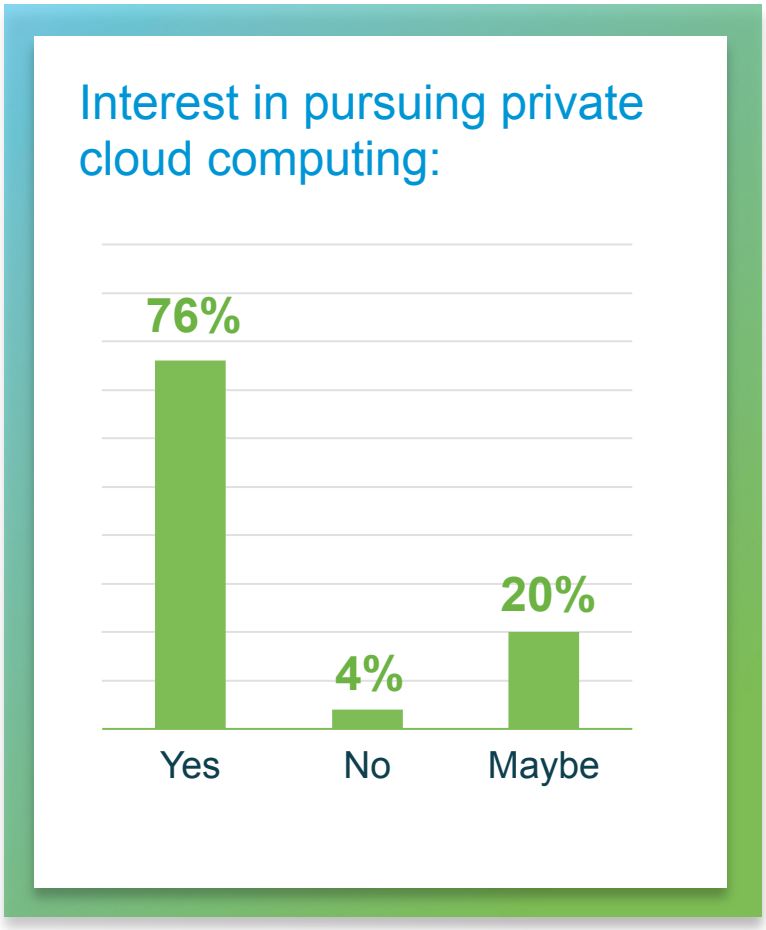
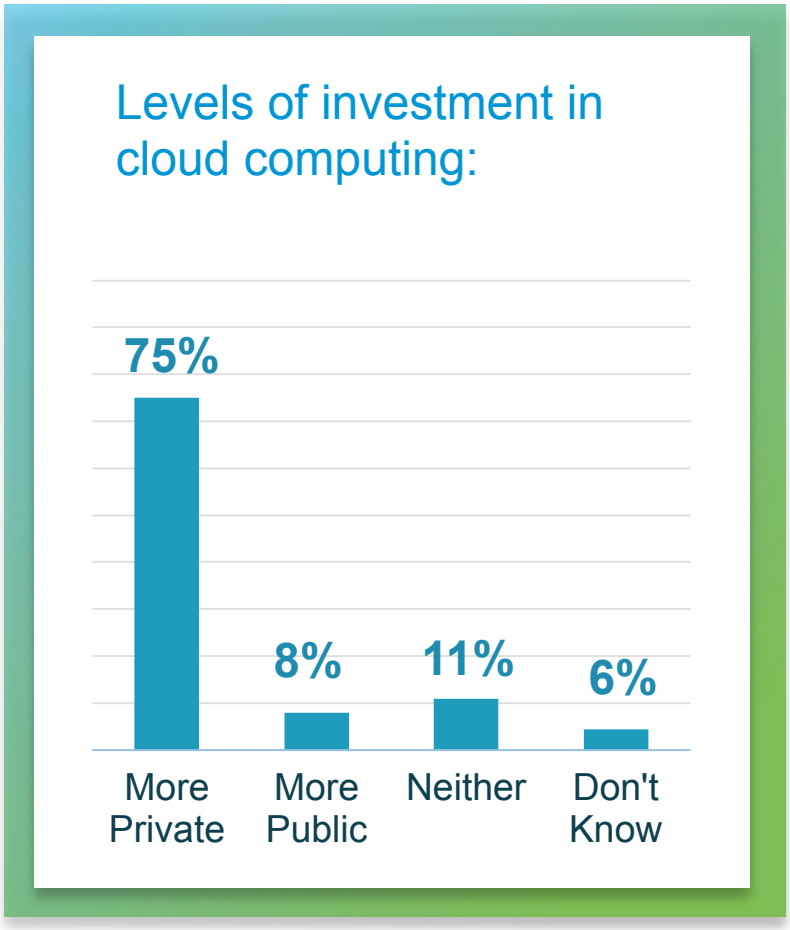
Cisco Intelligent Automation for Cloud

