

# The Cloud Era

Zayan Sadek Territory Manager, Service Providers

December 05, 2011

Mazen Abi Najm System Engineer, DC & Cloud

## Agenda

## Cloud Opportunity

- Cisco's Strategy and Differentiation
- **Cloud Architecture**
- **Next Steps**

## Things Change



## Modern Business

#### **Business Focus**

- Products, offerings
- Customer service
- Employee productivity

#### **Beneath the Waterline**

- Infrastructure sprawl, complexity
- Low asset utilization
- High operations overhead
- Difficult to manage, scale, optimize, reconfigure, maintain

#### Impact

- Low agility, efficiency, resilience
- Reduced competitiveness



## Meeting Today's Business Challenges

...we need a solution that enables us to respond to customers within hours instead of days"

"I need to achieve greater cost efficiency and increased IT agility...an elusive combination..."

"At the end of the day, I just want to simply, confidently say 'yes' to my business."

Risk

Growth

Margin

## Data Center is today at a Critical Juncture Convergence of Traditional IT and new Business Pressures



Empowered User



Realtime Information



Collaborative Applications



Economic Uncertainty

New Business Pressures

> Operational Challenges





Asset Utilization Complex Provisioning

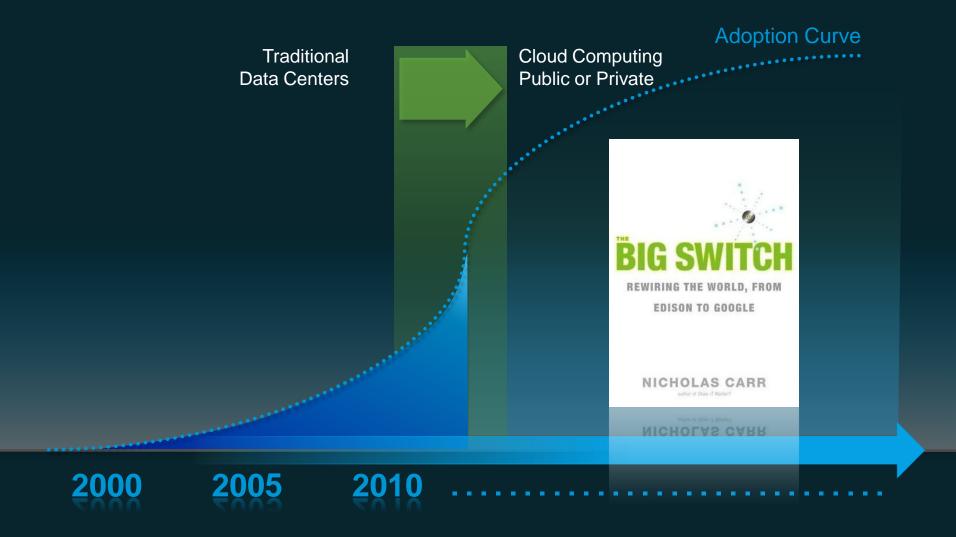


Integrity and Availability

Consumption

Energy

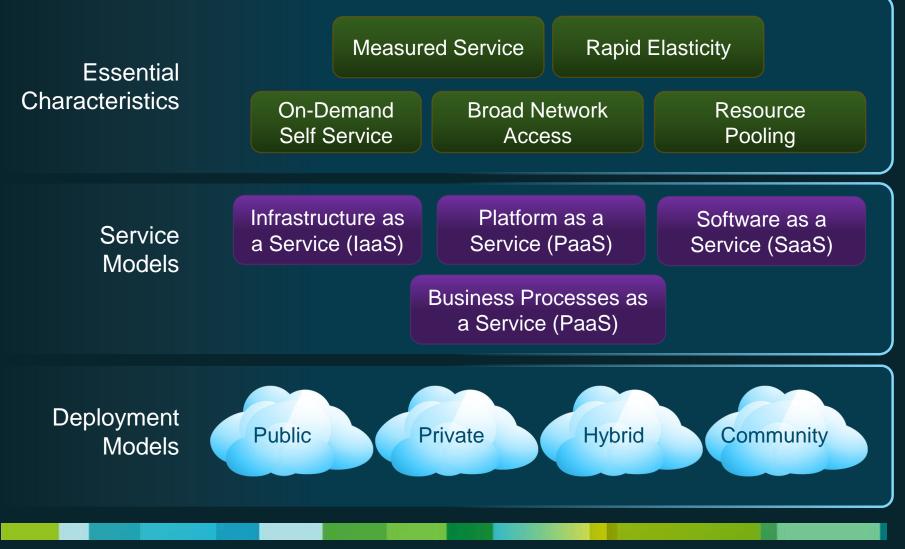
# The Beginning of a Major Shift



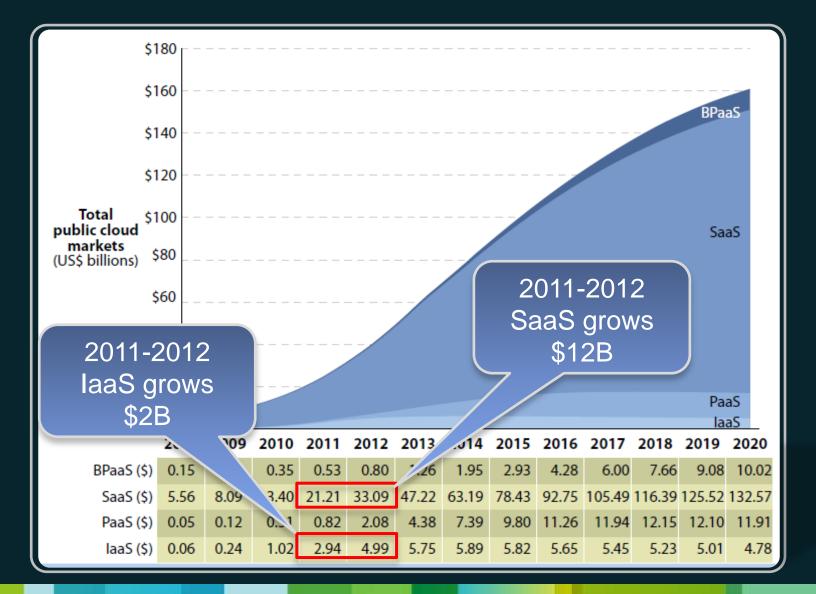
## Data Center Architectural Evolution

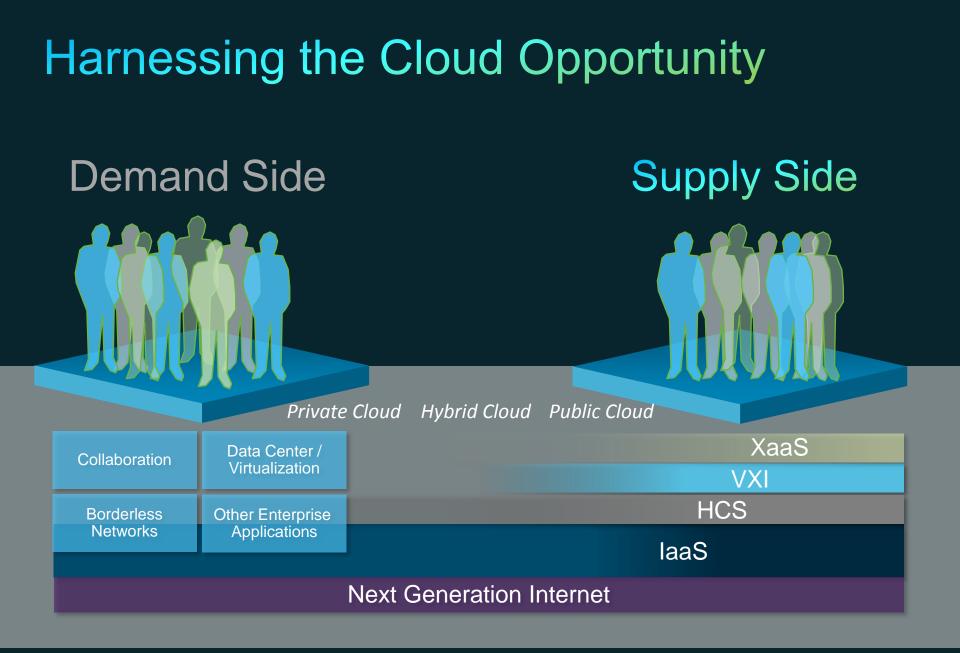
Data Center 1.0	Data Center 2.0	Data Center 3.0							
Mainframe	Client-Server and Distributed Computing	Service-Oriented and cloud							
Centralized	Decentralized	Virtualized							
Application Architecture Evolution									

