



proudly present:

# FINANCIAL SERVICES DEPLOYMENTS

- *Sari Lafferty, DCIA*
- *Yung Chou, Microsoft*
- *Pete Manca, Egenera*
- *Kevin Nyberg, NaviSite*
- *Nicole Nakashian, Agio*

# CLOUD COMPUTING

Revolutionizing Business Processes in  
Government, Healthcare & Financial Services

# EAST 2013

MAY 19-21, 2013  
Boston Marriott Copley  
Place, Boston MA



proudly present:

Yung  
Chou

Platform  
Technology  
Evangelist,  
Microsoft



Virtualization  
Hybrid Cloud

<http://aka.ms/yungchou>  
<http://aka.ms/yc>  
[@yungchou](#)

# CLOUD COMPUTING

Revolutionizing Business Processes in  
Government, Healthcare & Financial Services

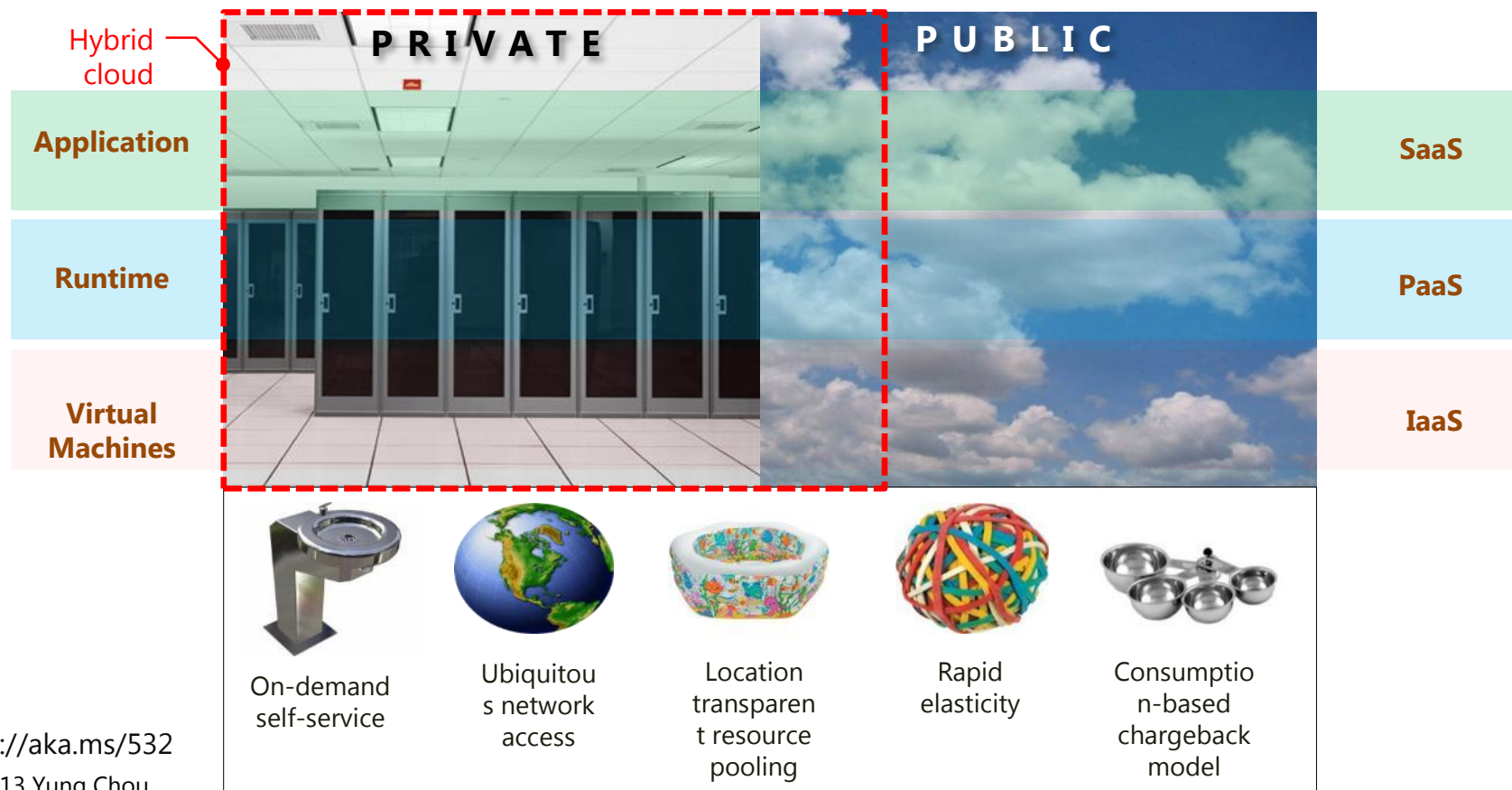
# EAST 2013

MAY 19-21, 2013  
Boston Marriott Copley  
Place, Boston MA



proudly present:

# The 5-3-2 Principle of Cloud Computing



<http://aka.ms/532>

© 2013 Yung Chou.

# CLOUD COMPUTING

Revolutionizing Business Processes in  
Government, Healthcare & Financial Services

# EAST 2013

MAY 19-21, 2013  
Boston Marriott Copley  
Place, Boston MA



proudly present:

# NIST SP-800-145

## A NIST Definition of Cloud Computing

<http://csrc.nist.gov/publications/nistpubs/800-145/SP800-145.pdf>

### Deployment Models:

**Private cloud.** The cloud infrastructure is operated solely for an organization. It may be managed by the organization or a third party and may exist on premise or off premise.

**Community cloud.** The cloud infrastructure is shared by several organizations and supports a specific community that has shared concerns (e.g., mission, security requirements, policy, and compliance considerations). It may be managed by the organizations or a third party and may exist on premise or off premise.

**Public cloud.** The cloud infrastructure is made available to the general public or a large industry group and is owned by an organization selling cloud services.

**Hybrid cloud.** The cloud infrastructure is a composition of two or more clouds (private, community, or public) that remain unique entities but are bound together by standardized or proprietary technology that enables data and application portability (e.g., cloud bursting for load balancing between clouds).