EBC Deck

Rising Interest in Private Cloud Computing





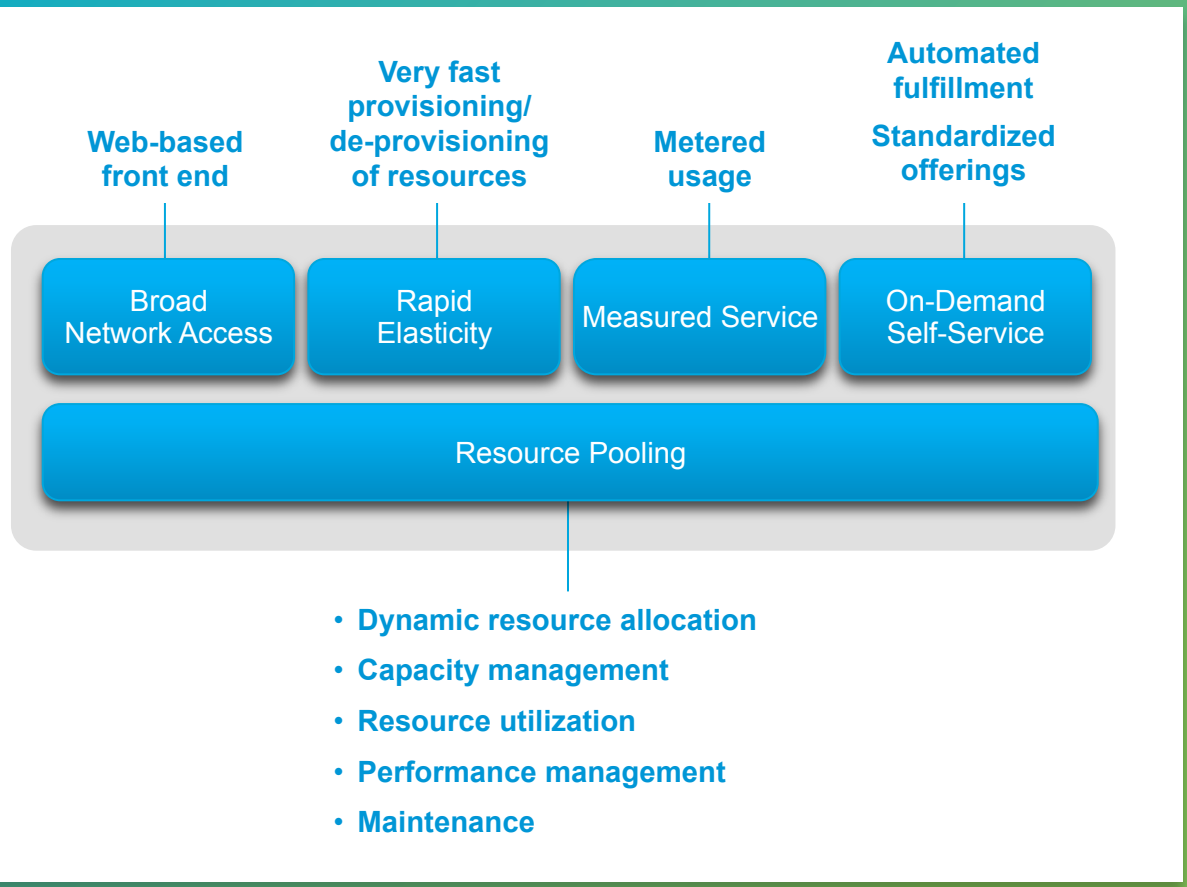
Gartner: Private Cloud Computing Plans From Conference Polls, April 2010

Business Drivers for Private Cloud

Long Provisioning Times for New Services	• Lack of agility • High cost of IT staff • Business-it dissonance	Lack of IT-Business Alignment
High Capital Costs Due to Provisioning for Peak Loads	• Low capacity utilization • High operating costs • Overcrowding of datacenter	
Pressure to Move Towards Proactive SLA Management	• Labor-intensive, manual processes for service management	
Lack of Centralized Control and Governance	• High error rates due to disconnected processes • Infrastructure sprawl	

Delivering Cloud Services Needs Automation

Common Characteristics of Cloud Offerings



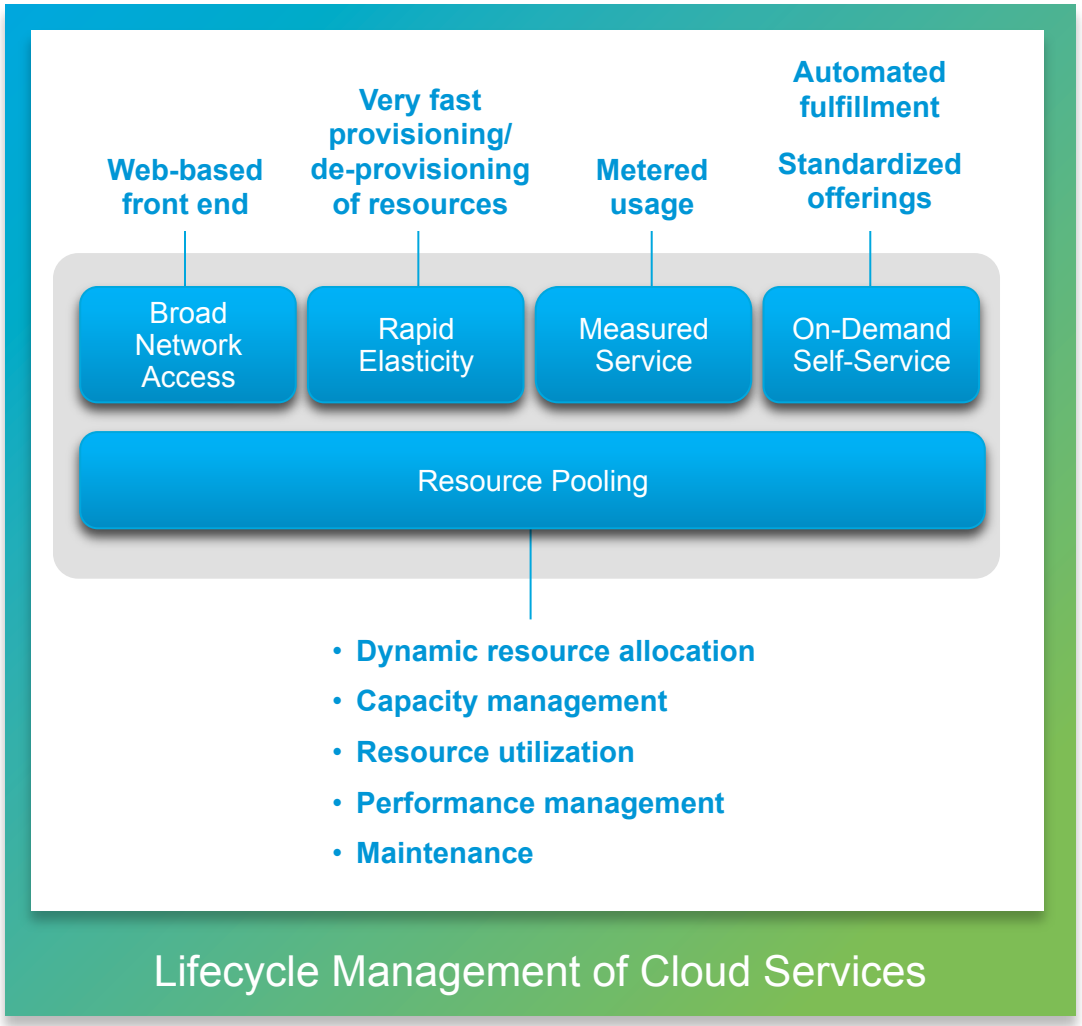
Source of 'Common Characteristics of Cloud Offerings': NIST Working Definition of Cloud Computing
http://www.csrc.nist.gov/groups/SNS/cloud-computing/index.html

