eHealth Center: Healthcare reaches where never before

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WW Presales & enablement

e-Health Centers
HPE in Telemedicine

Hewlett Packard
Enterprise

e-Health Center

Cloud Enabled Primary Healthcare Solution

Health scenario in India

Infant mortality rate and maternal mortality rate

Pregnancy related deaths	Poor access to health care	Children immunization
Almost half of pregnant women do not receive any prenatal check-up		

Health scenario in India

Pregnancy related deaths	Poor access to health care	Children unimmunization
1000 women die everyday due to pregnancy related deaths		

Health scenario in India

Pregnancy related deaths	Poor access to health care	Children unimmunization

Slow progress has been associated with disappointing advances in access to health care

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Health scenario in India

Pregnancy related deaths	Poor access to health care	Children unimmunization
More than 30 million children are unimmunized • because vaccines are unavailable • health services are inaccessible • because families are uninformed		

Start with the problem
Access to healthcare in India

- Villages with no primary health centers
- Regions with no hospitals
- Hospitals, but no equipment
- Equipment, but no doctors
- Doctors, but no support
- No electricity
- No computers
- Connectivity issues

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What is causing the problem?

Health infrastructure

- Long way to go
- Limited reach
- Lack of doctors
- Missing drugs and equipment
- Long waiting period
- No structured referrals
- New constructions take too long

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E-health center
One solution

1. Shipping container
2. Medical equipment
3. Teleconsulting
4. HP health cloud
5. Dashboard

Cloud Enabled Primary Healthcare Solution

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HP e-health center

1. **Shipping container**
2. Medical equipment
3. Telemedicine
4. HP health cloud
5. Dashboard

- Standardized shipping container
- Low cost investment
- Easy to transport
- Rapidly to deploy

