# Remote PHC & Diagnostics Center

**Expansion model for
Corporate hospitals and Healthcare Providers**

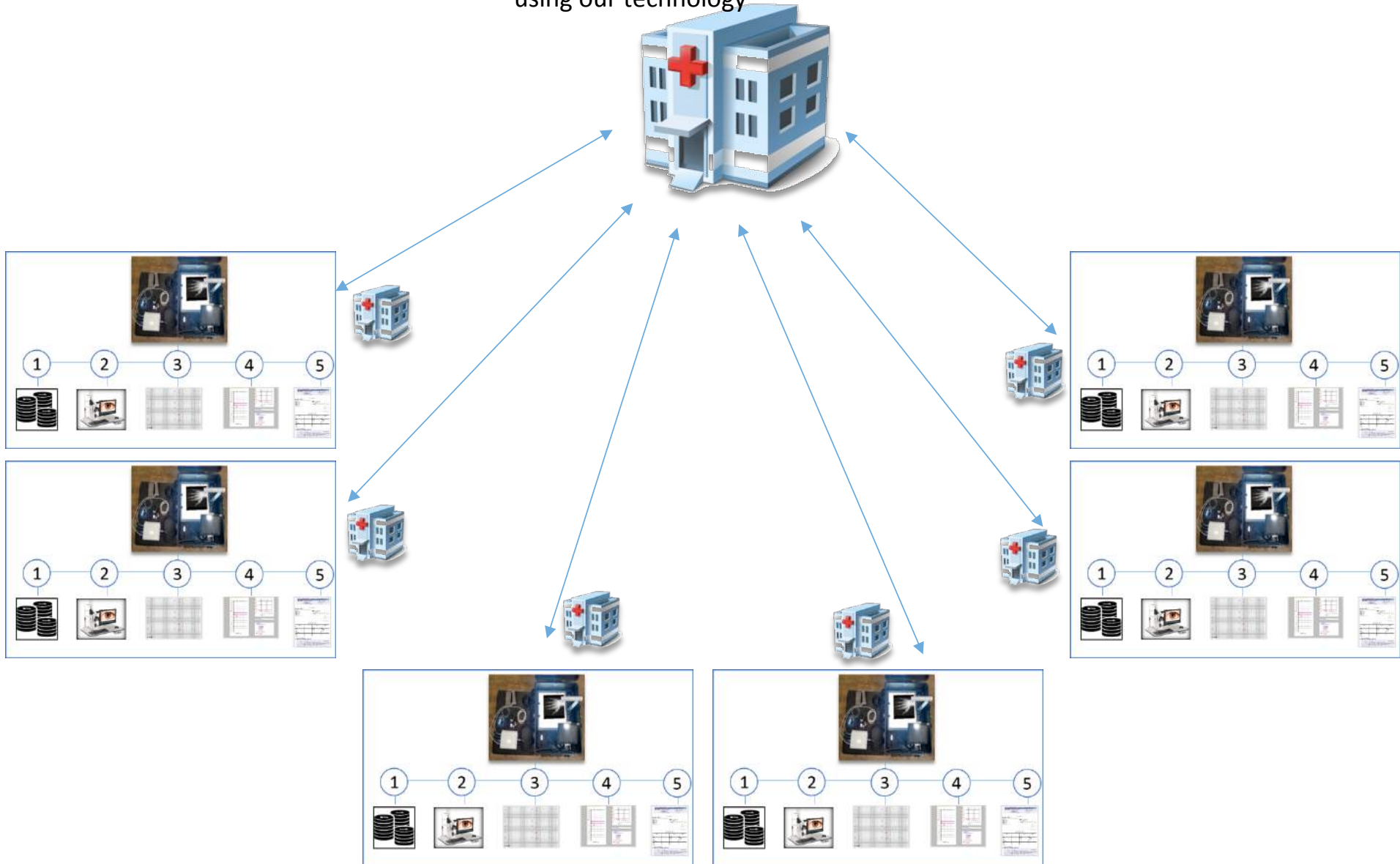**Powered by**

## Live OPD

**WatchWitz Technologies Pvt. Ltd**
27, Central Bazar Road, Navprabhat Chambers, Ramdaspeth, Nagpur, Maharashtra, India, 440010

# Expansion Model

Your Hospital with Multiple Remote Primary HealthCare & Diagnostics Center using our technology
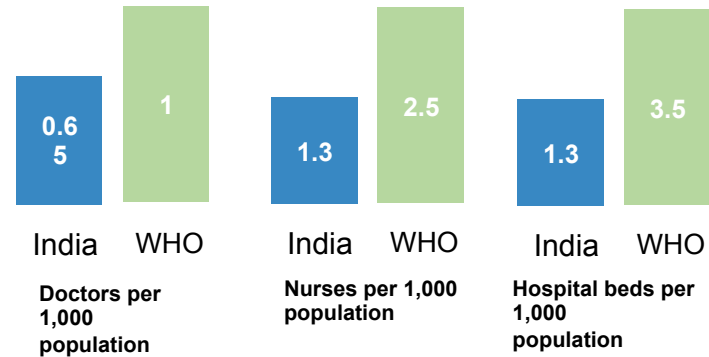
# Problem Statements : Healthcare