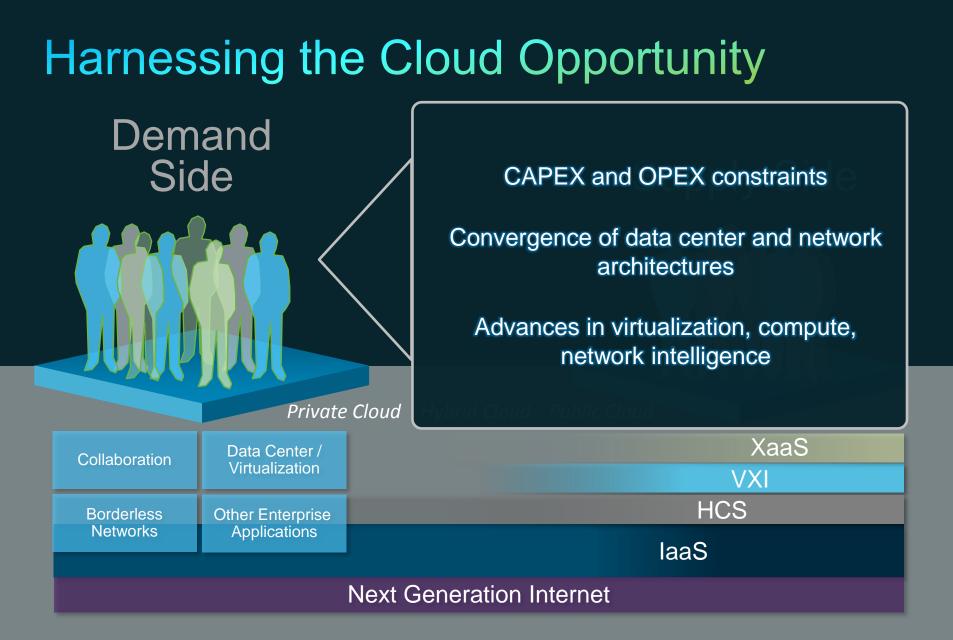
# **NIST Cloud Definition**



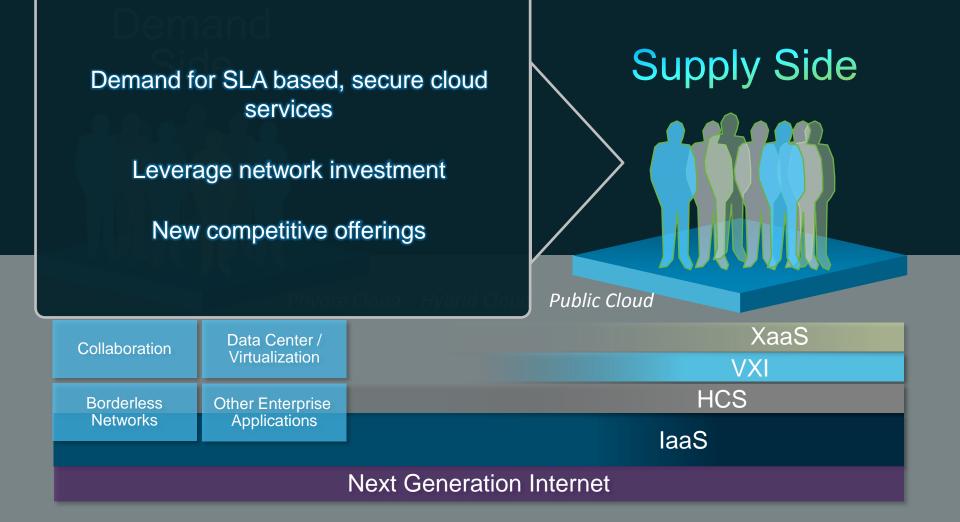
# The Cloud Market Opportunity



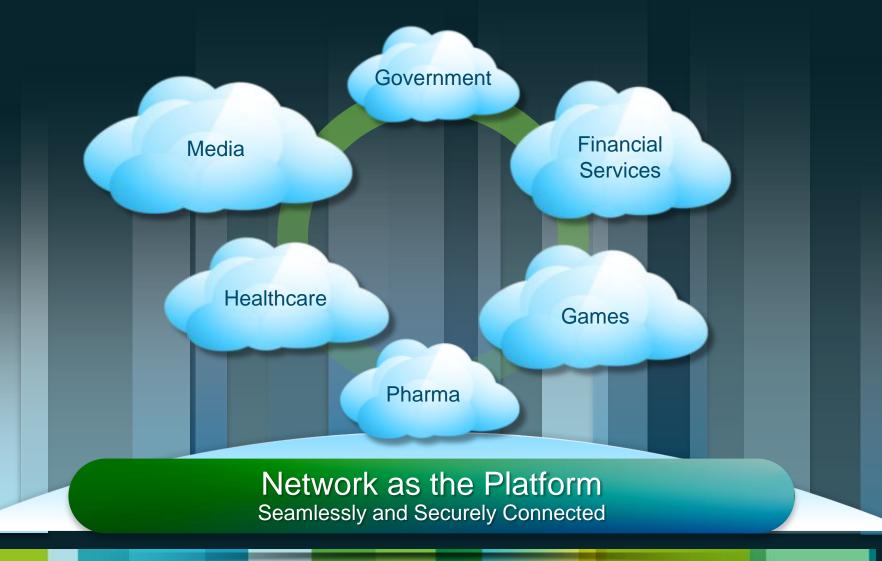




## Harnessing the Cloud Opportunity



# Vertical Cloud Opportunity



# 2011 Cloud Headlines for Service Providers



## Acquisitions are Shaping the Cloud Market



## Agenda

## **Cloud Opportunity**

## Cisco's Strategy and Differentiation

SP Cloud Architecture

**Next Steps** 

## **Cisco's Cloud Vision**

## Enabling Cloud Services Based on our Network Platform Advantage

# Cisco's Cloud Strategy

## Enabling Cloud Services Based