

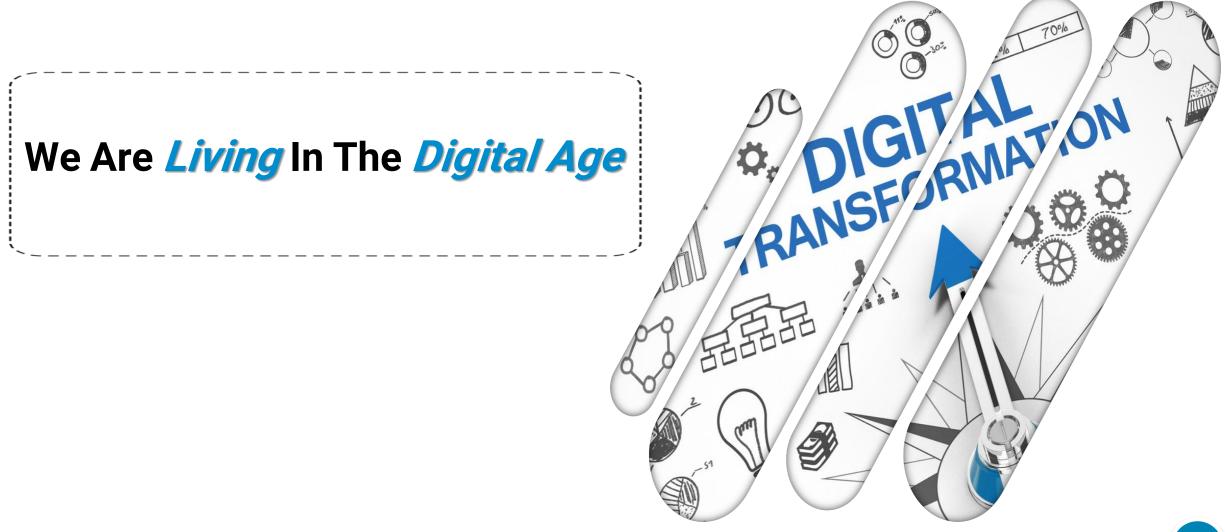
بيمارستان ديجيتال

مر شادنجان

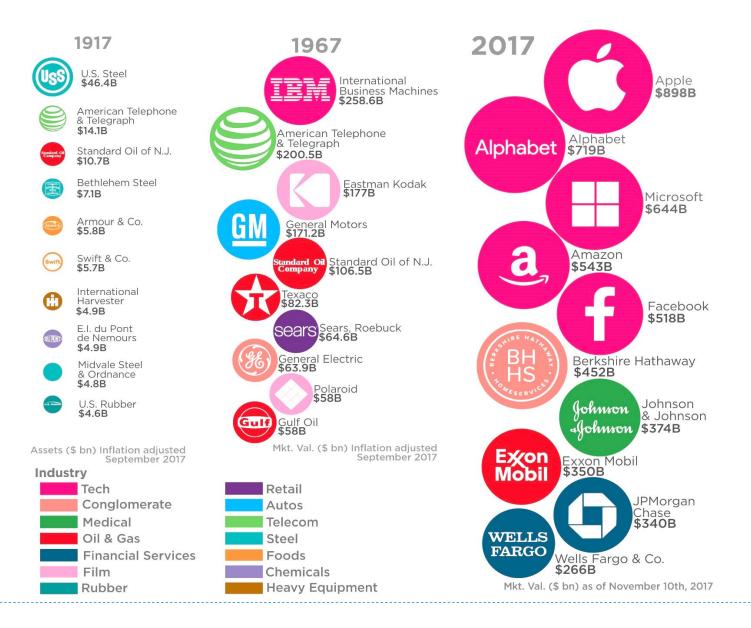
عضو هیات علمی دانشگاه تهران بنیانگذار گروه تحول دیجیتال