**1**

**196312**

**Hospitals in India**

| India | WHO |
|-------|-----|
| 0.65 | 1 |

Doctors per 1,000 population

| India | WHO |
|-------|-----|
| 1.3 | 2.5 |

Nurses per 1,000 population

| India | WHO |
|-------|-----|
| 1.3 | 3.5 |

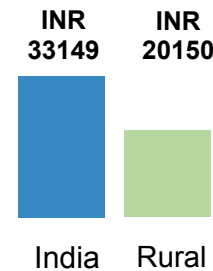Hospital beds per 1,000 population

**India does not meet minimum WHO recommendations for healthcare workforce and infrastructure**

**2** **Even though the majority of India's population lives in rural areas, they have access to only 33% of Indian doctors.**
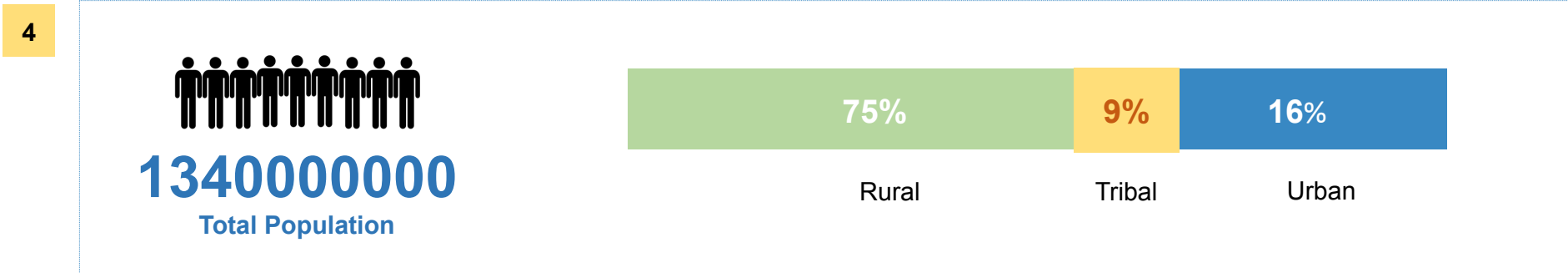
**3**

## Average Cost of Hospitalization

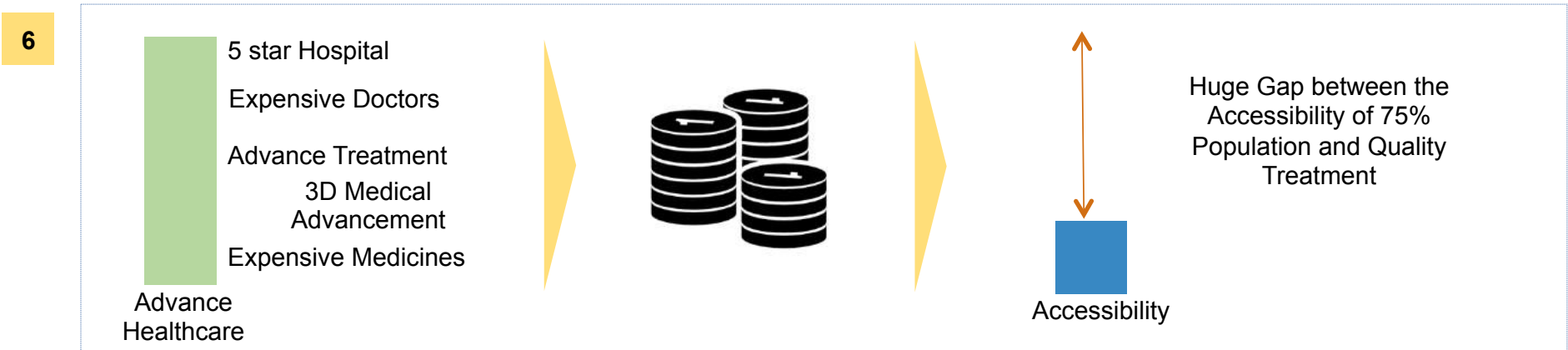| INR 33149 | INR 20150 |
|-----------|-----------|
| India | Rural |

- **Affordability of larger portion of low income Population against Expensive Medical Treatment**

- **Treatment cost at private hospitals 4 times than government ones**

# Potential Market for Healthcare Service Providers

**4**

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## 1340000000
**Total Population**