on our Network Platform Advantage

### Tailored Solutions for Building Clouds



Enable customers to build and operate public or private clouds

## Rich Ecosystem with Integrated Solutions



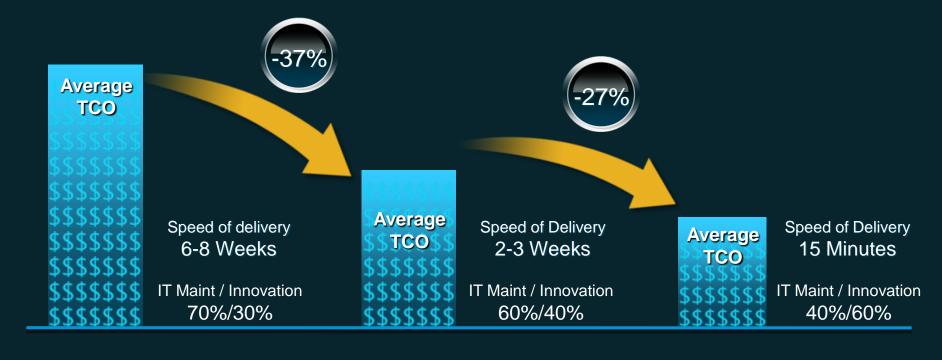
Enable customers to deploy tested, best of breed solutions

#### Accelerate the Use of Cloud Services



Enable customers to deploy cloud services to collaborate and secure their business

## Cloud Case Study Cisco IT Elastic Infrastructure Services (CITEIS)



Legacy Computer Platform 100% Physical

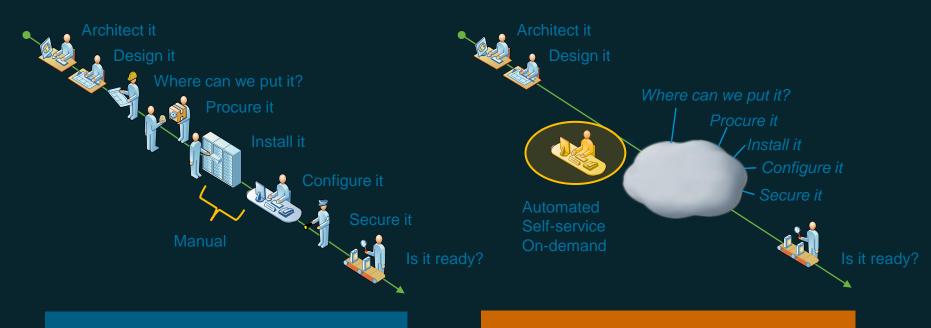
Legacy Computer Platform 46% Physical : 54% Virtual

