

AMARAVATI

DEEP DIVE WORKSHOP

14, 15 DECEMBER 2017

THE GATEWAY HOTEL, VIJAYAWADA

Liveability | Economic Powerhouse
Infrastructure | Governance



Health City



Proposed vision for the Amaravati health city



“To become one of the top 3 healthy cities in the world, a preferred medical & wellness tourism destination anchored on excellence in health, research, innovation and education”



Medical tourists

Amaravati in 2036

~1.2 million

Benchmark city -2017

Thailand



No. of health startups/ discoveries

~300 startups funded

USA¹






Elements of healthcare – Market in India



De-prioritised for Amaravati because Vizag is existing hub Enabler



1 Healthcare delivery and Diagnostics

USD 27 billion by 2020³

 ~200,000 hospitals
 ~2,760 blood banks
 ~60,000 diagnostic labs

2 Wellness and alternate medicine

USD 22 billion by 2020


 ~2,300 wellness spas in India
 ~3,600 AYUSH hospitals

3 Medical education


~460 colleges

4 Senior homes

USD 1.9 billion by 2020


~10,000 units

5 Healthcare IT, startups and research

USD 1.5 billion by 2020


~200 startups funded in 2014-16

6 Health Insurance

USD 2 billion by 2020²



5 standalone health insurance players¹

7 Pharmaceuticals



USD 55 billion by 2020



~10,500 manufacturing units

8 Medical devices and implants

USD 8.6 billion by 2020

 ~800 Implant manufacturers
 3 Medtech parks

1 Star Health and Allied Insurance, Apollo Munich Health Insurance, Max Bupa Health Insurance, Religare Health Insurance, and Cigna TTK.

2 <http://www.newindianexpress.com/business/2017/oct/03/standalone-health-insurance-market-to-touch-rs-20000-crore-by-2020-1665886.html>

3 Including hospitals and diagnostic centers



Pillars of the Amaravati Health City



To become one of the top 3 healthy cities in the world, a preferred medical & wellness tourism destination anchored on excellence in health, research, innovation and education

1

Health Care Delivery

- Hospitals
- Diagnostic Labs
- Blood/Organ Donation banks
- Chemists

2

Wellness and Alternative Medicine

- Wellness Center
- Yoga & Meditation
- AYUSH hospital
- Resorts, Spas

3

Medical Education and Research

- Medical College
- Nursing Colleges
- Training institutes
- Research Center

4

Healthcare IT / Healthcare startups

- Tele-medicine
- Innovation hub

5

Senior Homes

- Senior Homes

Enabling Healthy Lifestyle: Cycles, Organic food

Preventing disease and accidents: Clean air, safe roads

6

Support Companies: Health Insurance



Amaravati to tap into the opportunity of growing medical tourism



Opportunity for Amaravati

- **Medical Tourism in India** is estimated to **grow to USD 8 billion by 2020**
- Medical tourists **typically visit India for tertiary care and super-specialty treatments**
- There is **potential to tap ~5-10% of that medical tourism market**

Way forward – Build a Single Collaborative Ecosystem with all facilities in one campus

- Medical, Nursing and Training colleges
- Research labs



- Super-specialty
- Diagnostics
- Blood/ Organ banks
- Pharmacies
- AYUSH hospitals


- Start-ups
- Incubators, Innovation Hubs
- Health insurance
- Convention centers
- Fitness parks, gyms, yoga studios
- Organic and natural food
- Wellness spas, resorts and retreats
- Senior homes




1

Low cost, high quality treatments with shorter waiting periods are key differentiators



