Fetal Monitoring and Analysis
to prevent intrauterine
deaths and still births

Idea



Concept

Perspective



Pakistan has the highest stillbirths rate



Occurrence

- In 2015 2.6 million still birth cases were reported
- 77% of stillbirths occurred in South Asia & sub-Saharan Africa



Rate

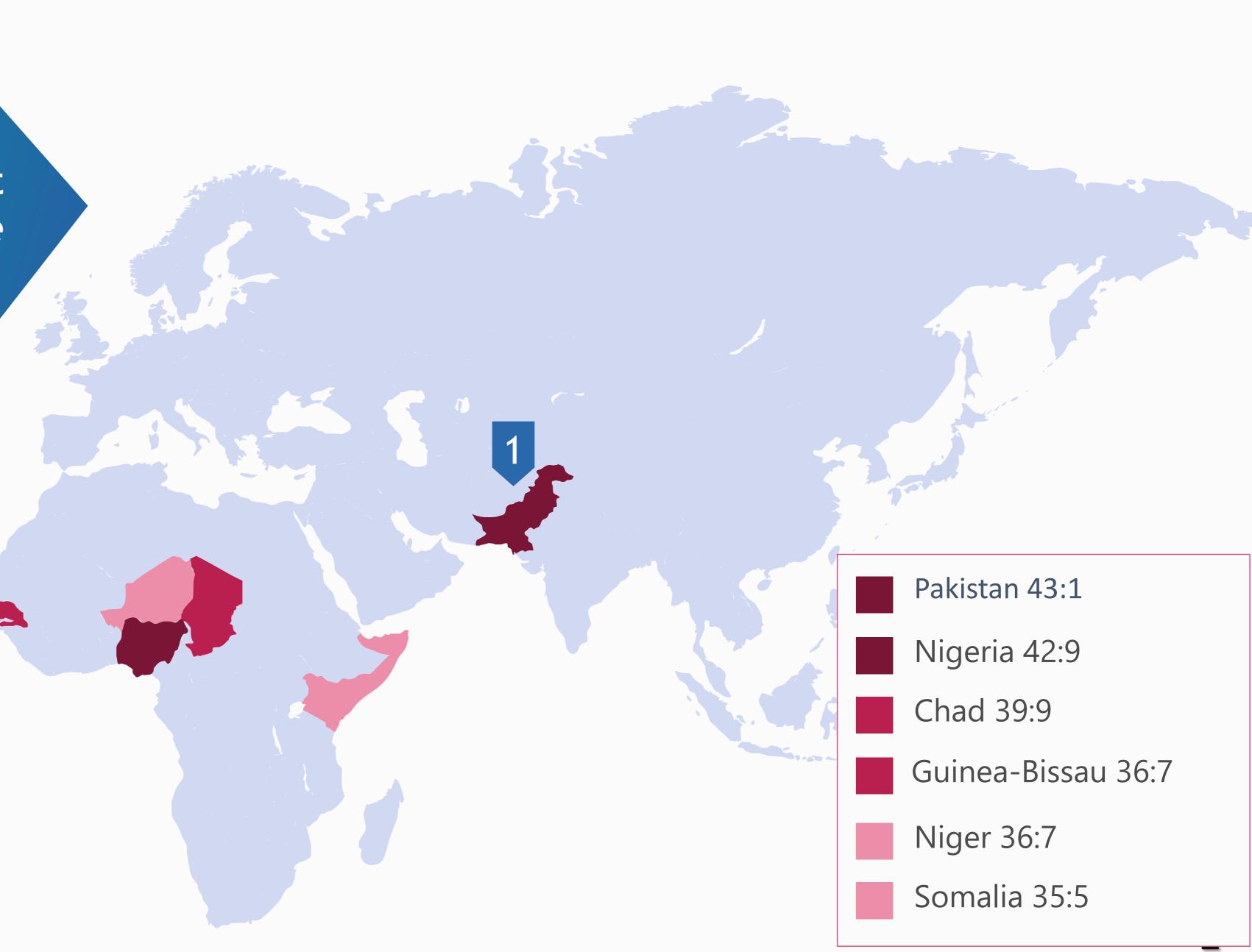
In Pakistan the reported rates of stillbirth ranges 36 - 70 /1000