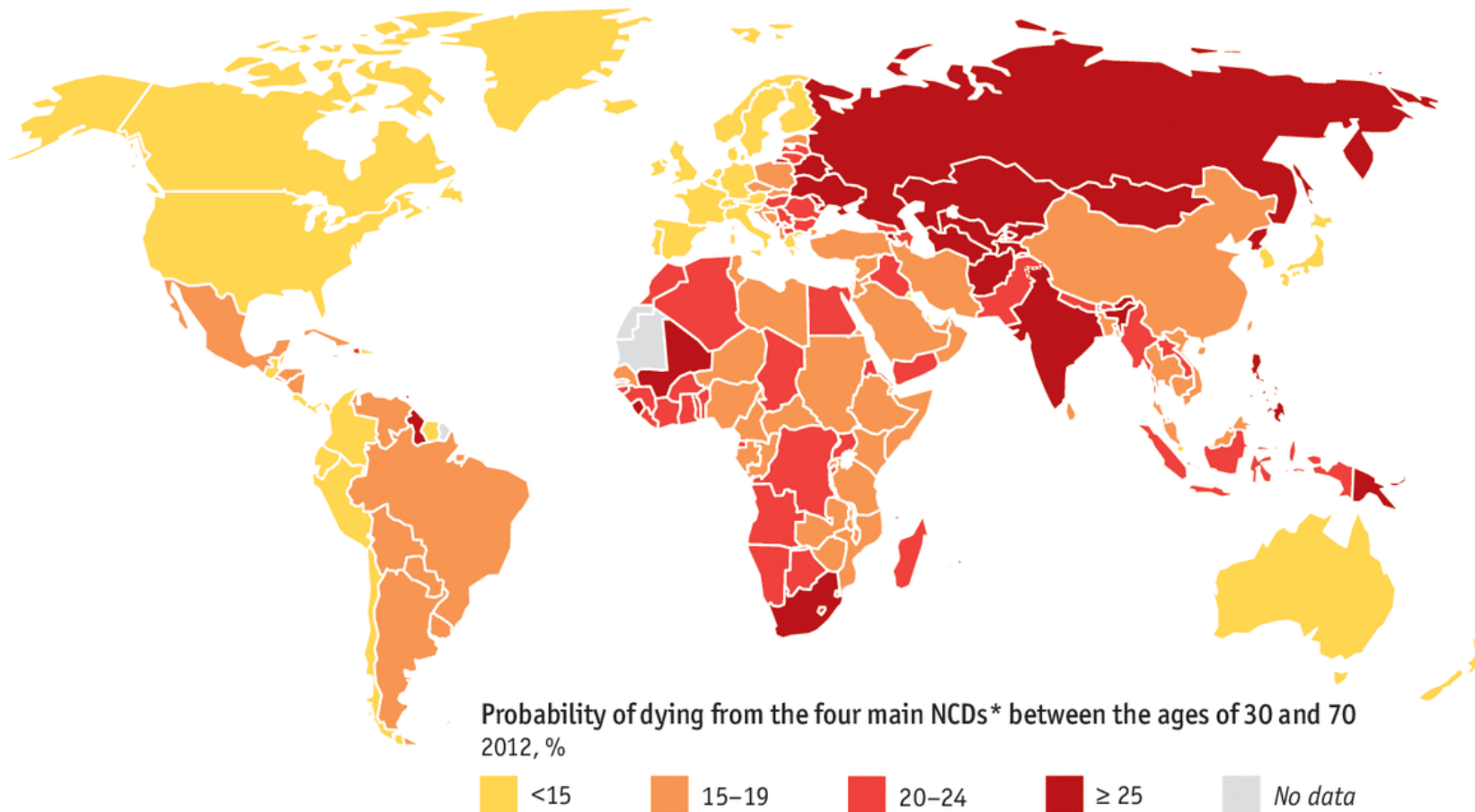| 75% | 9% | 16% |
|---|---|---|
| Rural | Tribal | Urban |

**5**

India's Tribal + Rural areas are still grappling with lack of basic healthcare, telecommunication infrastructure. Only 2% Doctors are ready to travel to Tribal / Naxalite infested / Deep Forest Areas due to lack of healthcare Infrastructure, Connectivity, difficult Travel to deep areas and other safety issues.

**6**

5 star Hospital

Expensive Doctors

Advance Treatment

3D Medical Advancement

Expensive Medicines

Advance Healthcare

Accessibility

Huge Gap between the Accessibility of 75% Population and Quality Treatment

**This gap between the healthcare service provider and population in remote locations carries huge potential in between demand and supply of diagnostics and health facilities.**

# Disease Burden Worldwide – Non Communicable Diseases



**Probability of dying prematurely from non-communicable diseases**

Probability of dying from the four main NCDs* between the ages of 30 and 70
2012, %

<15    15–19    20–24    ≥ 25    No data

Source: WHO    *Non-communicable diseases: cardiovascular diseases, cancer, chronic respiratory diseases and diabetes