Turkey 

- Low cost (42% of US)
- Highest number of JCI-accredited hospitals in the world

Jordan 

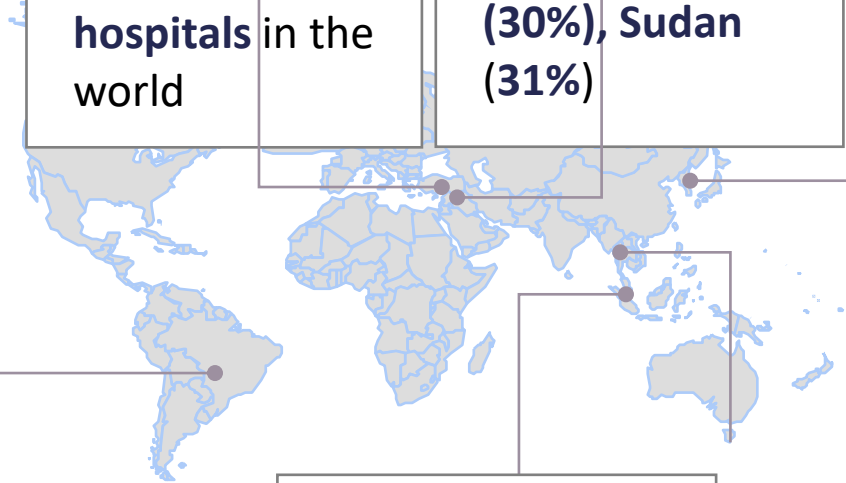
- Low cost (33% of US)
- Tourist origin: Iraq (38%), Palestine (30%), Sudan (31%)

South Korea 

- Asian plastic surgery capital
- Council for Korean Medicine Overseas Promotion (CKMP)

Brazil 

- 2nd largest market for plastic surgery
- good quality: 20 JCI hospitals
- Proximity to US, no visa



Thailand 

- Tourist origin: US (33%), China (29%), Japan (18%), UK (14%), and ME and Australia (6%)

Singapore 

- Tourist origin: ME (50%), Asia (45%) and Europe (5%)



1 Amaravati can emerge as a hub for tertiary care



Way forward

- **Invite leading tertiary care hospitals** to set base in Amaravati and **facilitate low cost treatment**:
 - Mark a dedicated **zone of ~200-250 acres of land** for development of **one single campus housing all facilities**
 - Provide **land at subsidized prices and tax rebates** – like exemptions on stamp duty, registration, etc.
- The Government can **help in demand generation**:
 - Separate **immigration centre and facilitating desk at Vijayawada airport** for medical tourists visiting Amaravati
 - **Ensure direct flights to countries** that are the key source of medical tourists;
 - **Sign MOUs with international governments** – e.g., **Chennai has signed MoUs with Tanzania, Uganda, Kenya,**
- Incentivize hospitals to provide **high quality treatment** and **build international credibility** through **accreditation** like **Joint Commission International**
- Encourage development of new technologies for high-quality treatment and low cost alternatives by becoming a **hub for research and innovation**