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HP E-health center

1. Shipping container

2. **Medical equipment**

3. Telemedicine

4. HP health cloud

5. Dashboard

- Laboratory

- ECG

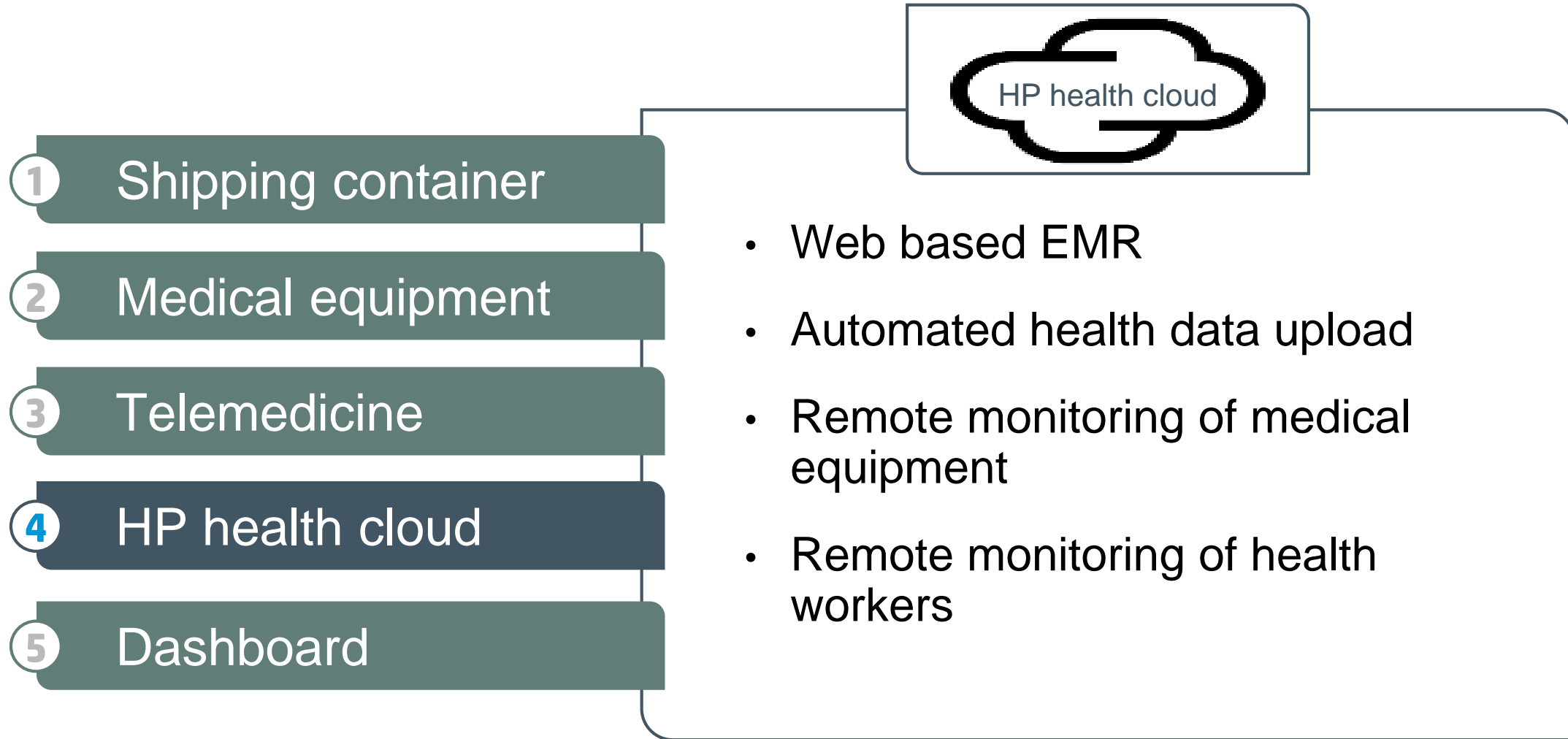- Spirometer

- Digital Thermometer

- Glucometer

- Stethoscope

HP E-health center

1. Shipping container