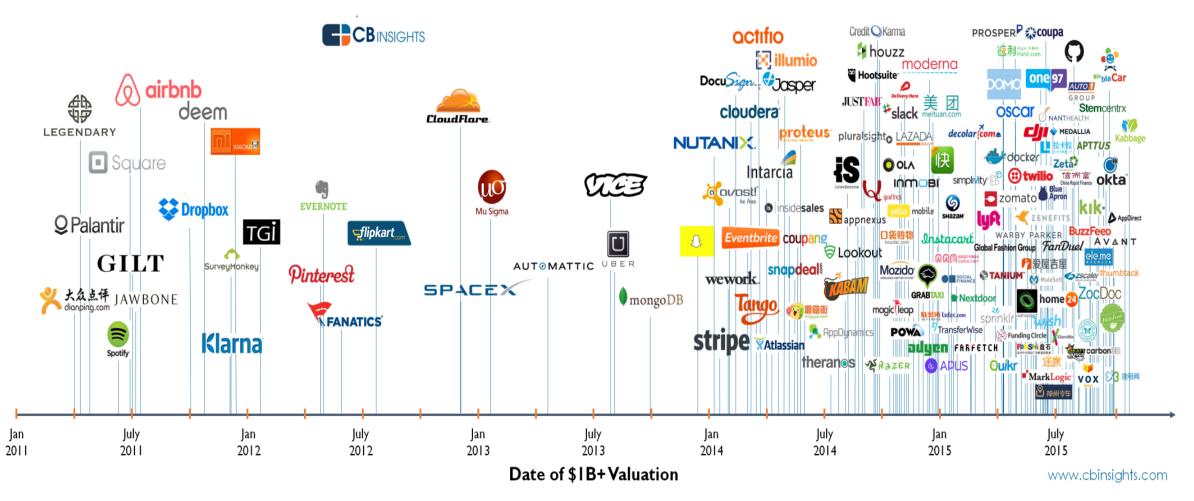
اسفند ۱۳۹۶



100 Years of America's Top 10 Companies



The Increasingly Crowded Unicorn Club



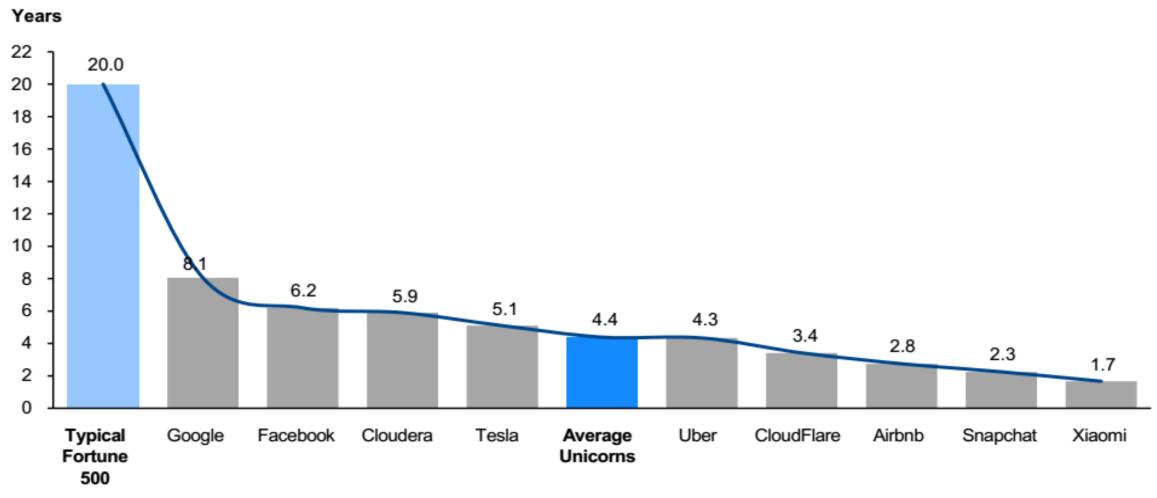
World Economic Forum, 2016

In The New World, It Is Not The Big Fish Which Eats The Small Fish, It's The *Fast Fish* Which Eats The *Slow Fish* Klaus Schwab

World Economic Forum -



Time to Reach a Valuation of \$1 Billion or More



World Economic Forum, 2016

The Future Of Every Industry Is Digital, And That Future Is Closer Than You Think.

Venkat Venkatraman



....