***In such case, 5-3-4 instead of 5-3-2***

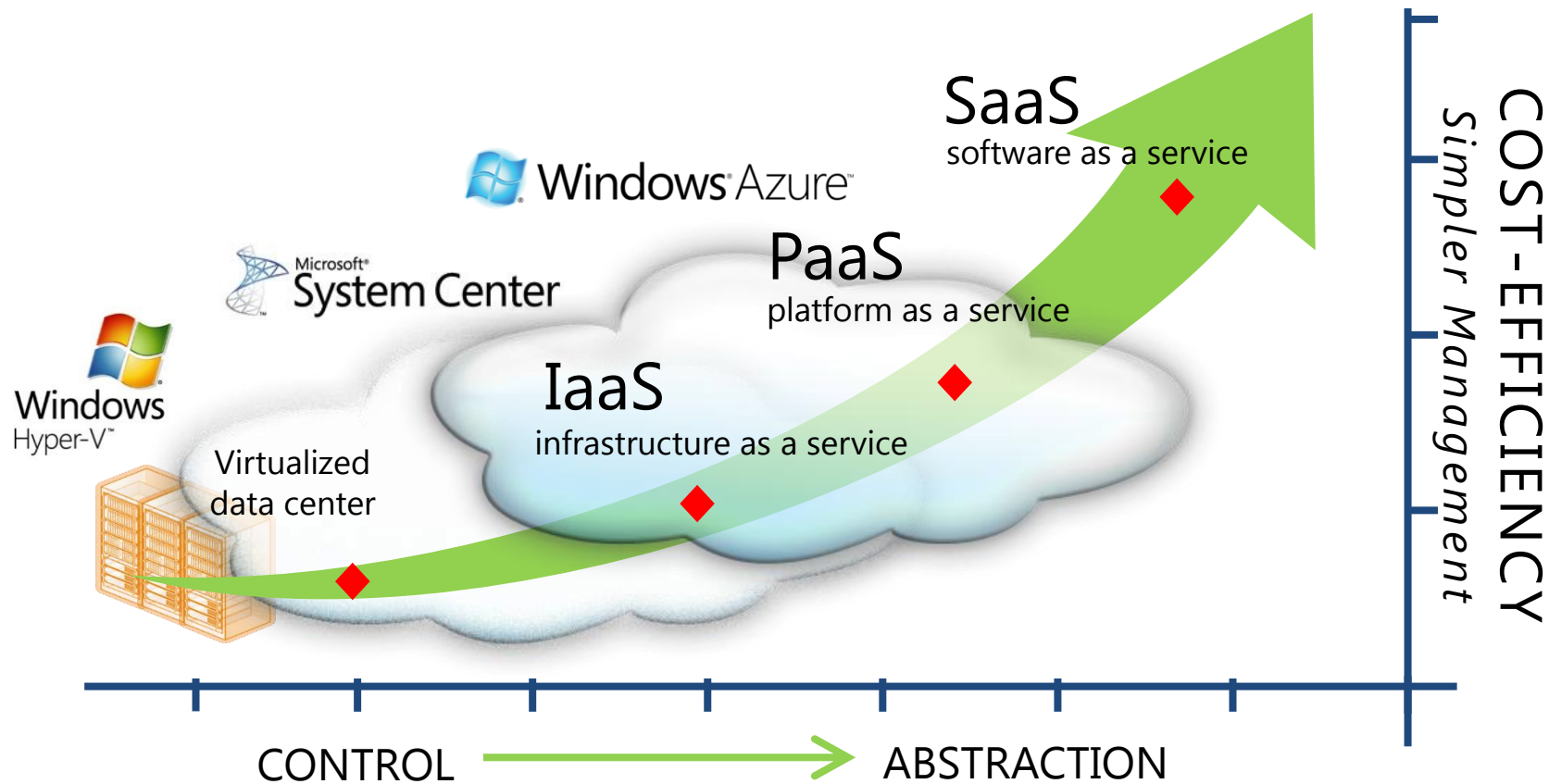
CLOUD COMPUTING  
Revolutionizing Business Processes in  
Government, Healthcare & Financial Services  
EAST 2013

MAY 19-21, 2013  
Boston Marriott Copley  
Place, Boston MA



proudly present:

# Cloud Continuum



# CLOUD COMPUTING

Revolutionizing Business Processes in  
Government, Healthcare & Financial Services

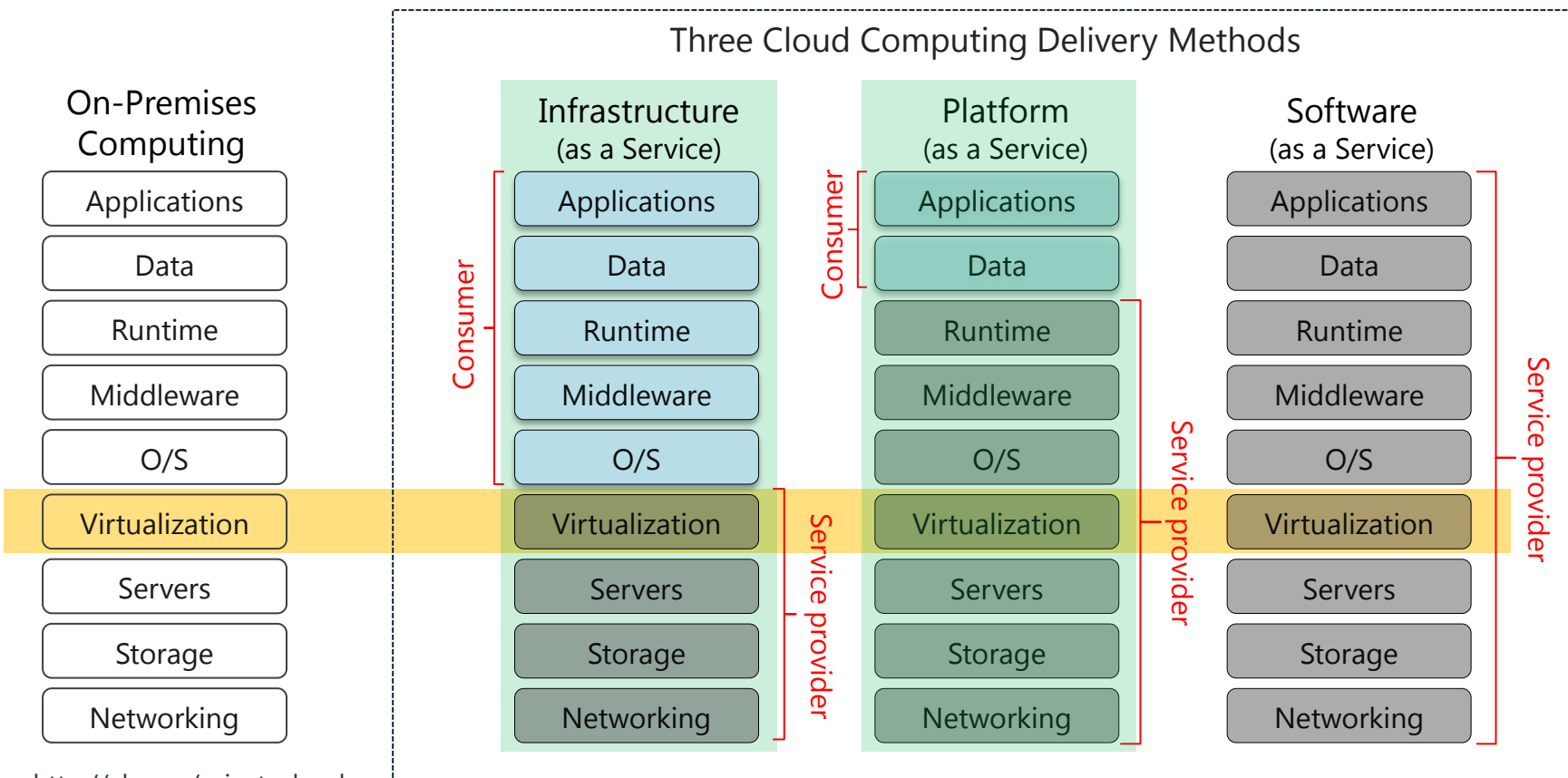
# EAST 2013

MAY 19-21, 2013  
Boston Marriott Copley  
Place, Boston MA



proudly present:

