Sathi

Team Name : Chitragupta

Team Member : Naresh Kumar
Parth Jansari
Suraj Shah

Health care in Rajasthan: A lack between need and feed

What is Problem ?

- The present health scenario is a toxic combination of uneven quality, high cost, frequent errors and limited access for marginalized population.

- It is observed that 70% of population has no access to specialist care as 80% of specialists live in urban areas

- The quality of the public service is abysmal and unregulated.

What is Problem ?

- Location of PHCs and CHCs a far of distance from rural areas procures a heavy daily loss of wages.

- This leads the rural people accessing facilities of private health care practitioners, usually unregistered at affordable charges in their villages

Problem Statement

- To reachout maximum rural areas and provide affordable treatment and diagnostic cost.

- To make health policy for the end-user according to the requirement and need

- Eliminate the untrained , unregistered and unethical medical practitioners(Bhopas).

Some Facts

- 77% of deaths in India accounts of diseases and poor health

- Highest number of deaths during chid birth and death of children below age of 5

- Latest "Gross Burden of Disease" Report says that India ranked 154th among 195 countries

Some Facts

- According to CAG, state government could not provide all the basic infrastructural facilities in 75.77% of rural health centre.

- 62.3% Health centres were constructed at inaccessible and uninhabited locations.

- Only 13% of rural population have access to primary health centers

Saathi – A feed for the need

- **A low cost IoMT device to simplify capable diagnostic procedures.**
  - ECG – ElectroCardiogram Sensor
  - EMG – ElectroMyography Sensor
  - Body Temperature
  - Glucose Meter
  - Blood Pressure
  - GSR – Galvanic Skin Response Sensor
  - Pulse and Oxygen in Blood Sensor

- Keep track of health records of individual and make them easily accessible by PHCs
- Collect data, organize it and generate various graphs , maps and gives a input to the PHCs to create different health benefits for villages

- An early medical diagnostic system generates alerts and notification about the possible health diseases by using various algorithms.

- A platform connecting patient to doctors and PHCs.

Why we need IoMT?

- The IoMT can help monitor, inform and notify not only caregivers, but provide healthcare providers with actual data to identify issues before they become critical or to allow for earlier invention

Buisness Model

- **Key Partners**
  - National Rural Health Mission
  - Medical, Health & Family Welfare Department
  - Individual
  - Health Lifestyle organizers
  - Health insurance Companies

Buisness Model

- **Revenue Stream**
  - Collab with Government under PPP – Public Private Partnership
  - NGO and other Non- Profit teams
  - Direct Sales to consumers/Pateint for use.
  - Insurance Companies
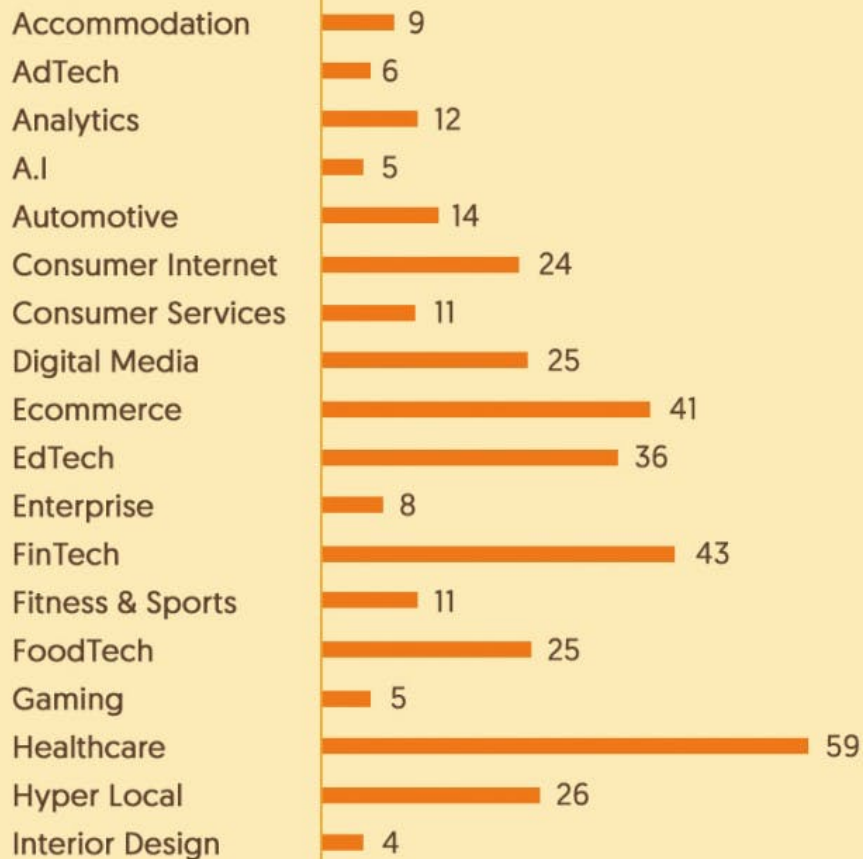
Buisness Model

- **Value Propositions**
  - Product/Platform for PHCs/Pateints/Doctors
  - High quality service efficiency and effectiveness.
  - Easily accessible and flexible for citizens and medical staff
  - Storage of personal health information on a blockchain a decentralized network.
  - Early detection and prevention of disease by performin algorithms on the data collected.