Lifecycle Management of Cloud Services

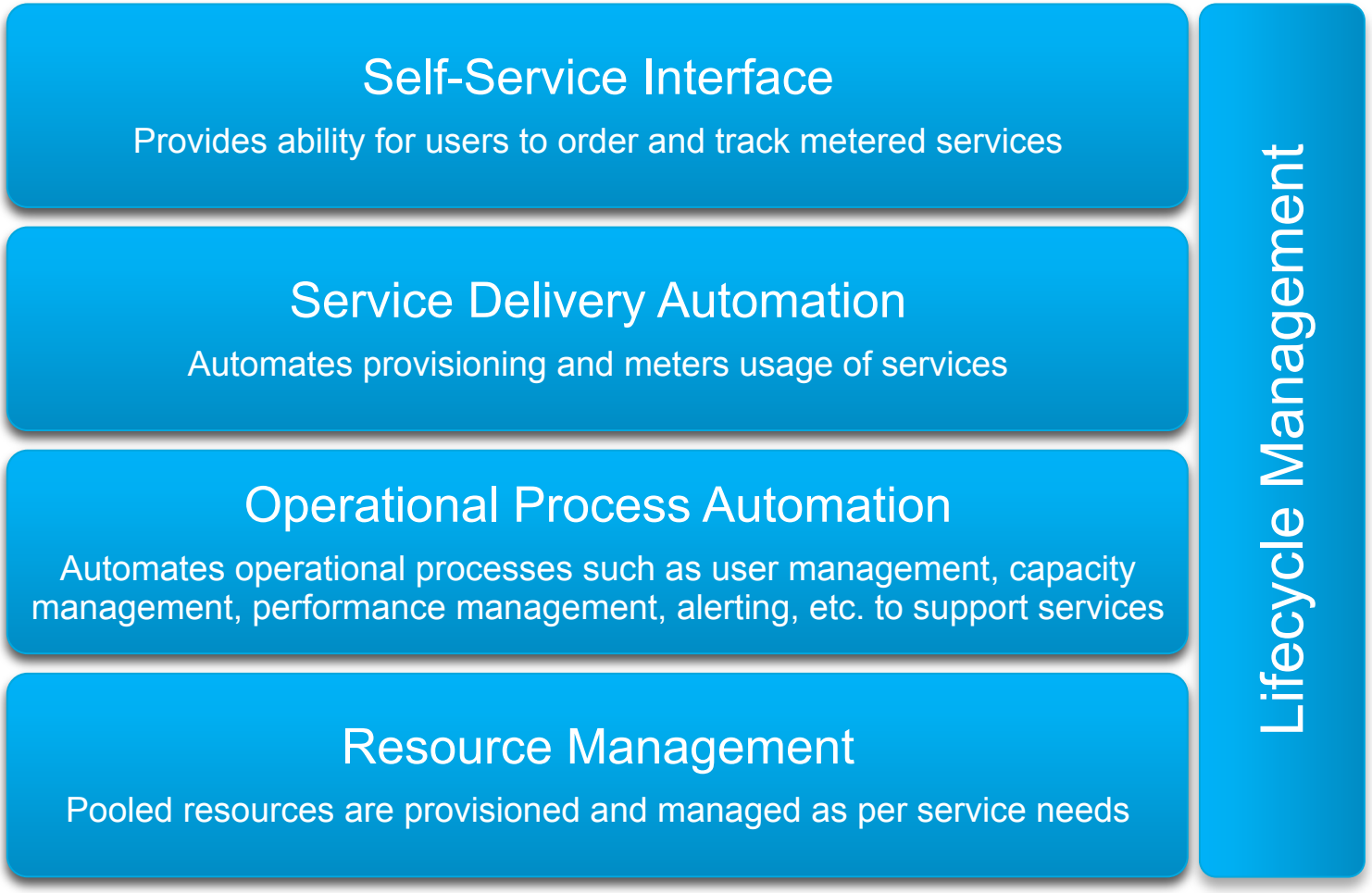
Elements of Private Cloud Computing

Lifecycle Management

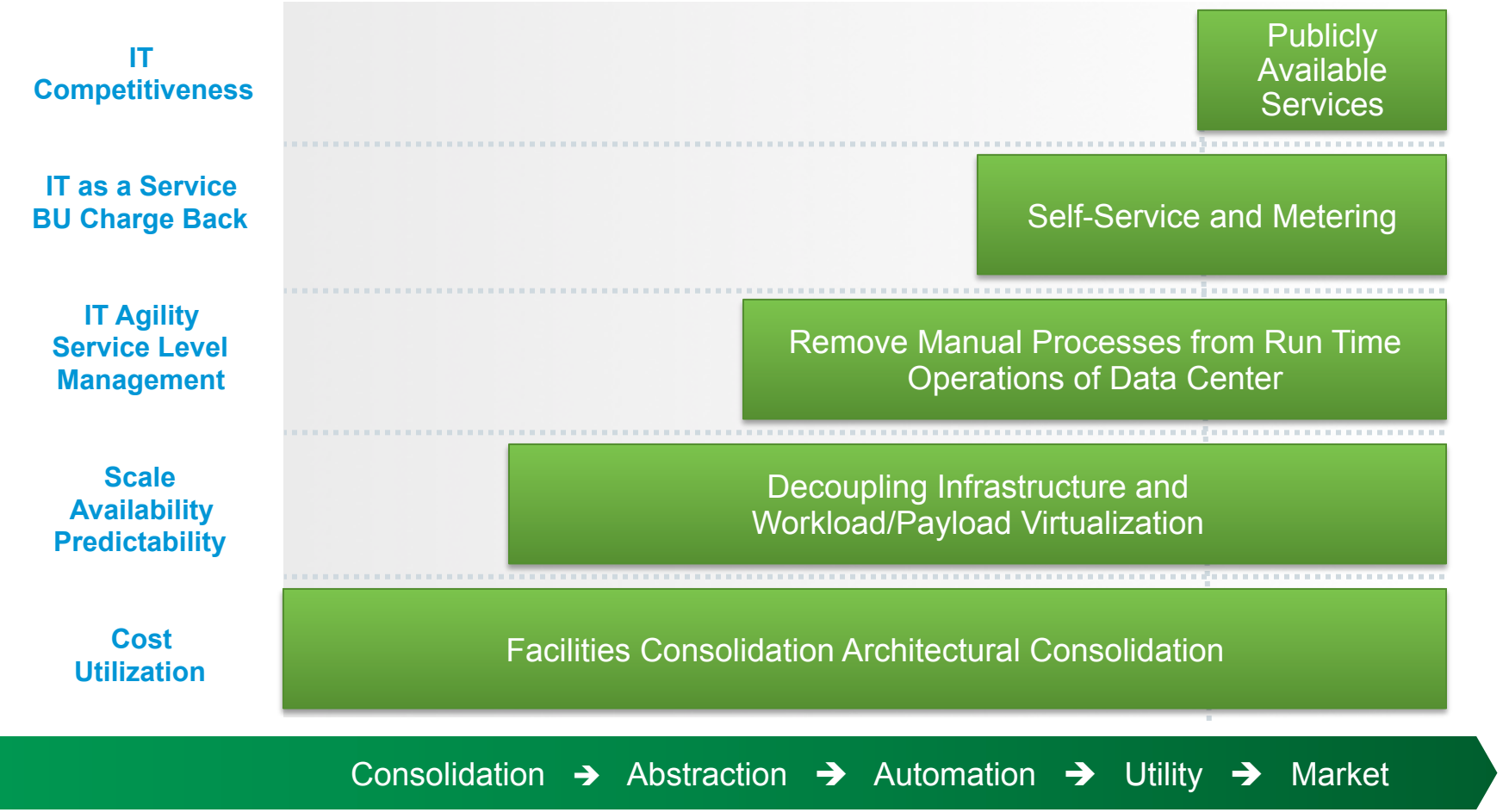
- Self-Service Interface: Provides ability for users to order and track metered services
- Service Delivery Automation: Automates provisioning and meters usage of services
- Resource Management: Resources are provisioned and managed as per service needs
- Operational Process Automation: Automates operational processes such as user management, capacity management, service level management, service desk integration, alerting…