# Cloud Delivery Models



# CLOUD COMPUTING EAST 2013

Revolutionizing Business Processes in Government, Healthcare & Financial Services

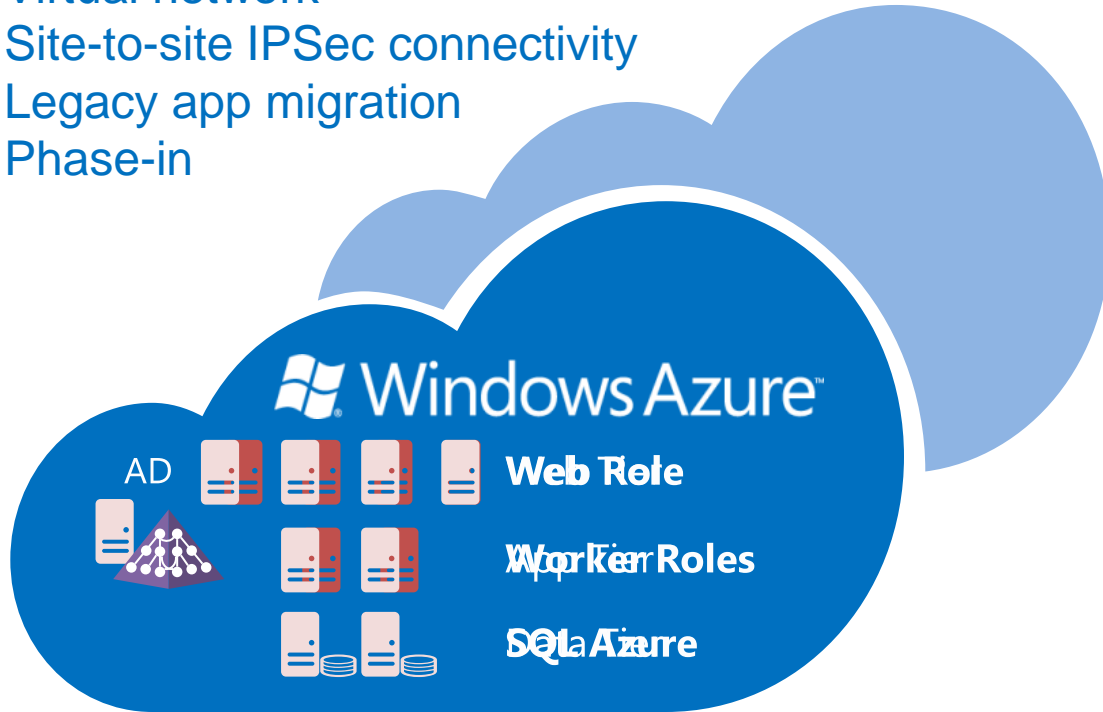
MAY 19-21, 2013  
Boston Marriott Copley Place, Boston MA



proudly present:

# Hybrid Cloud with IaaS and PaaS

- Virtual network
- Site-to-site IPsec connectivity
- Legacy app migration
- Phase-in



Convert Web Apps to **Web Roles (optional)**

Convert App Logic to **Worker Roles (optional)**

Convert Data Tier to Azure SQL DB **(optional)**

# CLOUD COMPUTING EAST 2013

Revolutionizing Business Processes in Government, Healthcare & Financial Services

MAY 19-21, 2013  
 Boston Marriott Copley Place, Boston MA



proudly present:



egenera®

# Financial Services and the Cloud

Pete Manca, Egenera CEO

# CLOUD COMPUTING

Revolutionizing Business Processes in  
Government, Healthcare & Financial Services