• Global 18.4/1000

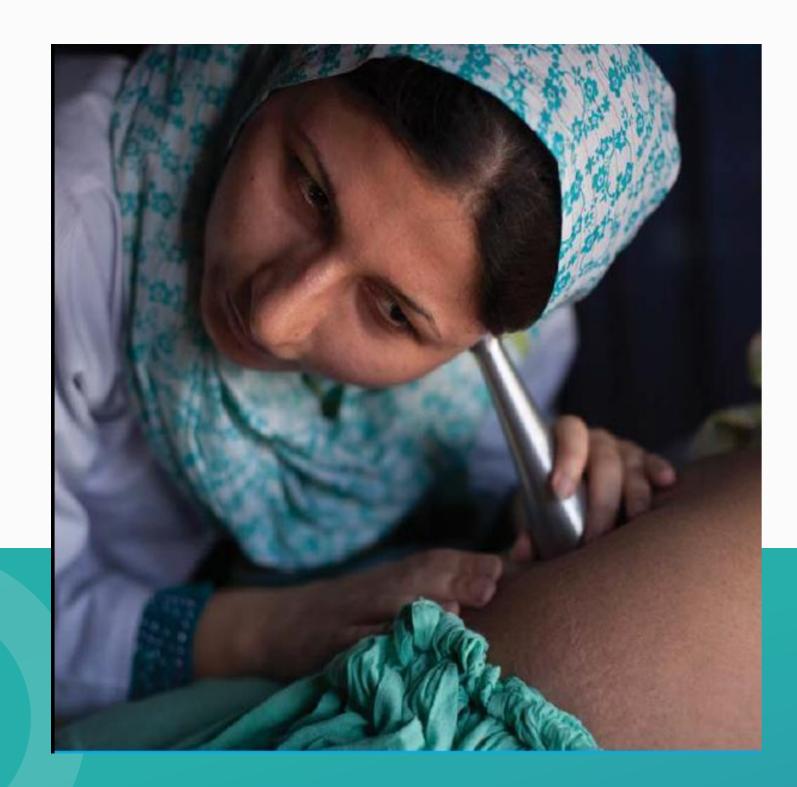


Rural Areas

98% of these take place in low income/rural areas.



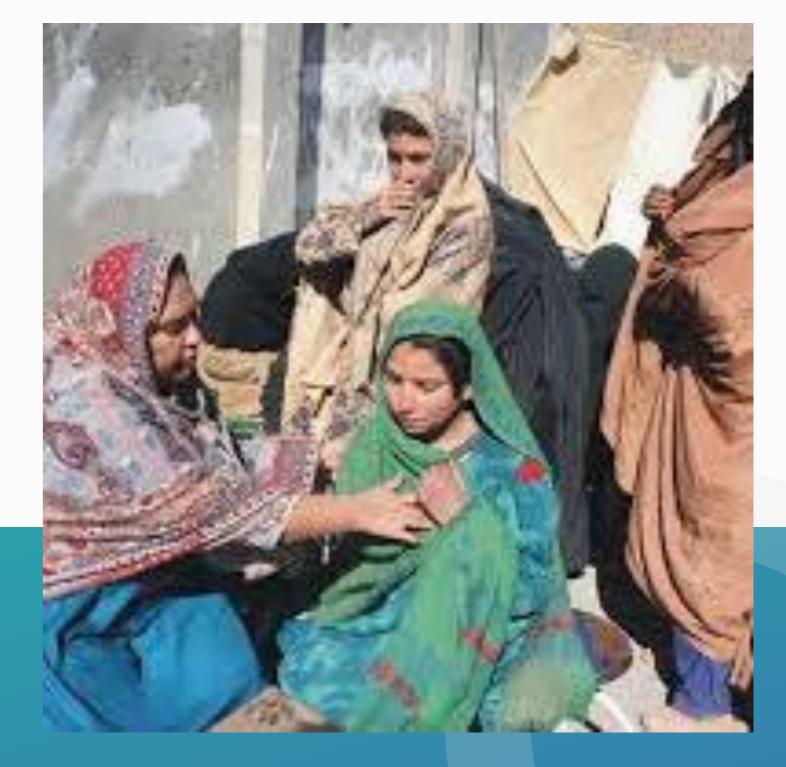
Problems faced by expecting women in rural areas:



Lack of facilities



Inconvenience

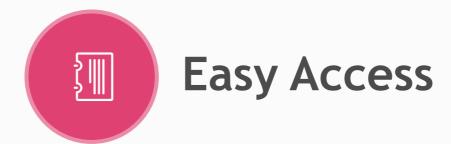


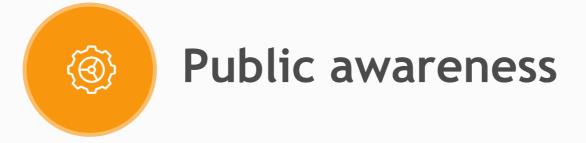
Unaffordable



fetal and neonatal survival...











OUR GOAL IS TO ALLEVIATE the RISK ...



Fetal Heart Rate
Monitoring

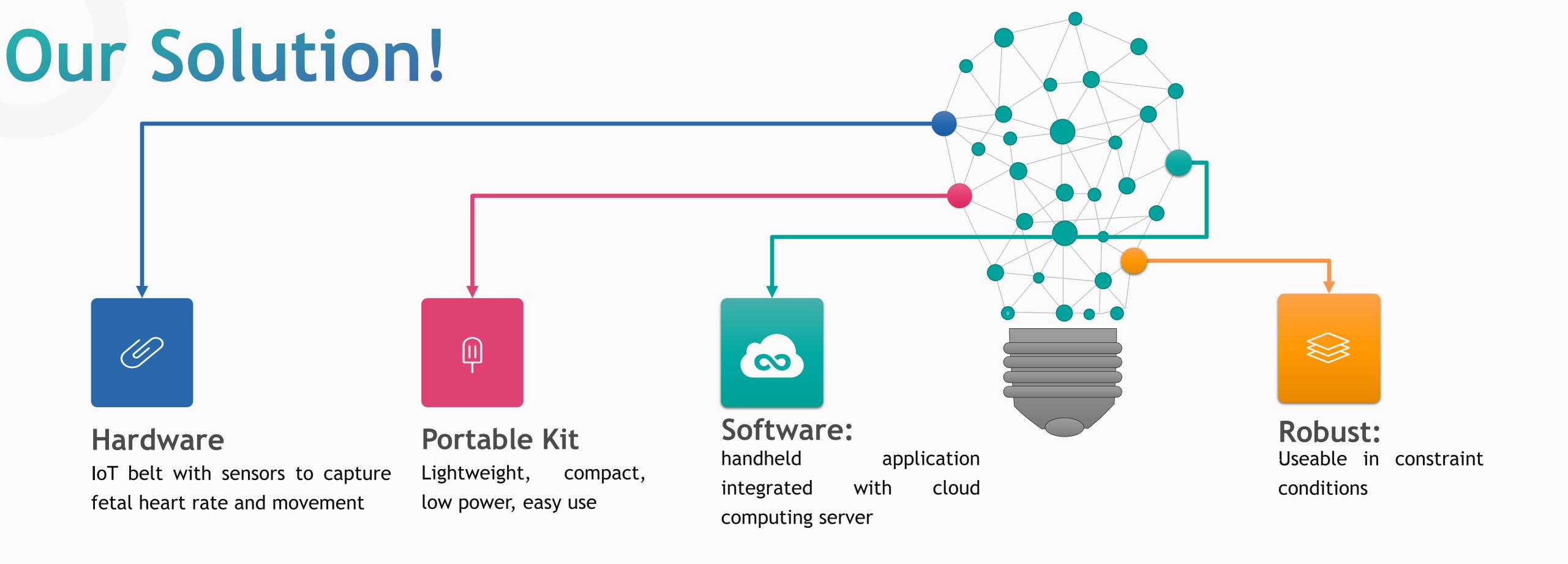


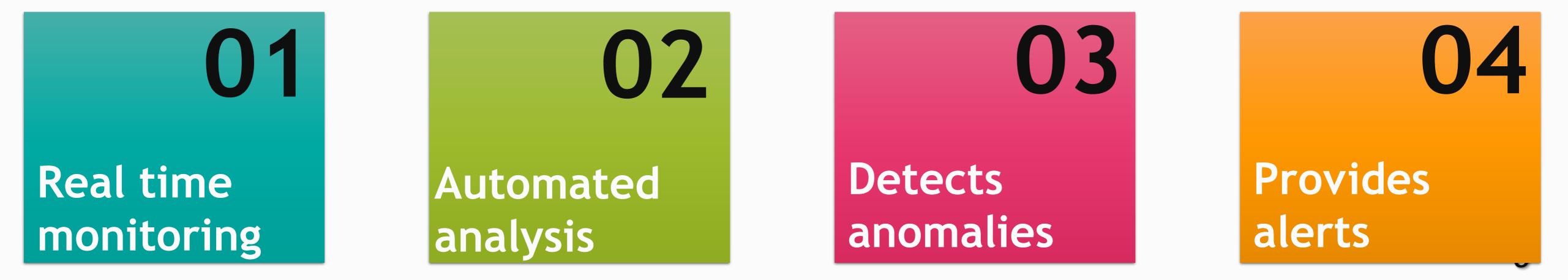