Elements of Private Cloud Computing



Finding the Right Solution for Your Stage

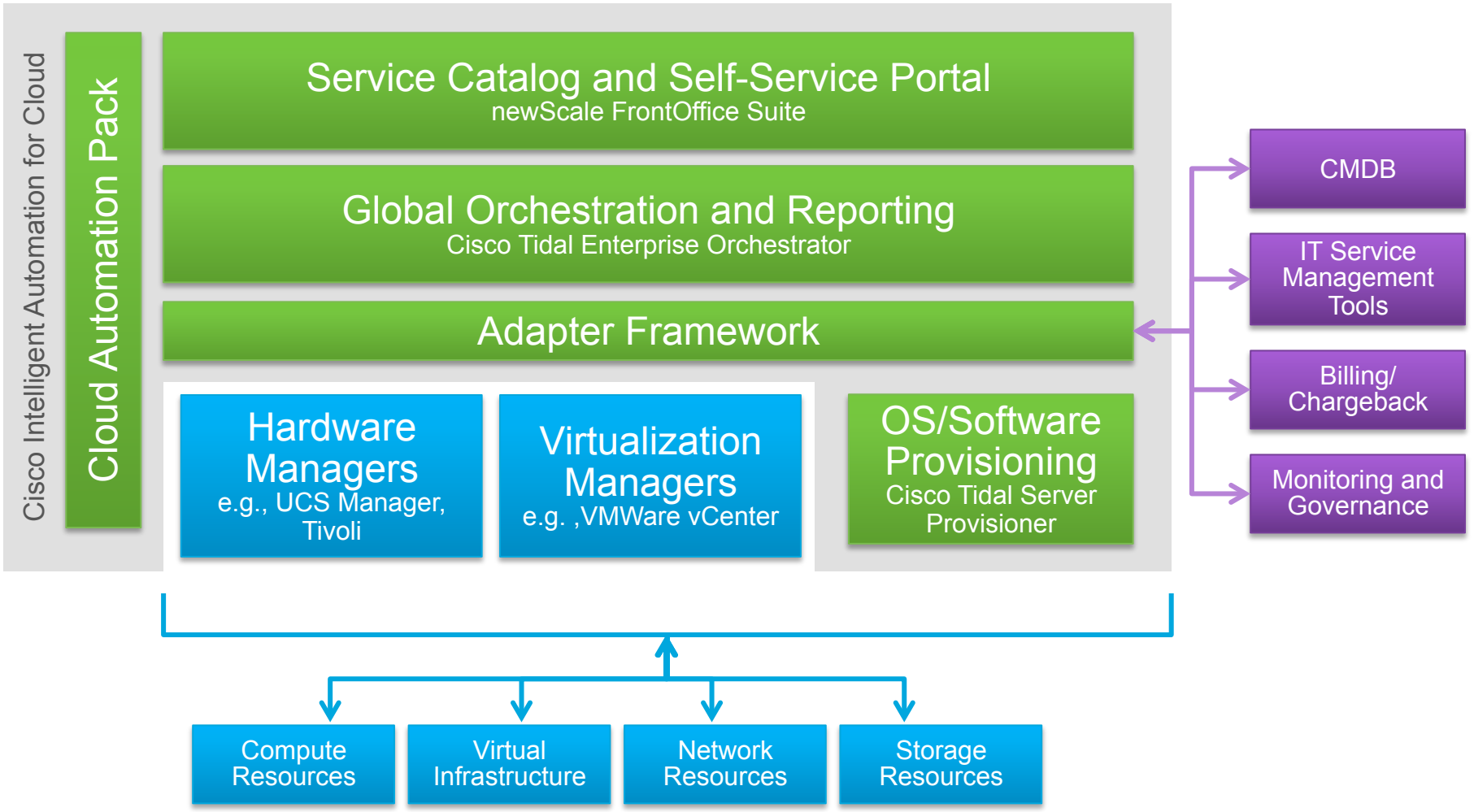


Cloud Maturity Model (James Urquhart)

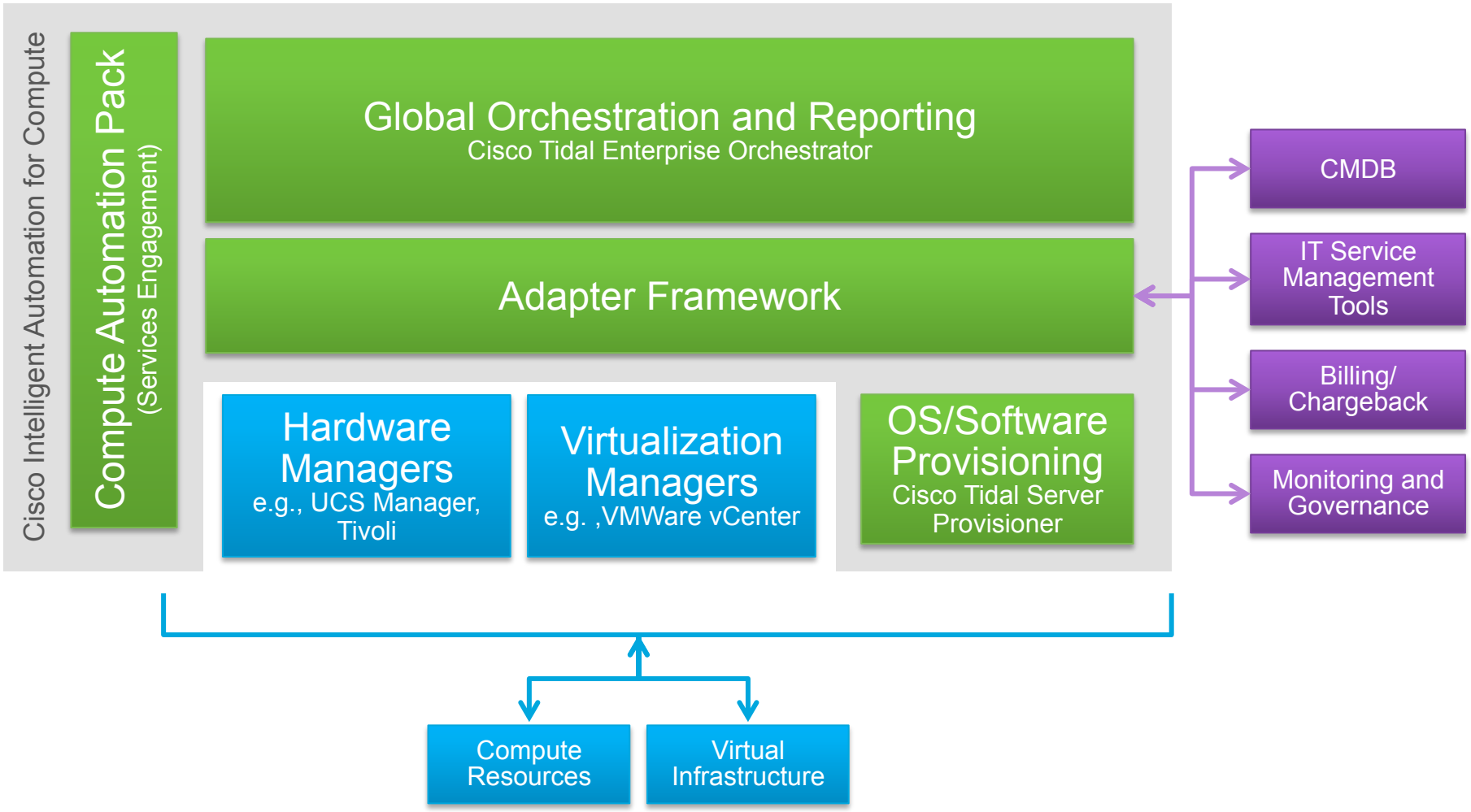
Cisco Intelligent Automation Cloud Offers

Utility Non-Technical User Orders a "SQL Server" and Everything Is Provisioned	**Compute Automation** Technical User Manages IT Processes Across Compute Tools
Cisco Intelligent Automation for **Cloud**	Cisco Intelligent Automation for **Compute**
Supports heterogeneous infrastructure (server, network, storage)—both virtual and physical	
Set of sample automation packs	
Full Infrastructure as a Service (IaaS) stack	Global orchestration across compute resources: server/ virtual server, OS and application software,
Order to global orchestration to infrastructure provisioning	Services engagement for integration for CMDB, ticketing, monitoring, etc.
Orchestration of compute, network and storage provisioning and deployment, OS and software provisioning	
Services engagement for setting up automation workflows, and integration for metering, chargeback, CMDB, ticketing, monitoring, etc.	

