

▶▶ Under the patronage of **H.E. Dr. Abdullah Belhaif Al Nuaimi -** Minister of Infrastructure Development





**International Operations & Maintenance Conference** in the Arab Countries

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Le Meridien Dubai Hotel & Conference Centre United Arab Emirates

Under the Theme:

Enhancing Maintenance Through Big Data Management The Future of Digital Health

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### Agenda

- Healthcare Challenges today
- Digital Transformation in Healthcare
- Patient and Consumer Perspectives
- Evolution in hospitals
- Improving Health systems
- Sustainable Health

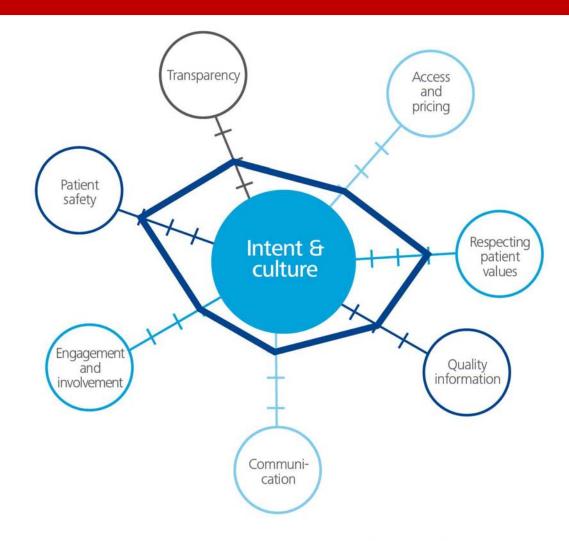
#### Hospitals & Care Systems face many common challenges

- Shifting demographics of patients and the workforce.
- Drive towards cost efficiency; access to capital for investment needed.
- Continuous advances in technology and increasing adoption speed.
- Transition to value-based reimbursement focused on outcomes.
- Increasing demand for cost and quality data transparency.
- Need for clinical integration and care coordination.
- Growing demand for patient and family engagement.
- Challenging variations in care.

#### Hospitals Are Investing in Technology to Lead Digital Transformations

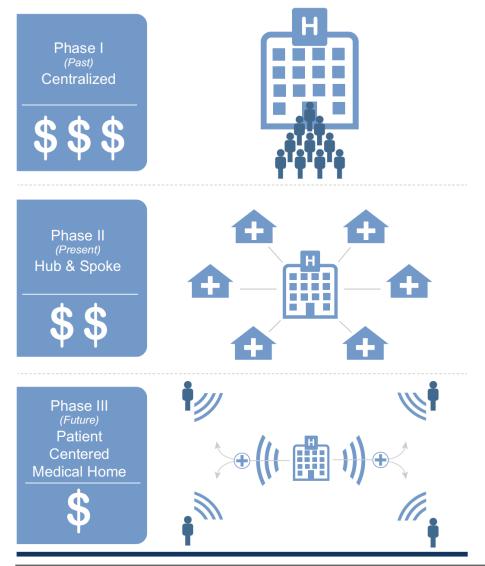


## Patient & Consumer Perspectives



Source: Benchmarking Strategy for Corporate Patient Centricity, PatientView, 2013. see also: http://alexwyke.wordpress.com/2013/09/22/a-benchmarking-strategy-for-corporate-patient-centricity/

## Evolution of the Hospital



Source: Goldman Sachs Global Investment Research

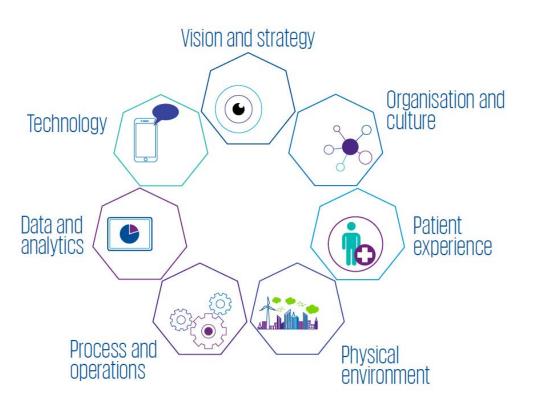
# Tomorrow Hospital will use new technologies to integrate the following trends

- We are all connected
- Collaborative care
- Point of care is everywhere
- Big data will drive decision making process
- Patient experiences will avail
- Simplification: less is more
- Home care is better care



#### The Digital Transformation is leading to

- Dramatic Savings.
- Shared Knowledge.
- Patient Participation.
- Increased Coordination.
- Improved Outcomes.