Market Size

NUMBER OF DEALS IN MAJOR SECTOR IN Q1 FY 2016

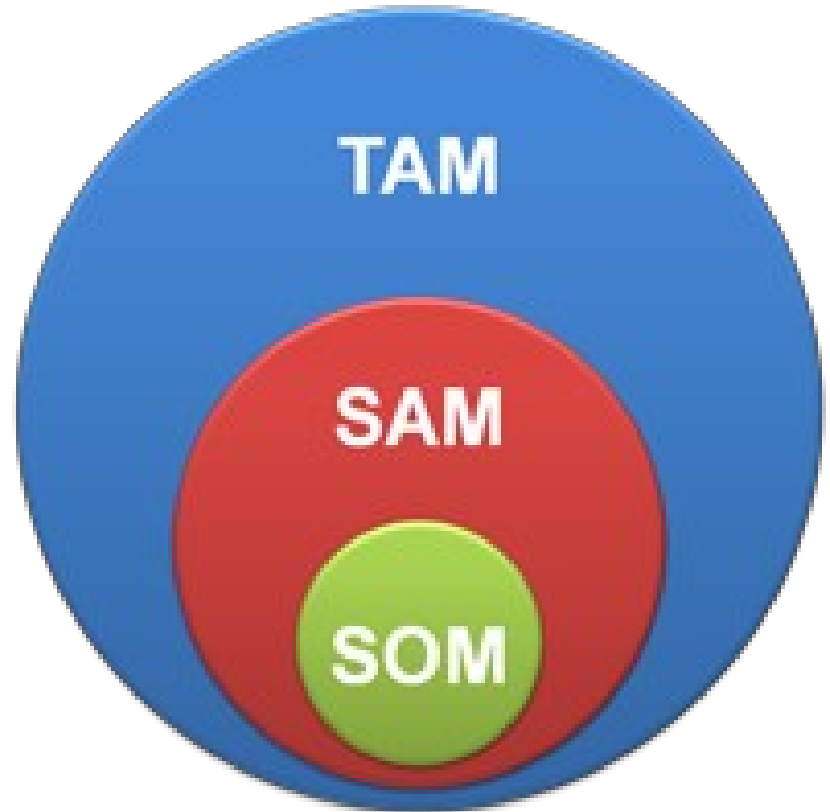| Sector	Number of Deals
Accommodation	9
AdTech	6
Analytics	12
A.I	5
Automotive	14
Consumer Internet	24
Consumer Services	11
Digital Media	25
Ecommerce	41
EdTech	36
Enterprise	8
FinTech	43
Fitness & Sports	11
FoodTech	25
Gaming	5
Healthcare	59
Hyper Local	26
Interior Design	4

Market Size

- **In Rajasthan , we have**
    - CHC – Community Health Center – 581
    - PHC – Primary Health Center – 2326
    - Sub Center - 15172

Market Size

- **Total Available Market**
  - Population of Rural 51,500,352
- **SAM- Servcieable Available Market**
  - People going to PHCs 6,695,045
- **SOM – Serviceable Obtainable Market**
  - Targeted Audience 1,437,358
  - Target City - Jaipur, Jodhpur, Udaipur,Alwar

Competition

- **Health Care Platform**
  - Practo Search, Credihealth.com, Lybrate
- **Medical Devices and Diagnostics**
  - Perfint Technologies,Biosense Technologies
- **Digitising and tracking platforms**
  - Practo Ray , eKincare

What's the difference?

- We are unique from our competitors across the diagnostic and blockchain healthcare space due to out profound product and data privacy model.

- System rely on highly scalable precision and bioinformatics platforms

- We do not regard other solution providers as competition: rather invite them to work with us to form a better and strong medical ecosystem to create seismic changes in rural areas

Why Blockchain ?

Append-only distributed system of record shared across business network

Shared ledger

Smart contract

Business terms embedded in transaction database & executed with transactions

Ensuring appropriate visibility; transactions are secure, authenticated & verifiable

Privacy

Trust

Transactions are endorsed by relevant participants

Blockchain Benefits

Saves
time

Transaction time
from days to near
instantaneous

Reduces
cost

Overheads and
cost intermediaries

Reduces
risk

Tampering, fraud,
& cyber crime

Increases
trust

Through shared
processes and
recordkeeping

End Result

- Increases the health care reach in remote locations.
- Providing affordable and effective healtcare in rural area
- A decentralized platform connecting patient to doctors and PHCs.
- Exact number of medical beneficiaries.
- Creating health schemes and benefits for the end user and required individuals.
- A very reach data set upon which mapping , graph and other calculations can be done.

Technology

- **Hardware**
  - Raspberry Pi
  - Arduino Mega 2560
  - E-Health Sensor chip
  - Various Sensors

Technology

- **Software**
  - IBM Watson Cloud
  - HyperLedger Blockchain
  - Node-Red
  - PUBNUB