Bimodal IT

Erfolgreich in zwei Welten unterwegs: Herausforderungen und Lösungsansätze Sascha Meier – CTO EMC Switzerland

June 29, 2007



July 10, 2008





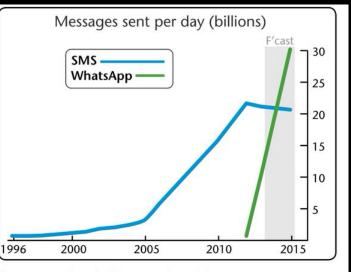


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THE DIGITAL BUSINESS STRATEGY



900 Million User



Sources: Portio Research, a16z, The Economist, 2015

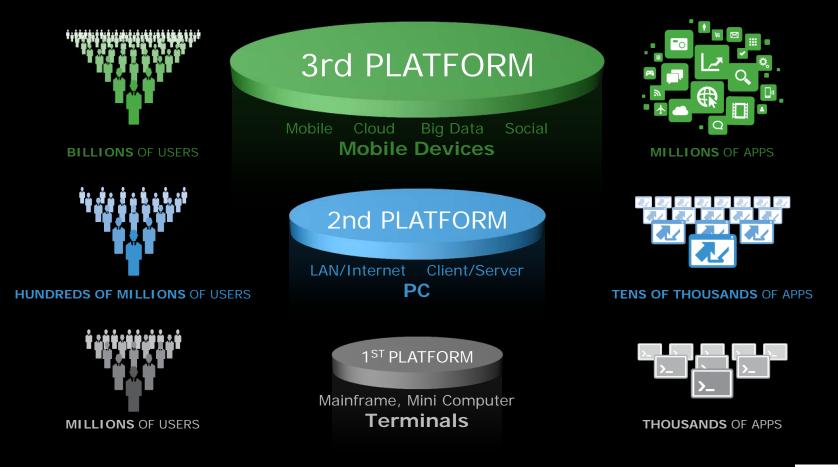
vmware^{*}



EMC²

Source: American Enterprise Institute, 2015

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APPLICATION ATTRIBUTES OF THE 3RD PLATFORM





INNOVATE IN AN AGILE WAY



DELIVER PERSONAL EXPERIENCES



OPERATE IN REAL-TIME

Pivotal

EMC²

 $\mathbf{\hat{\mathbf{o}}}$

VCE

vmware^{*}

RSΛ



Monolithic

2nd PLATFORM





Cloud Native

3rd PLATFORM



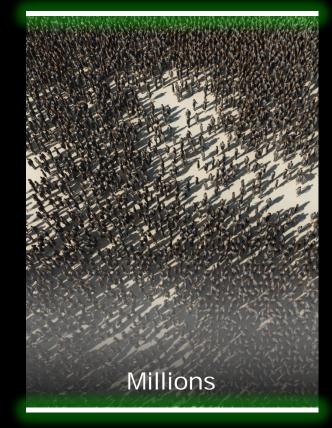
EMC² Pivotal



vmware^{*}

Thousands

2nd PLATFORM

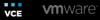


3rd PLATFORM

RSΛ



EMC² Pivotal



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2nd PLATFORM



3rd PLATFORM



EMC² Pivotal

RSA VIE VIEWWare



2nd PLATFORM

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Open

3rd PLATFORM

RSΛ



EMC² Pivotal

vce vmware

IT Operations

2nd PLATFORM



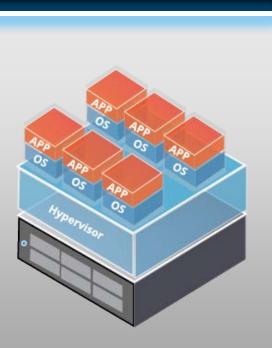
3rd PLATFORM



EMC² Pivotal

RSA VCE

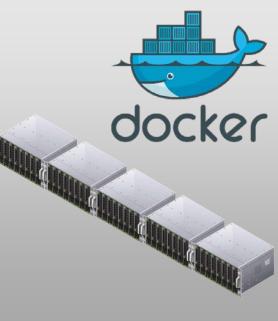




Virtual Machines

2nd PLATFORM

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Containers

3rd PLATFORM



EMC² Pivotal.