Disruptive Technologies



Artificial Intelligence



Big Data & Data Analytic



Virtual Reality & Augmented Reality



Social Media



Blockchain



Mobility



Internet of Things



Cloud Computing

Social Media

> Patient Empowerment

> Patient Engagement





Virtual & Augmented Reality

> Pharma Company Can Provide More Innovative Drug Information



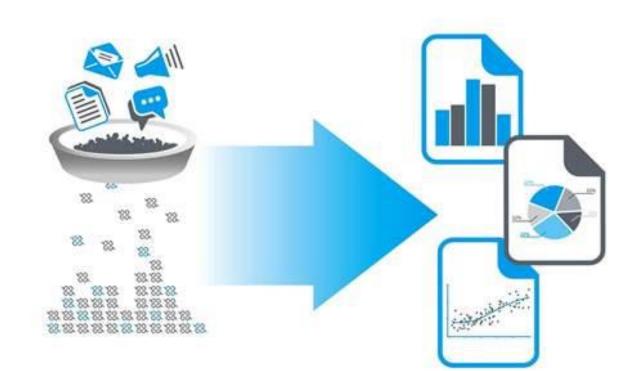


Big Data & Data Analytic

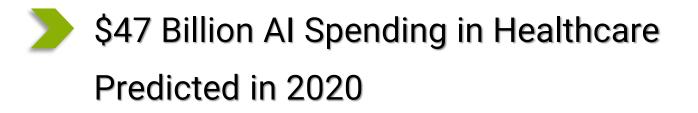
Improving Patient Care

Disease Trends Study

Fraud Detection



Artificial Intelligence





ChatBots Will Serve as Health Assistants

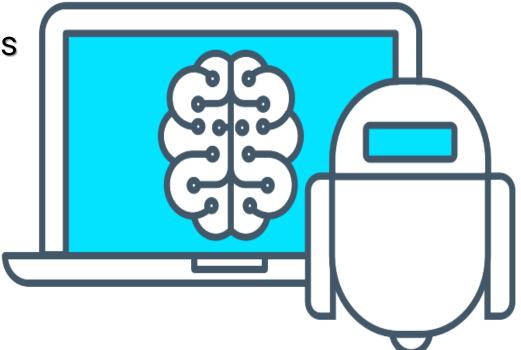


Artificial Intelligence

Al Aids in Disease Identification and Diagnosis

Like: Evaluate DNA to Diagnose Illnesses

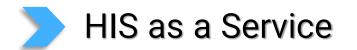
Like: Predict Heart Disease Risk



