

The Pulse of Change

# Preparing for Human-Machine Partnerships in Healthcare

Human-machine partnerships will reshape how we share medical information, treat disease, and discover new therapies more precisely. Dell Technologies recently partnered with Vanson Bourne to survey healthcare business leaders and found a divided vision of the future, but agreement on the need to transform and how to get there. How will healthcare organizations become digital leaders to transform care?



## Healthcare business leaders agree there is immense change ahead, but differ on what it means



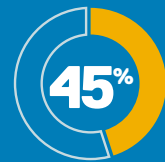
expect humans and machines will work as integrated teams



think automated systems will free-up their time



believe we will be more productive by increasing collaboration



say we'll learn on the job with augmented reality (AR)

### THE OPPORTUNITY:

Shift IT resources to define innovation strategies and drive digital initiatives

Innovate to improve care outcomes and expand clinical research opportunity

Speed time to 360 degree patient view to optimize service delivery

Accelerate decisions through real-time access to immersive clinical information

Many struggle to keep up with the pace of change



**60%**

of healthcare business leaders report their organizations struggle to keep up

**46%**

are unsure if they can adapt

But, leaders agree on need to transform and are optimistic they can provide essential infrastructure to achieve their digital business goals within the next five years:

**95%**

Will have effective cybersecurity defenses in place



**89%**

Complete transition to a software-defined business



**80%**

Use Artificial Intelligence (AI) to pre-empt patient demands



**77%**

Deliver hyper-connected customer experiences with virtual reality



# Healthcare is Poised to Leap Ahead

Where are healthcare leaders investing in emerging technologies, underlying infrastructure, and computing power?



## Building the Modern Healthcare Data Center

**CONVERGED  
INFRASTRUCTURE**

**90%**

have invested  
or will invest

**ULTRA-HIGH-PERFORMANCE  
TECHNOLOGIES (FLASH)**

**85%**

have invested  
or will invest

### WHY?

Deliver safer patient care as you integrate emerging tech for streamlined processes and cost efficiencies



## Laying the Groundwork for a Multi-Cloud Platform

**MULTI-CLOUD**

**90%**

have invested  
or will invest

By 2020, **90%** of all enterprises will use multiple cloud services and platforms\*

### WHY?

Balance on and off-premise workloads using best-of-breed infrastructures for clinical research and care delivery



## Integrating AI and Machine Learning

**79%**

have invested  
or will invest

By 2021, **20%** of healthcare organizations will have achieved **15-20%** productivity gains through the adoption of cognitive/AI technology

### WHY?

Find patterns in EHR data to streamline clinical workflows and enable predictive analytics



## Connecting and Securing Healthcare Data from Point of Care to Core to Cloud

**INTERNET OF  
THINGS (IoT)**

**88%**

have invested  
or will invest

**NEXT-GEN MOBILE  
APPLICATIONS**

**87%**

have invested  
or will invest

### WHY?

Enable patient engagement, consumerism, and next-generation connected care



## Opportunity Ahead

Learn more about how healthcare business leaders are making digital transformation real with the modern data center, HPC, AI, VR, smart devices, and IoT

### Resources:

[Making Digital Transformation in Healthcare a Reality](#)

[DellEMC.com/healthcare](http://DellEMC.com/healthcare)

\* IDC-CL