RSA VCE



APPLICATION CHARACTERISTICS

PLATFORM 2 HARDWARE RESILIENT

PLATFORM 3 APPLICATION RESILIENT

PC & Client Server
 Geo-Located
 Virtualized
 Transactional Processing
 GB to TB's Data
 Block & File Access

- </l
- **Mobile Devices**
- Geo-Distributed
- Containerized
- **Distributed Processing**
- TB's to EB's Data
- Object & HDFS access

Bimodal IT means having two modes of IT, each designed to address different information and technology goals:

Mode 1 is traditional

Mode 2 is exploratory

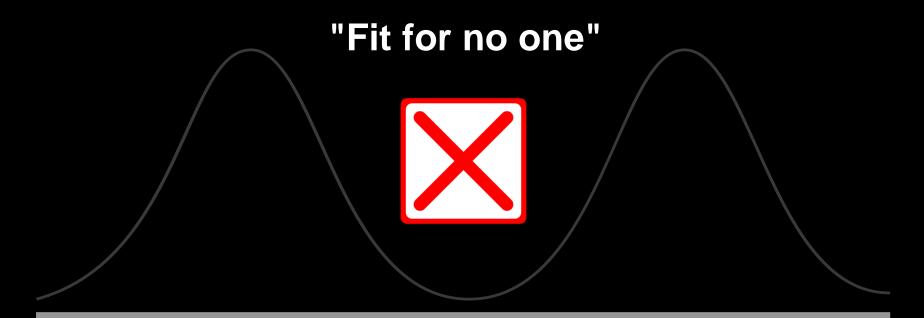
Strategic Planning Assumption

By 2017, **75%** of IT organizations will have a bimodal capability **50%** will make a mess of IT.

Bimodal IT is **NOT** a "nice to have."



AVOID TO STUCK IN THE MIDDLE

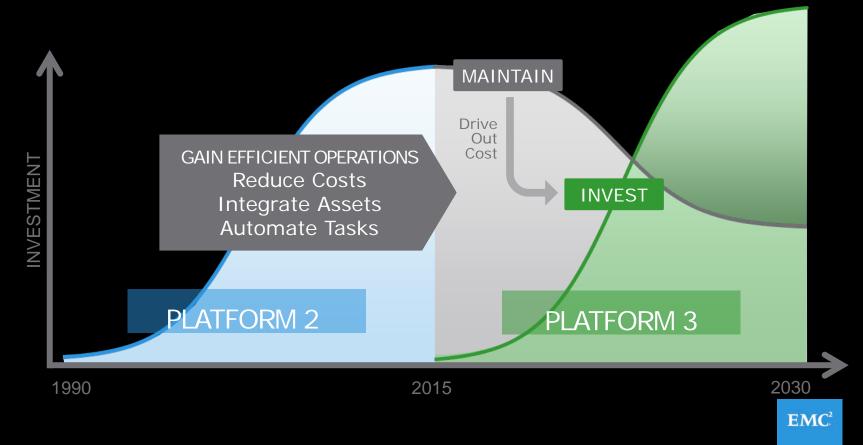




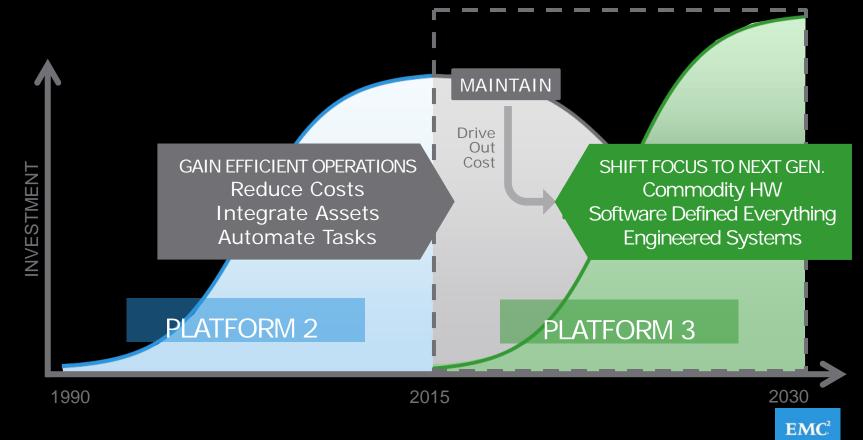
Mode 2 (aka P3)

