



# MYANMAR HEALTHCARE LANDSCAPE

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# MYANMAR HEALTHCARE LANDSCAPE CURRENT VS FORECAST

FY 2019-20

FY 2028-29

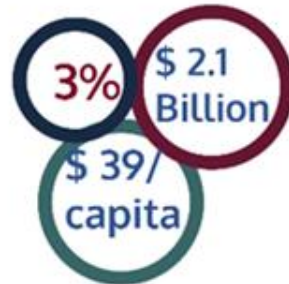
Population 55 million



GDP Approx.  
**\$ 72 Billion**



Health Expenditure,  
total ( % of GDP)



Private sector spend 30%  
**\$ 630 Million**



Population 60 million



GDP Approx.  
**\$ 150 Billion**



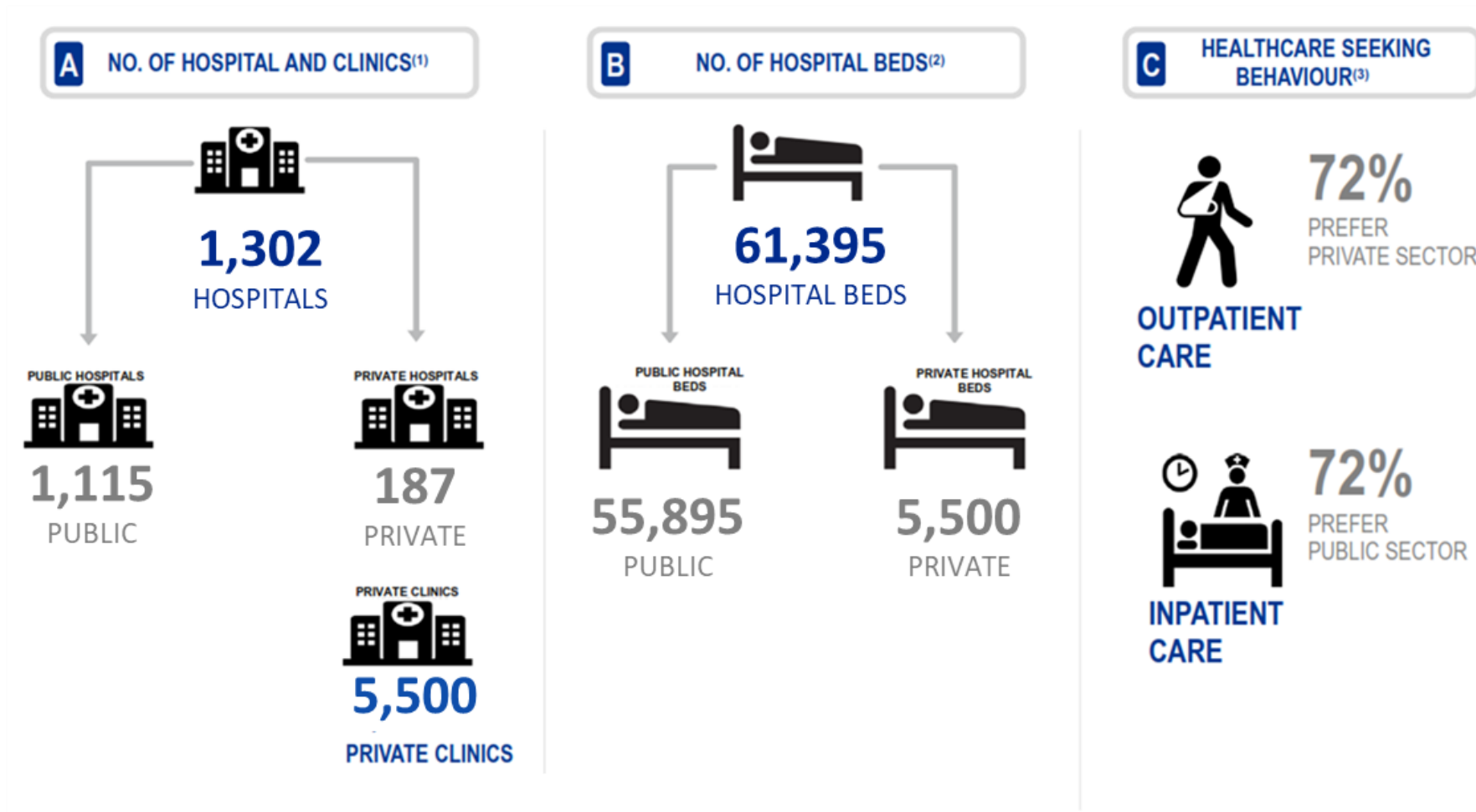
Health Expenditure,  
total ( % of GDP)












Private sector spend 30%  
**\$ 2.25 Billion**



# MYANMAR HEALTHCARE INFRASTRUCTURE



# GROWING POPULATION, URBANIZATION AND ECONOMY

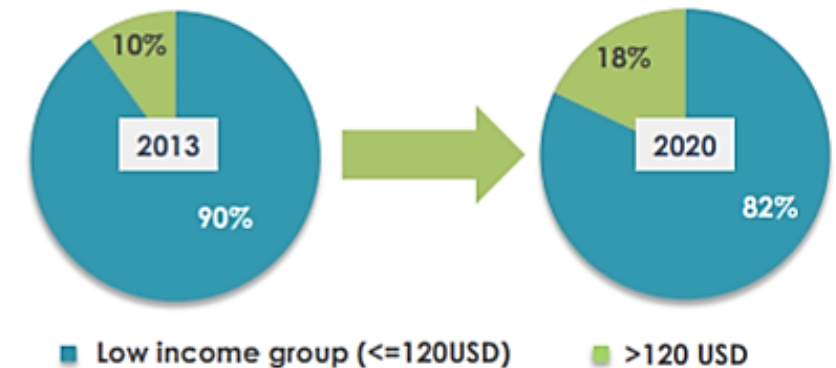
Country		Population 2016 (Mn)	Current GDP 2016 (USD Bn)	Inflation Growth (2016-2022)	GDP Growth (2016-2022)
Indonesia		258.7	932.5	4.1%	5.3%
Philippines		104.2	304.7	2.9%	6.9%
Vietnam		92.6	201.3	4.7%	6.3%
Thailand		69.0	407.0	1.8%	3.1%
<b>Myanmar</b>		<b>52.3</b>	<b>66.3</b>	<b>6.5%</b>	<b>7.4%</b>
Malaysia		31.7	296.6	4.7%	2.8%
Cambodia		15.8	19.4	3.1%	6.7%
Laos		7.2	13.8	2.8%	6.9%
Singapore		5.6	297.0	1.4%	2.5%

Myanmar Total Population (Mn)