Unified Computing Platform 25% Physical : 75% Virtual 100% Automated

#### Virtualization

Unified Infrastructure and Automation

#### Introducing CITEIS – Concept A Framework for Providing Infrastructure as a Service



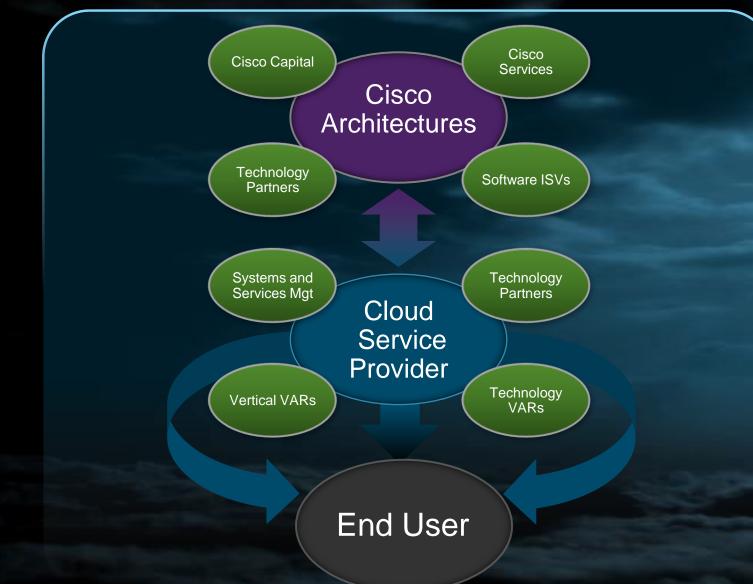
#### **Before CITEIS**

- Machine-oriented
- Manual provisioning
- Hard to control utilization
- High provisioning & ops cost
- Extended provisioning time
- Configuration risk

#### After CITEIS

- Service-oriented
- Self-service; automated provisioning
- Elasticity (capacity-on-demand)
- Optimized provisioning & ops cost
- Rapid provisioning
- Increased Resiliency and Availability

# **Open Cloud Ecosystem**



## Service Creation Methodology is Essential



Envision innovative new cloud services Unmatched technology and partner ecosystem

