YOUR INDEPENDENT HPE SOFTWARE COMMUNITY

No Limits Cloud – Introducing the HPE Helion Cloud Suite
July 28, 2016

Brought to you by

Hosted By

Jeff Jamieson
VP Sales & Marketing
Whitlock Infrastructure Solutions

Today's Speakers

Keri Sprinkle
Sr. Product Marketing Manager
– Helion Cloud Suite
Hewlett Packard Enterprise

Neil Miles
Sr Product Marketing Manager
– Helion Cloud Suite
Hewlett Packard Enterprise

Housekeeping

- This "LIVE" session is being recorded
  Recordings are available to all Vivit members

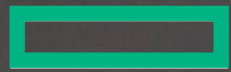- Session Q&A:
  Please type questions in the Questions Pane

Webinar Control Panel

Toggle View Window between Full screen/window mode.

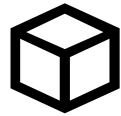Questions

'No Limits Cloud' with HPE Helion Cloud Suite

You are able to take advantage of *all* of the following…

Containers

Cloud native applications

Amazon AWS

Microsoft Azure

Hewlett Packard
Enterprise

Every organization is choosing its mix of cloud services
Need for management of multi-cloud *along with* existing IT services

Enterprises are moving to private, public, and hybrid clouds but…

94% state an
integrated hybrid cloud management solution is needed [1]

1 SOURCE: DIMENSIONAL RESEARCH – IT IS FLYING BLIND IN HYBRID CLOUDS – APRIL 2016

26% Non-cloud

47% Private cloud: on-premises and hosted

9% Hybrid

19% Public cloud [2]
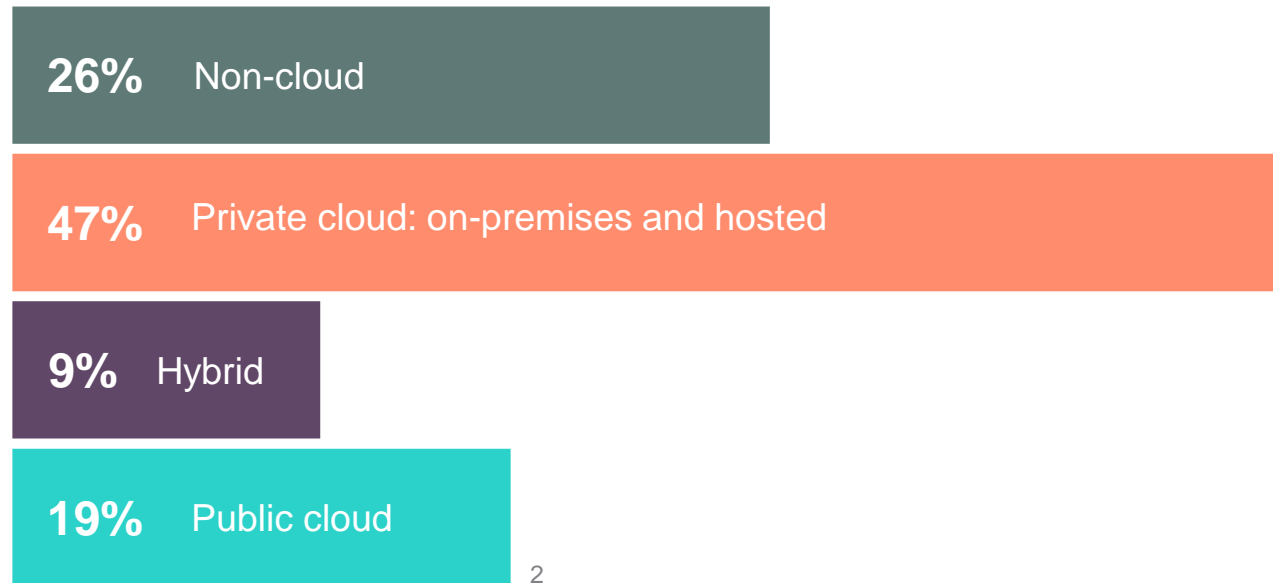
2 STATISTICS PROVIDED BY 451 RESEARCH

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Enterprise

9

Hybrid management challenges… and future goals

81% agree that **end-to-end visibility** is critical to operating a hybrid cloud

63% reveal IT fails to provide required **compliance reports**

86% are considering containers

87% are moving toward a **DevOps** process

85% will have a **continuous delivery** process

SOURCE: DIMENSIONAL RESEARCH – IT IS FLYING BLIND IN HYBRID CLOUDS – APRIL 2016

Technology landscape is changing

Multi-cloud advantages

Different clouds for different use cases
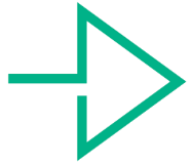and avoidance of vendor lock-in

Multi-cloud challenges

New silos
Increased complexity, cost and risk

Multi-cloud enterprises

Hewlett Packard
Enterprise

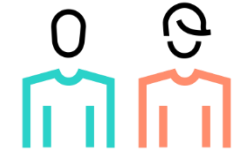# Operations faces classic challenges but with new urgency
Do more, more quickly with constantly reduced resources

Improve IT speed and responsiveness

– Slow delivery of new apps

– Manual, error prone processes

– LOBs circumvent IT

– Complex modern apps

– Evolution to cloud native and hybrid

– No end-to-end view

Acceleration requires improved IT staff efficiency

– Teams fractured by function and toolset

– Ops teams reacting to new technologies: containers, microservices, languages

– Limits on utilizing any cloud provider

– Manual compliance effort

Hewlett Packard Enterprise

Deliver what the business needs ... when it needs it

One-stop shop for all IT services, apps and clouds

Continuous delivery for cloud native and existing apps

Actionable analyses across IT and business metrics

Manage hybrid and multi-cloud environments

Quickly automate operations processes

Hewlett Packard
Enterprise

Deliver what the business needs ... when it needs it
With HPE Helion Cloud Suite

One-stop shop for all IT services, apps and clouds	**Cloud broker** Self-service catalog for automated fulfillment
Continuous delivery for cloud native and existing apps	**Cloud native** Cloud native development platform and pipeline management for all apps
Actionable analyses across IT and business metrics	**Analyze** Big Data-driven analytics with automated monitoring and remediation
Manage hybrid and multi-cloud environments	**Cloud Manage** Hybrid cloud management software for any cloud, any environment, any new technology
Quickly automate operations processes	**Orchestrate** Orchestration with extensive library of ready-to-use content, OOB integrations, open APIs