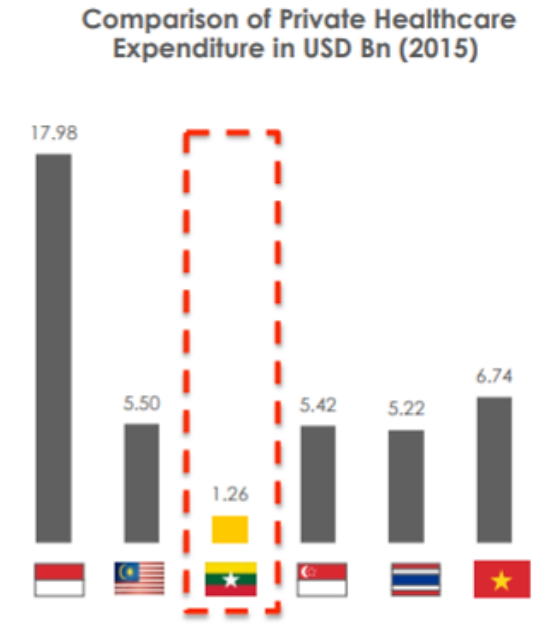
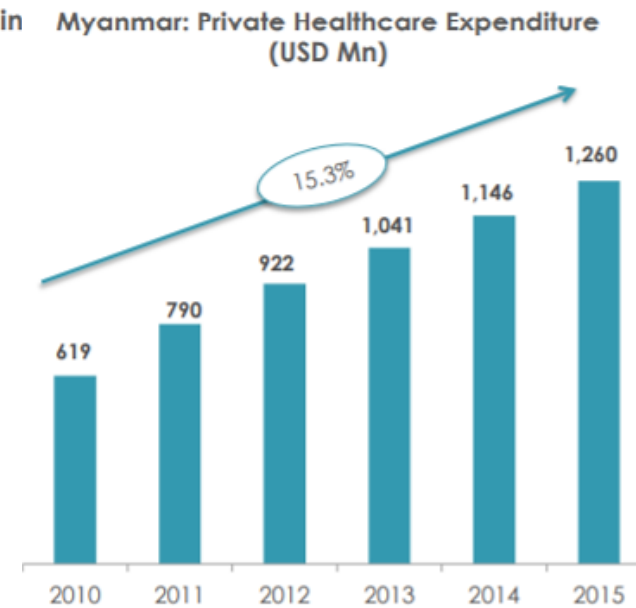
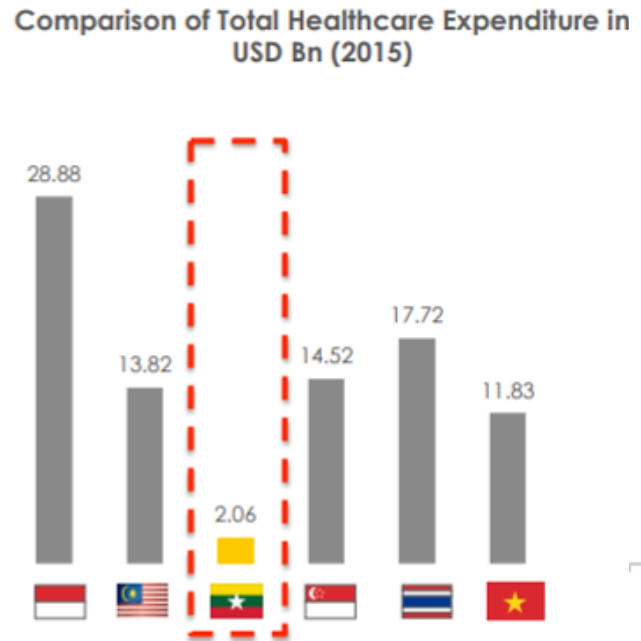
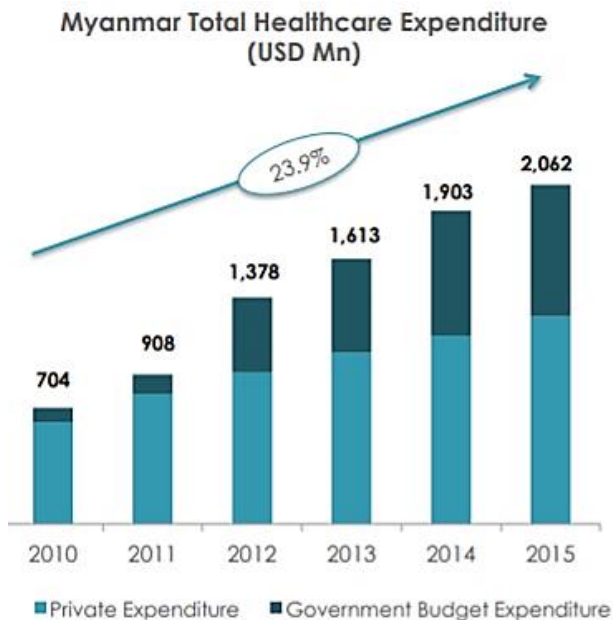


Myanmar Population is expected to grow at ~0.7% in the next few years, which is the second lowest in the region behind Thailand but the global average is at ~1.15%

Myanmar Avg. Monthly Income / Person



# LEADING TO IMPROVEMENT IN HEALTHCARE EXPENDITURE



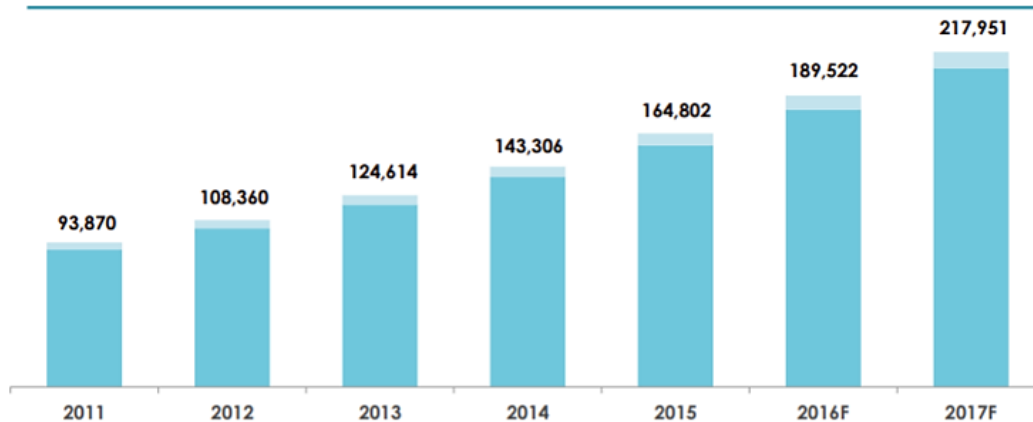
- Total healthcare expenditure is increasing with a growth rate of ~24% primarily driven by the higher government budget allocation in Myanmar.
- Despite its high growth rate, total healthcare expenditure is at USD ~2.06 Bn in 2015 which is relatively behind compared to other ASEAN countries.

