

# HEALTH PRO SMART

(A new generation gadget for health care and monitoring)

A MULTI FEATURE SAFETY GADGET FOR HEALTH MONITORING  
FOR ALL PATIENTS



# The Health Pro Smart

A solution for which problem?

**The main problem is the need to find a way to collect data instantly and quality.**

**RAW data collection (difficult to understand and work with)**

**Huge UnOrganized Data (Un-symmetrical Data)**

**Un-Filtered Data Category/age(for each Patients)**

**Redundant Data (For Same Patients)**



# OUR SOLUTION COMPRISES OF 2 PARTS

NEW USERS  
(HARDWARE  
AND SOFTWARE)



FOR EXISTING SMART WATCH USERS  
(ONLY SOFTWARE NEEDS TO  
INSTALL)



How do we use data to transform health systems into learning organisations?

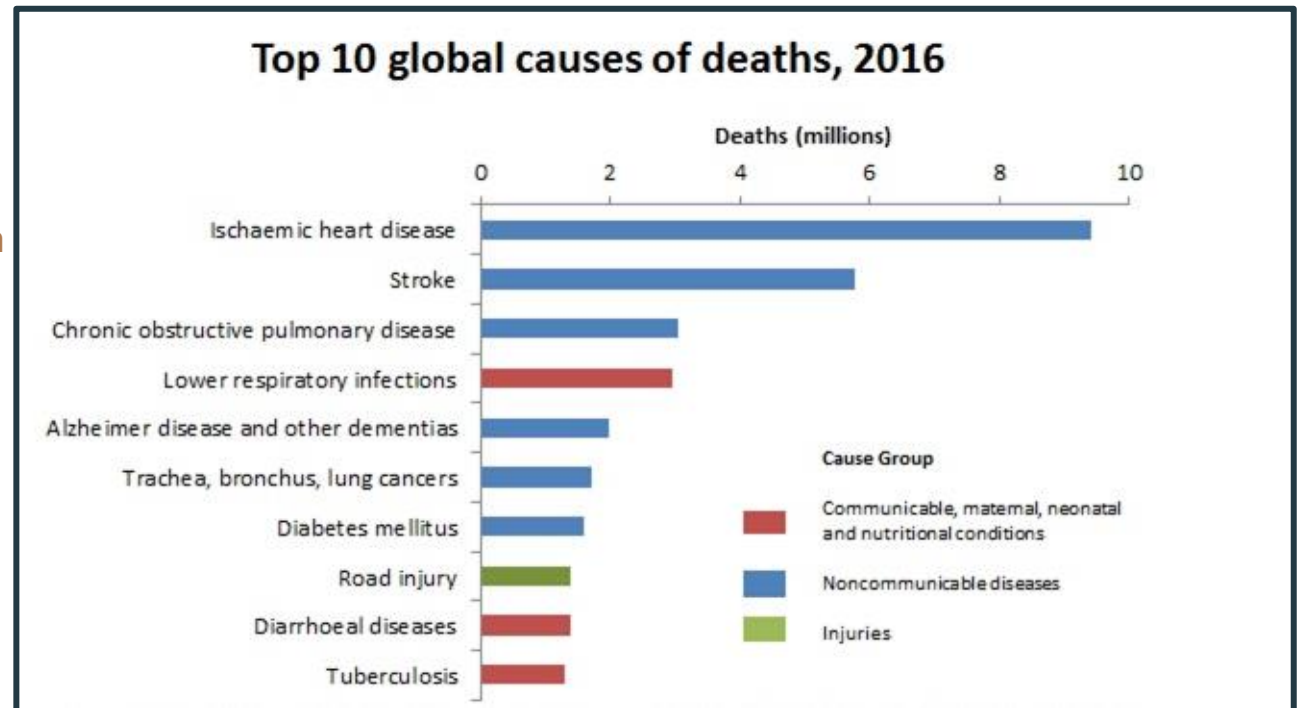
**An Android based smartwatch with software integrated and connected with central server to store, access and filter all the data of the patients on the basis of age, diseases, symptoms and their medical history of the patients which can easily be managed and access by the medical units to analyse their health and to provide proper medical treatment 24/7.**

# Top 3 global causes of death

Total deaths (2016): 56,9 million

Top 3 causes:

1. Ischaemic heart disease
  2. Stroke
  3. Chronic obstructive pulmonary disease
- 15.2 million
- disease



Source: World Health Organization, 2018

# Target group

Hospitals and companies

Can be used by every patient ( man and women), especially ...

