HEALTHCARE IN THE CLOUD

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One of the World's Largest Healthcare IT Companies

HP's broad product portfolio is integrated into…and has IP, service offerings and extensive delivery healthcare solutions…. capabilities across industry segments

···active industry participation since 1961



HP services enable key plan-specific solutions

- · Healthcare administration and claims processing software & services
- Eligibility & human services offerings
- Medical informatics, care management, & decision support services
- IT infrastructure & application services

HP products are key to pharrma & life sciences product development

- Product tracking & authentication
- Modeling and simulation tools
- Product lifecycle management
- Digital Discovery and Development (SOA)

HP software & hardware is core to creating provider based solutions

- Digital hospital
- Electronic health records
- Care Management
- Medical archiving
- Health Care Information System



MAJOR TRENDS & DIRECTIONS



3 Global Mega Trends

Evolving Business Models

Technology Advancements

> Changing Workforce







Source: OECD



Source: The Permanente Journal Summer 2008: 'A 36-Hospital Time and Motion Study: How Do Medical-Surgical Nurses Spend Their Time?'







Source: OECD





Source: World Health Organization

HP'S POINT OF VIEW & SOLUTION PORTFOLIO





HP's Healthcare Solutions Portfolio

HP' s portfolio of industry software, solutions and intellectual capital represent the enabling technologies required to build and support an integrated care delivery system... the building blocks in transforming business and health outcomes.



HEALTHCARE CLOUD



Key technology trends

Major shifts across the technology industry occurring

New forms of computing

- Mobile
- The Cloud EaaS
- Pervasive/Ubiquitous Computing

Consumer Driving Enterprise

Connectivity

• Sensors - Richter 1000x more sensitive







A Brief Cloud Primer

Cloud Definition - US Federal Government

Definition

• Cloud computing is a pay-per-use model for enabling available, convenient, on-demand network access to a shared pool of configurable computing resources (e.g., networks, servers, storage, applications, services) that can be rapidly provisioned and released with minimal management effort or service provider interaction. This cloud model promotes availability and is comprised of five **key characteristics**, three **delivery models**, and four **deployment models**.

Key Characteristics

- On-demand self-service
- Ubiquitous network access
- Resource pooling
- Rapid elasticity

- Homogeneity
- Location independence
- Measured service
- Multi-tenancy





A Brief Cloud Primer

Service Delivery Concepts



- Everything as a Service
- Software as a Service
- Platform as a Service
- Infrastructure as a Service



A Brief Cloud Primer

4 Deployment Models

Private Cloud

• Enterprise owned or leased

Community Cloud

• Shared infrastructure for specific community

Public Cloud

• Sold to the public, mega-scale infrastructure

Hybrid Cloud

• Composition of two or more clouds







Impediments to Cloud adoption











Transparency



Global Authentication Service

Improving Health in the Cloud



Working with nonprofit **mPedigree** to combat counterfeit drugs



Key take-aways

Healthcare services are in a dire need of a paradigm shift in terms of providing care more efficiently; current course and speed is unsustainable

Applying technology in innovative ways to enhance operational efficiency, enabling care coordination and improving patient outcomes is achievable

The Cloud can bring significant economic benefits and accelerate the formation and effective organization of integrated health delivery systems

I invite you to discuss this topic further with Hewlett-Packard







Finally

"The reasonable man adapts himself to the world: the unreasonable one persists in trying to adapt the world to himself. Therefore all progress depends on the unreasonable man."

George Bernard Shaw "Man and Superman"



THANK YOU





THE INSTANT-ON ENTERPRISE IS HERE.