# EAST 2013

MAY 19-21, 2013  
Boston Marriott Copley  
Place, Boston MA

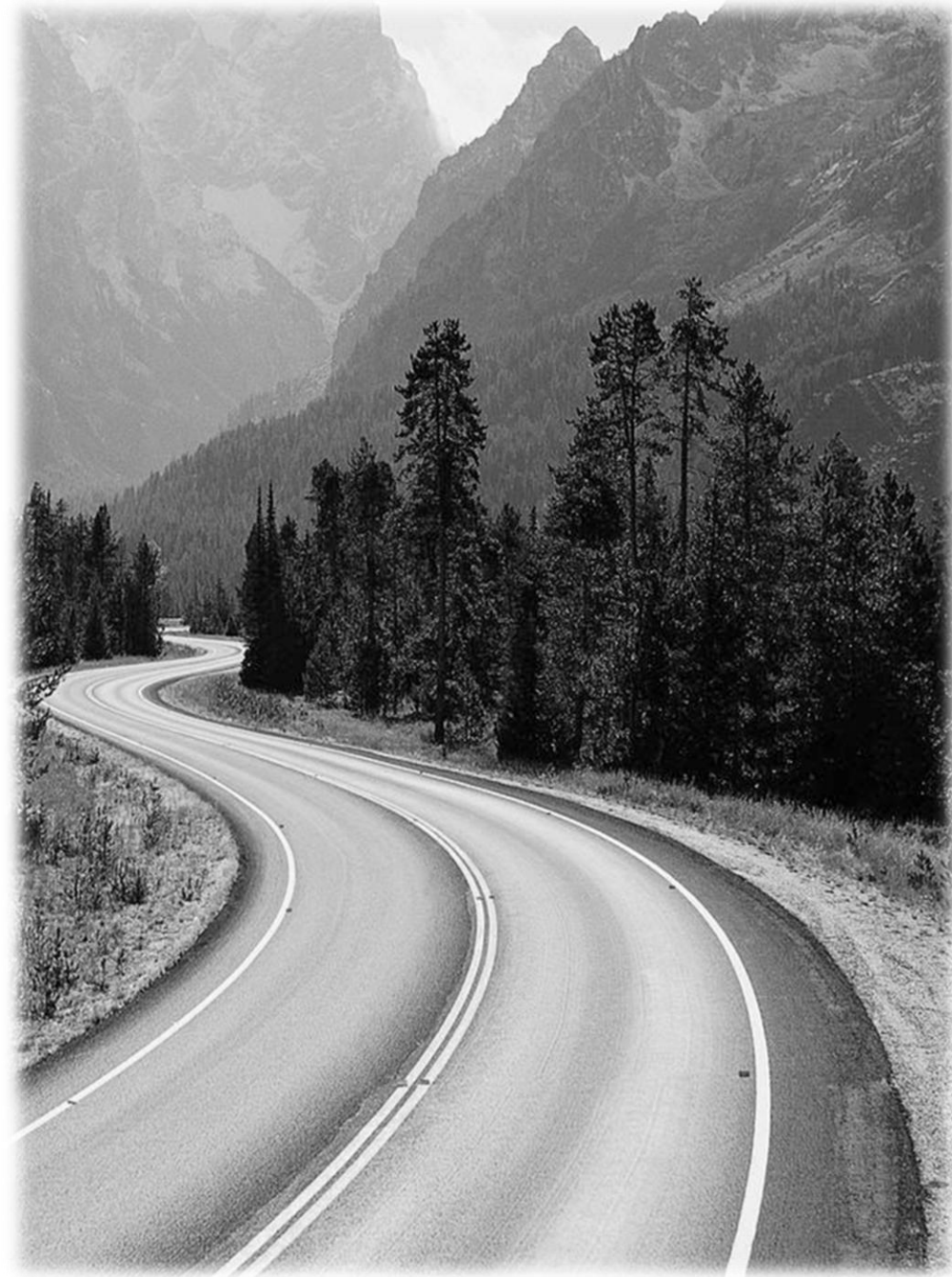


# Agenda

- Introduction to Egenera
- Cloud 1.0: Cloud as a technology platform
  - Perceptions, expectations and workloads for the cloud
  - The future of cloud in the next 5 years
- Cloud 2.0: Cloud as a business model
  - eLynx - SaaS
  - Myanmar Central Bank – Private Cloud
  - American Capital - IaaS
- Summary

# About Egenera

- Industry pioneer with over a decade as a management/automation company
  - Mature, Stable technology company delivering solutions for 13 years
  - Delivering cloud + converged infrastructure software
- A pedigree of high-performance, mission-critical installations around the globe
- Our typical customers
  - Mission-critical IT operations
  - Highly value uptime
  - Dynamic environment
  - Mixed Environment: physical + virtual + cloud
- Leading edge customers in
  - Service Provider
  - Healthcare
  - Finance
  - Government



## Egenera's Mission

Help Our Customers Simplify  
IT Management, Transform IT  
Operations & Deliver Reliable  
IT Services Across Public,  
Private & Hybrid Clouds

# Multi-Year Plan for the Cloud

## Platform Support

- Add all leading x86 server vendors as partners
- Leverage channels to offer Openness and Choice

## Cloud Features

- Extend our lead in Converged Infrastructure Management
- Expand with unique cloud capabilities

## Hybrid Cloud

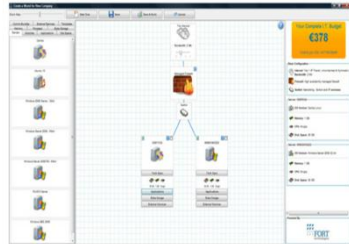
- Bridge public and private clouds
- Allow workloads to migrate to/from clouds as needed

Phase 1: Converge & Automate

Phase 2: Simplify & Empower

Phase 3: Unify

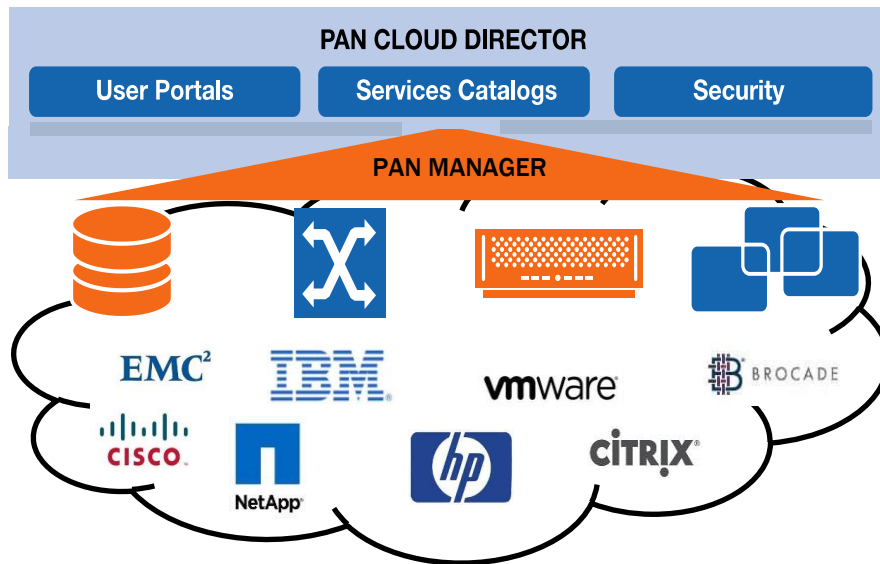
# Built for Self-Service



- Design
- Deploy
- Manage
- Protect

- Cloud management software

- Design, Price and Build in real time
- Manage and track usage
- Chargeback based on consumption