Hewlett Packard
Enterprise

HPE Helion Cloud Suite

DevOps-enabled hybrid cloud management software for service transformation

HPE Helion Cloud Suite

– Service transformation and user experience

– Cloud native app platform

– DevOps-driven multi-cloud management

– Infrastructure automation and orchestration

Across any technology

Bare-metal, virtual, containers

Private, managed and public clouds

Traditional and modern apps

Hybrid cloud management software and **continuous delivery** for traditional and **cloud native applications**

Designed for organizations that want to take advantage of: **any cloud, any environment and any technology for any app**
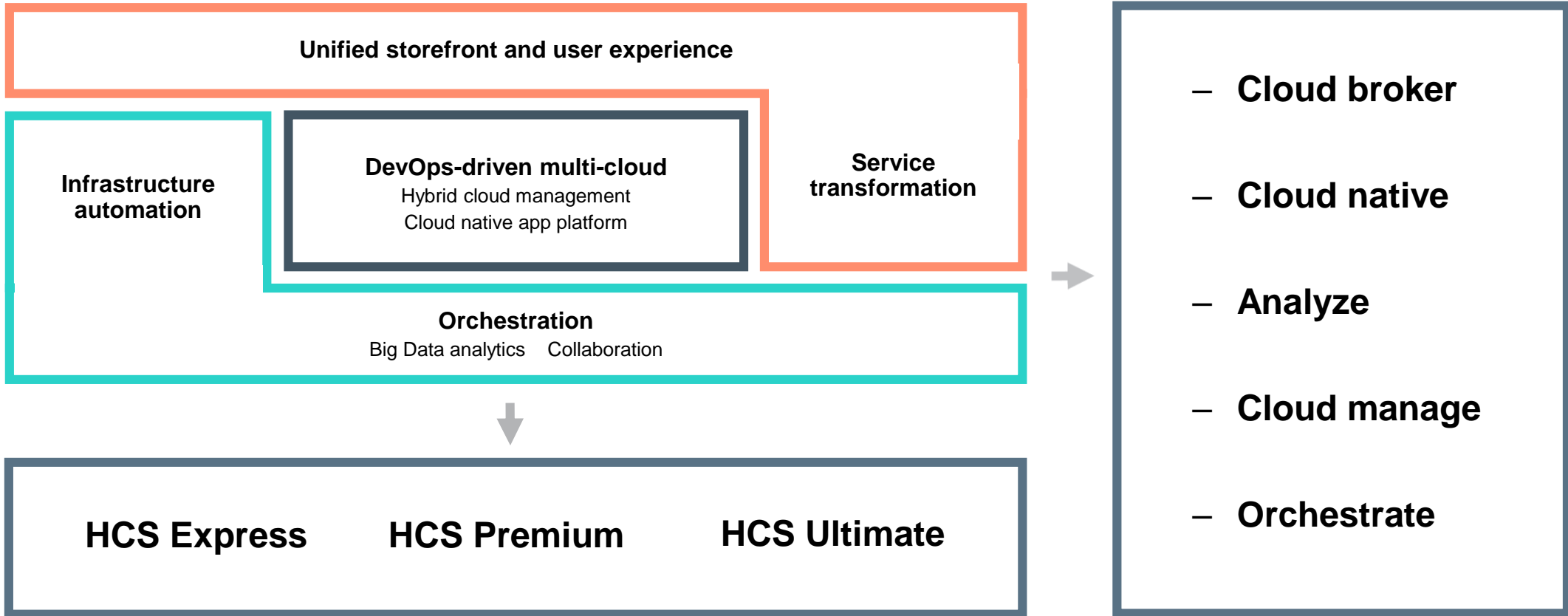
Hewlett Packard Enterprise

Unified, multi-cloud management solution
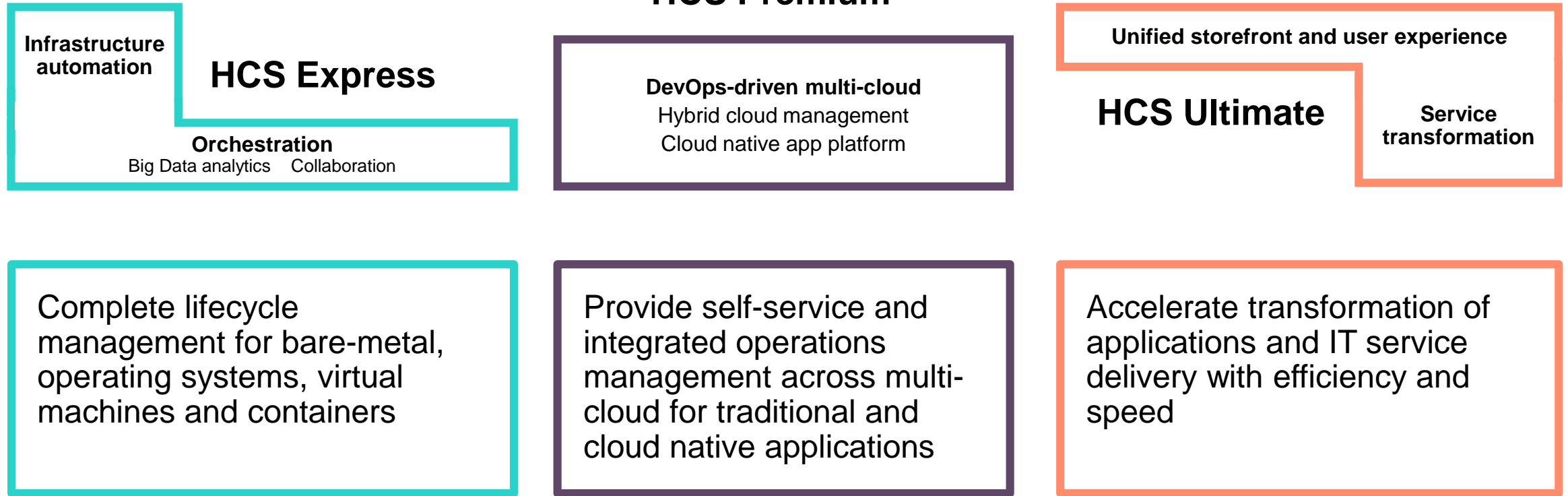## Freedom of cloud choice