Gartner

SHIFTING INVESTMENT CYCLES



SHIFTING I.T. INVESTMENT CYCLES







ENTERPRISE HYBRID CLOUD

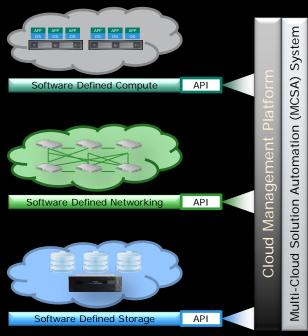
PIVOTAL CLOUD FOUNDRY DEVELOPER PLATFORM

ENTERPRISE HYBRID CLOUD - EHC

Agility Self-Service Portal



Efficiency SDDC Architecture



Control Cost and Resource



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CHOICE HYBRID CLOUD



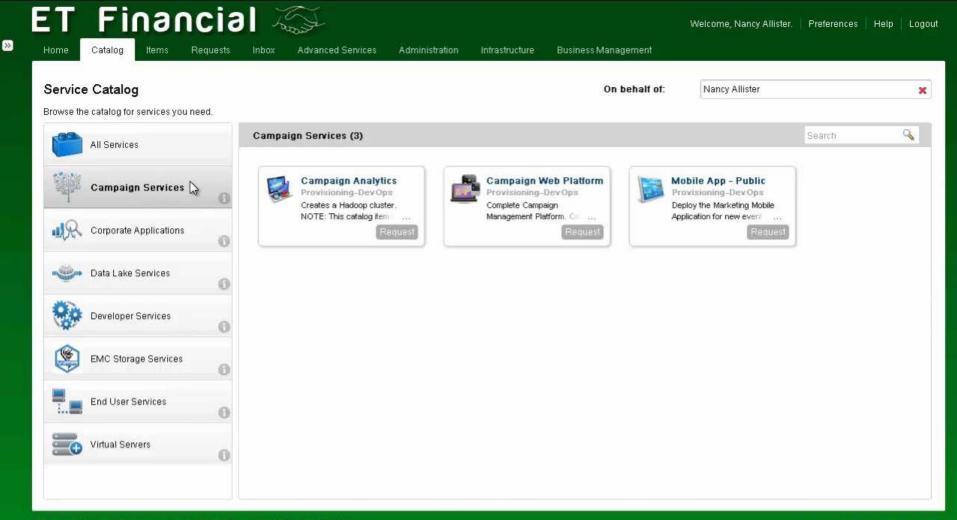


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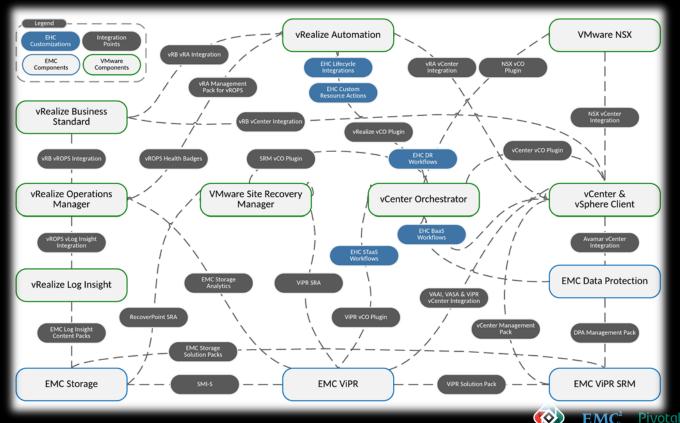


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HIDEN COMPLEXITY INTEGRATION INTEGRATION POINTS



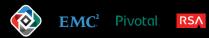
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HOURS OF ENGINEERING