1 Amaravati can emerge as a hub for tertiary care



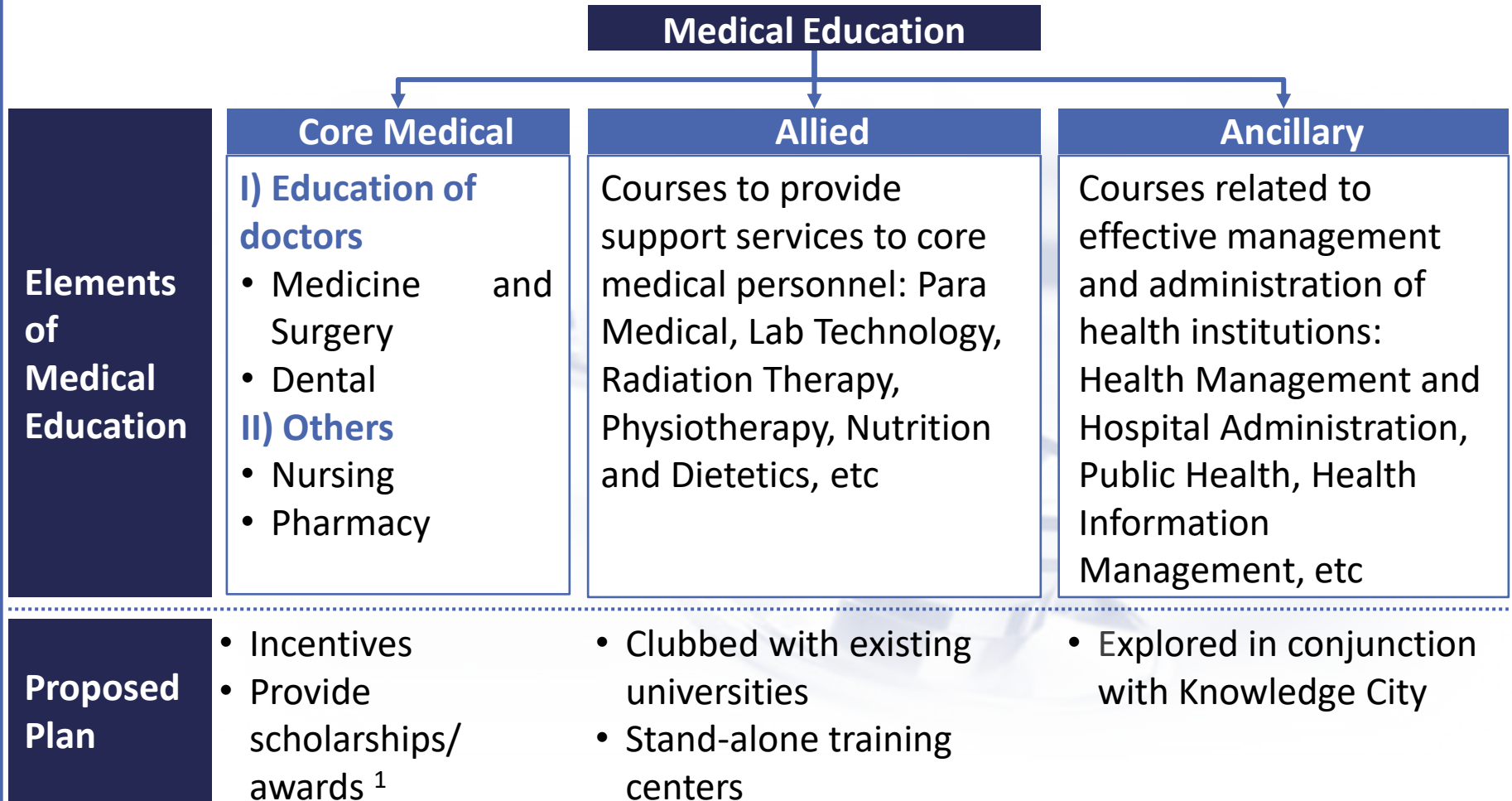
Way forward

- Develop an entire ecosystem for medical tourism and leverage the tourism industry infrastructure and setup:
 - Translators – **Tie-up with schemes like National Translation Mission** (run by Central Institute of Indian Languages) for to develop local talent in Amaravati
 - Travel agents, tourism agencies, and tourism spots will be developed as part of the tourism strategy – and will also create a pull

- Launch **an integrated marketing campaign** that promotes Amaravati as **‘Heathy, Happy City’**
 - Amaravati to be promoted as a complete ecosystem
 - The Government can **launch a medical tourism portal** (like Dubai):
 - **make an appointment** for comprehensive medical packages for a wide range of medical specialties and services
 - **events calendar** to announce all upcoming conference, meetings and workshops
 - **Extensive travel information** to ease the trip planning process including hotel, F&B, and cab booking details
 - **Facilitate travel process** by linking to travel agencies



Way forward – Establish a holistic medical education system





Wellness and Alternate medicines is an upcoming trend in India and globally



New Needs	Increased focus on preventive
	Higher prevalence of lifestyle diseases
	Preference for natural therapies
New Segment	Male and the geriatrics
New Players	International players are entering
	Health apps, online dieticians, and other unique players

- **Fitness services growing at 25-30%**
- **Supplements is a INR 1800 cr market growing at 25%**

- **Scientific slimming services are INR 3500 cr market growing at ~23%, given India is 3rd largest obese country**

- **Patanjali is a INR ~2500 crore company in India growing at a 2012 -2015 CAGR of 65%**

- **Male cosmetics market expected to reach INR 3000 crore by 2016**

- **Vibes is a German beauty-slimming chain present in 8-10 metros cities today**

- **Fitbit with a 20 million global user base was expanded to India 3 months ago**
- **Apps like myfitnesspal have a global user base of >75 mn**