- Accelerated speed of delivery

- Automated, accurate, efficient processes

- End-to-end visibility and real-time data

- Any cloud service, environment or new technology for any app

- Unified app dev platform
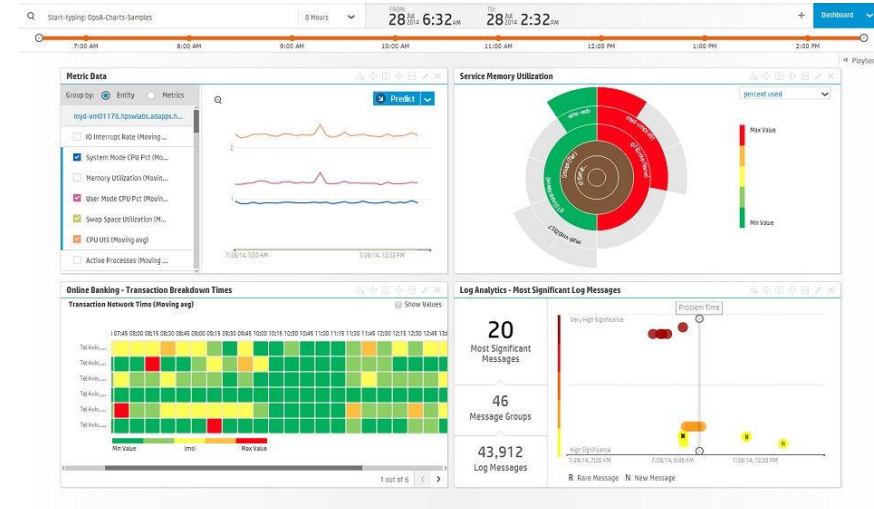
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HPE Helion Cloud Suite editions

Unified storefront and user experience

Infrastructure automation

DevOps-driven multi-cloud
Hybrid cloud management
Cloud native app platform

Service transformation

Orchestration
Big Data analytics   Collaboration

HCS Express   **HCS Premium**   **HCS Ultimate**

- **Cloud broker**

- **Cloud native**

- **Analyze**

- **Cloud manage**

- **Orchestrate**

HPE Helion Cloud Suite
Software editions to match enterprise cloud use cases

HCS Premium

Infrastructure automation

HCS Express

Orchestration
Big Data analytics   Collaboration

DevOps-driven multi-cloud
Hybrid cloud management
Cloud native app platform

Unified storefront and user experience

HCS Ultimate

Service transformation

Complete lifecycle management for bare-metal, operating systems, virtual machines and containers

Provide self-service and integrated operations management across multi-cloud for traditional and cloud native applications

Accelerate transformation of applications and IT service delivery with efficiency and speed

Hewlett Packard
Enterprise

HCS Express: infrastructure automation

Deliver secure and compliant infrastructure within minutes of request

Provision, configure, monitor and optimize

Analyze		Capacity IT analytics
Manage		Monitoring Automation
Orchestrate		Orchestration with OOTB content

– Complete lifecycle management
  for bare-metal, OS, VMs and containers

– Comprehensive orchestration platform

– IT log analytics and workload placement

HCS Premium: DevOps-driven multi-cloud

Continuous delivery and operations for any application in any environment

Adds:

Core		Adds
Cloud native		Cloud native app platform Continuous app release
Analyze		Business analytics
Cloud manage		Hybrid cloud management OpenStack Discovery
Orchestrate		