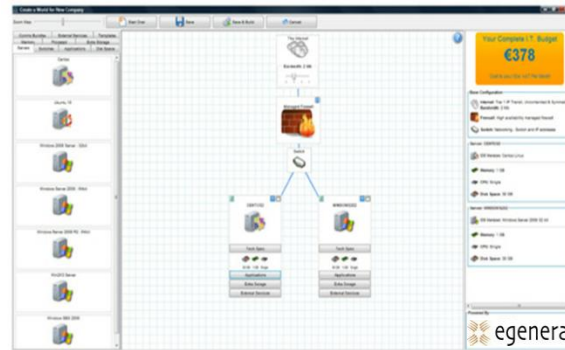
Any Storage

Any Network

Any Server

Any Hypervisor

# Unifying Public, Private & Hybrid Clouds



- Design Once
- Deploy Anywhere
  - Price
  - Security
  - Compliance
  - SLAs



Private Cloud

Private Cloud



EC2

EC2

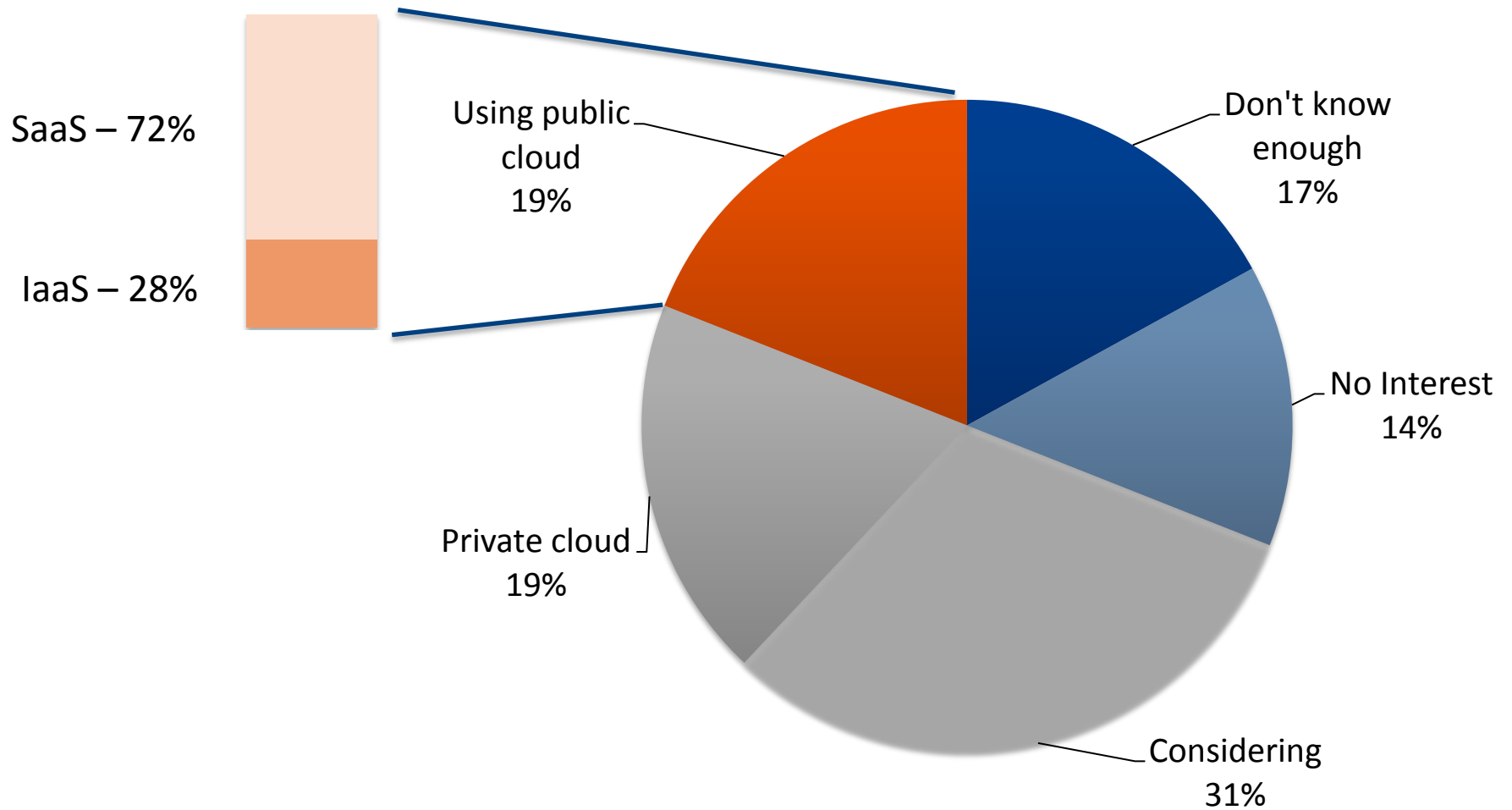


the rackspace  
cloud

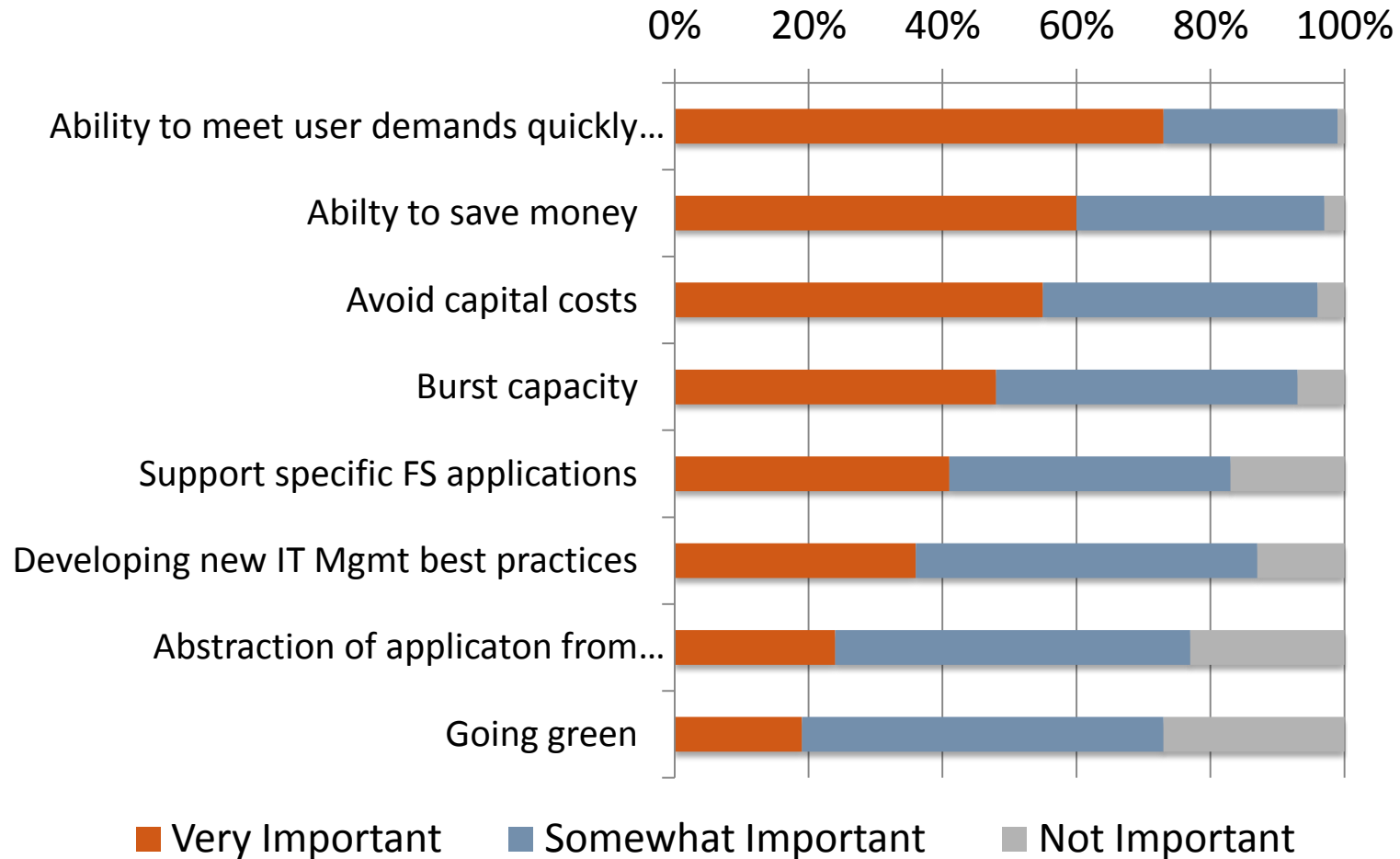
OpenStack

OpenStack

# Cloud in Financial Services Today

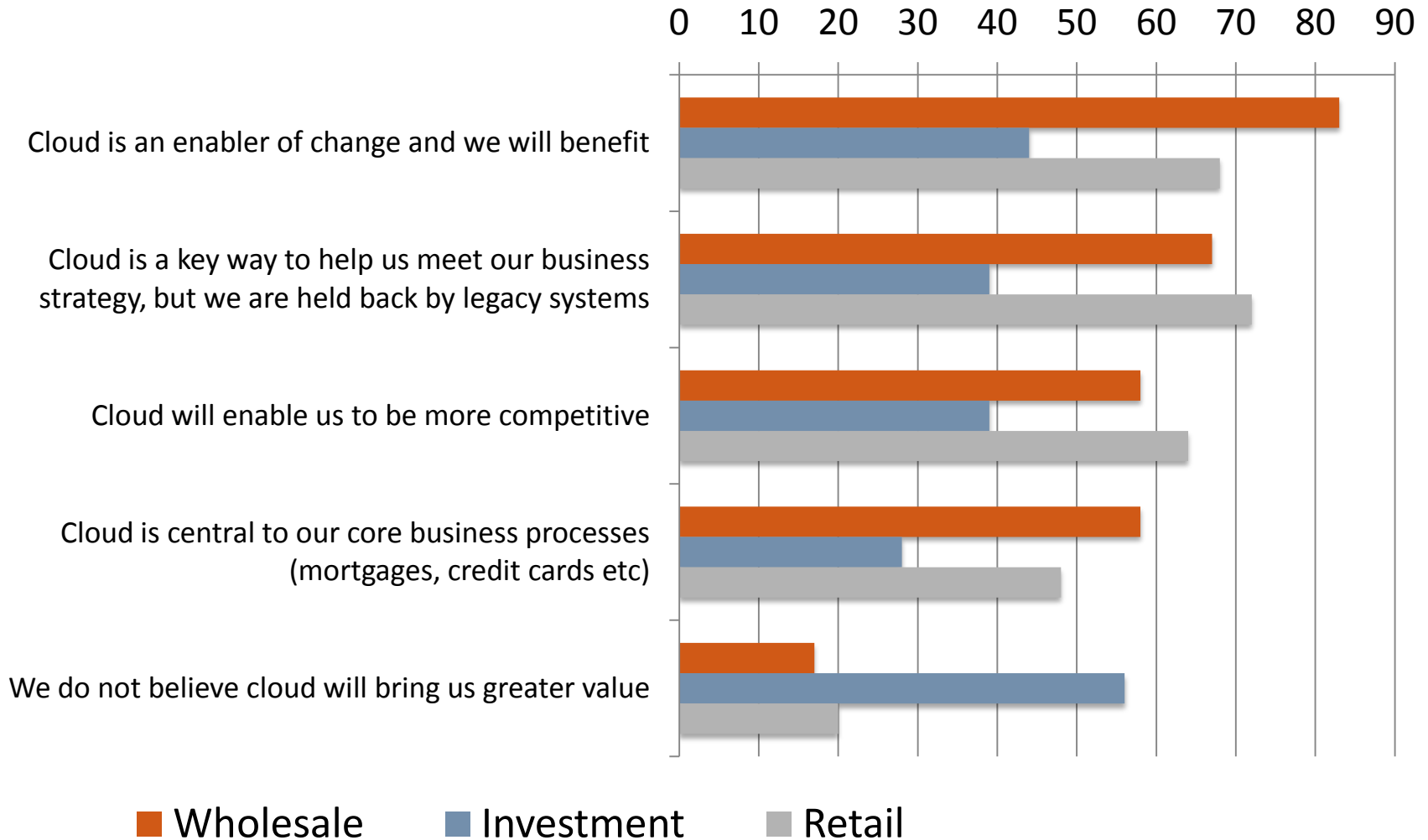