Cloud Computing









Cloud Computing







Internet Of Things

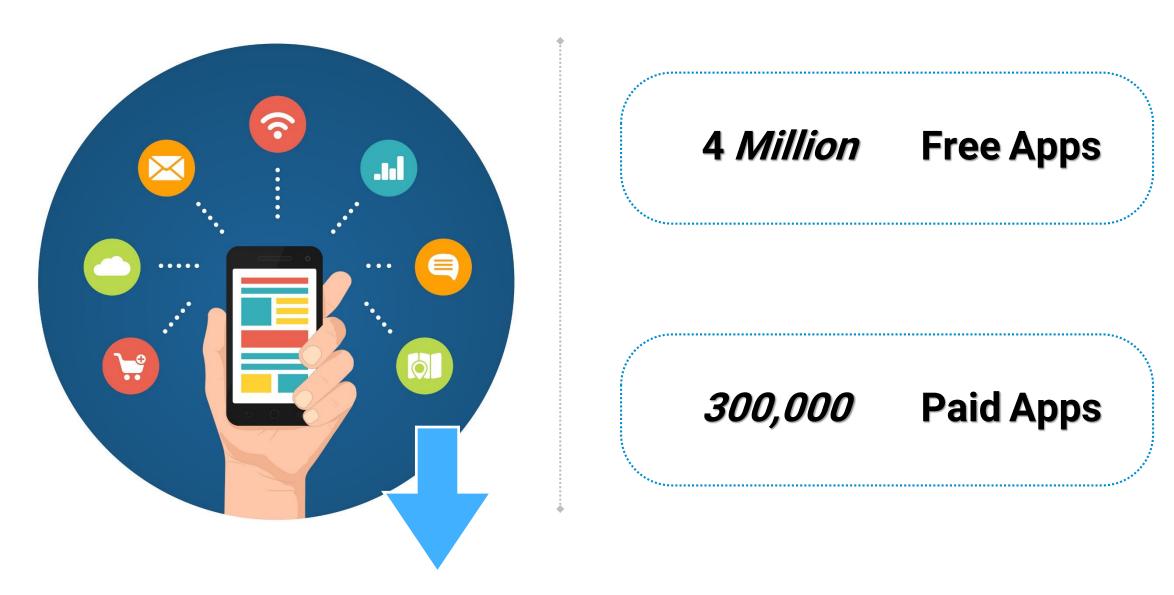


- Building Management
- Clinical Care

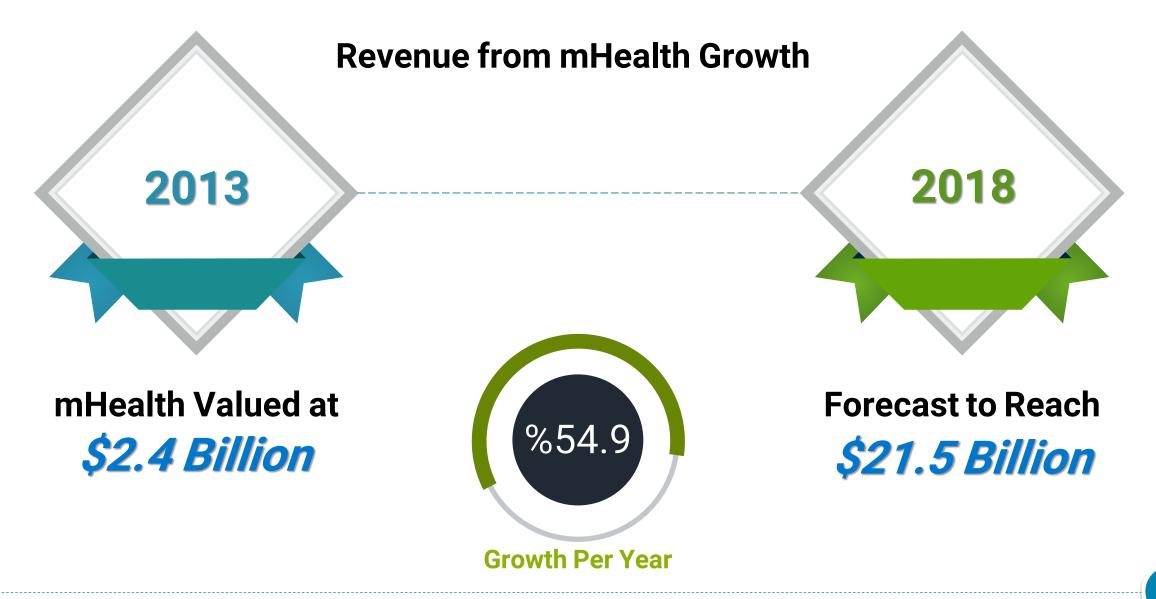




Mobility











Patients Using Smartphones

for Information



Mobility



Improved Patient Engagement

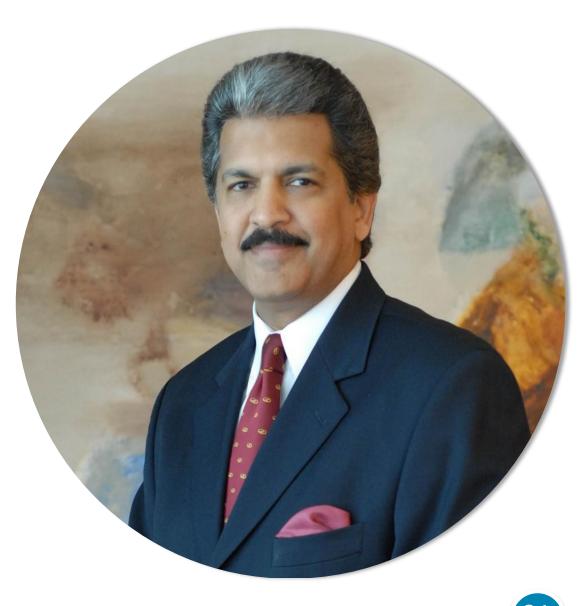
Improved Patient Safety







Anand Mahindra Chairman and Managing Director ___Mahindra & Mahindra__^



81%

US Healthcare Organizations to

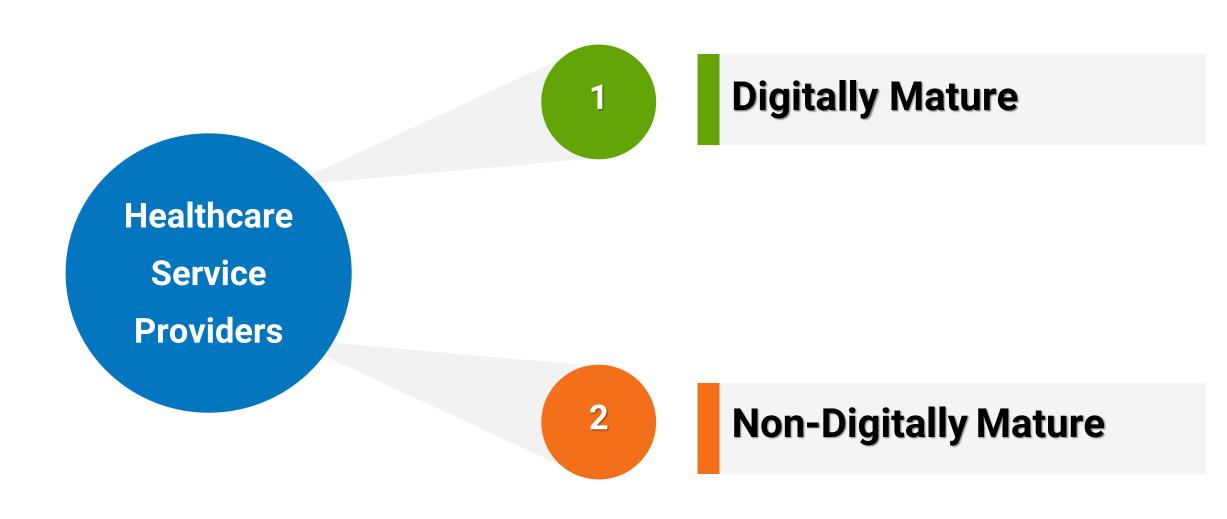
Increase Cyber Security Spending

Global Healthcare Organizations to

Increase Cyber Security Spending









Use **Mobile Channels** to Offer Services to Customers

Use **Mobile Channels** to Offer Services to Customers



Use **Social Media** to Offer Services to Customers Use **Social Media** to Offer Services to Customers