Plus strengthens core elements
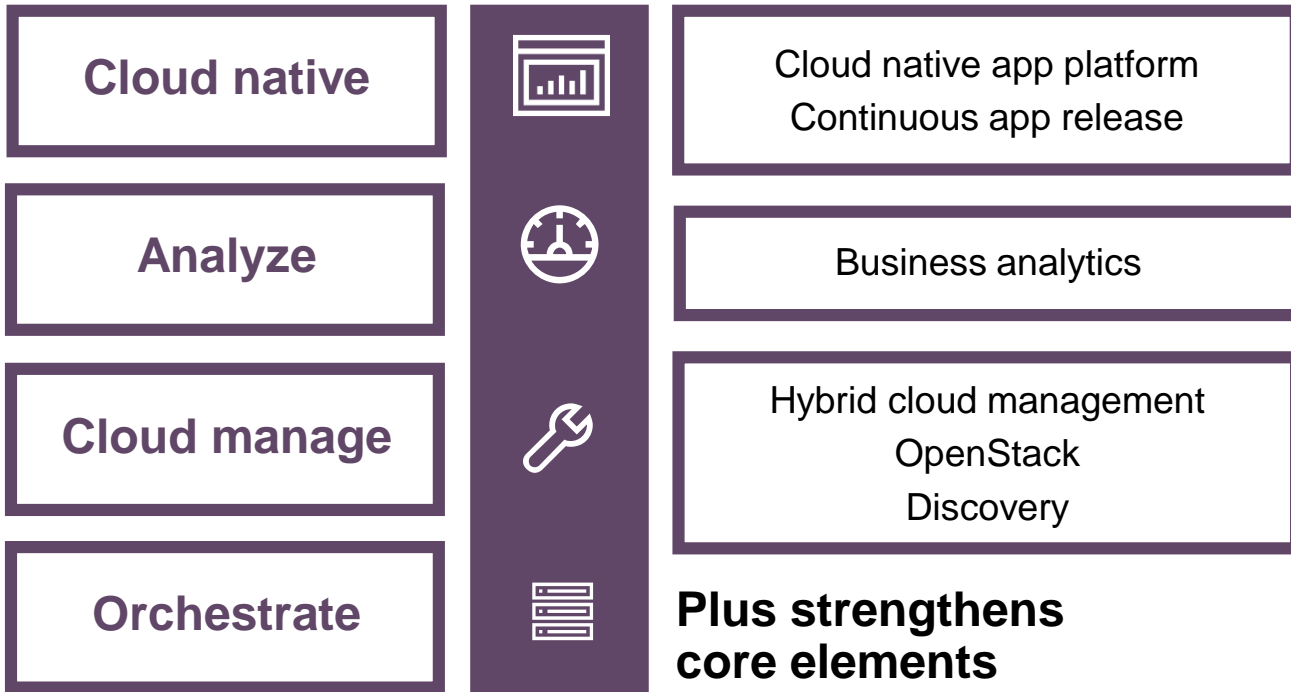
Multi-cloud management plus continuous delivery, deployment, operations and compliance

– Any environment
– Any cloud
– Any technology
– For any app

HCS Ultimate: service transformation

Transform applications from a business service view to enable cloud moves

Adds:

Cloud broker

Cloud native

Analyze

Cloud manage

Orchestrate

Cloud service broker
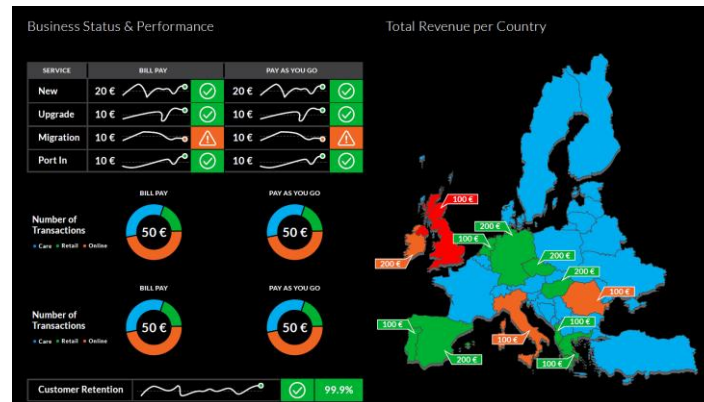
Plus maximizes all component capabilities