Economist.com

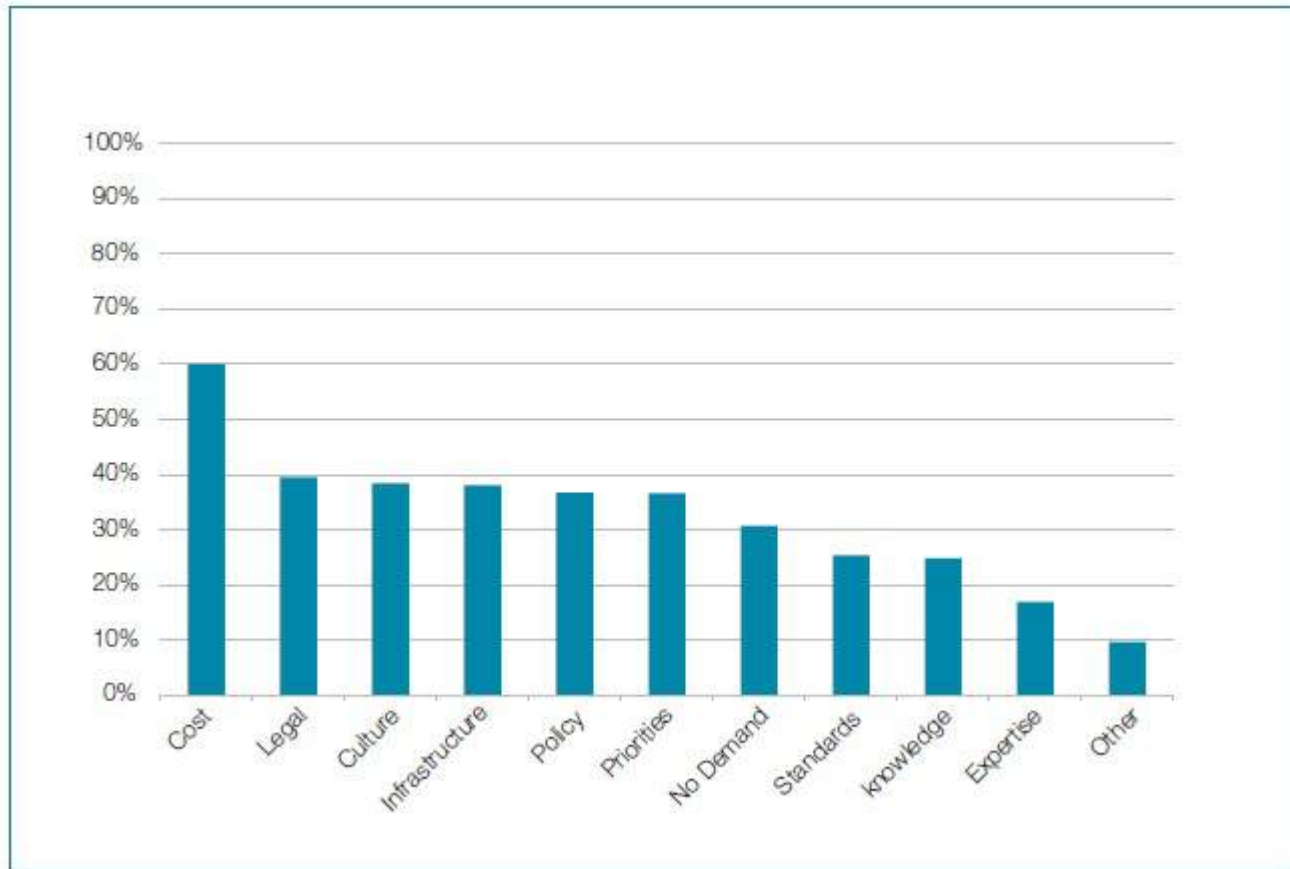# Basic Healthcare Needs of Developing Countries



Basic healthcare facilities and diagnostics are not available in most of the developing countries including Africa and India.

Basic diagnostic facilities such as heart, lung, chest, mouth examination etc. are still not available with them in remote places.

Most of the health points or rural health clinics have non-availability of Doctors. Specialty medical treatment is far away from them.

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# Barriers in Telemedicine



As per reports provided by WHO, only implementing telemedicine in remote areas still have some practical barriers which includes cost, legal, culture, infrastructure, policy and priorities. So we need something more advance than just basic telemedicine to solve these issues.

# LIVE OPD – The Technology

Live OPD system is mobile in nature, works on low speed internet and allows complete diagnostics and live OPD from anywhere to the main location. This will maximize the reach of healthcare and medical services to the remotest places in Indian Borders.

It is also having offline mode facility to cover remotest area where still connectivity is not available. Entire diagnostics can be done without connectivity and expert medical consultation can be then provided to maximize reach of medical and healthcare facilities.

**NOT JUST TELEMEDICINE COMPLETE LIVE OPD**

Live OPD is most advance system which completes entire cycle of primary basic and advance diagnostics along with implementation of healthcare process including following:

- Patient Electronic Record
- Basic Health Diagnostics
- Advance Specialty Diagnostics
- Case History
- Medical Consultation (online/offline)
- Medical Reports and E-Prescription
- Guidance for next level of treatment



**Advantages of LIVE OPD**
- ✓ Conduct Live OPD from anywhere to anywhere
- ✓ Mobility - Unit can travel from one place to another
- ✓ Super-specialty can be made available to the rural areas.
- ✓ Remote-Diagnosis for Patient monitoring and diagnosis
- ✓ Save Time, Energy & Resources
- ✓ Simple, User Friendly & Portable
- ✓ Compliant to telemedicine standards
- ✓ Live Consultation with 2-way audio-video, vital statistics, data and live video feed
- ✓ Advancement with Connectivity and Power Backup options