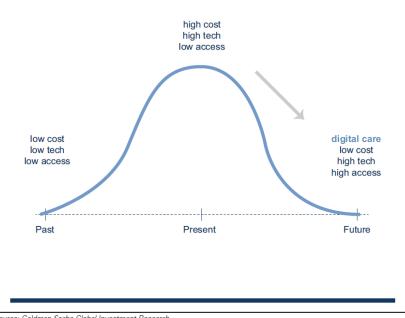


#### Hospital of the Future

Critical steps to improve clinical outcomes, integrate care, improve safety, and meet challenges of the future today.



### The Digital Innovation in Healthcare



Source: Goldman Sachs Global Investment Research

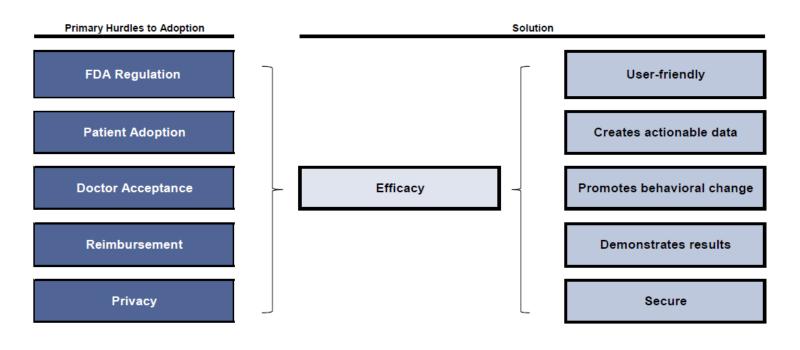
Vertical	Disease State	Total Savings Opportunity	Commercial Opportunity
Remote Patient Monitoring	Heart Disease, COPD/Asthma, Diabetes,	\$200+ billion	~\$15 billion
Telehealth	Routine & Psychological Care	\$100+ billion	~\$12 billion
Behavior Modification	Obesity, smoking cessation, overall lifestyle improvement	Indefinitely large	~\$6 billion

Source: Goldman Sachs Global Investment Research

# HCP are leading digital Health Solutions to meet Critical Objectives including:

- Predicting and tracking diseases before they become acute.
- Preventing recurring health episodes with a focus on positive behavior change.
- Saving unnecessary healthcare spending through better chronic condition management.
- Increasing patient-clinician data between visits.

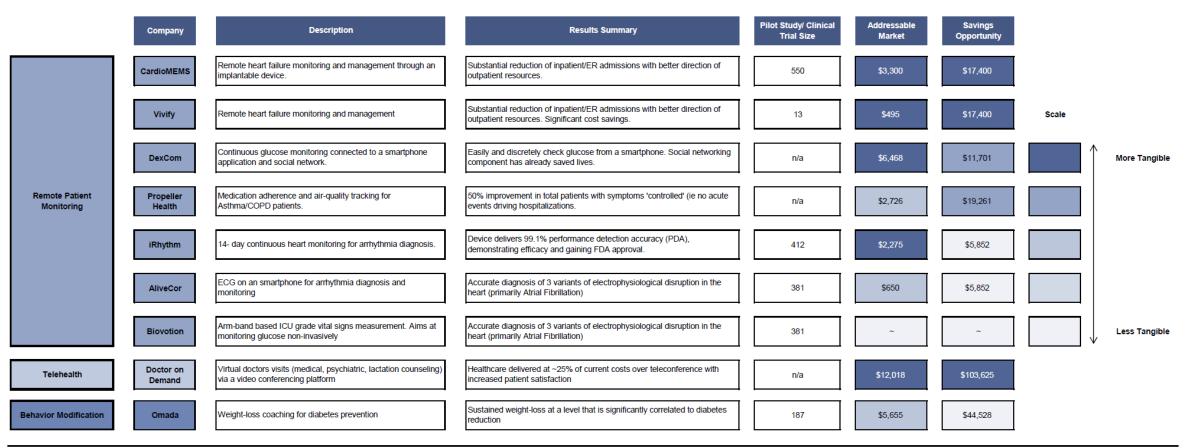
#### Digital Health Development Challenges and Solutions