18%

Have an **Integrated View** of Customer Data

Have an **Integrated View** of Customer Data



Invest in Building **Digital Skills**

Invest in Building **Digital Skills**





Benefits of Digital Health for Providers



25

Benefits of Digital Health for Providers





Digital Hospital

The Hospital of the Future

How Digital Technologies Can Change Hospitals Globally

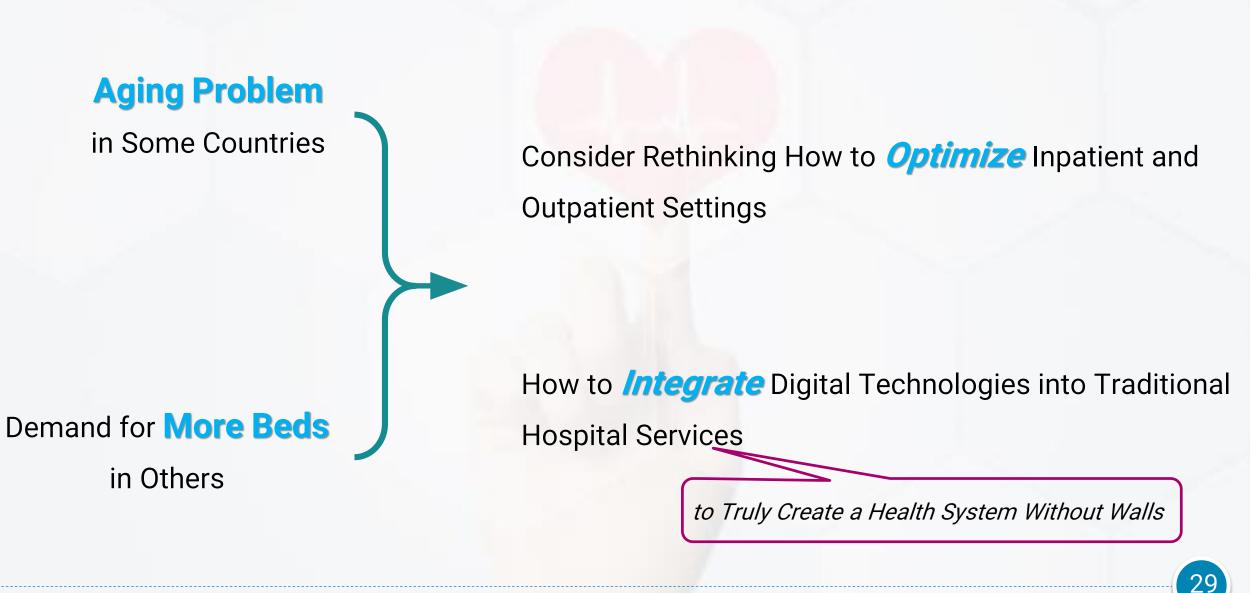
رهسپار سفر دیجیتال شوید ...