# Cloud Factors Driving Financial Services



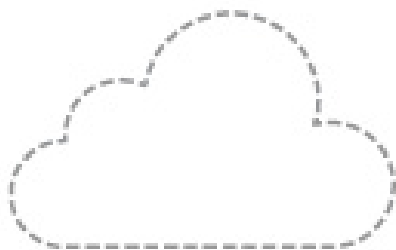


# Cloud Perceptions in Banking



# Different Functions, Different Clouds

## No Cloud



Risk management  
Order management  
Proprietary trading applications  
Real-time logic and analytics  
Portfolio accounting

## Private Cloud



Personnel and HR  
Front- & back-office applications  
Internal line-of-business applications

## Public Cloud



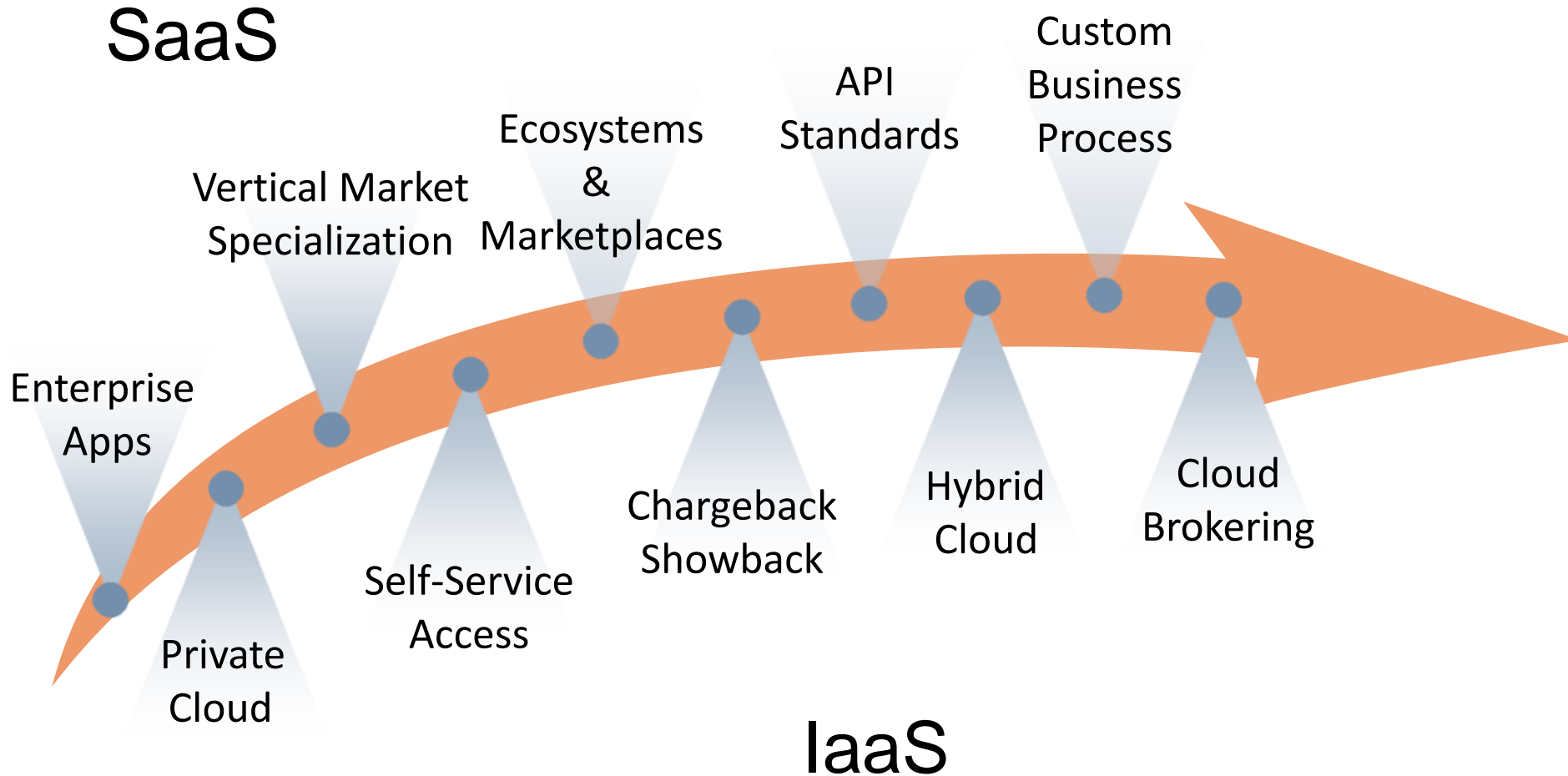
Utility computing  
Administration  
Enterprise emails  
Storage