- Increasing public awareness and growing private facilities will be expected to drive the private healthcare expenditure but limited public spending power is still the key barrier

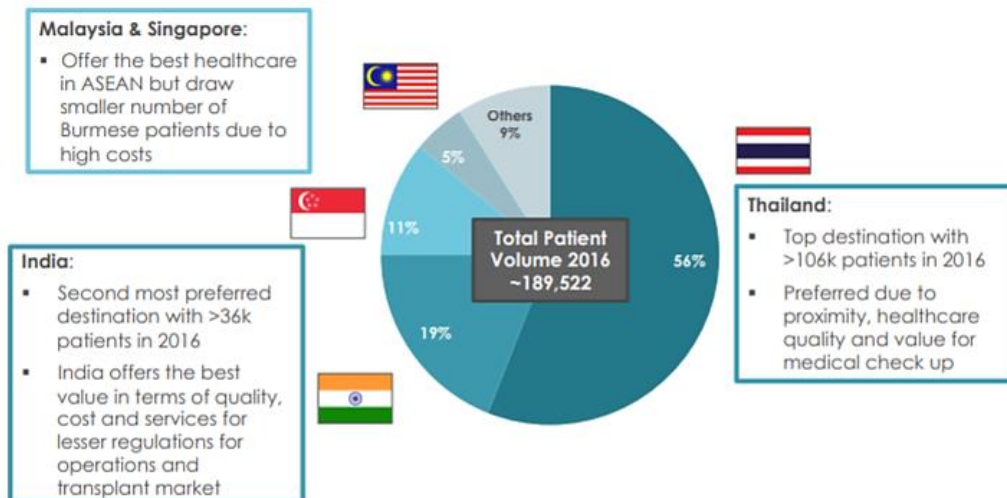


# OPPORTUNITY TO REVERSE OUTBOUND MEDICAL TOURISM

Myanmar Outbound Medical Tourists, 2011-2017F





Myanmar Medical Tourist Split by Patient Volume, 2016



- **Rapid economic development of Myanmar precedes the development of healthcare infrastructure** resulting in more affluent patients to seek medical treatment overseas (ie. Bangkok, Singapore and India).
- **Everyday, 500 Burmese patients are going abroad to seek healthcare** because they believe they will receive better care and quality outside Myanmar.
- To capture demand from these patients who can afford better healthcare, private and government hospitals in Myanmar **need to upgrade infrastructure, care delivery system and quality of care.**
- **PHSH's service offering based on Accreditation, Affiliation, Track Record and State-of-the-Art value proposition** is in the best position to **reverse the trend** and offer equitable access to quality healthcare in Myanmar
  - Near Term – target to reverse outbound medical travel
  - Mid Term – attract inbound tourism and play an important role in Indonesia's evolution into the next medical hub

# STEEPLE ANALYSIS

S	T	E	E	P	L	E
SOCIAL	TECHNOLOGICAL	ECONOMIC	ENVIRONMENTAL	POLITICAL	LEGAL	ETHICAL
						
Demography	Evidence-based Care	GDP	Micro	Rules and Regulations	Taxing	Bribery
Epidemiology	Predictive & Personalized	Per Capita Income	Macro	Polices	License	Intellectual Property
Geography	Robotic	Disposable Income	Environmental Policy	Laws	Legal Compliance	Reputation
Socioeconomic	Home-based	Insurance	Waste Management (Chemical/ Biological)	Political Stability	Employment Law	Business Ethics
Urbanization	Device-based	Demand Side		Foreign Trade	Consumer Protection	Confidentiality
Literacy	Telemedicine	Supply Side				
	Health Apps/ mobile Apps					

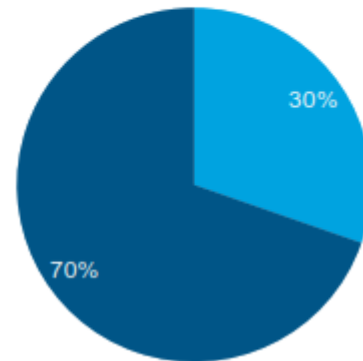
# SOCIAL FACTORS

## Life expectancy:

Men : 63.9 years  
 Women : 69.9 years  
 Highest : Mon State (71.7 years) and Yangon (71.2 years)  
 Lowest : Magwe (60.6 years) and Ayeyarwady regions (61.0 years)

## Myanmar rural population 2017 (% of total)

Urban  
 Rural



## Fertility rate:

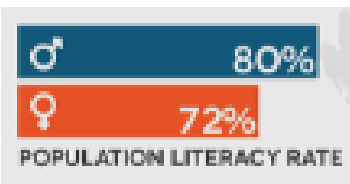


Myanmar women have an average of **2.3 children**

» down from 4.7 children in 1983

Urban areas: **1.8 children**

Rural areas: **2.5 children**

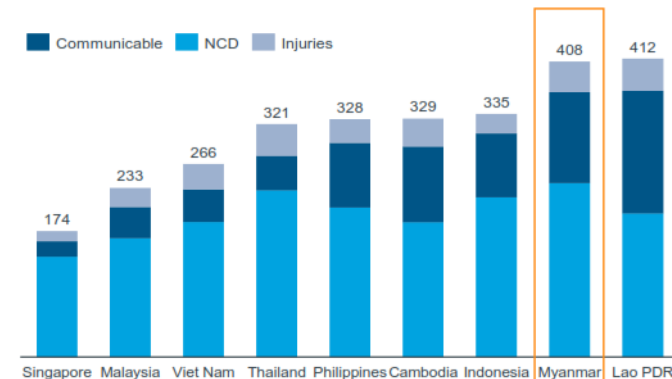


## Top 10 diseases Myanmar, number of deaths 2017

2007 Ranking	2017 Ranking	Disease	Growth 2007-2017	# of deaths 2017
1	1	COPD	16%	38,842
2	2	Stroke	0%	35,531
3	3	Ischemic heart disease	-1%	31,883
4	4	Diabetes	21%	27,217
5	5	Cirrhosis/other chronic liver diseases	7%	23,171
6	6	Lower respiratory infections	-31%	22,582
7	7	Asthma	-19%	14,759
8	8	Alzheimer's disease/other dementias	36%	14,445
9	9	Tuberculosis	-49%	13,540
15	10	Neonatal disorders	-40%	13,244