2. Medical equipment
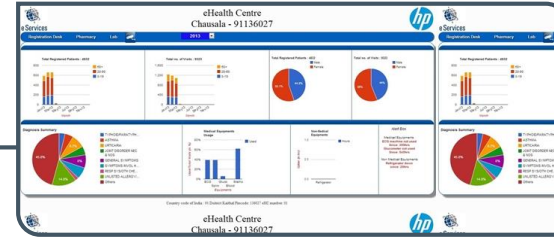
3. Teleconsulting

4. HP health cloud

5. Dashboard

- Doctor consultation at tertiary care hospital

- Super-specialist consultation at tertiary care hospital

- Remote health worker training

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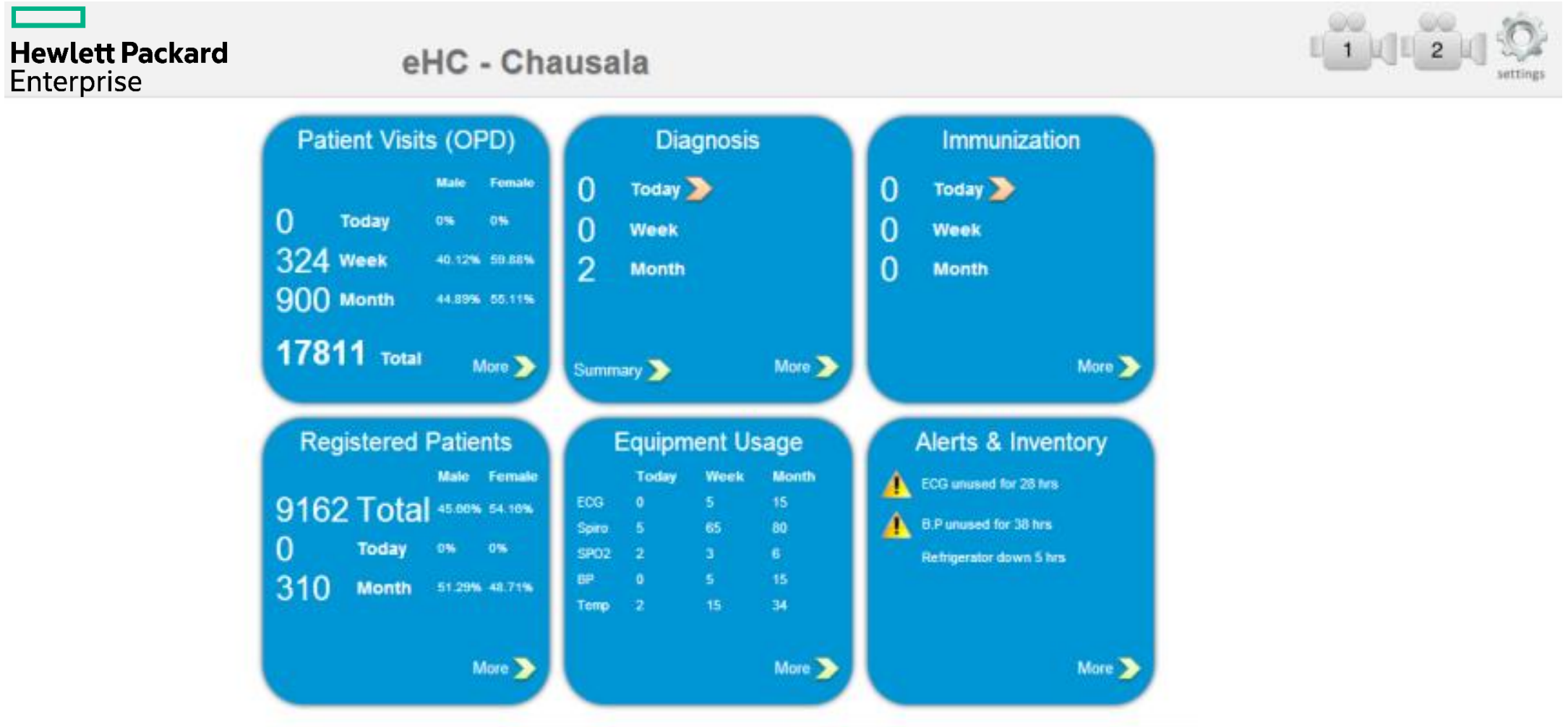Enterprise

