructures
    - Amazon Web Services, vSphere, OpenStack...
  - It works in conjunction with your existing applications, tools and services
  - It works with many languages and frameworks



...and more

# CEO Perspective- Focus on the Business Domain

What is Cloud Foundry from a CEO's perspective?

- Google, Facebook, Twitter, Netflix, etc. have thousands of engineers working on their unique, consumer-grade platforms
- Cloud Foundry encapsulates industry best practices in a platform, allowing enterprises to focus on their business domain
- Specifically, Pivotal is a partner who focuses on the platform



# CEO Perspective- Transformational

- Cloud Foundry is transformational in two ways:
  - Business: it facilitates the change to agile, cloud-native software development processes
  - Technology: enables a simplified, efficient, scalable infrastructure



butterfly from <http://catherine-reyes.com>

# Operations Team Perspective

- Enables operations team to provide the enterprise with a self-service platform
- A platform that enables the complete automation of the software development pipeline



# Developer Perspective

- A platform that allows you to automatically provision resources
- Enables continuous integration/continuous delivery
- Allows you to focus on writing cloud native applications



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# Cloud Foundry Foundation- The Open Platform



# The Cloud Foundry Foundation



*Platinum members*



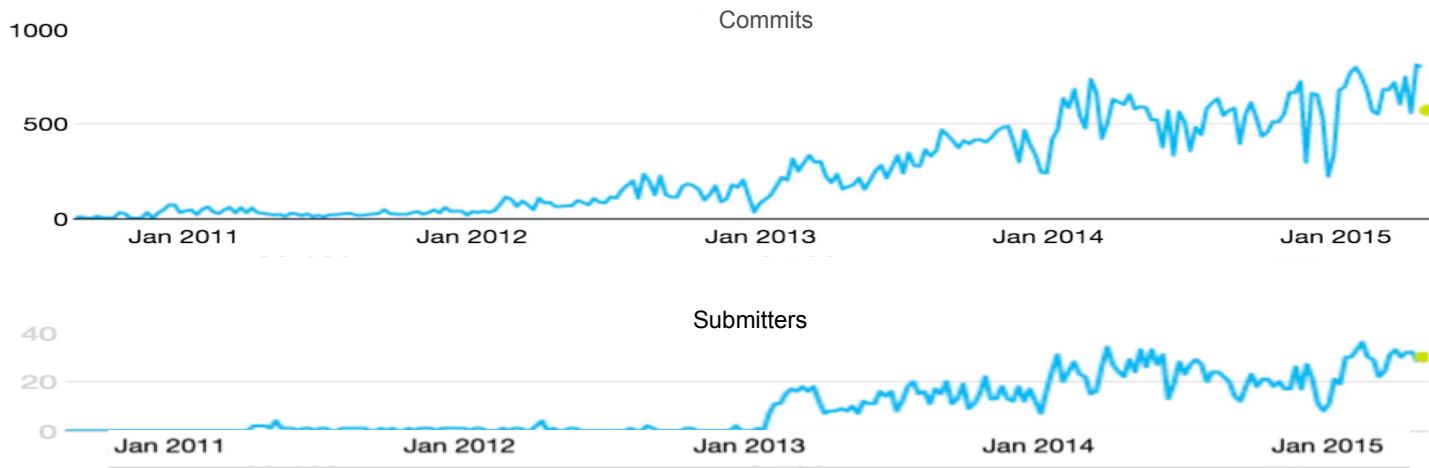
*Gold members*



*Silver members*

The largest open source platform ecosystem

# Cloud Foundry Open Source Momentum



53 corporations are contributing members

139 meetups in 48 countries

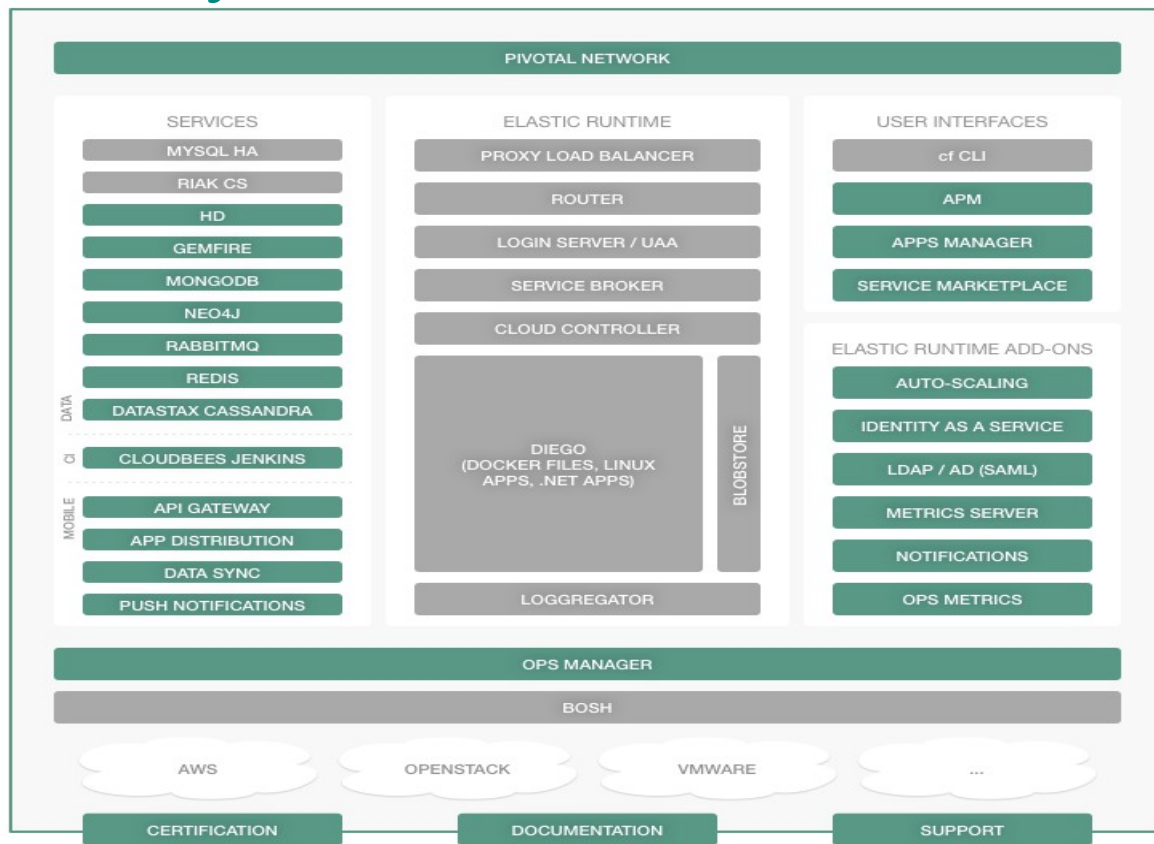
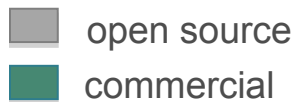
~2200 developers, ~650 code submitters