Source: Goldman Sachs Global Investment Research

### Digital Health Case Studies Across Major Verticals

\$ in millions; trial size in number of patients where applicable

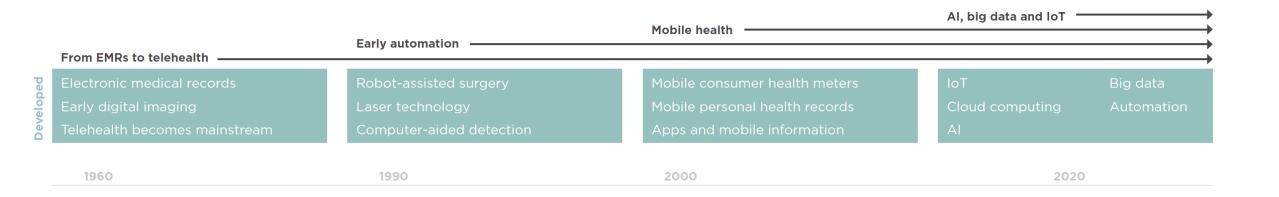


Source: Goldman Sachs Global Investment Research, 2012 MEPS Survey, CMS, Industry Data

# Exciting Time in Healthcare

	Old World	New World
Payment	Fee-for-service	Outcome-based
Incentive	Volume	Value
Focus	Acute episodes	Population health
Role of Provider	Single episodes	Care continuum
Information	Retrospective	Predictive

#### Digitization of The Healthcare Industry



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#### Key Digital Health Benefits

#### **ACCESS**



Greater reach of healthcare delivery as some doctor services can be delivered to patients (and managed) via technology-based solutions (telehealth for remote monitoring and diagnostics).

Greater and faster patient access to health and wellness information delivered via mobile phones. This is key in developing countries where 51% of the population live in rural areas.

#### QUALITY



Better coordination of care as digital health enables faster and secure communication and data sharing between healthcare centres, professionals and patients.

Enhanced quality of professionals as they are more equipped and can analyse greater data sets to take decisions. Digital health also includes tools for e-learning and training.

#### COST



#### Earlier risk detection and action:

digital health allows patients to take greater responsibility for active management of some of their own health issues and allows professionals to detect risks earlier. This can help reduce the burden of diseases.

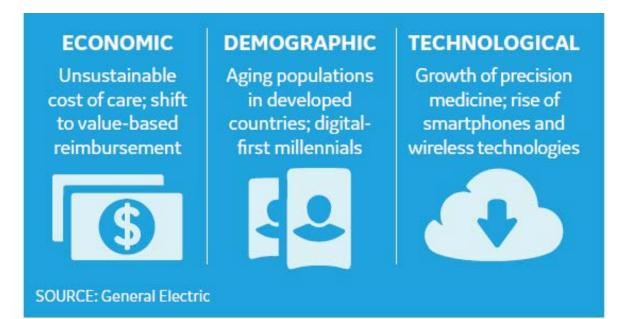
Resource optimisation: digital health can ensure that available health resources are used most effectively and where/when needed.

# Benefits of Digital Health



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## Drivers of Digital Health Revolution



Using big data to drive value-based care could reduce health care spending in the U.S. between

\$300-450 BILLION A YEAR,

or 12-17% of the \$2.9 trillion spent that year

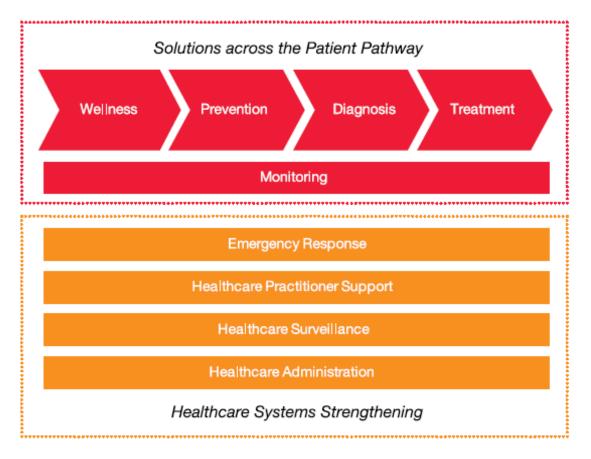
SOURCE: McKinsey and Company

## Digital Health Will Push Care Back Home



**Step Ups in Care and Cost** 

#### Digital Health Services Across the Continuum of Care



Source: GSMA and PwC analysis



Sustainable health is about promoting wellbeing delivering connected and better healthcare and pursuing innovation. We are deemed to change.

Malek El Husseini

# Thanks