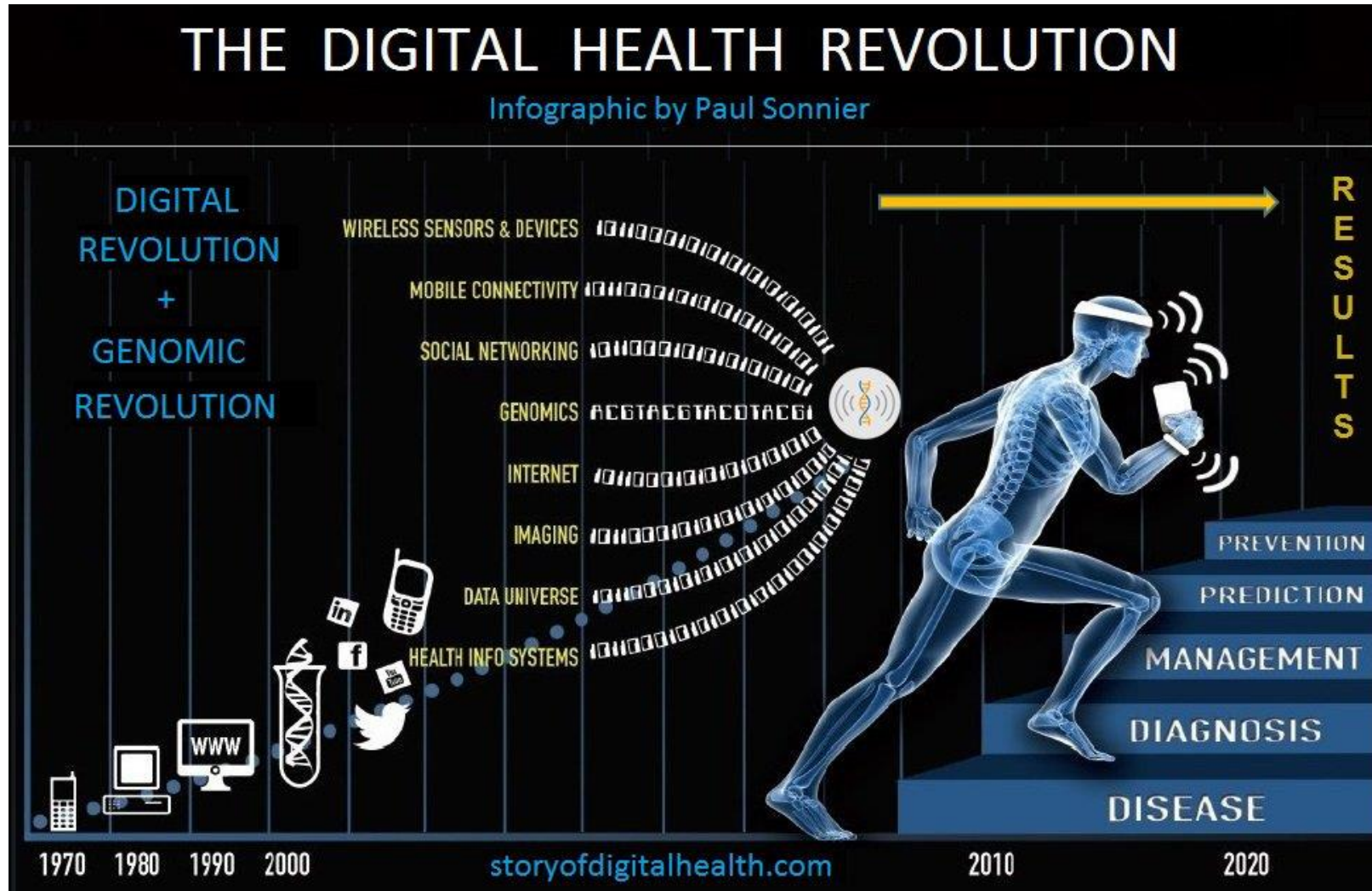
## DALYs per 1000 population 2016

Communicable NCD Injuries





# TECHNOLOGICAL FACTORS



# ECONOMIC FACTORS

**Fast growing  
and booming  
Myanmar  
economy**

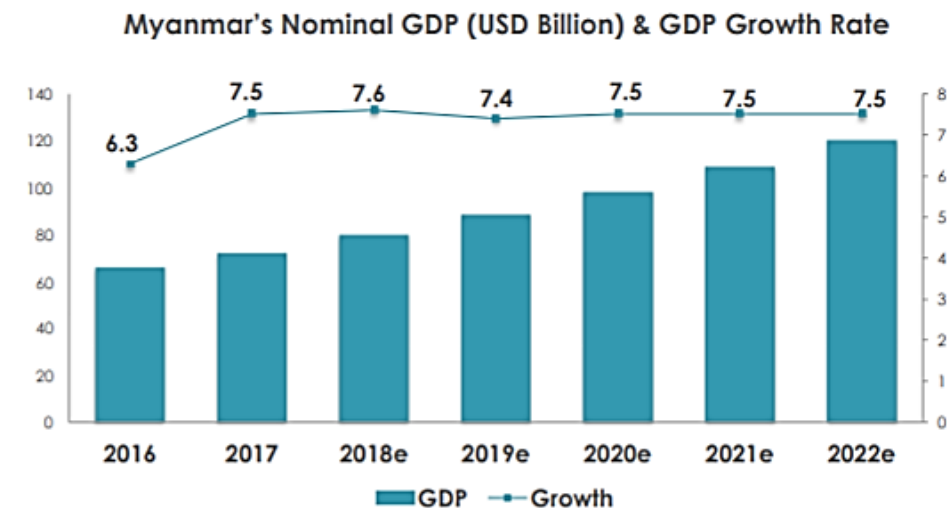
- Myanmar is the second largest country in SEA in terms of land area and the fifth largest country for population size, with significant untapped potential.
- Myanmar's economy is expected to grow at ~7.4% in the next 5 years, driven by economic and political reforms since 2011.
- Total healthcare expenditure is increasing at a growth rate of ~24%, primarily driven by the higher government budget allocation in Myanmar.
- Despite its high growth rate, total healthcare expenditure is estimated at USD ~2.6 Bn in 2017 which is relatively behind compared to other ASEAN countries.

**66.3 BN USD**  
2016 GDP (at current  
prices – est.)

**1,269 USD**  
2016 GDP per capita  
(est.)

**7.0 %**  
2016 Inflation Rate  
(est.)

**52.3 MN**  
2016 Population  
(est.)

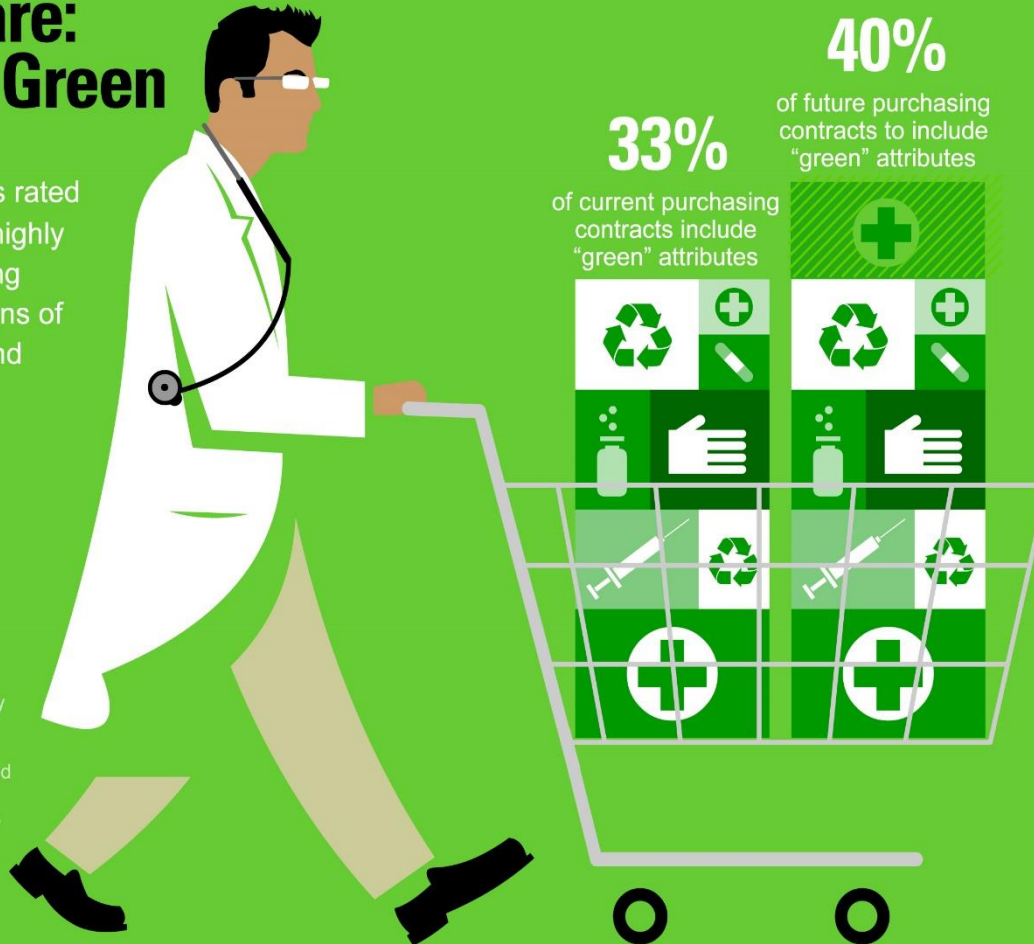


# ENVIRONMENTAL FACTORS

## Healthcare: Globally Green

**54%** of hospitals rated "green" attributes highly significant in making purchasing decisions of medical devices and pharmaceuticals.