## Advance Diagnostics

**Live OPD connectivity is available with most of the Medical Devices few of them are below:**
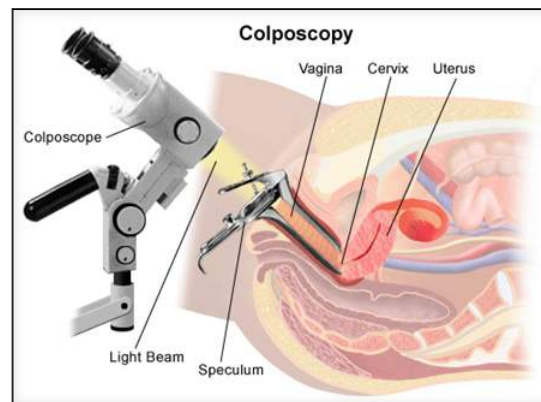
- Retinal Camera
- Spirometer
- Dermascope
- Ophthalmoscope
- Naso-Pharyngoscope
- Sinuscope
- Coloscope
- ENT Otoscope

- Colposcope
- Laparoscope
- Dental Examination
- Various Examination Cameras
- Holter monitor
  *& many more..*

Ophthalmology-In India ophthalmic diagnostics and care is not available in rural. With the Ophthalmoscope we can detect the ophthalmic disorders.

ENT-common amongst children & old age, Ear problem, Nose problem, Sinus Problems can be diagnosed by Otoscope
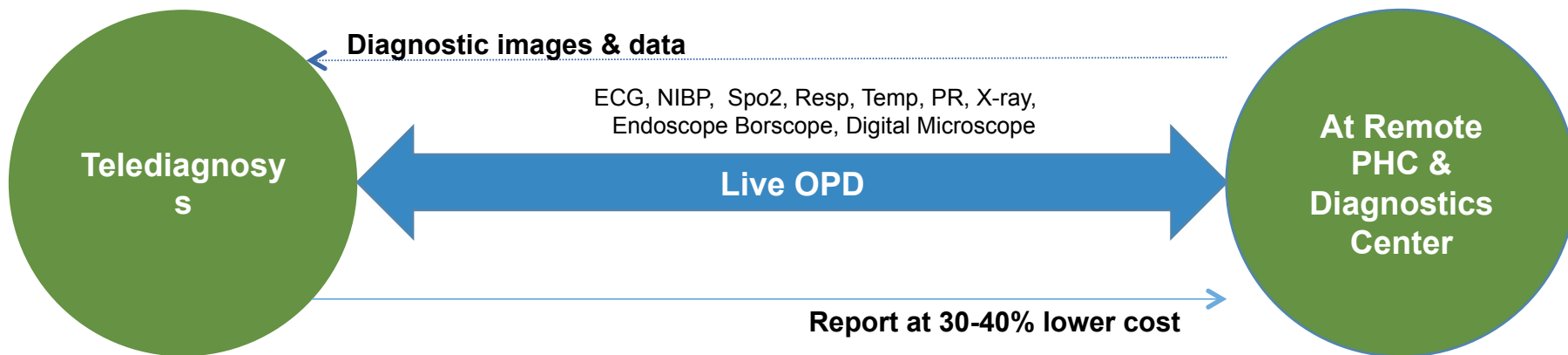
Uterine and ovarian cancer are common cancers affecting the female reproductive system.

Colposcopy is a procedure to closely examine your cervix, vagina and vulva for signs of disease.

** Pl Note: These are connectivity options, which means that OUR LIVE OPD unit is capable of transmitting all the above data images of different equipment with you already have them or would buy them.
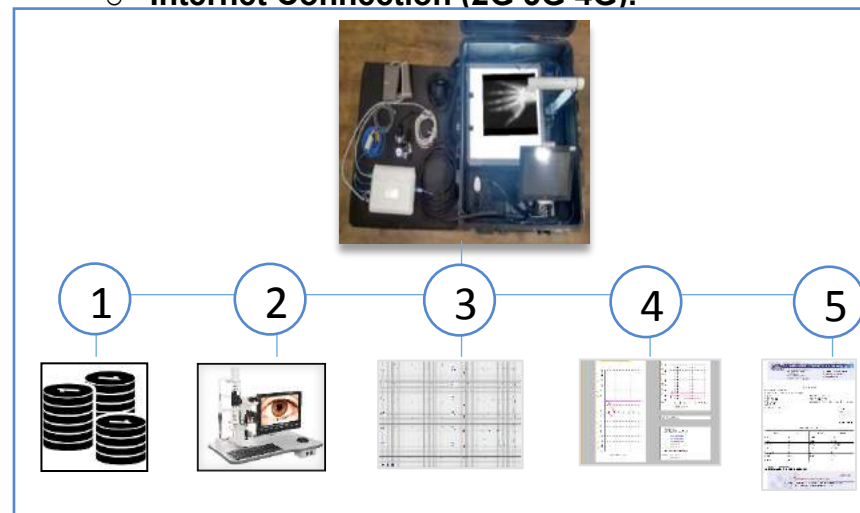
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# Work Model