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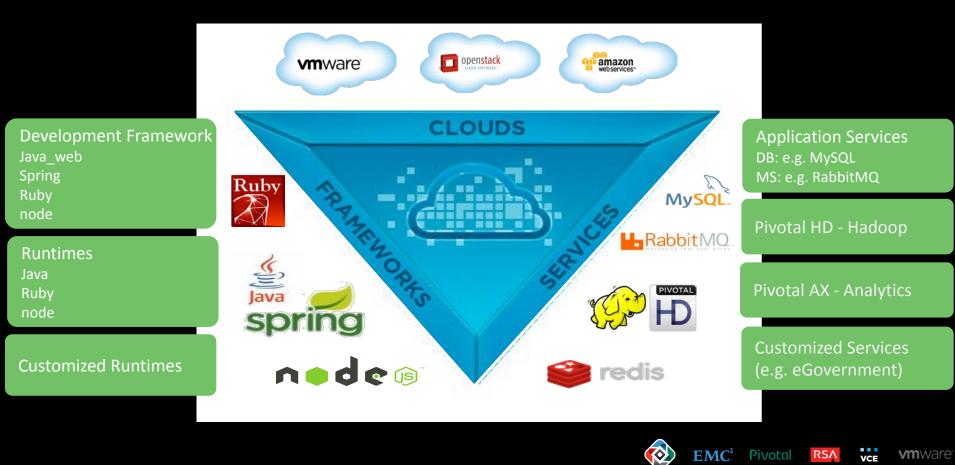




ENTERPRISE HYBRID CLOUD

PIVOTAL CLOUD FOUNDRY DEVELOPER PLATFORM

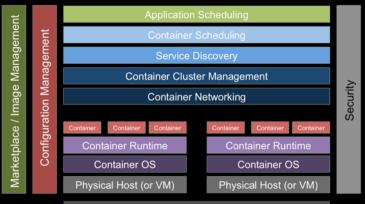
OPEN PAAS DEVELOPER PLATFORM



CLOUD FOUNDRY: INDUSTRY'S OPEN PAAS STANDARD

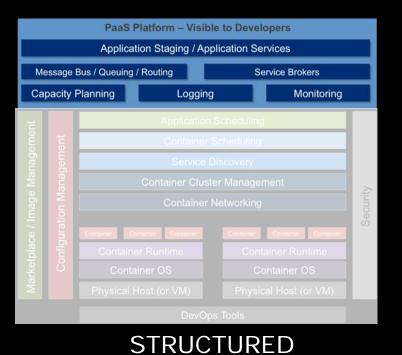


TWO TYPES OF CLOUD NATIVE PLATFORMS



DevOps Tools

UNSTRUCTURED



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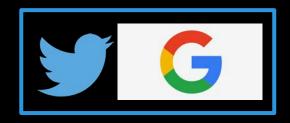
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WHICH PAAS IS RIGHT?

UNSTRUCTURED

USERS









VCE

vmware

FAST TIME TO VALUE



vmware^{*}

OPERATOR

Establish infrastructure Provision Add capacity Control Auth, Policies, HA

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Cloud Deployment: 2-4 hours

DEVELOPER

Auto-select runtimes Deploy app Select and bind middleware Scale app

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App Deployment: 30-90 seconds

BIMODAL IT – ERFOLGREICH IN 2 WELTEN



ENTERPRISE HYBRID CLOUD FAST TIME TO VALUE AND FOCUS ON BUSINESS OUTCOME



PIVOTAL CLOUD FOUNDRY DEVELOPER PLATFORM

- The Application defines the Platform and Mode
- Bimodal IT is reality you have to:
 - Optimize and Automate Platform 2
 - Introduce Platform 3 capabilities
- Think about your strategy:
 - Build vs Buy vs As-a-Service



THANK YOU!

YOU DON'T NEED AN IT STRATEGY – ALL YOU NEED IS A BUSINESS STRATEGY SMARTLY ENABLED BY TECHNOLOGY

Sascha Meier – CTO EMC Switzerland



Pivotal. RSA