## SaaS

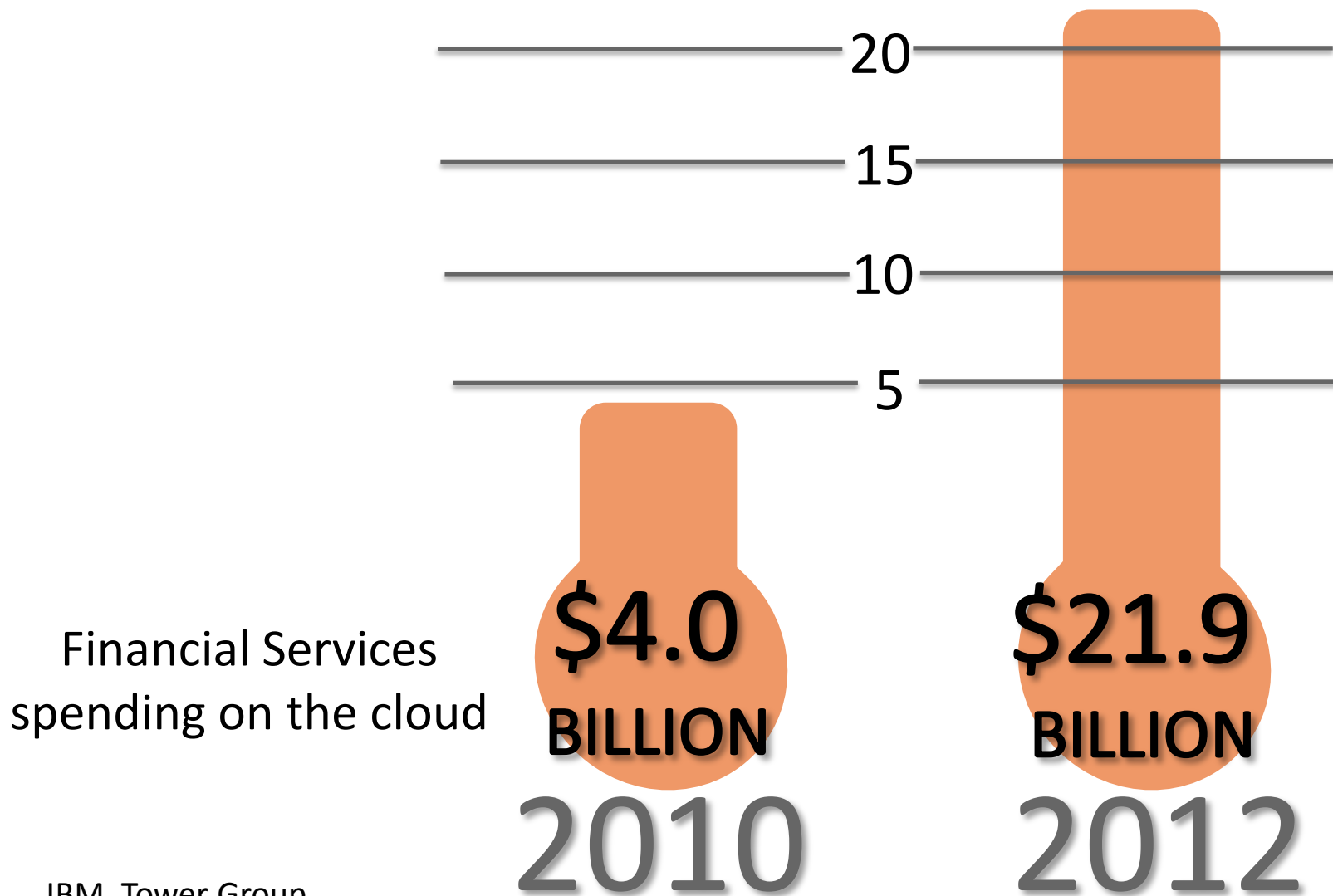


SaaS applications  
(such as NYSE Technologies Capital Markets Community Platform)  
Trading  
Asset management  
Market data

# Future of the Cloud: Key Milestones



# Investment is rocking



Financial Services  
spending on the cloud

IBM, Tower Group

# Requirements in the Cloud

1. Open
2. Automation
3. Simplicity
4. Self-Service
5. Hybrid



# Cloud 2.0



1/3<sup>rd</sup>

of financial services executives see  
the cloud as enabling new business

# eLynx



## Loan Fulfilment as a Service (SaaS)

### **CRITICAL BUSINESS ISSUE:**

- Use the cloud to reinvent the loan process to speed cycle times and improve loan quality

### **REQUIREMENTS:**

- Multi-tenant and secure – eLynx serving 25 of top 50 banks in US
- Scalable – have over 100,000 registered settlement agents
- Always On – eLynx service processes 1/3<sup>rd</sup> of US loan volume
- Automated – service must be aggressive priced for competitive market

### **BENEFITS:**

- Can now provide instant capacity to handle real time spikes in demand
- Guarantee clients security through hardware isolations
- Improved service availability – now over 5 - 9's
- Reduced operational costs by 65 percent
- Cut recovery times in half through run book automation

# Daiwa Research Institute

## Myanmar Central Bank



### **CRITICAL BUSINESS ISSUES:**

- Use the cloud to modernize the financial systems so that the financial industry can accelerate – not hamper – the country's growth