– Integrated and simplified user experience across multiple suppliers

– Catalog aggregation

– Micro-service based brokering

– Transform services and application

– Business value dashboards

– Automated planning and decision analysis

– Service design integrations

Hewlett Packard Enterprise

Helion Cloud Suite: user experience
Cloud consumer persona
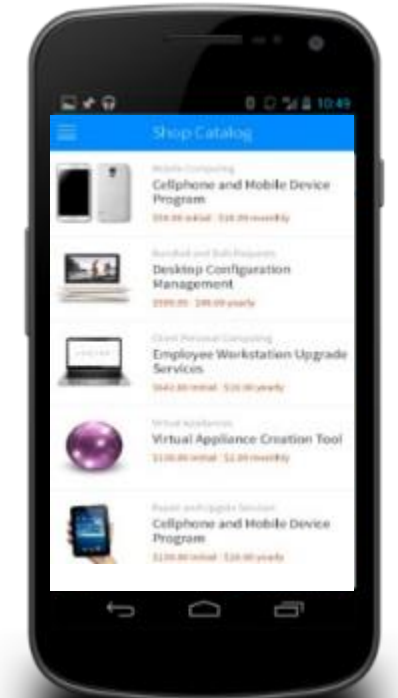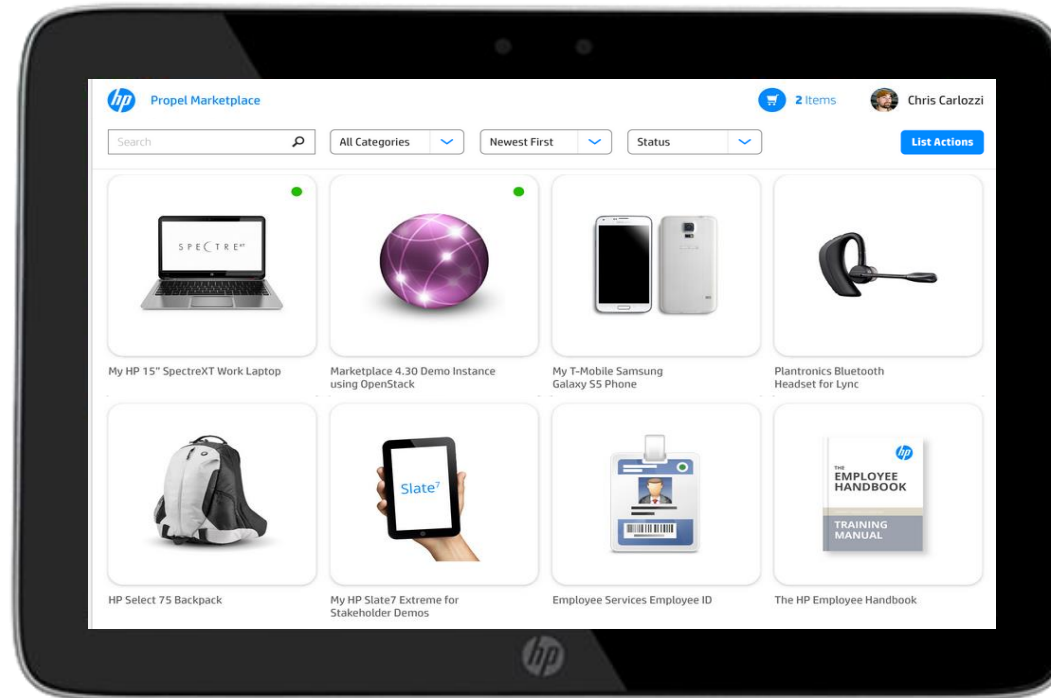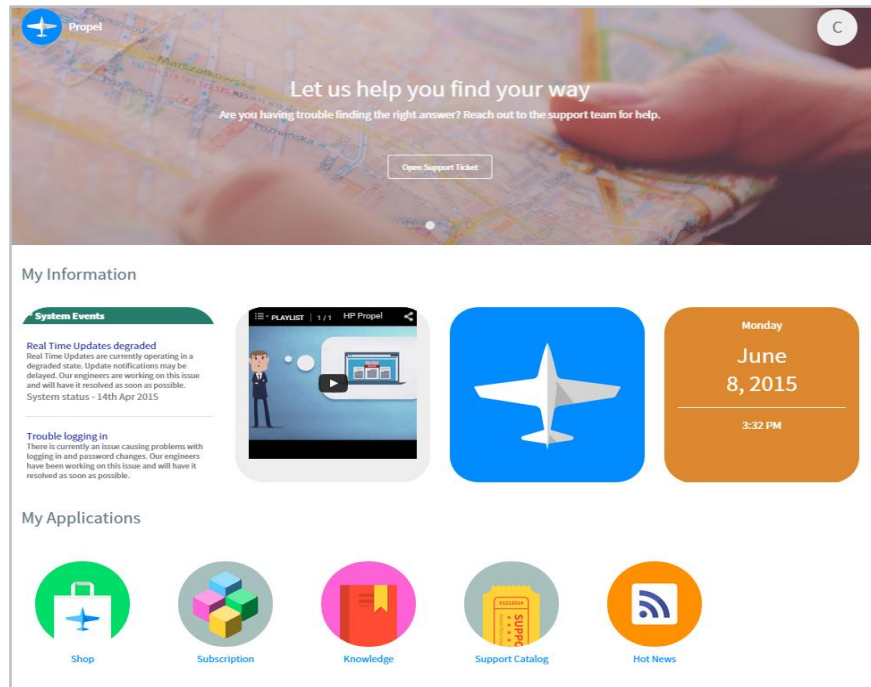