27

Rapidly-Evolving Technologies

Expected to Disrupt Hospitals Worldwide

Growing Consumerism





Redefined Care Delivery

Digital Transformation

Domains in Hospitals



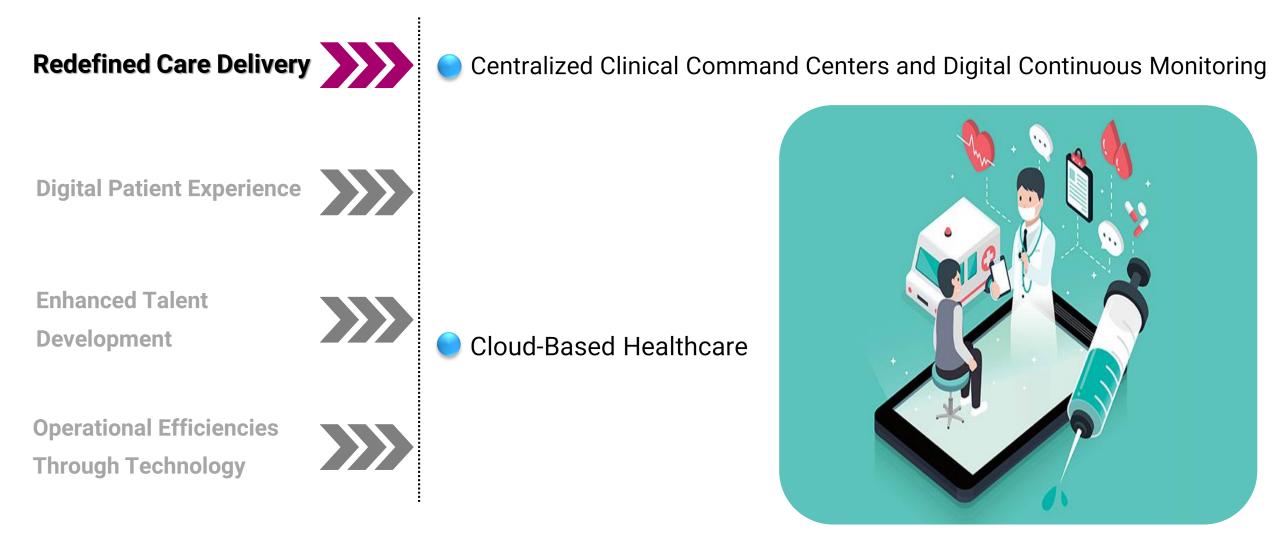
Digital Patient Experience



Enhanced Talent Development



Operational Efficiencies Through Technology



Redefined Care Delivery

Centralized Clinical Command Centers <

and Digital Continuous Monitoring

Cloud-Based, Interoperable Electronic Health Records "Air Traffic Controls" Like Command Centers

Provides Real-time Data to Manage Patient Capacity and Other Operational Processes

Move From Episodic to Collaborative and Longitudinal Care

Using Wearables Sensors

Using Big-Data Analytics

Patient Harm Can Be Predicted and Suggested Interventions Fed to Caregivers

Redefined Care Delivery

Centralized Clinical Command Centers and Digital Continuous Monitoring

Cloud-Based, Interoperable Electronic Health Records The Digital Hospital of the Future Includes an Air Traffic-Like Control System to Continually Monitor Patients and Integrate Data to Chart the *"Flight Paths"* of Patients.

Redefined **Care Delivery**

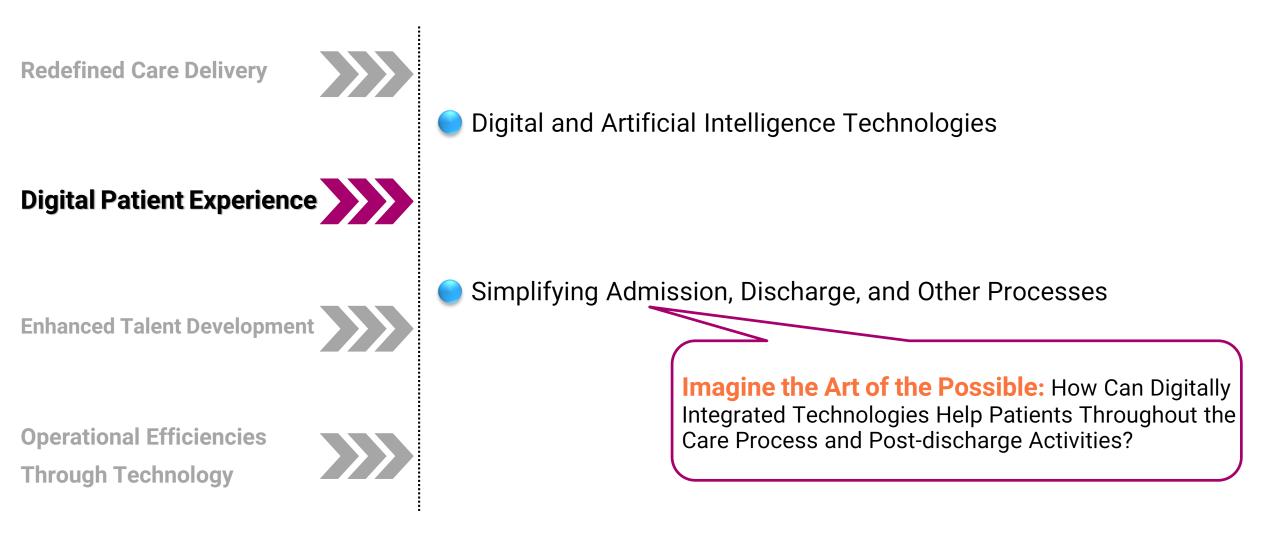
Centralized Clinical Command Centers and Digital Continuous Monitoring