HP E-health center

HP health cloud

1. Shipping container
2. Medical equipment
3. Telemedicine
4. **HP health cloud**
5. Dashboard

- Web based EMR

- Automated health data upload

- Remote monitoring of medical equipment

- Remote monitoring of health workers

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HP E-health center

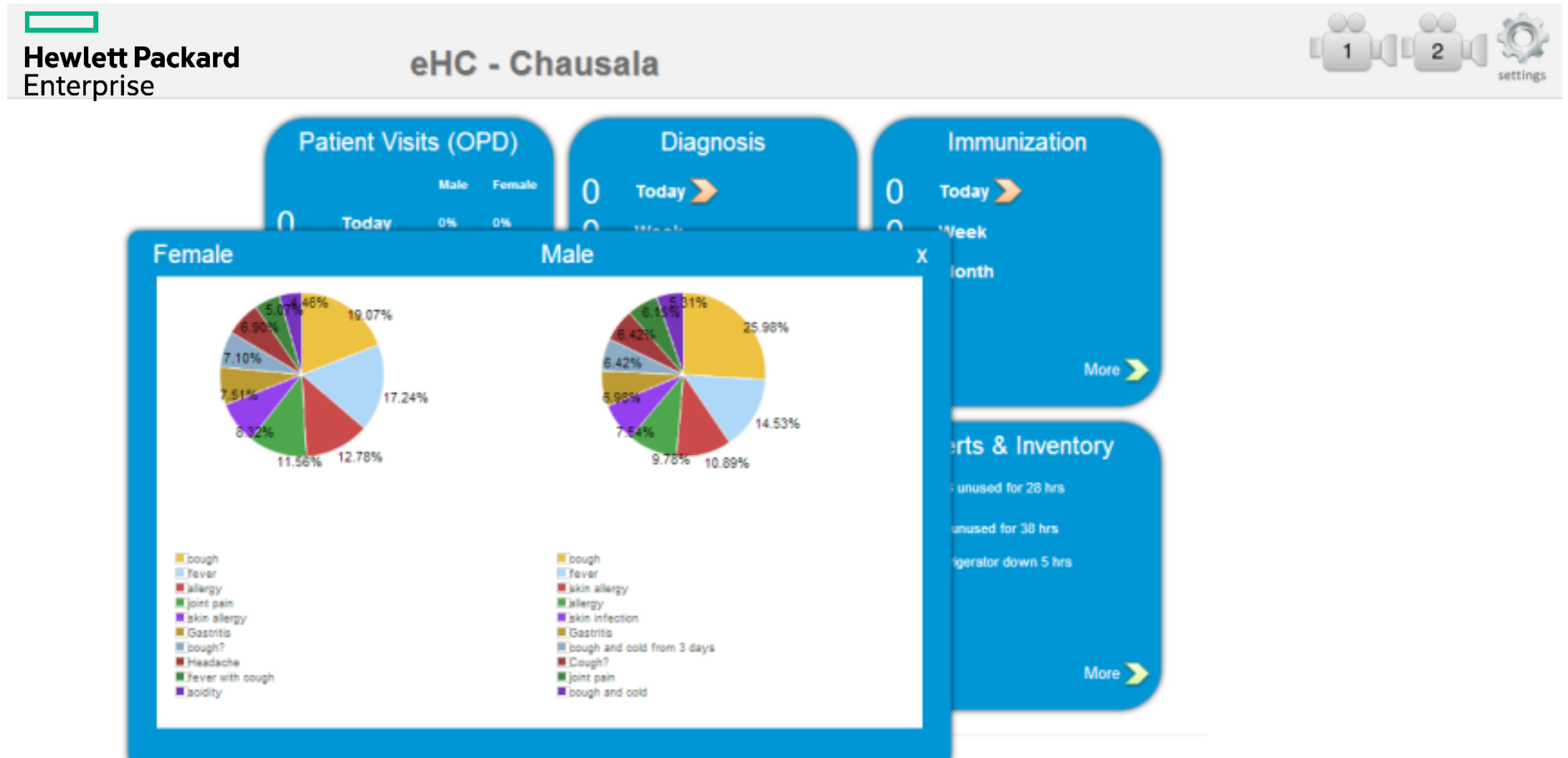| #	
1	Shipping container
2	Medical equipment
3	Telemedicine
4	HP health cloud
5	Dashboard