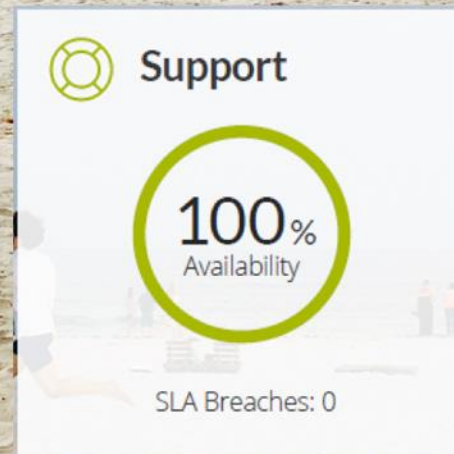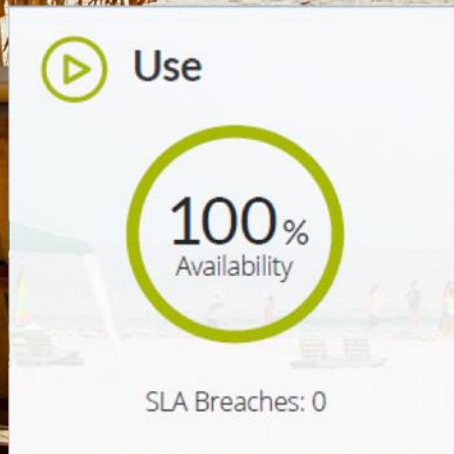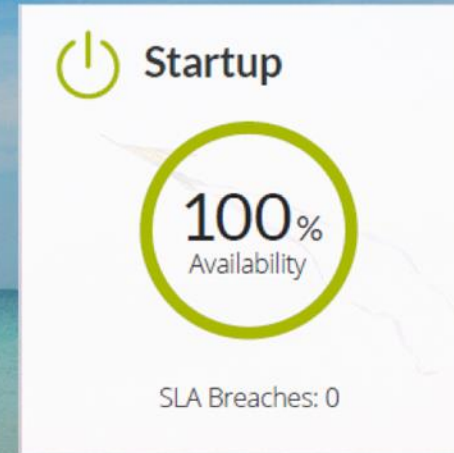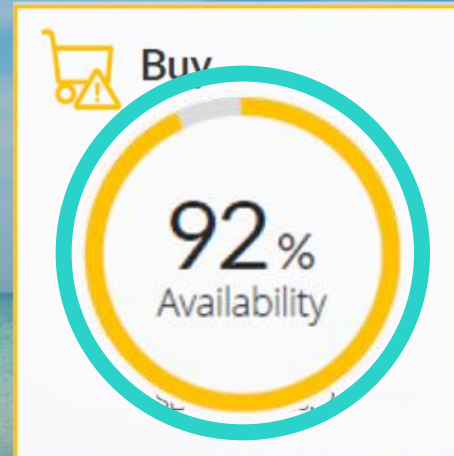# Helion Cloud Suite: user experience
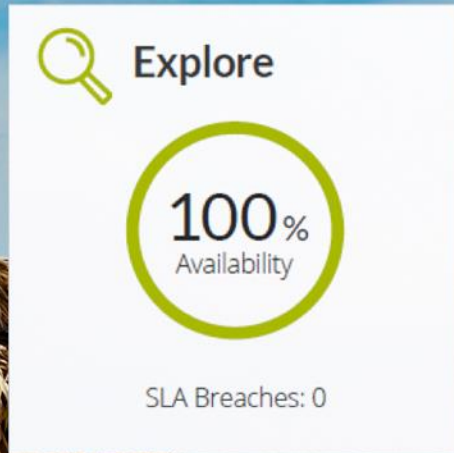## IT/cloud administrator persona
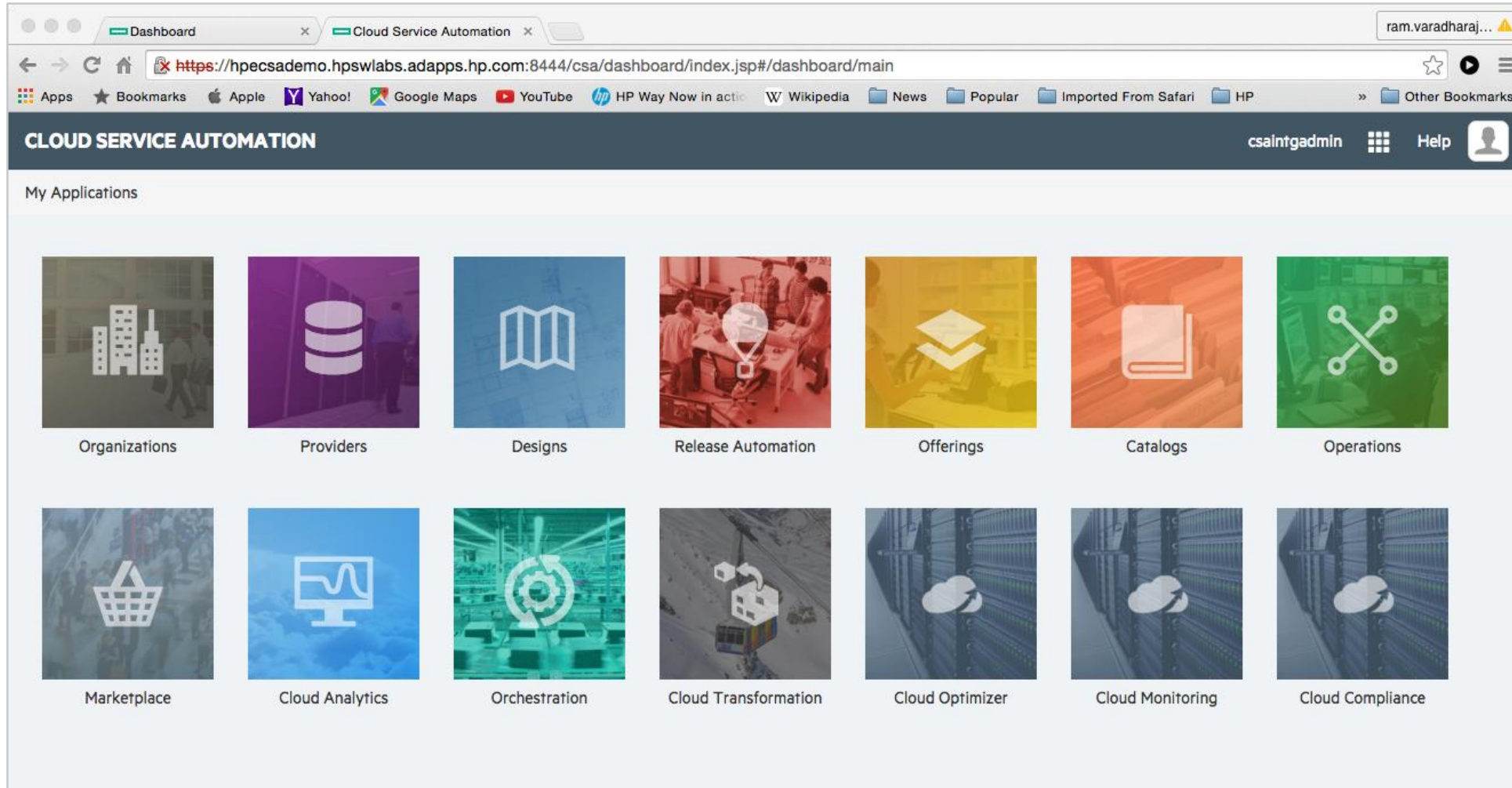
Helion Cloud Suite: user experience
IT and business leadership