65K commits

# Pivotal Cloud Foundry Commercialization Model

Open source software provides the basis for the platform

Commercial distribution provides value add features, enterprise services, support, docs, certs, etc.



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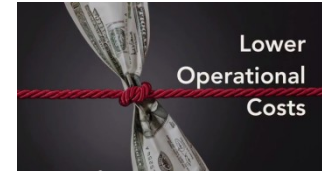
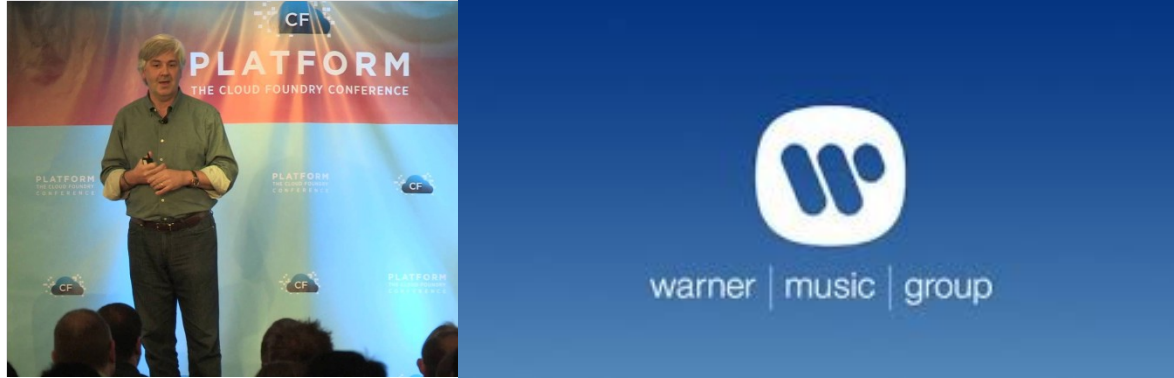


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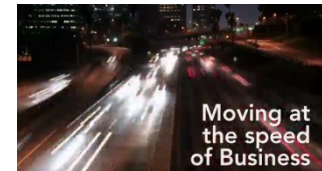
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*1 billion* page views a day  
ads powered by Cloud Foundry!



Fail, Learn, Adapt, Repeat  
*6 Months to 6 Weeks*  
*\$1.1M Saving per App*

<https://www.youtube.com/watch?v=LIg7TO0CaKA>



# Allstate- Developing the Freedom to Disrupt

**The Transformation Journey**

Waterfall	Agile + Extreme Programming
"Enterprise" tools	Open Source tools developers want to use
Governance for Everything	Empower the innovators
Monolithic Applications	Microservices
Manual Deployments	Continuous Delivery

infrastructure **Services**  
Driving IT

Developing the Freedom to Disrupt

15

MAY 11-12, 2015 | SANTA CLARA, CA  
**CLOUD FOUNDRY**  
SUMMIT

**"Start your project on Monday and ship it on Friday.  
No longer is it going to take 9 months." —Andy Zitney, Allstate**

<https://www.youtube.com/watch?v=04QFKBt6LCI>

# Garmin- Why Adopt PCF?

**Summary**

**GARMIN** **CLOUD FOUNDRY**

- Infrastructure Build-out Workload
- Suboptimal Infrastructure Utilization
- Roadblocks to Developer Productivity
- Labor-intensive Monitoring & Security
- Hard-to-reach Uptime Goals
- Response Time to Business Needs
- Improve Project Costs

**GARMIN**

**CLOUD FOUNDRY SUMMIT**  
MAY 11-12, 2015 | SANTA CLARA, CA

[https://www.youtube.com/watch?v=7vd4\\_IVr2sg](https://www.youtube.com/watch?v=7vd4_IVr2sg)



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