Diagnostic images & data

**Telediagnosys**

ECG, NIBP, Spo2, Resp, Temp, PR, X-ray, Endoscope Borscope, Digital Microscope

**Live OPD**

**At Remote PHC & Diagnostics Center**

**Report at 30-40% lower cost**

**Infrastructure**

o **Team of Doctors & Specialists**
o **Mobile , Laptop, Computer  with Internet Connection (3G / 4G / Broadband)**
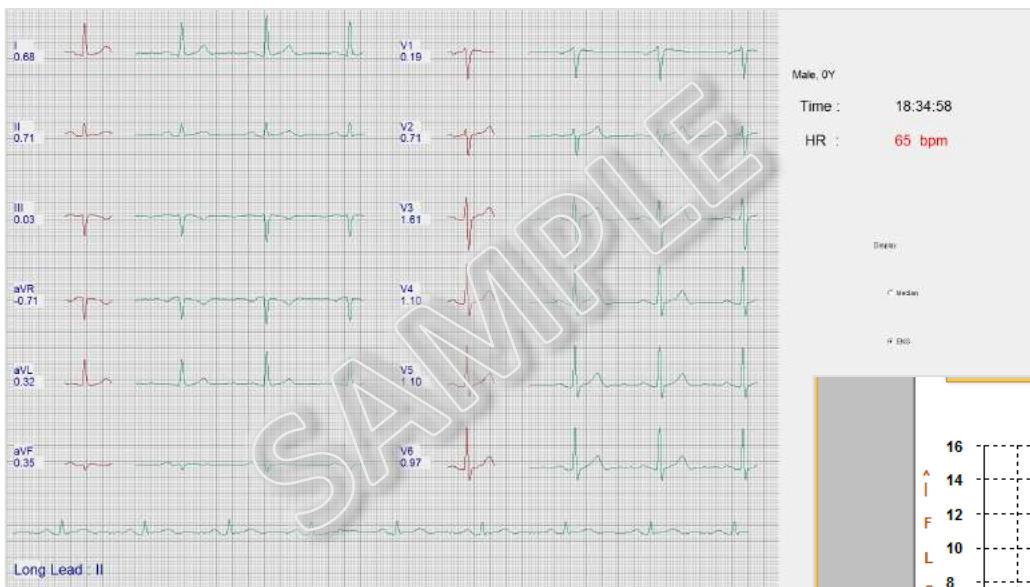o **Hospitals / Clinics / Other infrastructure**

**Infrastructure**

o **Medical Diagnostics like ECG, Spo2, Spirometry and clinical image capture capability for X-Ray, Skin, ENT**
o **Mobile Live OPD unit  with multiple nodes.**
o **Internet Connection (2G 3G 4G).**
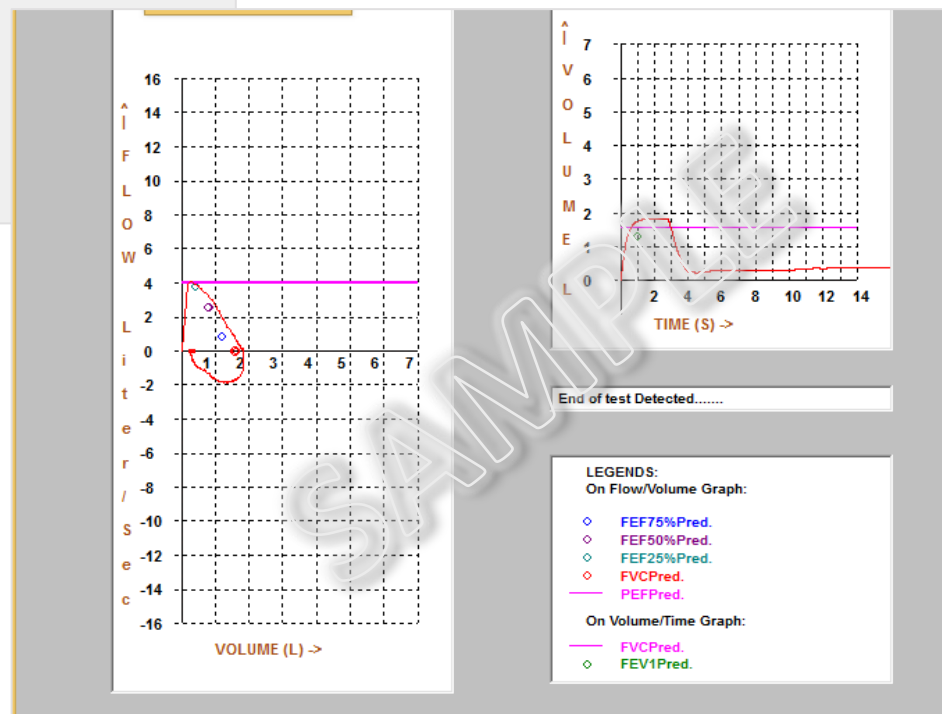
1  2  3  4  5

# Deliverables : Diagnostics Reports



Remote PHC & Diagnostics Center can deliver and diagnostics reports instantly, which is helpful in emergencies and expert medical consultation.

Proper diagnostics can guide patient for correct opinion and also save his/her travel time when reports are normal.

Long term implications are increase in awareness and goodwill of facility provider.