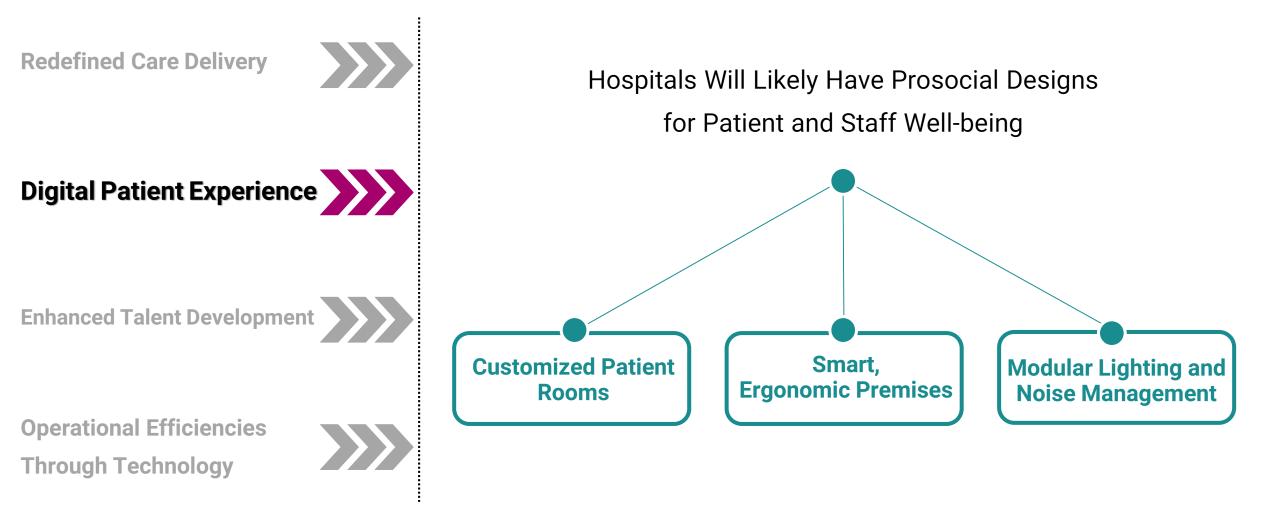
Cloud-Based, Interoperable Electronic -Health Records Interoperable Data From Different Sources Will Likely Be a Reality in The Hospital of the Future!

Real-time Patient Data at The Point of Care Can Improve Patient Outcomes

Genetic, Social, and Behavioral Patient Information, as Well as Financial, Clinical, and Administrative Records

Patients Can Own Their Data, Add to and Edit Their Health Records, and Proactively Communicate With Their Caregivers





Intelligent Staff Recruitment

and Scheduling

Enhanced

Talent

Development

Virtual Learning and Development

Nurse and Staff Turnover is a Challenge in Several Countries!

Cloud-based Capabilities Can Help Filter Resumes and Profiles More

Intelligent Staff Recruitment and Scheduling

Virtual Learning and Development

Analytics Could Play a Role in Determining Salary and Benefits

Technology—Specifically IoT and RFID —Also Can Track Performance Management

> *IoT* and *RFID* Devices Can Track When Staff Members Arrive, Determine How Many Patients They See, and Determine the Amount Spent on Patient Care Versus Administrative Tasks