- Aged > 65
- Physically disabled
- With diseases where it's necessary to monitor the parameters:
  - a. blood pressure
  - b. oxygen saturation
  - c. pulse
  - d. body temperature



# Advantages

- **Monitoring more frequently (↔ hospital: at 1 specific moment))**
- **More data can be collected**
- **No need for a doctor**
- **Costs: 1 time purchase of 25\$ (↔ multiple hospital costs)**
- **↓ hospital visits (Covid - 19)**
- **Software is compatible with other android devices**
- **There is a lott of data, but we will use quality data by filtering the data to avoid despencies**
- **Data is categorized on the basis of gender, age and disease separately so that it will be easy to monitor and analyse by the organisations**

# Deficiency of the solution

- **Privacy issues**
  - **Solution: the patients give their consent**
- **Other competitors on the hardware: smartwatch**
  - **Solution: we make Android based software is possible to download in all other smart bands and is in SYNC with your various devices.**



# Features of the health Pro Product



**Monitors the health of patients 24/7**

*Keeps the patients under virtual supervision by monitoring 24/7 in SYNC with the doctor*



**Monitors crucial vitals**

*Keeps monitoring heart rate, pulse, body temperature, and oxygen saturation of the patients*



**Notifies doctors for immediate help**

*For emergencies, it immediately notifies the doctor and ask for help by sending notification to doctor and central hospital system*

# Features of the health Pro Product

Has built in tools:

- thermometer
- oximeter (spo2)
- pulse sensor

Keeps the records in SYNC with central system and linked the assigned doctors

In times of emergency: gives a notification to 911 and the doctor & the central system to reach for immediate help

# Prerequisite for compatibility of software with other smartwatch brands

**An Android based software which is compatible for all brand Android Smart Watches but the Smart Watch Should have Pulse Sensor, Temperature Sensor and oximeter Sensor.**

**The software works in combination with a designed hardware architecture for monitoring social distancing, monitoring temperature ,monitoring oxygen saturation in the body for long distance flights.**

**The Health Pro Smart is android based/Bluetooth/Wi-fi and works with all standards Bluetooth and Wi-fi devices and is SYNC with with all types of standard android devices and Tabs to use.**

**It can be SYNC with Mobile Phone/App for Maintain the All the Health records and Data about your Previous Health Conditions.**

**The software and Data is in SYNC with Hospital to Manage the Health and needs to be activated at admission to hospitals.**



# How to use the Health Pro Smart?



1. The watch needs to be tied on the wrist of the patient
2. It's automatically connected to the central server of the hospital (sends and collects data)
3. Patient gets a unique ID
4. The monitoring tools will monitor the vitals of the patient for 24/7 and save the data
5. Server filters data based on age group, gender and disease
6. Converts the data into a pdf graphical report (for the medics)
7. To find the patient and patients history of data the medic just has to enter the patients ID on the UX/screen
  - a. Data will be presented in a graphical chart /pichart and bar graph format
  - b. Easy to understand and analyse by the doctor for further use and treatment
8. Organisations/doctors can analyse and provide the treatment to patient easily