Source: Green Sustainability Global Customer Survey of 307 key decision makers in January 2012, commissioned by Medical Devices & Diagnostics Global Services LLC, a Johnson & Johnson Company.



Waste Management



Energy Saving



Flimless Radiology



Ecofriendly Chiller

# POLITICAL FACTORS

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**Universal  
Health  
Coverage**



**Private  
Public  
Partnership**

# ETHICAL AND LEGAL FACTORS

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## AUTONOMY

*Acknowledge people's right to make choices for themselves based on their own values and beliefs*



## NONMALEFICENCE

*"One ought not to inflict evil or harm," where harm is understood as "thwarting, defeating, or setting back some party's interests"*



## BENEFICENCE

*One ought to prevent and remove evil or harm;  
One ought to do and promote good  
(Beauchamp & Childress, 2009, p. 151).*



## JUSTICE

*Treat others equally and fairly.*



# PHSH: FIRST MOVER ADVANTAGE IN A HIGHLY UNDERSERVED MARKET



***Dramatic undersupply of hospital beds and healthcare professionals***



**0.9 (4.7)**

**HOSPITAL BEDS**  
per 1000 Population



**0.6 (2.5)**

**DOCTORS**  
per 1000 Population



**0.9 (9)**

**NURSES**  
per 1000 Population



Myanmar



OECD Average

***PHSH has the First Mover Advantage to fill the gap***

- PHSH is Myanmar's most established private hospital group with proven ability to rapidly rollout new hospitals as well as acquire and remodel existing hospitals.
- With 3 existing operating hospitals, PHSH is the only group with the momentum and concrete rollout plan to address the rising demand for healthcare services.
- The only hospital in Myanmar with full-time specialists in a multidisciplinary team-based model.
- The only American heart association certified BLS/ACLS training center.

Increasing aging population

High disease prevalence

Growing demand for healthcare services and medical devices

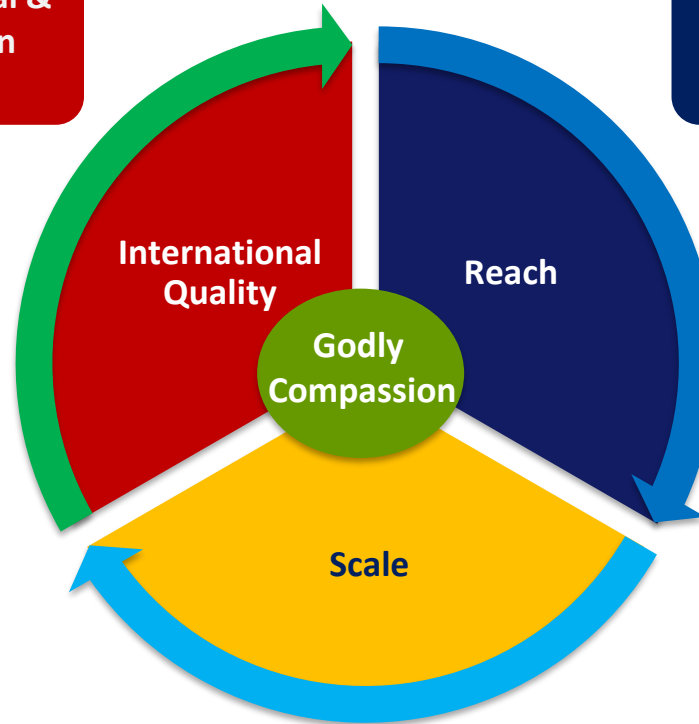
Early detection of diseases

Regular check ups

# OUR VISION

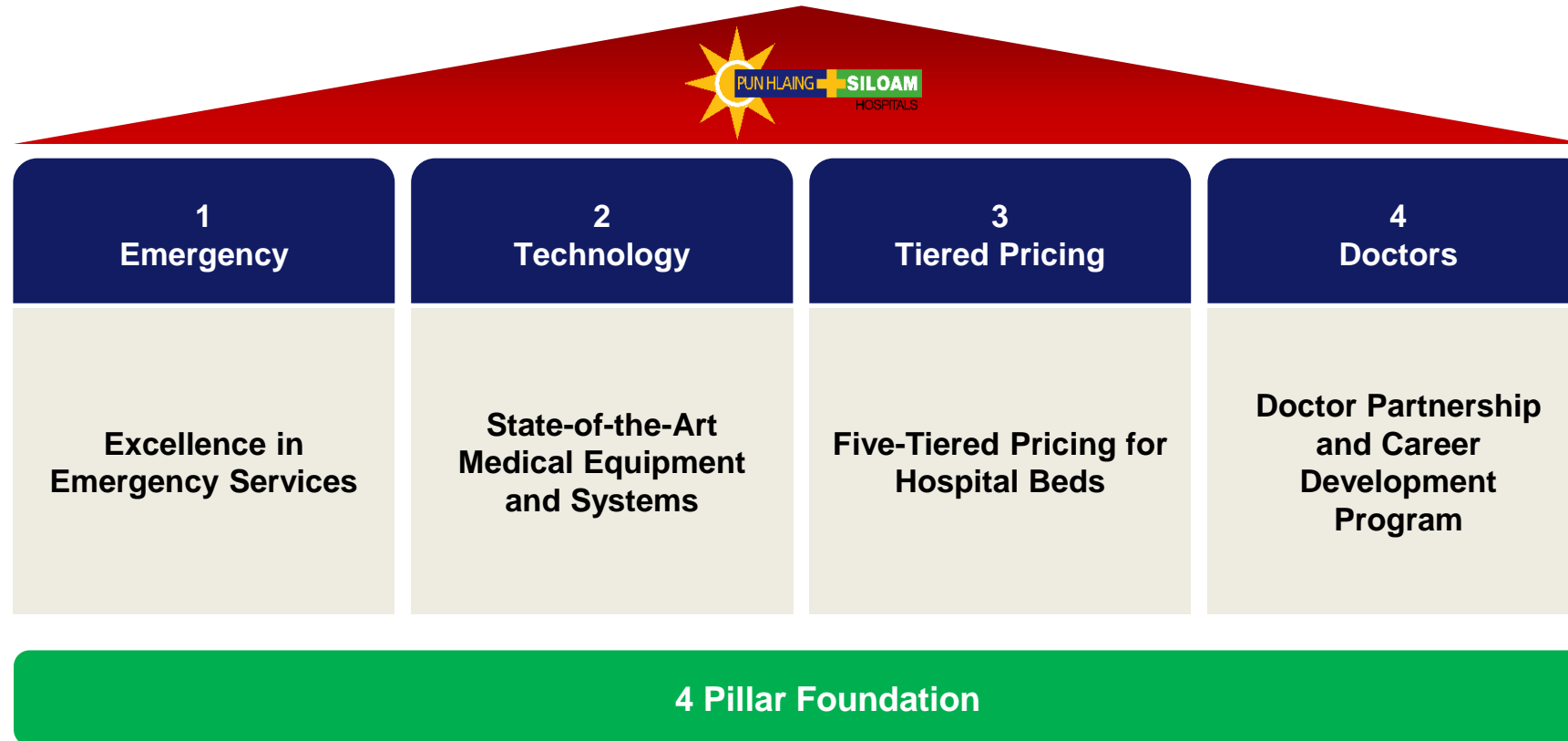
**Only JCI Accredited Hospital &  
First EDGE Certification in  
Myanmar**