Enhanced

Talent

Developmen

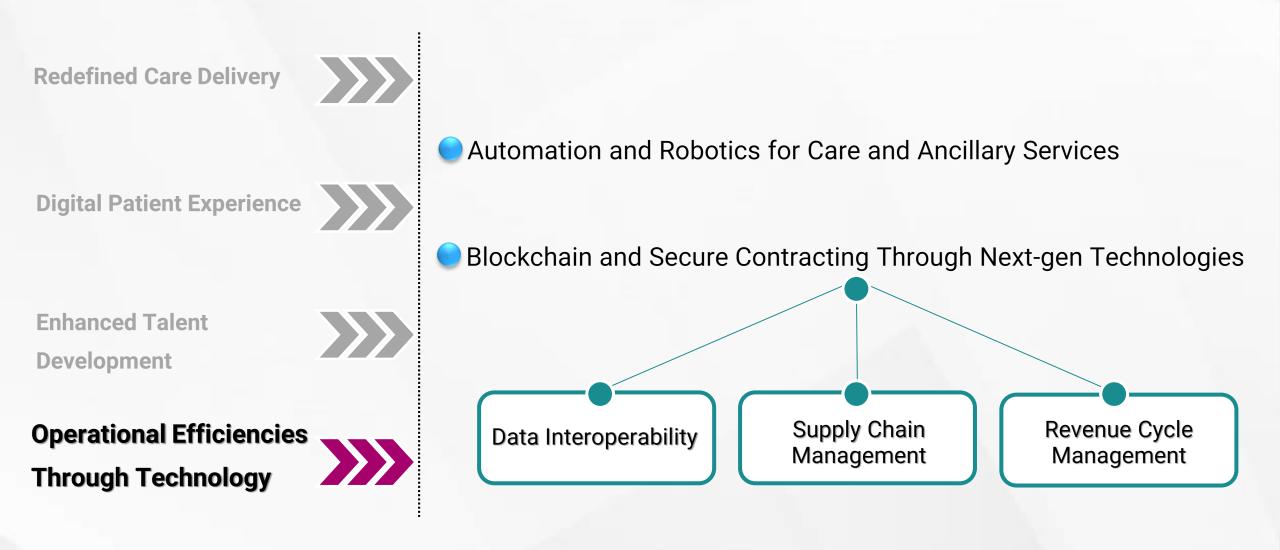
Enhanced Talent Developmen

Intelligent Staff Recruitment and Scheduling

Virtual Learning and Development ▲ Help Surgeons Map Out Their Surgeries Before Conducting

Increase Specialized Expertise Available to a Larger Audience

Some Academic Medical Centers are Currently Developing VR Programs to Train Surgeons



Suggested Next Steps

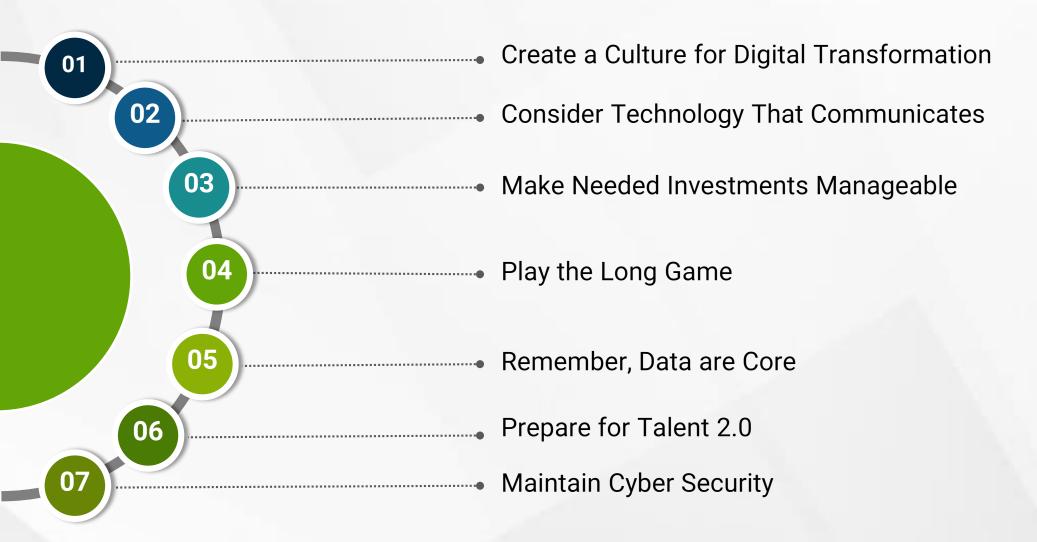






رهسپار سفر دیجیتال شوید ...

Organizational Capabilities for Long-term Success



رهسپار سفر دیجیتال شوید ...

Case Study

43

whersity HOS

هسیار سفر دیجیتال شوید

Opened in April 2017 Queensland, Australia



RFID Tags

Used for Equipment, Devices, and Patients

Newborns Will be Fitted With Skin-sensitive Tags that Emit a Pleasant Beep as Mother and Baby Bond



Digital Way-finder

Patients are Directed via Digital Wayfinder Kiosks to Their Clinicians



Doctors Use an Application on their Devices to Dictate Notes



The Hospital Prioritizes Staff Training and Development



Motion Detectors and Easy-to-use Touch Pads are Mounted on Patient Beds to Alert Staff



Simulation Suite that has Fully Equipped Operating and ICU Rooms with Simulation Patients and Devices Capable of Running Realistic Scenarios for Clinical Staff



Delivering Linens, Meals, and Medical Supplies with Robots



30,000 Comments from Hospital Users and Staff Guided the 14-month Design Process



Inside, the Bright, Ambient Lighting is Sensitive to Movement

46

Results



Patient Healing Staff Productivity

The Hospital is Designed to Help Visitors

Both First-time and Repeat, Feel at Ease



مر ثادنی

عضو هیات علمی دانشگاه تهران بنیانگذار گروه تحول دیجیتال

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