HCS benefits by functional area

Cloud broker

Service transformation through user experience
– Service aggregation
– Service exchange with messaging and micro-services

Cloud native

Certified cloud native application platform
– Container based multi-cloud PaaS (Certified Cloud Foundry)
– Use any technology stack to build applications

Analyze

Big-data driven, predictive, self-learning analytics
– Automatically filter to most significant messages and root cause
– For both IT AND business metrics

Cloud manage

Full stack management for all target environments
– Multi-cloud IaaS support
– Native container management and orchestration

Orchestrate

Single, comprehensive orchestration platform
– Biggest OOTB library of orchestration flows (8000+)
– Enterprise-scale execution engine

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Enterprise

Helion Cloud Suite keeps your cloud options open
Support for any cloud, any environment and any technology for any app

Hybrid cloud support

- Amazon EC2
- Microsoft Azure

- vCloud Air
- vCenter

- HPE Stackato
- HPE Helion OpenStack

Broadest resource and technology coverage

Native container support

- Marathon / Mesos
- Docker
- Kubernetes

Hypervisor support

- Citrix Xen Server

- Linux KVM

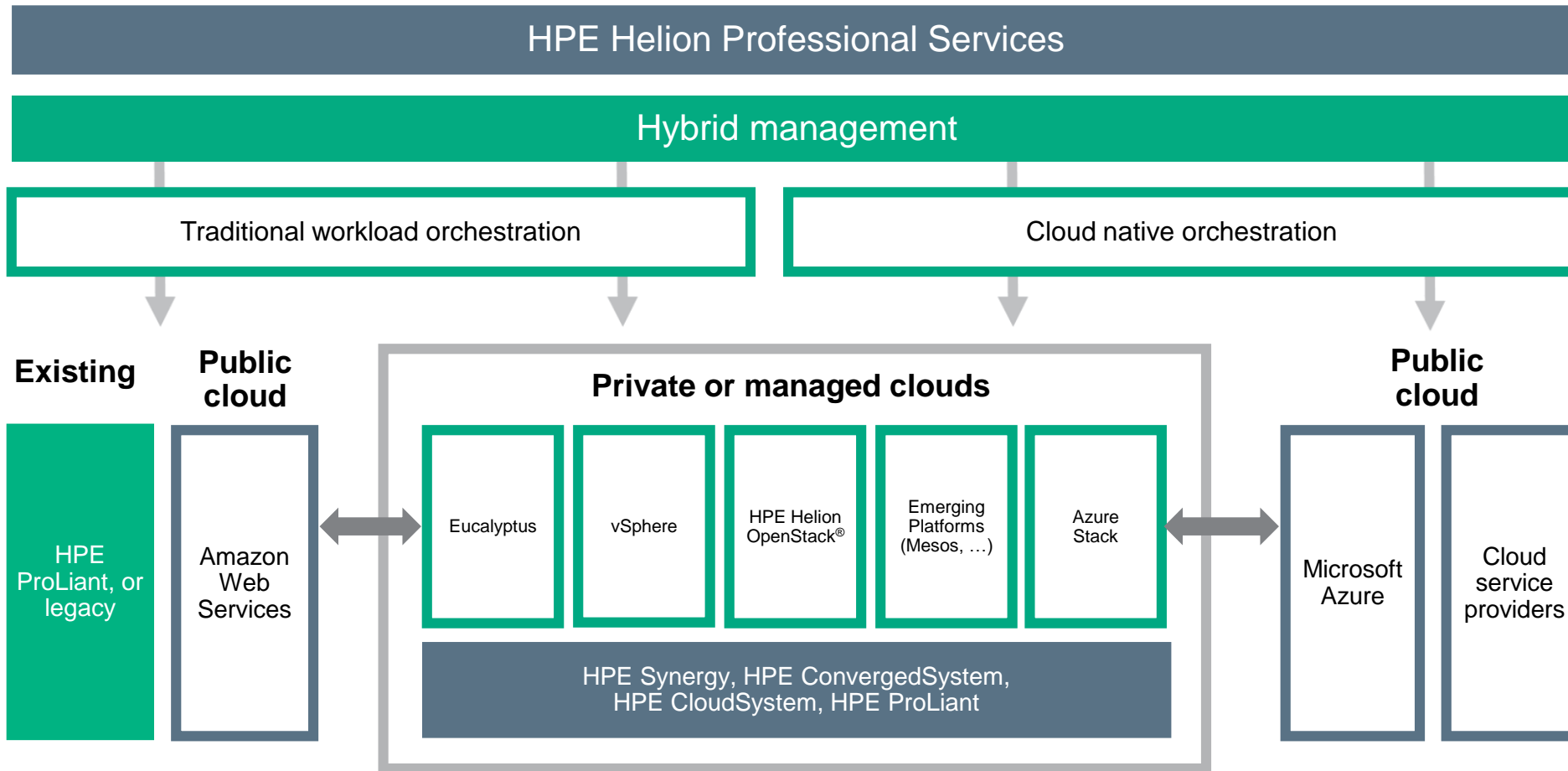- Hyper-V
- System Center Virtual Machine Manager

- VMware vSphere
- VMware ESX
- VMware ESXi
- VMware Virtual Center (vCenter)

HPE multi-cloud strategy
Optimize your right mix: place workloads when they fit best

HPE Helion Professional Services

"No Limits Cloud"

Hybrid management

Place traditional or cloud native workloads on existing infrastructure, any private or public cloud

Traditional workload orchestration	Cloud native orchestration

Existing

Public cloud

Private or managed clouds

Public cloud

HPE ProLiant, or legacy

Amazon Web Services

Eucalyptus

vSphere

HPE Helion OpenStack®

Emerging Platforms (Mesos, …)

Azure Stack

HPE Synergy, HPE ConvergedSystem, HPE CloudSystem, HPE ProLiant

Microsoft Azure

Cloud service providers

Hewlett Packard Enterprise

Real issues, real solutions and measurable improvements

ComlineAG wanted to create a cloud that would appeal to IT experts – secure, easy to use, highly automated and competitively priced. Providing a catalog of frequently requested services to provision, administer and manage cloud services

80% Employee productivity

<1yr Return on Investment
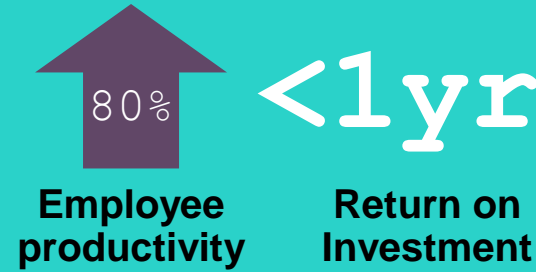
High degree of flexibility

Admired the self-service portal

DTCC needed to improve the efficiency and standardization of server builds, reduce manual labor and time for remediating alerts, and manage user access to production systems more easily.