Demand creation and fulfillment

#### **Product Management**

Engineering and Operations

#### Sales and Marketing

## Agenda

**Cloud Opportunity** 

**Cisco's Strategy and Differentiation** 

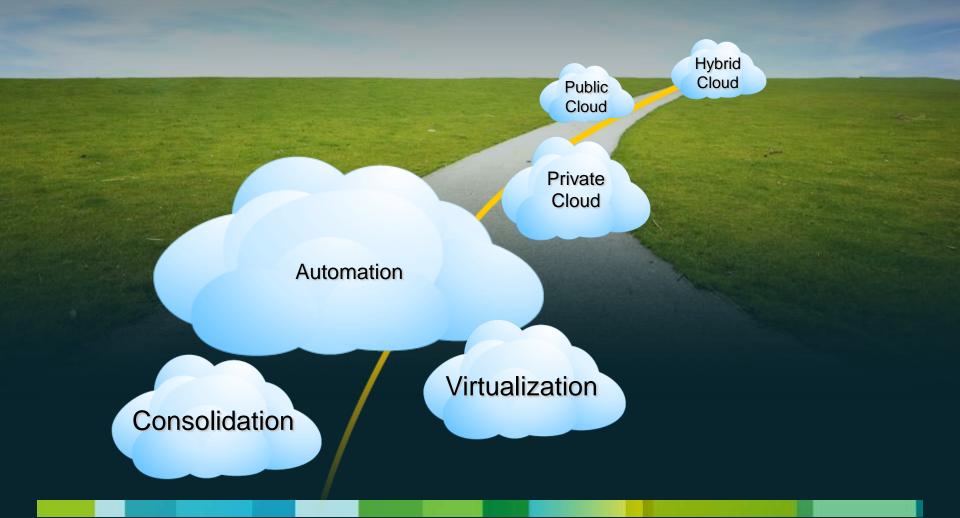
Cloud Architecture

**Next Steps** 

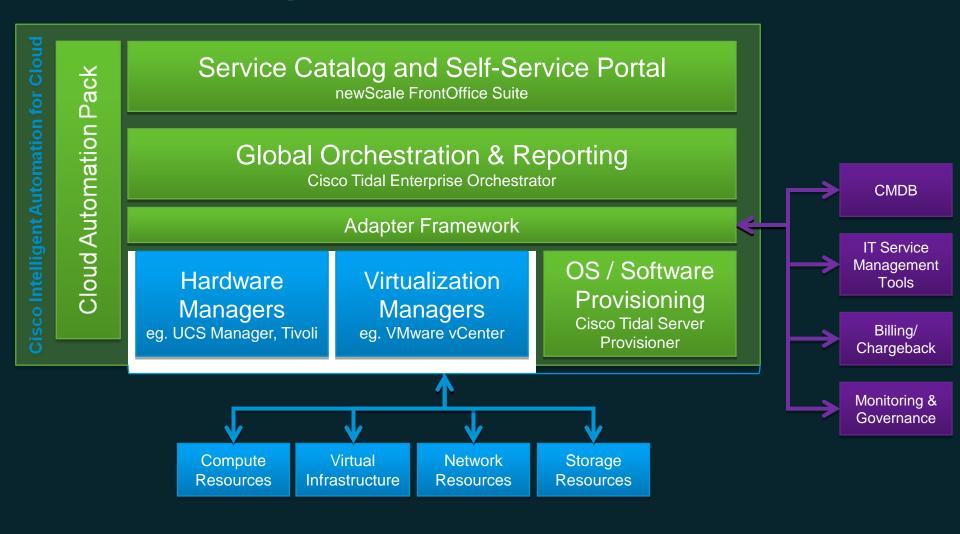
## **Requirements for Cloud Services**



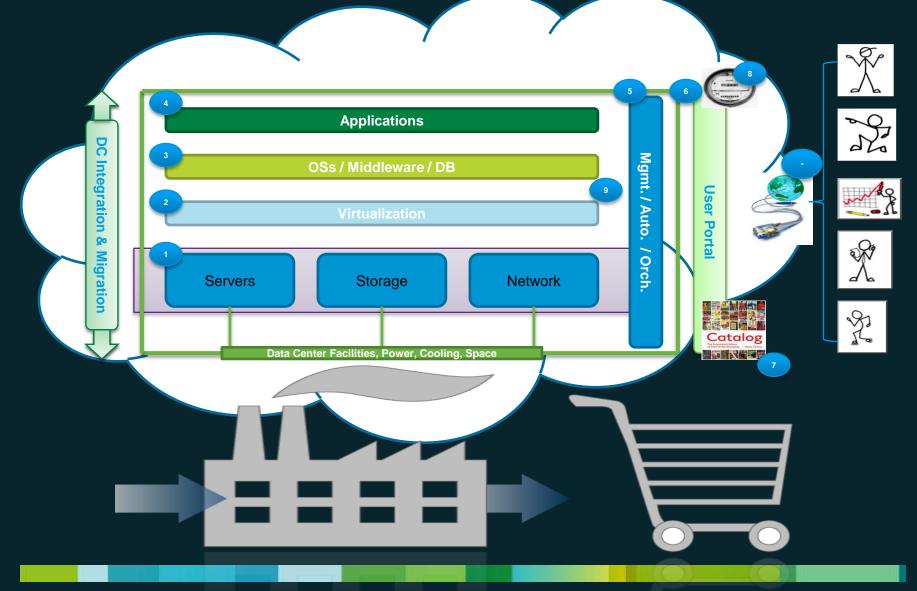
## Where is the customer on this Journey?



## **Cisco Intelligent Automation for Cloud**



## Cloud Requires Factory + Storefront



# **Cloud Capability Matrix**

		Facilities / Infrastructure	Virtualization	OS / Middleware / DB	Applications	Management / Automation / Orchestration / DC Interface	User Interface	Service Management / Service Catalog	Finance / Chargeback	Process / Governance / Operations	Security / Compliance
5	Public Cloud					7					/
4	Private Cloud										
3	Automated										
2	Virtualized										
1	Consolidated	Factory + Storefron									nt
0	Legacy										

# **Cisco Intelligent Automation for Cloud**

#### Enable the IT Storefront:

- ✓ Service Portal
- ✓ Service Catalog
- ✓ Policy-based controls
- ✓ Lifecycle management
- ✓ Pay-per-use tracking
- Enable the IT Factory:
  - ✓ Day 1 orchestration and automation
  - ✓ Day 2 management and scheduling



- Across hybrid physical, virtual, and cloud environments, from desktop to data center
- Proven in deployments by the world's largest companies

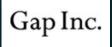








Cable&Wireless Worldwide







# **CIA: Sample Customers**



CIAC platform has attracted blue-chip customers across a variety of vertical markets

## Agenda

Cloud Opportunity Cisco's Strategy and Differentiation SP Cloud Architecture

## Next Steps



## Enabling the Journey to Cloud Summary – Next Steps

Cloud momentum is accelerating



Cisco's strategy is to enable cloud providers

## Cloud monetizes your network investment



The network, unified computing, virtualization, and automation make the cloud possible



Cisco's Envision, Build & Operate, Market & Sell enable faster time to value



# Thank you.

#