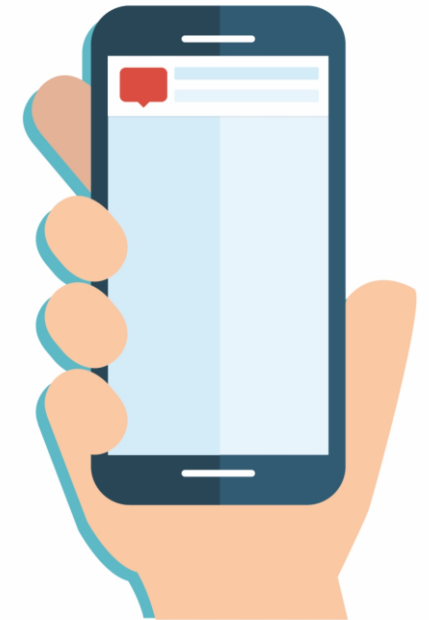
# Product with services sensory disabled persons

Gives notifications and alerts to

- Caretakers to provide food and care on the scheduled time as they are physically disabled.
- Doctors to visit them at appointment time to monitor them physically on daily basis (if patients are deaf or physically disabled helpless).

Keeps the patient in SYNC with central system and doctors/caretakers provide improvement records and analysis on daily basis.

If there is an emergency occur it will give the notification to doctor as well as the central system to reach for immediate help.