**To be a National Network with  
10 Hospitals/Clinics across  
Myanmar by 2028/29**



**Affordable, Accessible and Equitable  
Healthcare  
to All Socio-Economic Segments**

# OUR FOUR PILLAR OPERATIONAL MODEL



## OUR CLINICAL SERVICE DEPARTMENTS

### CLINICAL DEPARTMENTS

### LINE OF BUSINESS (LOB)

### LINE OF SERVICE (LOS)

- Anesthesiology
- Cardiology
- Dentistry
- Endocrinology
- Gastroenterology
- General Surgery
- Internal Medicine
- Pulmonology
- Nephrology
- Neuroscience
- Obstetric and Gynecology
- Oncology
- Ophthalmology
- Orthopedics
- Otolaryngology
- Pediatrics
- Plastic, Aesthetic and Reconstructive Surgery
- Rehabilitation
- Urology

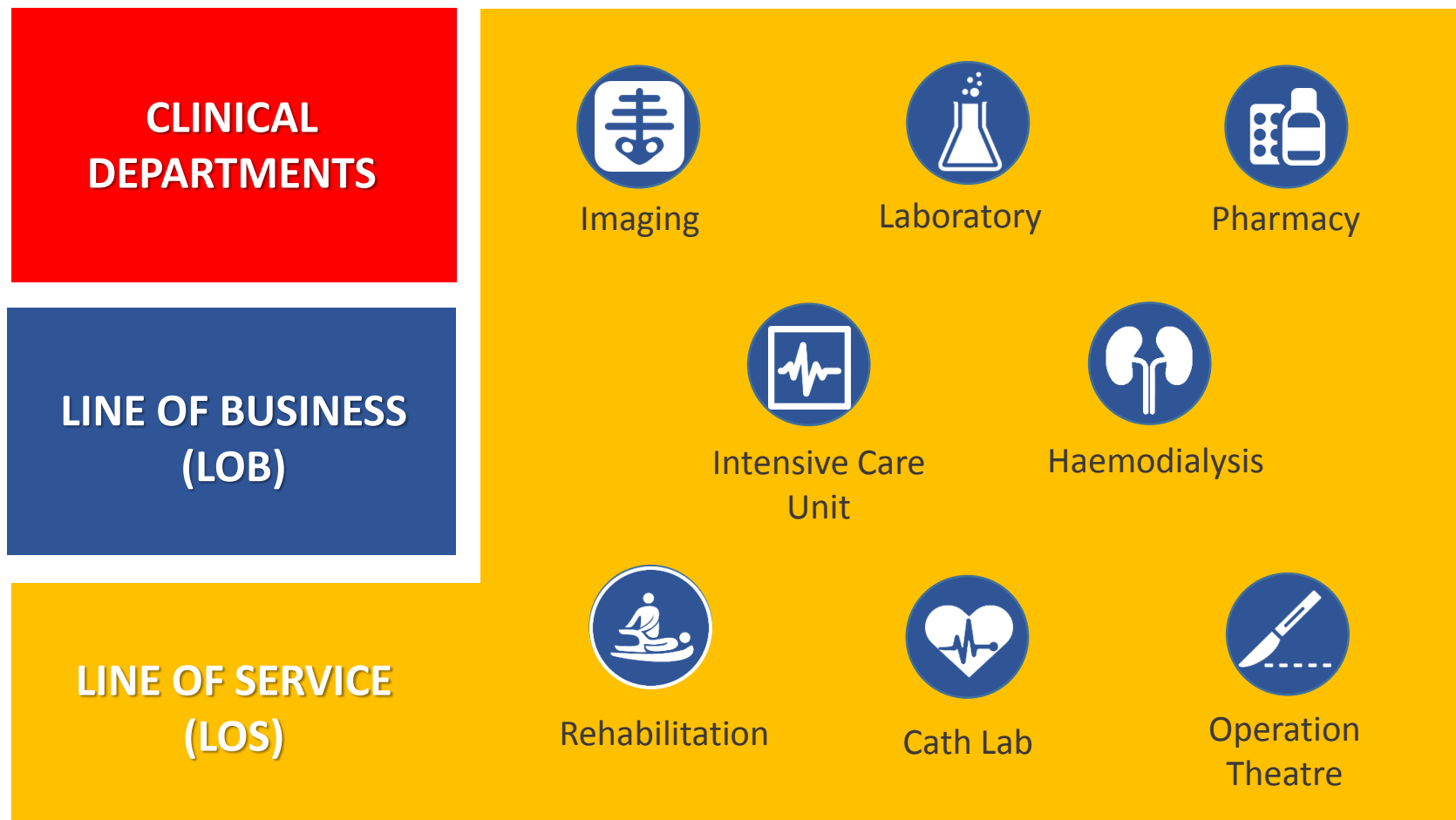


## OUR CLINICAL SERVICE DEPARTMENTS





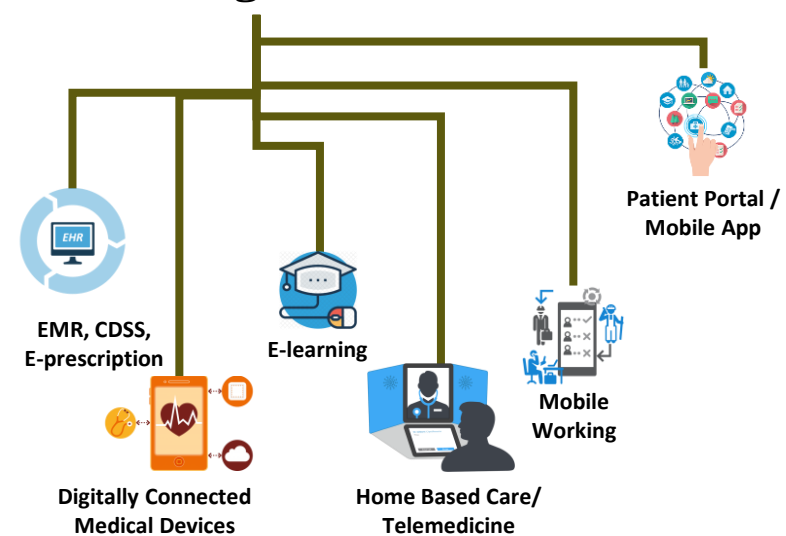
## OUR CLINICAL SERVICE DEPARTMENTS



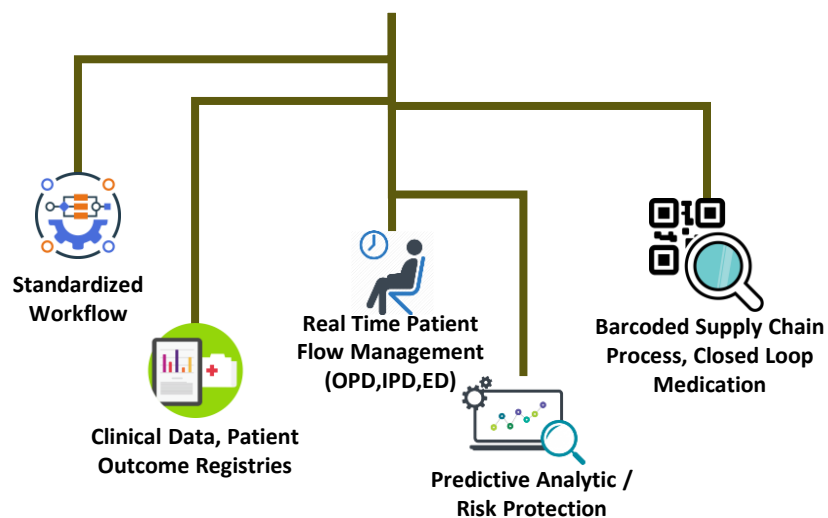
# DIGITAL STRATEGY



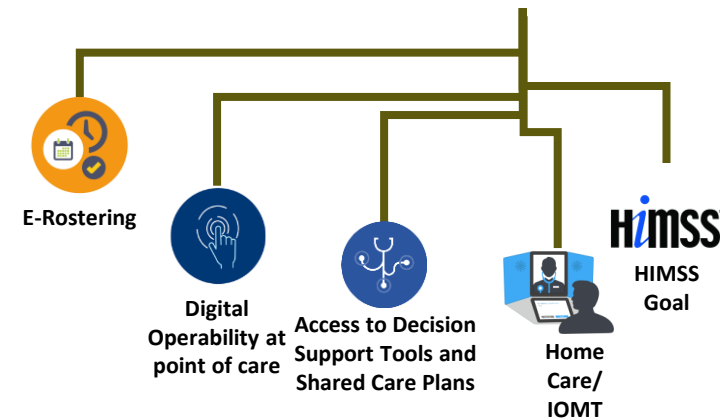
## Digital






## Automation






## Human Behavior



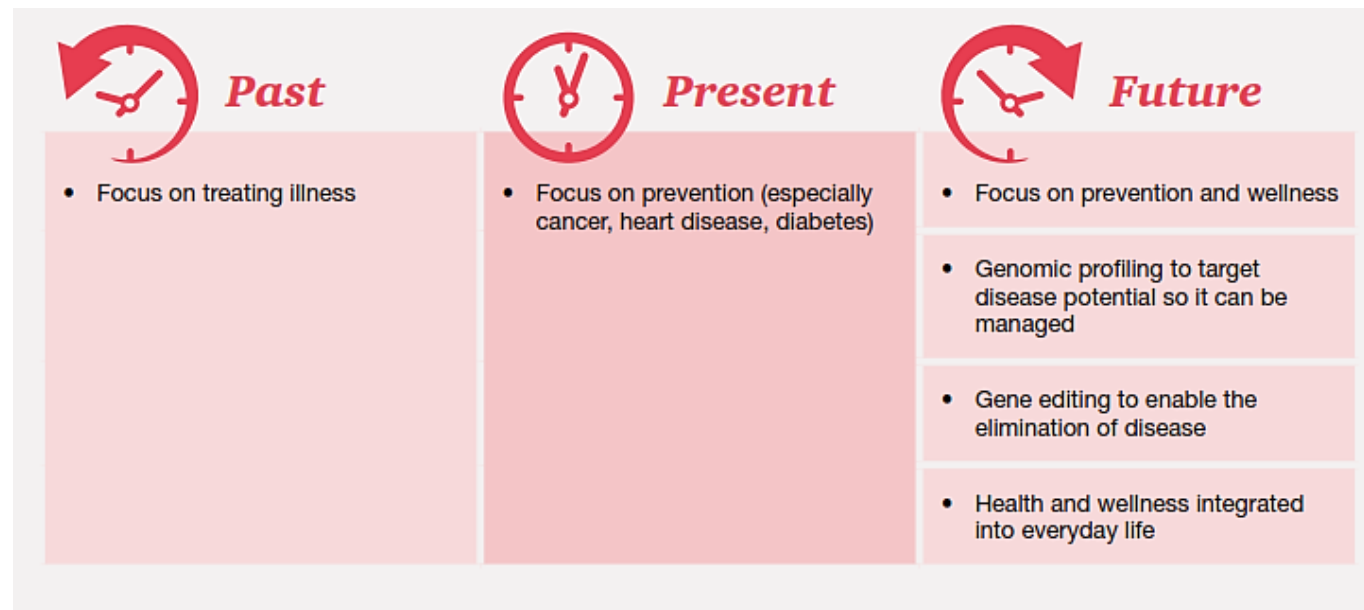
# THE CHANGING ROLE OF PATIENTS

 <b>Past</b>	 <b>Present</b>	 <b>Future</b>
<ul style="list-style-type: none"> <li>Passive recipient of information and care; responds to 'doctor's orders'</li> </ul>	<ul style="list-style-type: none"> <li>Empowered; active participant in treatment decisions</li> </ul>	<ul style="list-style-type: none"> <li>Primary decision-maker</li> <li>Active partner with physicians and care teams</li> <li>Potentially no physicians</li> </ul>
<ul style="list-style-type: none"> <li>Limited access to medical information</li> </ul>	<ul style="list-style-type: none"> <li>Easy access to medical information (via web, social media)</li> <li>Researches symptoms prior to doctor visit</li> </ul>	<ul style="list-style-type: none"> <li>Proactive medical information (re: potential illness) delivered automatically via AI or virtual reality</li> </ul>
<ul style="list-style-type: none"> <li>No access to digital health tools</li> </ul>	<ul style="list-style-type: none"> <li>Uses multiple digital health tools (mobile and web-based)</li> <li>Orders certain tests (including genetic tests) online</li> </ul>	<ul style="list-style-type: none"> <li>Orders and analyses tests using smartphone</li> <li>Self-care via prevention and treatment (including more home screening, and treatment via nanobots in bloodstream)</li> </ul>