65 days
5 days
Time to deliver SLAs

> 6 min

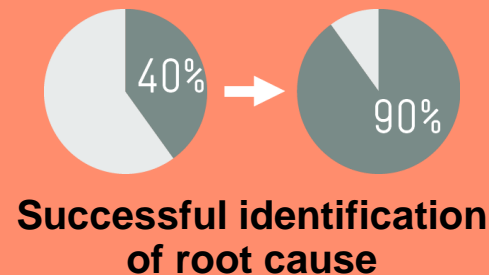**Closed loop incident processing**

Eliminated human error and delay

Vodafone needed to replace their reactive, introspective, fragmented IT operations, processes, and tools with a more effective management framework and to provide real time visibility to business and IT executives.

40% → 90%
Successful identification of root cause

300% ROI
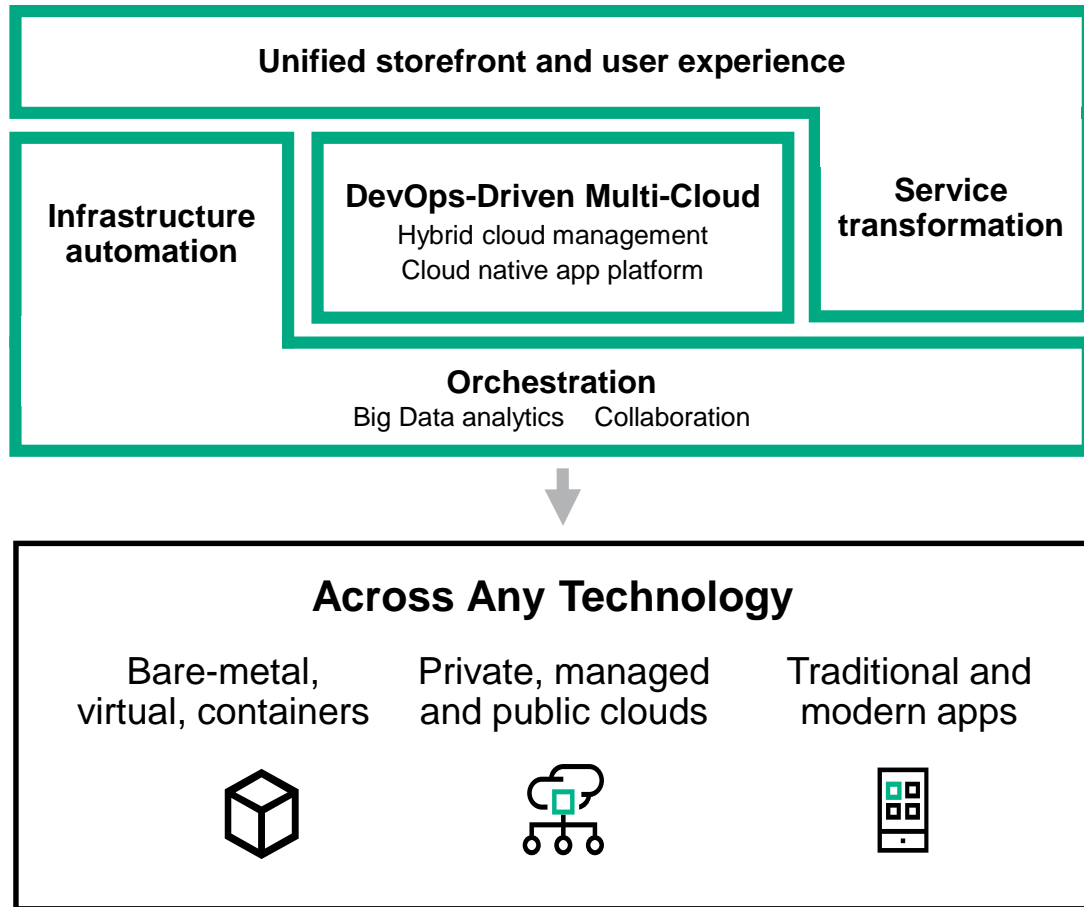**in the first year**

Benefits of HPE Helion Cloud Suite

Any cloud, any environment, any new technology for any app

–Improve IT speed and responsiveness

–Improve efficiency and effectiveness

–Avoid cloud vendor lock-in

–Maximize ROI from your development efforts with the ability to place workloads on any cloud

HPE Helion Cloud Suite

DevOps enabled hybrid cloud management software for the digital enterprise

Unified storefront and user experience

Infrastructure automation

DevOps-Driven Multi-Cloud
Hybrid cloud management
Cloud native app platform

Service transformation

Orchestration
Big Data analytics   Collaboration

Across Any Technology

Bare-metal, virtual, containers

Private, managed and public clouds

Traditional and modern apps

– Unique full-stack, multi-cloud management with IaaS and PaaS

– Continuous delivery and ops for traditional and cloud native apps

– Unified HPE cloud offering

– Simplified packaging and ordering

– Accelerate delivery of business services

– Support your dev pipeline/software factory

– Optimize your right mix

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Wrap up and questions

August 23rd Vivit follow-on webinar
http://www.vivit-worldwide.org/events/EventDetails.aspx?id=840634

**Become a Cloud Master
with the HPE Helion Cloud Suite**

Join this webinar for a deeper dive,
and be the first to see this new suite in action:

- Manage hybrid and multi-cloud environments.
- Develop, deploy, and scale cloud-native applications.
- Drive business performance with focused analytics.

More than just a hybrid cloud management platform,
the HPE Helion Cloud Suite can help you manage
any cloud, any environment, and any technology
for any application.

Go beyond cloud management, and learn
what it means to become a cloud master.

Fight for your cloud freedom!

For more information please visit
hpe.com/software/hybridcloud

Video - Gain control of your multi-cloud reality
https://www.youtube.com/watch?v=2sJM9d8QU8c

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Thank you

- Complete the short survey and opt-in for more information from Hewlett Packard Enterprise.

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