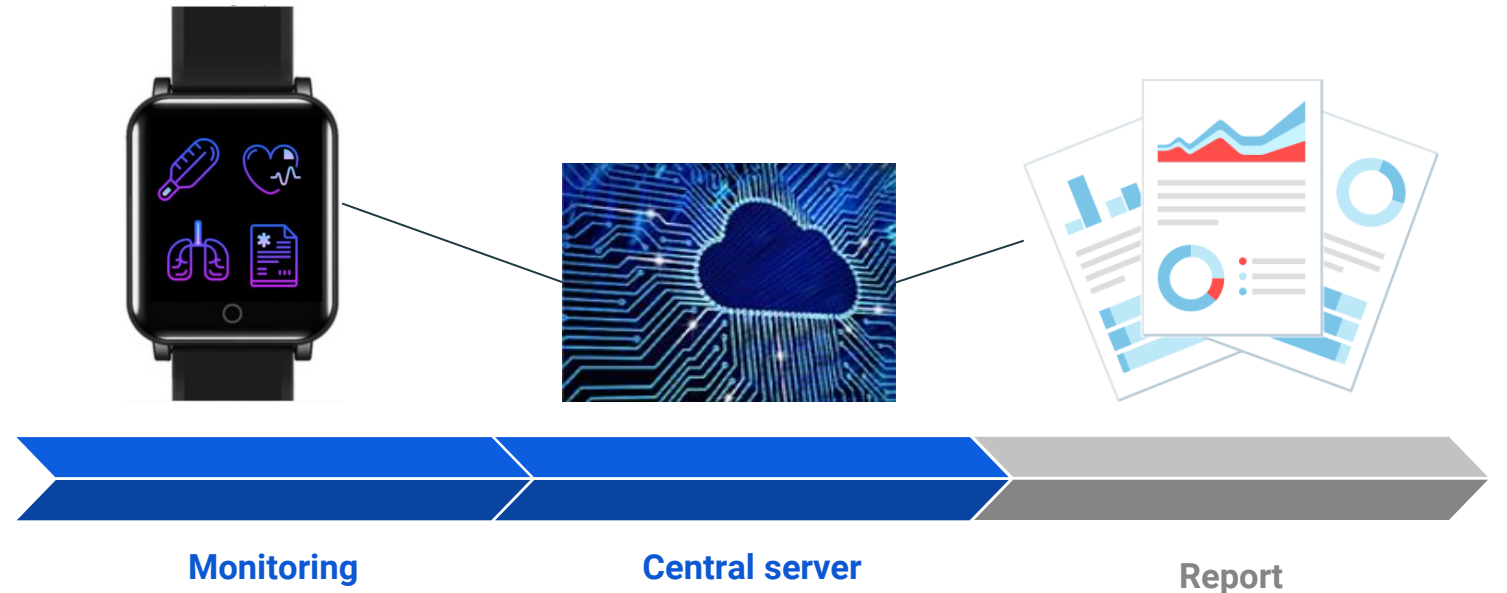
# Output: monitoring report

Monitors the vitals every hour, for 7 days


An email/text/pdf report will be send to the doctor in case of deviations

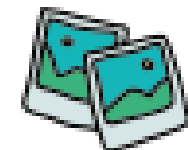
The report contains

- an average body temperature
- oxygen level
- pulse rate
- heart rate



# User Definition For Filter and Save Data

User Parametres	Patient Data	Report Format send to organisations																		
Patient ID	<ID: 43232Z>	 <p>The screenshot shows a dashboard with the following data:</p> <ul style="list-style-type: none"> <li>25,423 Pageviews</li> <li>00:04:08 Avg. Time on Site</li> <li>3.32 Pages/Visit</li> <li>28.30% % New Visits</li> <li><b>Traffic Sources Overview:</b> <ul style="list-style-type: none"> <li>Direct Traffic: 3,097.00 (10.49%)</li> <li>Search Engines: 2,910.00 (38.04%)</li> <li>Referring Sites: 1,842.00 (21.47%)</li> </ul> </li> <li><b>Map Overlay:</b> A world map with a green dot in Australia.</li> <li><b>Visitors Overview:</b> A line graph showing visitor trends over time, with a total of 2,958 visitors.</li> <li><b>Content Overview:</b> <table border="1"> <thead> <tr> <th>Pages</th> <th>Pageviews</th> <th>% Pageviews</th> </tr> </thead> <tbody> <tr> <td>/</td> <td>5,932</td> <td>23.33%</td> </tr> <tr> <td>/information-resources</td> <td>1,306</td> <td>5.14%</td> </tr> <tr> <td>/decisions</td> <td>867</td> <td>3.41%</td> </tr> <tr> <td>/information-privacy</td> <td>697</td> <td>2.74%</td> </tr> <tr> <td>/information-privacy-guidelines</td> <td>692</td> <td>2.72%</td> </tr> </tbody> </table> </li> </ul>	Pages	Pageviews	% Pageviews	/	5,932	23.33%	/information-resources	1,306	5.14%	/decisions	867	3.41%	/information-privacy	697	2.74%	/information-privacy-guidelines	692	2.72%
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/information-privacy-guidelines	692		2.72%																	
Name	<Patient Name>																			
Age	65																			
Pre Owned Diseases	“Heart strok”: “Blood pressure”																			
Last monitored Date and Doctor	2020/10/12 :16:00 by Dr. John Cena																			
Last week average Report (Temp,BP,SP02)	2020/11/09 ([37,90-120,98])																			
Last medicine History taken	“Rx:XX”RX:”YY”;																			



# Costs (Adding all and we can find total)

-/-

Health App

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adipiscing. Donec risus dolor,  
porta venenatis neque  
pharetra luctus felis vel tellus  
nec felis.



15-25€

Smart Band

Programmable band with  
display used as monitor health  
and sends date to server

- Low costs

Depends on  
data

Central Server

Cloud based central server to  
store data of the patients and  
to filter it.

- Low costs

-/-

Website/App

A website/ Mobile App needed  
to fetch/Display patients data/  
reports from server on the  
screen for organisation  
analysis and use.





# Summary

- *First innovation in Medical Sector to implement Health Pro for Patients with multi factor safety and virtual monitoring for data analysis by medical organisations.*
- *Suitable for all types of patients like old age, pregnant womens, heart disease and etc...*
- *Boosts healthcare sector to make data more usable by filtering and simplified for medical organisations for analysis .*
- *Makes the future healthcare experience smoother and safer.*
- *Trillions of patients will be happy and safe and monitored 24x7 even from homes.In this covid times .*



# THANK YOU

Team 8: Health Pro Smart

By Puneet Madan, Arnau Reynals, Ilham Bennamari, Nora Fares & Zaynab Belrhazi