# THE CHANGING ROLE OF WORKFORCE




 <b>Past</b>	 <b>Present</b>	 <b>Future</b>
<ul style="list-style-type: none"> <li>Physicians, nurses, other medical professionals</li> </ul>	<ul style="list-style-type: none"> <li>Professionals and non-professionals (caregivers, social workers, etc.)</li> <li>Robotic-assisted caregivers</li> </ul>	<ul style="list-style-type: none"> <li>Self, assisted by AI and possibly medical professionals</li> </ul>
<ul style="list-style-type: none"> <li>Many specialist doctors</li> </ul>	<ul style="list-style-type: none"> <li>Too few physicians in emerging markets</li> <li>Too few general practitioners (GPs), too many specialists in developed markets</li> </ul>	<ul style="list-style-type: none"> <li>Fewer specialists, more primary care doctors</li> <li>Robots replace specialists for some procedures (e.g., robotic surgeons)</li> </ul>
<ul style="list-style-type: none"> <li>Individual care providers</li> </ul>	<ul style="list-style-type: none"> <li>Care teams</li> </ul>	<ul style="list-style-type: none"> <li>Integrated care teams led by primary care doctors</li> <li>Robots incorporated into care teams</li> </ul>
<ul style="list-style-type: none"> <li>Medical expertise is prioritised</li> </ul>	<ul style="list-style-type: none"> <li>Technology-assisted clinicians</li> </ul>	<ul style="list-style-type: none"> <li>Technology expertise and management skills are prioritised</li> </ul>
<ul style="list-style-type: none"> <li>Few unskilled workers</li> </ul>	<ul style="list-style-type: none"> <li>More unskilled workers, assisted by technology</li> </ul>	<ul style="list-style-type: none"> <li>Skilled and unskilled workforce assisted by AI and robotics</li> </ul>

# THE EVOLUTION OF WELLNESS AND PREVENTION

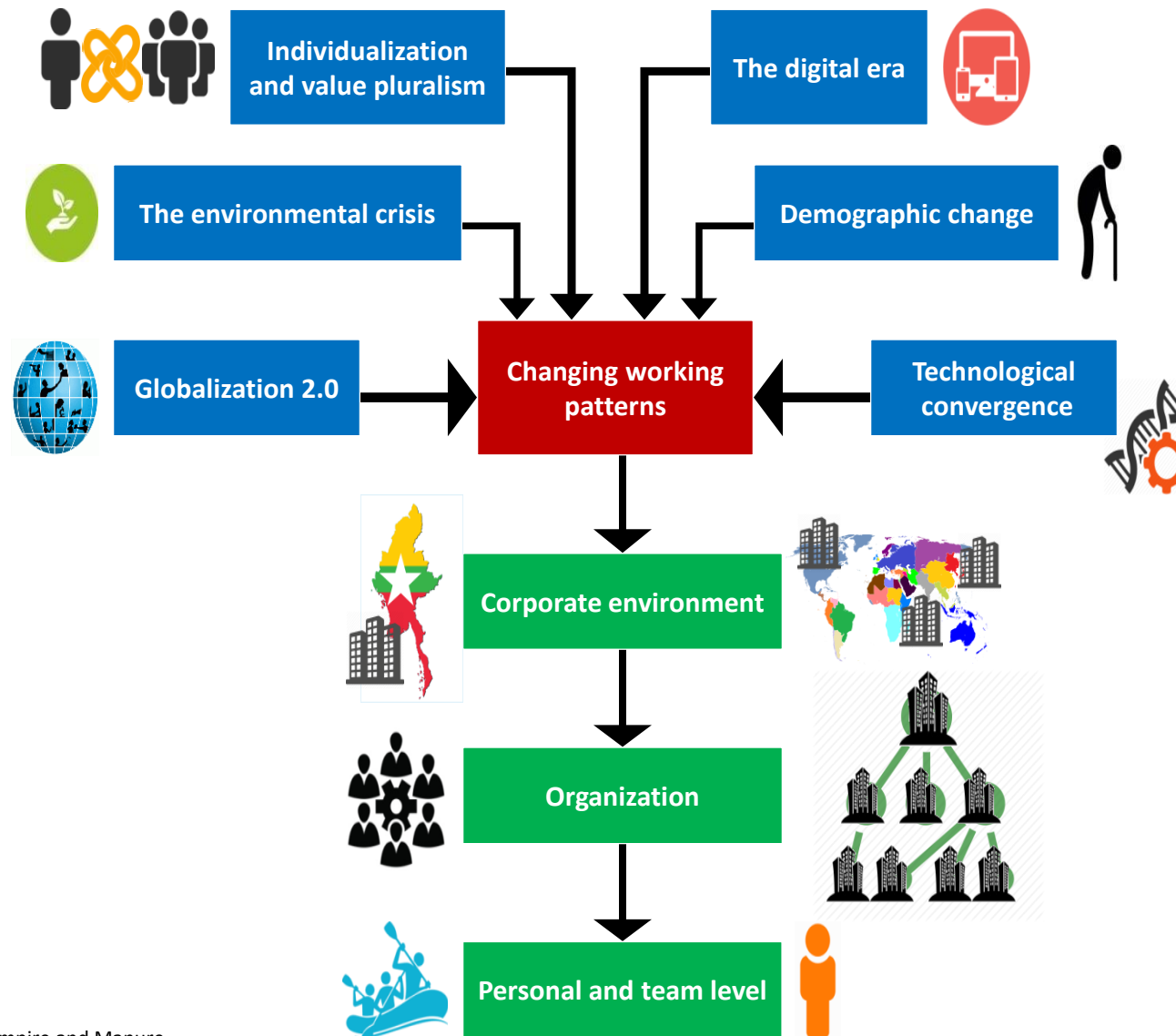




# USING TECHNOLOGY IN CARE DELIVERY

 <b>Past</b>	 <b>Present</b>	 <b>Future</b>
<ul style="list-style-type: none"> <li>Large equipment—hospitals and doctors' offices</li> </ul>	<ul style="list-style-type: none"> <li>Portable devices</li> <li>Wearables</li> <li>Smartphone-based</li> <li>Virtual technology (e.g., telemedicine)</li> </ul>	<ul style="list-style-type: none"> <li>Virtual (e.g., medical holograms, telemedicine)</li> <li>Embedded (e.g., nanobots, sensors)</li> </ul>
<ul style="list-style-type: none"> <li>Physician-focused</li> </ul>	<ul style="list-style-type: none"> <li>Physician- and consumer-focused</li> </ul>	<ul style="list-style-type: none"> <li>Consumer-focused</li> </ul>
<ul style="list-style-type: none"> <li>No interconnectivity</li> </ul>	<ul style="list-style-type: none"> <li>Limited connectivity</li> </ul>	<ul style="list-style-type: none"> <li>Extensive connectivity</li> <li>Wireless</li> <li>Cloud-based</li> </ul>
<ul style="list-style-type: none"> <li>Physical</li> </ul>	<ul style="list-style-type: none"> <li>Physical and virtual</li> </ul>	<ul style="list-style-type: none"> <li>Emphasis on virtual</li> </ul>
<ul style="list-style-type: none"> <li>External</li> </ul>	<ul style="list-style-type: none"> <li>Still mainly external</li> </ul>	<ul style="list-style-type: none"> <li>Sensor-based, embedded (e.g., in home appliances, furniture, clothing)</li> <li>Internal (in vivo devices – for diagnostics and treatment)</li> </ul>
<ul style="list-style-type: none"> <li>Low-tech</li> </ul>	<ul style="list-style-type: none"> <li>High-tech, limited integration and interoperability</li> </ul>	<ul style="list-style-type: none"> <li>High-tech</li> <li>AI-driven</li> <li>Leverages Big Data, genomics, and analytics</li> <li>Integrated</li> <li>Interoperable</li> </ul>

# THE SIX MEGATRENDS



# OUR COMMITMENT



# Thank You



Care with Compassion for the Nation