### **REQUIREMENTS:**

- Create a hybrid cloud service spanning multiple geographic data centers
- Hardware agnostic solution to support infrastructure from many providers
- Provide for quick and easy provisioning and scaling
- Multi-tenancy for isolated cloud zones
- Support cloud running both physical as well as virtual workloads
- Single management processes to reduce TCO

### **BENEFITS:**

- Can migrate workloads across unified multi-vendor resource pool
- Automated failover between server vendors for both P+V workloads
- Secure consolidated development environment for on and offshore developers
- Success internally at DIR has led to a financial infrastructure modernization project with Myanmar Central Bank – multi-phase project with DaaS, IaaS, & SaaS



# American Capital

## Cloud for Portfolio Companies



### **CRITICAL BUSINESS ISSUES:**

- Use the cloud to set up a new business that provide value added cloud services (IaaS, SaaS) to portfolio companies

### **REQUIREMENTS:**

- Differentiate company by offering a secure self-service cloud to clients
- Provide high service levels for key business applications
- Minimize staff costs needed to provide and manage a cloud IaaS offering
- Minimize the infrastructure costs needed to rapidly grow this type of service

### **RESULTS:**

- Reduced CapEx by \$1 million in first year
- Reduced operational costs by 50%
- Ability scale service quickly by adding capacity on demand
- Cut recovery times in half through run book automation
- Provided differentiation via a new private cloud service

# Key Take-Aways

- Cloud 1.0 – Cloud as a Technology
  - All about lowering cost and increasing agility
  - Happening selectively across industry segments and applications
  - Driving this is adoption of private clouds and use of SaaS
- Cloud 2.0 – Cloud as a Business Model
  - This is where it gets interesting
  - Cloud is the catalyst to transform business models
  - Cloud has the potential to disrupt competitive landscapes
  - Winners among those that adopt early and redefine themselves and their role in the markets they serve



proudly present:

# NaviSite

Enabling A Radically Different Organization  
Through Technology

Kevin Nyberg  
VP, Solution Architects

**CLOUD COMPUTING**  
Revolutionizing Business Processes in  
Government, Healthcare & Financial Services  
**EAST 2013**

**MAY 19-21, 2013**  
Boston Marriott Copley  
Place, Boston MA

# About NaviSite



## Differentiated by...

- The industry leading, high performance, enterprise class cloud platform
- A suite of elastic, scalable and feature rich “as-a-service” offerings
- Solutions customized for the specific requirements of every customer
- Superior customer service with unparalleled service level agreements
- Unparalleled breadth and depth of managed services skills and experience
- Flexible, dynamic, responsive and entrepreneurial culture

# Global Presence

Managing Complex Infrastructure and Application Environments for 15+ years

- A Time Warner Cable Company
- Approximately 900 employees
- 1200+ Customers
- Ten data centers
- Three US cloud nodes
- 130,000 SF data center space



# Industry Credentials

## SSAE 16 Type II Audit

- Assures NaviSite customers that its processes, procedures and controls have been formally reviewed
- Demonstrates compliance with Section 404 of Sarbanes-Oxley Act



## ISO 27001 Certification

- In process

## Microsoft Gold Certification

- Demonstrates that an application outsourcer meets high levels of service readiness, competency, capacity, and scalability



## Oracle Certified Platinum Partner

- Demonstrates NaviSite's superior product knowledge, technical expertise and commitment to Oracle products



## Cisco Advanced Managed Services Provider

- Cisco Managed Services Advanced Partners use Information Technology Infrastructure Library (ITIL) Foundation processes, practices, and tools to support advanced Cisco technologies.



## VMware Service Provider Professional

- NaviSite has reached VMware Sales Professional and Technical Sales Professional certification status



## HP Cloud Agile Partner



## Other Industry Certifications



# NaviSite

## Financial Services Customer Case Study

GLOBAL ASSET MANAGEMENT FIRM  
OVER 600 BILLION MANAGED ASSETS  
OVER 3000 EMPLOYEES

### Objectives

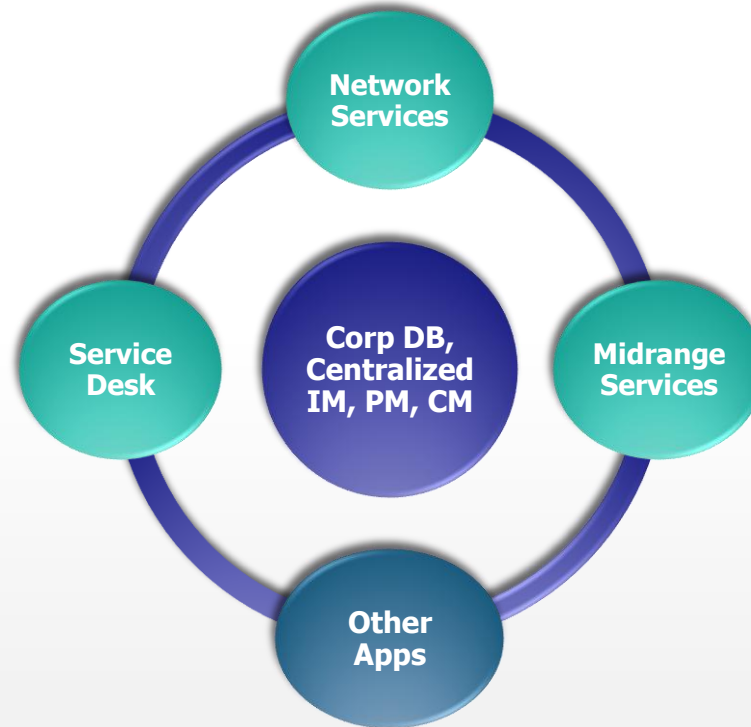
- Transition majority of corporate shared services to affiliate organizations
- Moving commodity services to a Service Provider model
- Reduce overall cost while improving operational global efficiencies

### Proposed Solution

- 600 + Managed Systems
- Full IT Outsourcing of Managed Services (Production and DR) including Service Desk
- Managed Application Services (ERP and Messaging) with Cloud as the delivery mechanism
- Adjacent Cloud applications – Desktop as a Service, Back up as a Service
- Program Management

# Solution Overview

- LAN/WAN support
- Firewall/IDS
- Load balancing
- Internet bandwidth



- Help Desk Support
- Image Management
- Patch Management
- Anti-Virus
- Asset Management
- Service-now.com
- Bomgar
- Right Answers

- OS Support
  - LINUX
  - Windows
- Hardware Break/Fix
- Patching, Updates
- Backups
- BC/DR
- DBA
- Dedicated & Cloud Servers

- Exchange and LYNC
- SharePoint
- PeopleSoft
- Hyperion



# NaviSite

## Results

- NaviSite committed and delivered total solution in 100 days – on target
- Client has met and exceeded all internal financial objectives as a result of partnering with NaviSite
- Compliance adherence and reporting has been enhanced
- Client is a strategic member of NaviSite Customer Advisory Board
- NaviSite is a key enabler to client's continued global growth and expansion