Cisco Intelligent Automation for Cloud



Cisco Intelligent Automation for Compute



Solution Highlights

Intelligent Automation for Cloud

Service catalog and ordering portal provides 1-stop shopping for infrastructure as a service

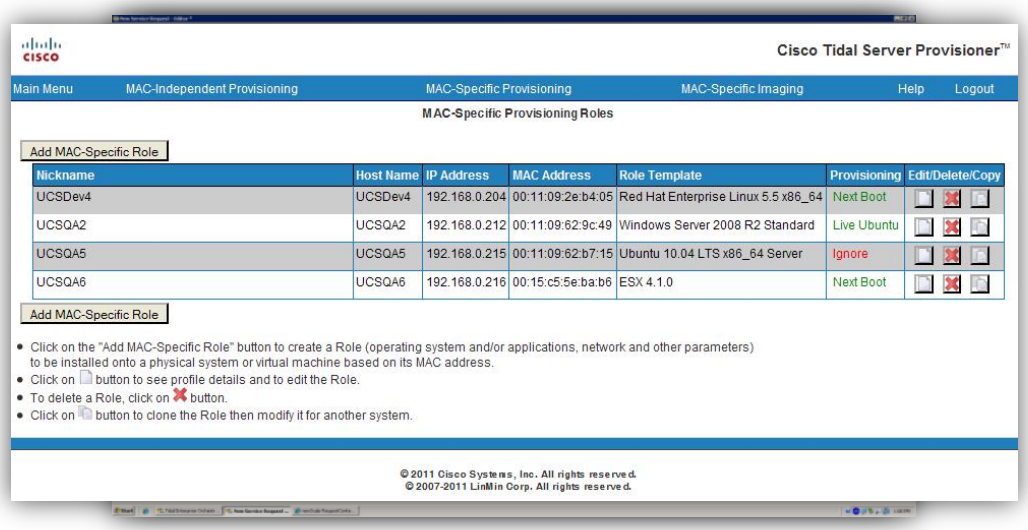
Single point orchestration of provisioning across all required components—compute, virtualization, network and storage

Intelligent Automation for Compute

Software provisioning including OS and application provisioning

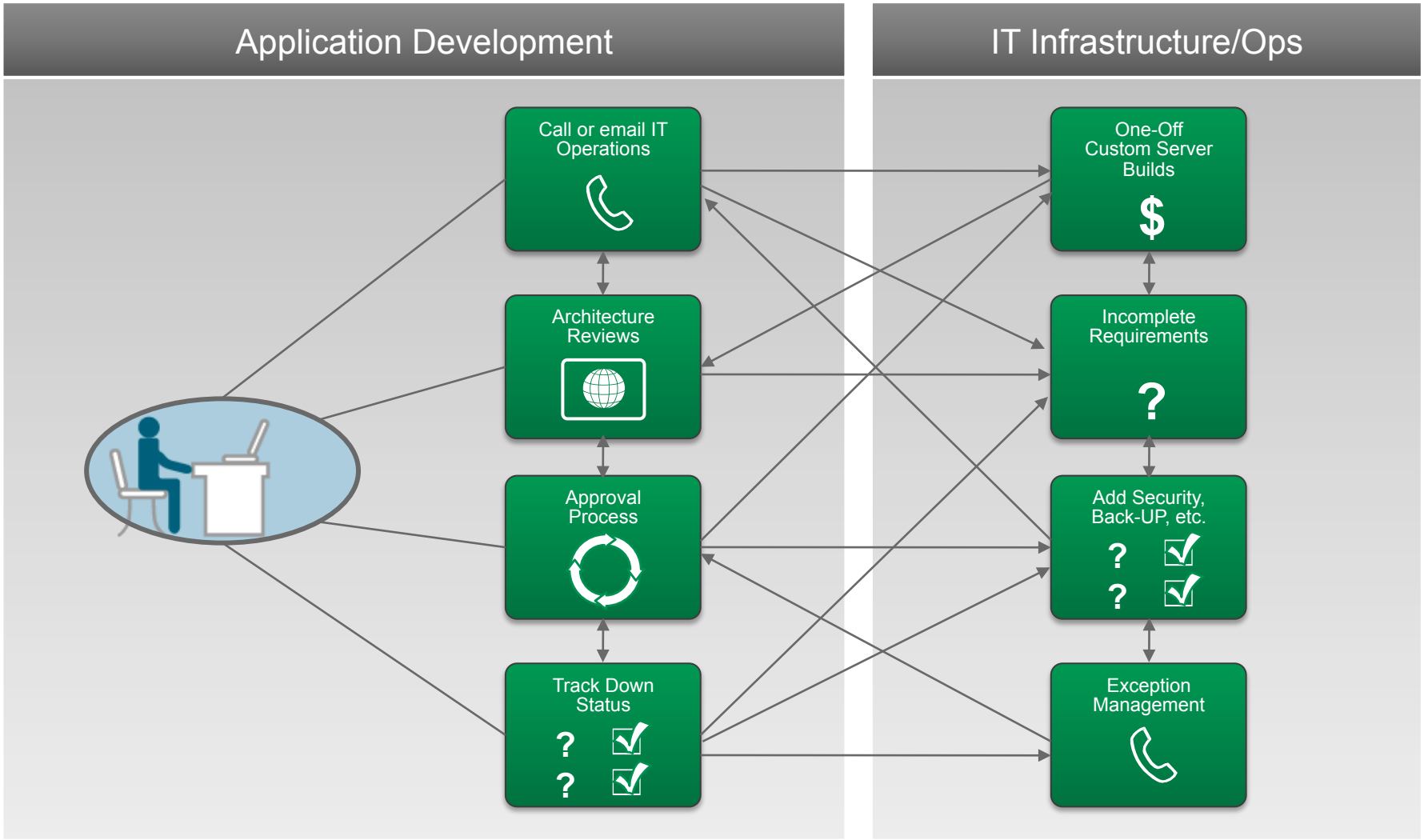
Open Architecture provides for integration with existing CMDB and ITIL investments and tools