Way forward – Develop a comprehensive offering



	Ayush therapy	Health & fitness	Beauty	Enhancement
Services	<ul style="list-style-type: none"> Ayurveda Homeopathy 	<ul style="list-style-type: none"> Fitness Spas 	<ul style="list-style-type: none"> Salon Skin treatments 	<ul style="list-style-type: none"> Hair transplant Slimming Cosmetic surgery
Personal products	<ul style="list-style-type: none"> Skin care Hair care Skin care 		<ul style="list-style-type: none"> Colour cosmetics Fragrance Slimming 	
Medicines	<ul style="list-style-type: none"> Ayush medicines 		<ul style="list-style-type: none"> Herbal and other supplements 	
Foods	<ul style="list-style-type: none"> Low fat dairy Fortified foods Organic 		<ul style="list-style-type: none"> Better for you Naturally healthy Food intolerance 	



3

Amaravati would offer an integrated wellness and alternate medicine offering



Potential partners



- Amaravati can **leverage its existing scenic beauty and invite well known trusted names** in Phase 1
- **Develop tourism and sports activities** such as water rafting, hiking – these have pulled wellness tourists to destinations such as Uttarakhand
- Develop **supporting companies** like Travel agents and infrastructure like Hotels, etc.
- Enter into **collaborations with other State governments as well as International governments** – to exchange knowledge, expertise and training in various areas

1 <https://www.franchiseindia.com/wellness/8-wellness-trends-to-watch-out-for.10234>

2 <https://www.franchiseindia.com/wellness/7-Wellness-trends-grabbing-the-spotlight-in-2017.9261>



Pervasive Sensing Technologies



On-Demand Computing/Info Access



Interactivity & User Interfaces



Hyper-connectivity



Miniaturization of devices

- Pervasive **miniaturized sensor networks for continuous monitoring** that helps clinicians **provide daily guidance**⁴
- Shift to an **information-centered care model** with **extensive information sharing and processing**, which is enabled by **cloud computing**
- **Interactive visualisation of patients'** health indicators, instead of the usual review of multiple disparate medical reports
- Hyperconnected communication is **enabling remote, real-time patient monitoring**
- **Medical devices** are being made **smaller, lighter, more portable, and more affordable for remote clinics** in rural settings