- Analytics for healthcare policy formulation

- Early epidemic detection

- Preventive healthcare and intervention

- Disease surveillance in real time

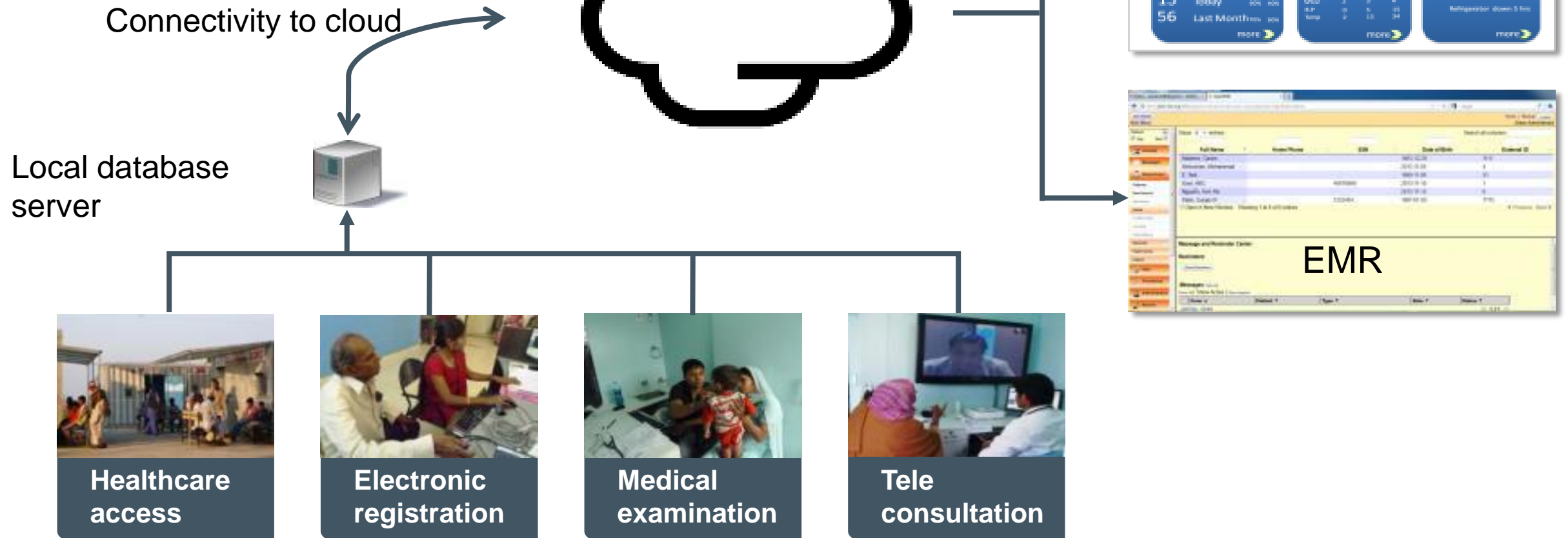# Central dashboard and data analytics

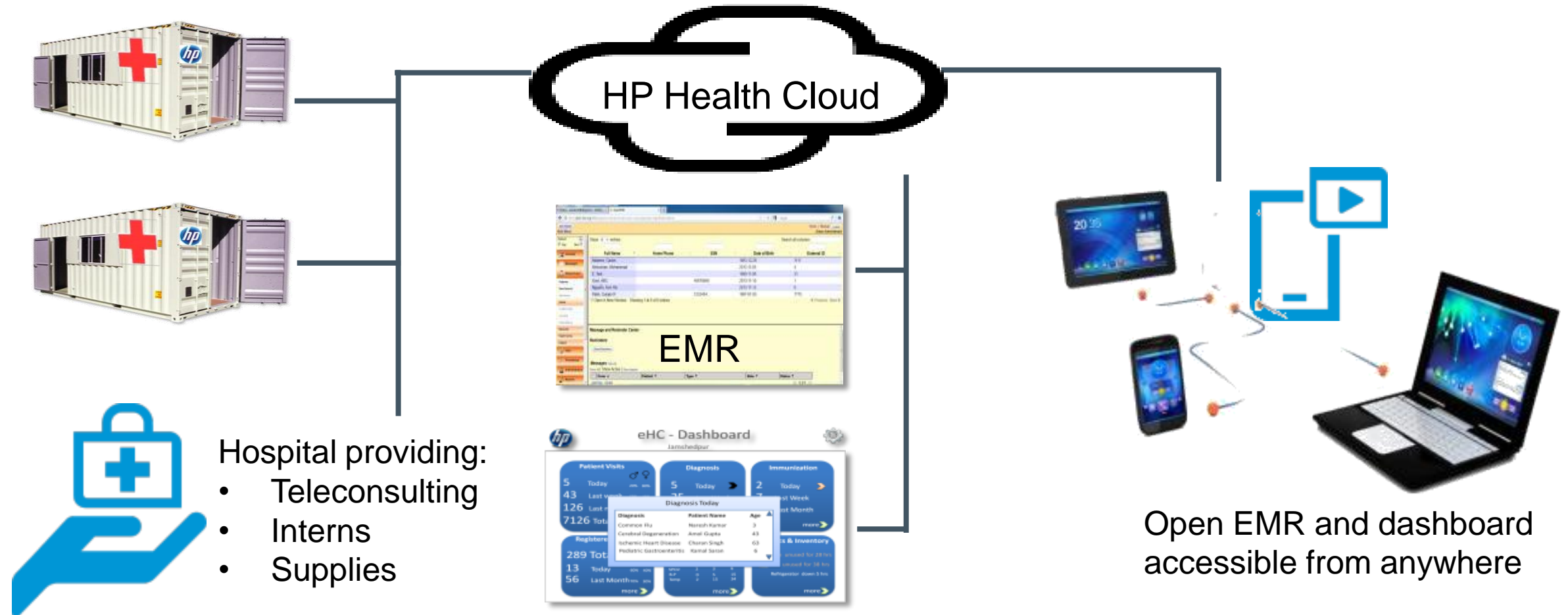# Central dashboard and data analytics

E-Health Center technical diagram

HP Health Cloud

Connectivity to cloud

Local database server

EMR

Healthcare access

Electronic registration

Medical examination

Tele consultation

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e-Health Center connectivity

HP Health Cloud

EMR

Hospital providing:
- Teleconsulting
- Interns
- Supplies

Open EMR and dashboard accessible from anywhere

eHC engineering…

Enterprise

…and impact so far

- **Several eHCs in India**
  - Chausala
  - Lakhimpur
  - Aliabad
  - Paryadanga
  - Jamshedpur
  - Gatsila
  - …
- **More than 32,000 patient visits since August 2012 in eHCs**
- **Co funded by Government of India in collaboration with leading NGO's and hosptitals (Jindals Trust, NH, Share India, Tata)**

"We don't need to go to Hyderabad for everything, we have a high quality specialized service here near our doorstep"

Mr. Mehbub, 52 years old

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"I am happy now as I am improving after 3 years….. Wish I was able to get treated like this before"

Mr. Naresh, 23 years old

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See e-Health Centers on YouTube

http://www.youtube.com/watch?v=4BCZq8hBxmE&list=PLIhQGpaGkhAAqyb9q3DxwY6GMUIPdb4f-

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eHealth Center in Youtube

Watch the video

http://www.youtube.com/watch?v=4BCZq8hBxmE&list=PLIhQGpaGkhAAqyb9q3DxwY6GMUIPdb4f-

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Thank you

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