Automation of ongoing operations

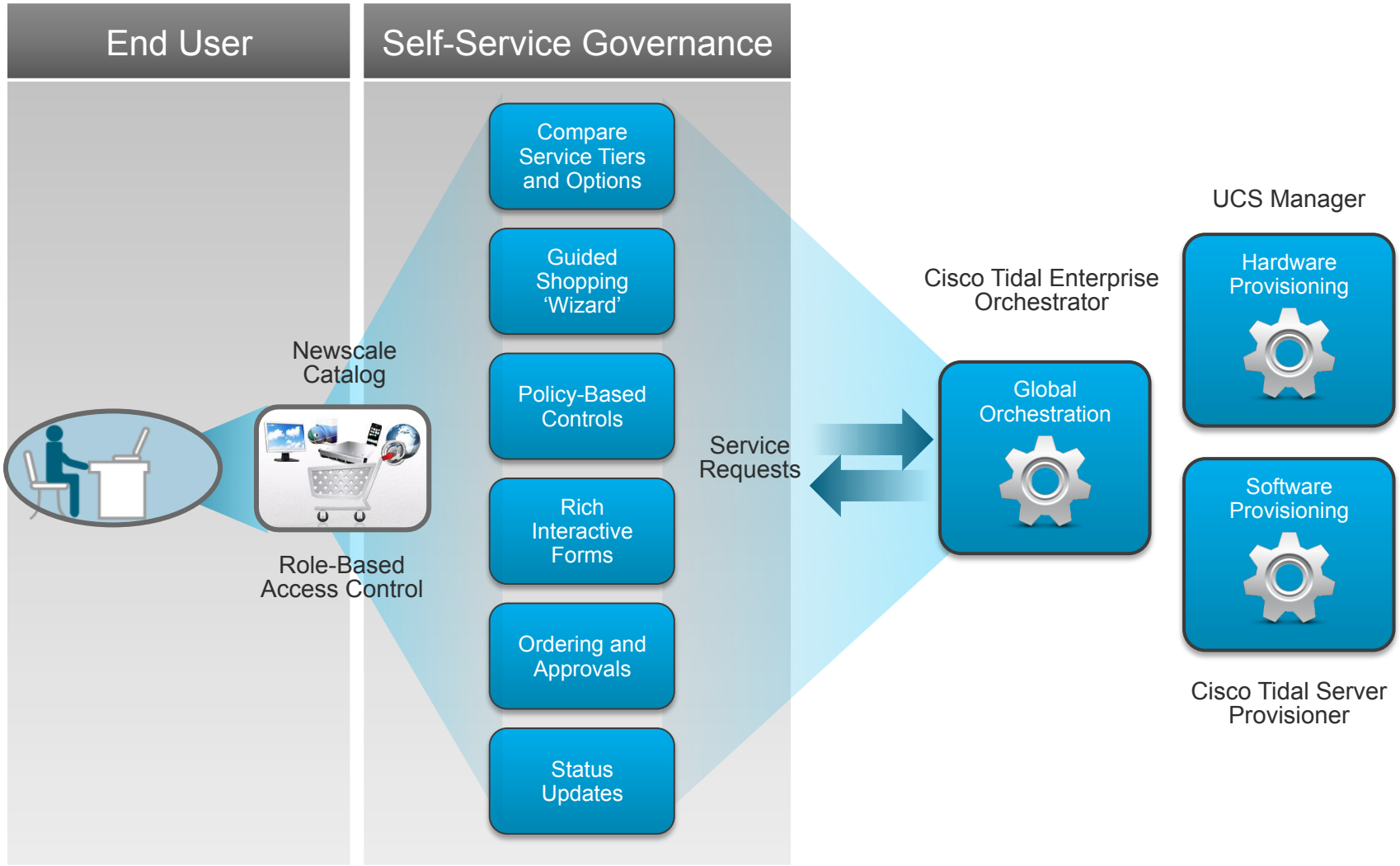


Use Case: Application Dev/Test

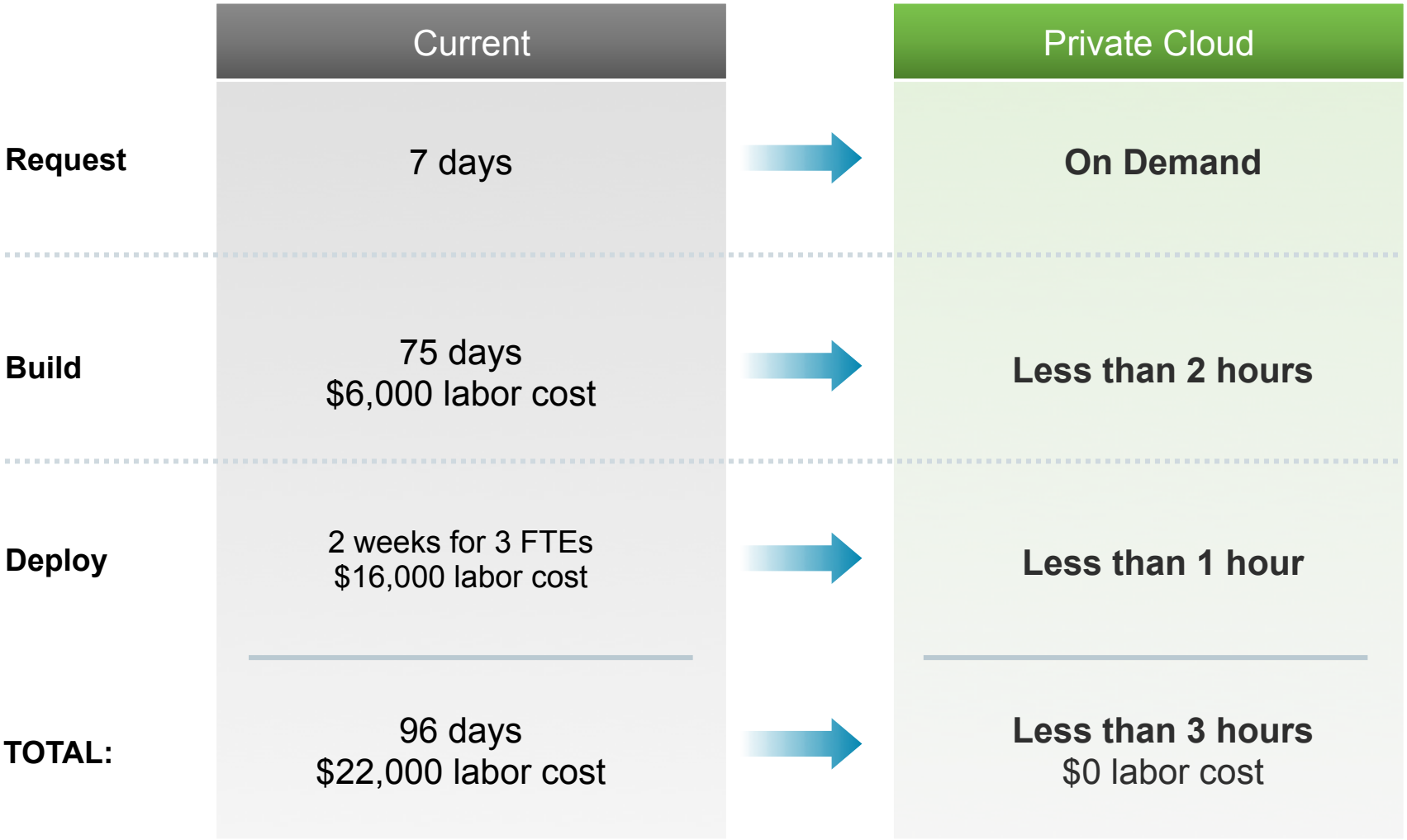
Complex, Time-Consuming, Expensive Provisioning Process