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# Deliverables : E-Prescription

Remote PHC & Diagnostic centres powered by LIVE OPD technology which has facility of electronic prescription. Expert medical consultants can online check diagnostics data live or after some time right from their desk. This also gives them freedom to work at their convenient and patient gets similar quality medical facilities from service provider or hospital.





### प्रभाकर
हृदयरोग प्रतिबंधन केन्द्र

निकालस टॉवर्स, २ रा माळा, तरुण भारत प्रेस्च्या बाजुला, सेन्ट्रल बाजार रोड, रामदास पेठ, नागपुर-१०
फो. : (०७१२) ६६१५०६५, ६६१८००५

डॉ. सतीश सु. पोशट्टीवार
एम.डी. (मेडिसिन), एफ.ई.ए.ती.
हृदयरोग तज्ञ

**Patient vitals**

Patient's ID : 200000166
Patient Name : Kamalakar Wamanrao Garge
Age : 81
Gender : Male
City : nagpur;
Weight : 47
Addhar No : 585073619145

Satish Poshattiwar

Observation on : 12 Lead ECG
ECG: ABNORMAL. Please consult doctor.

Report : BP Report

SYS , DIA , PR
148,86,97

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Report : SPO2 Report

SPO2: 96 / PR: 99

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Temperature : 98.6 °F

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वेळ : सोमवार तो शुक्रवार सकाळी १०.०० ते सायंकाळी ५.०० ● शनिवार फक्त अपॉइंटमेंट द्वारा ● रविवार बंद

हृदयरोग प्रतिबंधन केंद्र ● स्ट्रेस मॅनेजमेंट व योगा केंद्र ● डायबेटीज व हायपरटेंशन केंद्र ● न्युट्रीशन केंद्र ● कोलेस्ट्राल केंद्र
वेट मॅनेजमेंट केंद्र ● डॉपलर इको ● कॉम्प्युटराइज्ड एक्सरसाईज टेस्ट ● ई.सी.जी. ● एक्सटर्नल काऊन्टर पल्सेशन
किलेशन थेरपी ● एन्जीओग्राफी ● एन्जीओप्लास्टी ● बायपास सर्जरी

बाहेर गावातील रुग्णांनी फोनवर पूर्वसंपर्क साधूनच तपासणीसाठी यावे.

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### ADVANCED CHEST CARE CENTRE & LUNG DIAGNOSTICS

**Dr. Vinit P. Niranjane**
M.B.B.S. M.D. (Pulmonary Medicine)
M.A.C.C.P. (USA)
Reg. No. 2000/05/2010
Member: European Respiratory Society
American College of Chest Physician
**Consultant Pulmonologist**
दमा, एलर्जी, टी.बी. एन छाती रोग तज्ञ

EX. RESPIRATORY CRITICAL CARE
REGISTRAR, K.E.M. HOSPITAL, MUMBAI
CONSULTANT PULMONOLOGIST AT :
+ WOCKHARDT SUPERSPECIALITY HOSPITAL
+ AVANTI INSTITUTE OF CARDIOLOGY
+ SILYRE MEMORIAL HOSPITAL
+ KRIMS HOSPITAL

**Patient vitals**

Patient's ID : 200000166
Patient Name : Kamalakar Wamanrao Garge
Age : 81
Gender : Male
City : nagpur;
Weight : 47
Addhar No : 585073619145

Test Result : Abnormal
Advice Test : Cxr chest
Observation : Needs detailed respiratory evaluation

Dr.Vinit P. Niranjane

Report : Spirometry Test

| Name | Pred | Actual | %Pred |
|---|---|---|---|
| FVC | 2.178 | 0.363 | 17.47 |
| FEV1 | 1.51 | 0.311 | 20.33 |
| FEV1 % | 0.692 | 85.714 | 12386.42 |
| PEF | 0 | 5.045 | Infinity |
| FEF 25-75 | 1.81 | 0 | 0 |
| FEF25 | 4.603 | 1.81 | 39.32 |
| FEF75 | 0.521 | 0 | 0 |

Observation on : Spirometry
Spirometry: ABNORMAL. Please consult doctor.