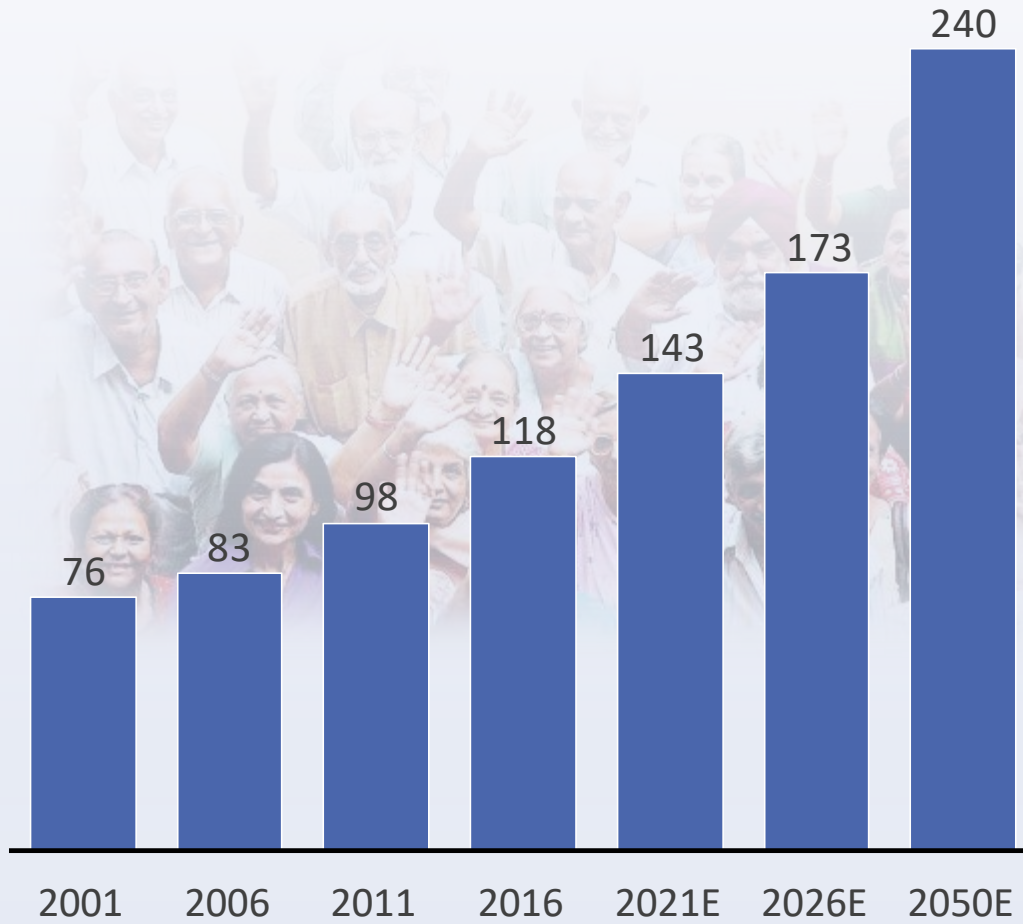
Way forward

- Capture the **right needs** for patients, payers and providers to accordingly **generate ideas**:
 - **Organize conferences, workshops and meetups to voice different problems and unmet needs** in the healthcare ecosystem to inspire development of the right product
 - Introduce an **annual hack-a-thon**, with awards including mentorship, funding etc.
- **Ensure access to capital**:
 - The Government can **Co-Invest in startups with leading venture capitalists**
 - Alternatively, the government fund prize money of **competitions**, organized in partnership with leading educational institutions, with specific objectives
- **Facilitating a business**
 - Establish a **facility to house startups**.
- **Access to Market**
 - Since the entire healthcare environment will be situated in the same campus, healthcare startups will get real time access to market



Projected Growth in number of senior citizens (above 60) in India

(millions)



Key trends

- 3/5 Indian households, i.e., about **63% are nuclear families**
- Currently there ~35 senior living projects in the country, accommodating 0.0001% of India's senior citizens as compared to 10% in the US and approximately 4% in Australia
- **Supply for these homes is ~10,000; against expected requirement of ~3,12,000**
- **South India is the preferred destination**



5

Amaravati can leverage its healthcare ecosystem and provide best-in-class services in its senior homes



Opportunity for Amaravati

- Healthcare is a paramount need for senior homes- Amaravati can leverage the healthcare ecosystem in the city to become a hub for Senior Homes in India

Way forward

- Attract Developers: Ease of land acquisition:** allocating land specifically for this purpose, exemptions on stamp duty, etc.



*~800 units across
4 projects in Pune*



Riva, Bangalore



Dehradun



Way forward

- **Introduce a single-window mechanism for the elderly:** to enable them to obtain all facilities, including life insurance, health insurance and information about senior living apartments under one roof
- **Develop dedicated human resource.** Amaravati could leverage vocational training programs and existing institutes/set up institutes for this
- **Amaravati's positioning to compete is being one of the healthiest and livable cities:**
 - **Healthcare Accessibility:**
 - **Social Ecosystem:** Temples, malls, entertainment and recreation facilities, clubs and societies
 - **Connectivity:** Well-connected to city nodes, activity hubs and workplaces
 - **Aesthetic Ecosystem:** Presence of well-maintained public parks, roads, water bodies, visual image of built form, control of density, general cleanliness etc. found within locations in each corridor



- Facilitate **MoUs/Agreements** with countries such as Bangladesh, Afghanistan, African nations to ensure their government sponsored treatments happen in Amaravati
- **Reimburse cost of accreditation** for hospitals for international accreditations like **Joint Commission International**, and National accreditations like National Accreditation Board for Hospitals (NABH)
- Develop a **cohesive marketing campaign** to promote Amaravati as a **preferred destination for medical and wellness tourism** and **launch a medical tourism portal** for increasing convenience of travel
- Send a proposal to Gol to set-up a separate **immigration centers and facilitating desks at Vijayawada airport** for medical tourists visiting Amaravati
- Set-up a **dedicated research fund** to promote research in areas such as genome, cancer, diabetes to fund the research and develop infrastructure (labs) and set-up a **co-investment fund** to fund healthcare start-ups
- Invite top developers to build **senior homes in a dedicated land parcel of 20- 30 acres** identified by APCRDA