Service Delivery with Cisco Intelligent Automation for Cloud



Provisioning Time Benefits



Improve Availability Through Automation

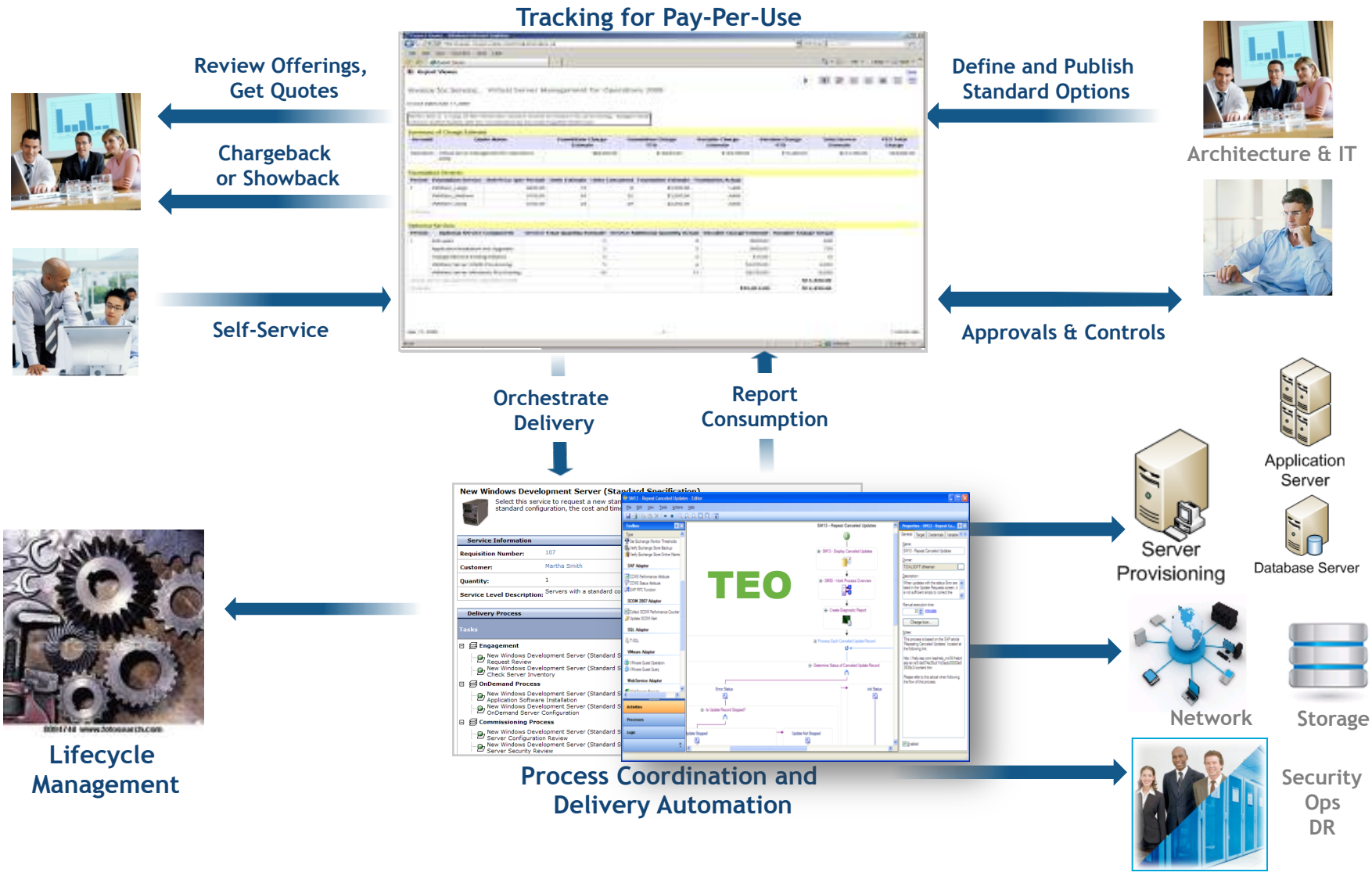
More than 80% of all mission-critical IT service outages are due to people and process errors and failures, with a significant number of those due to a lack of coordination among change, release and configuration management.

Gartner

Sample operations automated through workflows

- Deployment of Service Profiles
- Change management
- Installation of ESX
- Add infrastructure
- De-provision infrastructure
- Change a resource on a server
- Capacity Check and automate capacity availability
- Evacuate a blade for maintenance
- Routine maintenance

Our Solution at Work…



Service Capabilities