Sunday Closed

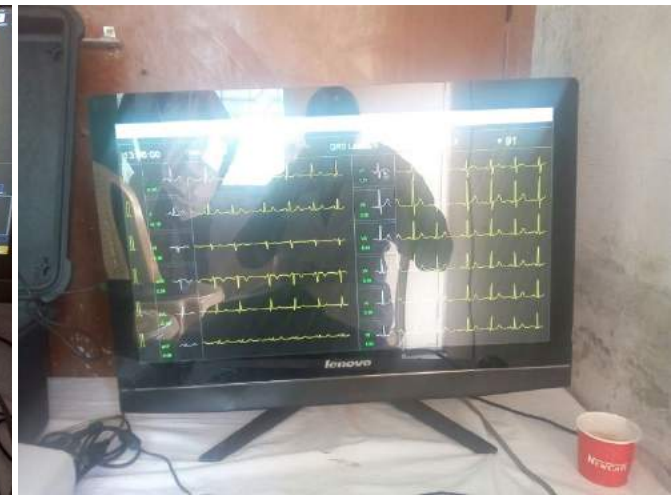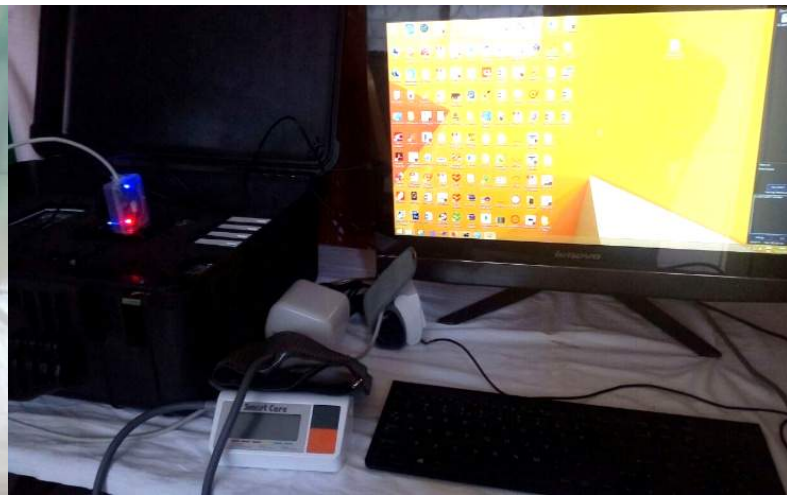*" Because your lungs deserve the best "*

MIDAS HEIGHTS', GROUND FLOOR, CENTRAL BAZAAR ROAD, RAMDASPETH, NAGPUR
☏ : 9579227431 Mob. : 777 58 77 039 ● Time : 10.00 a.m. to 7.00 p.m.
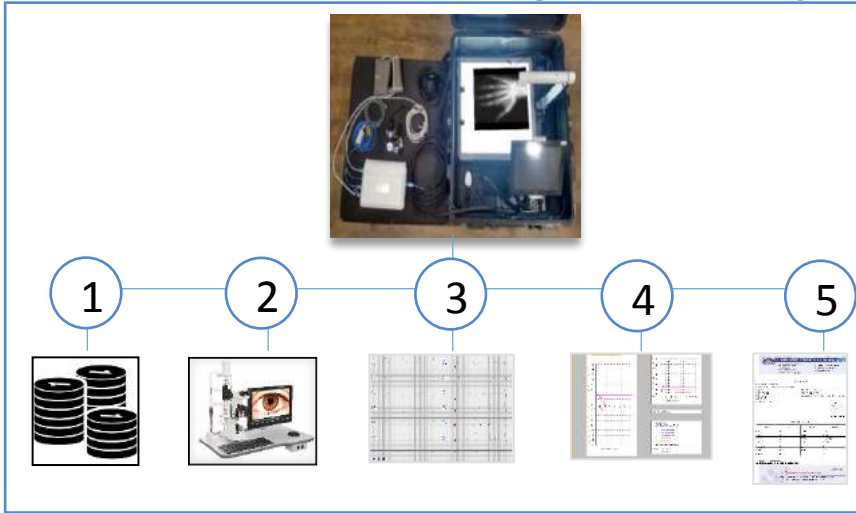
# Remote Diagnostics in Action





Remote PHC & Diagnostic centre working in multiple nodes. More number of patients can be handled using this mode where hospitals can expand their facilities and maximize utilization of resources
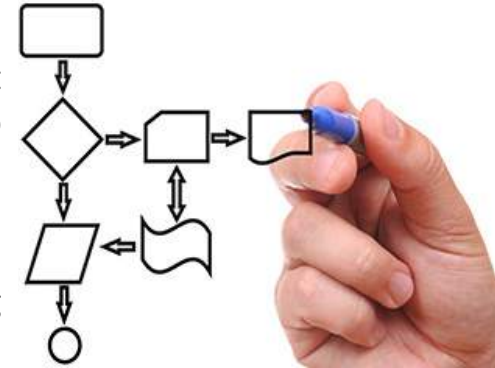
# Customization & integration as your requirements



Remote PHC & Diagnostic centres are implemented as customized solution where entire process right from Patient Registration to diagnostics can be defined by you.

You can have multiple terminals and nodes for patient check-up using various examination methods and medical devices.

You can also add additional facilities such as blood test, basic pharmacy and ambulance or transportation service to Remote PHC & Diagnostic centres.

These optional add-ons will help you create state of the art infrastructure and facilities for your hospital.

Rural and tribal residents will get health benefits at their doorsteps.

# Customization & integration as your requirements

Remote PHC & Diagnostic centres can be linked with your existing E.H.R.

We provide API to access existing patient data as a link to your current E.H.R.

TM

**For any queries or details please feel free to contact us..**

**liveopd@watchwitz.com**
**excelmeditech@gmail.com**

Thank you

**WatchWitz Technologies Pvt. Ltd**
Regd. Address: 27, Central Bazar Road,  Navprabhat Chambers, Ramdaspeth, Nagpur,  Maharashtra, India – 440010
Correspondence Address: VISPL, Plot No. P26, MIA House, Shop No. 2,3 & 4,  MIDC, Hingna, Nagpur, Maharashtra, India – 440028