Fetal Movements
Monitoring

It is very important to identify prompt changes in the foetus health by "monitoring the Fetal Heart Rate and foetus movements"

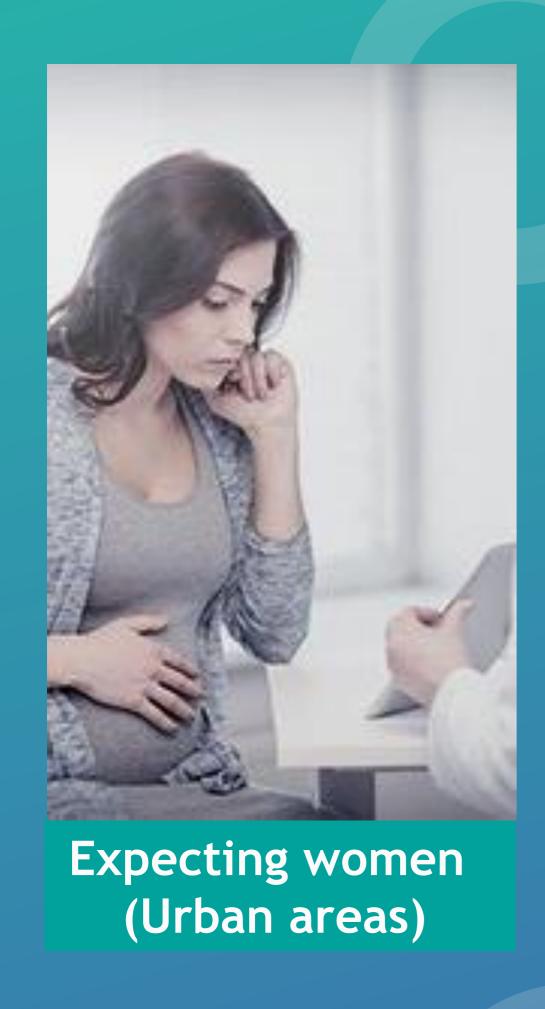
Remote Fetal Care







Fe Amaan - Who is it for?





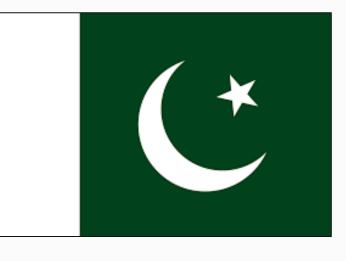
(Rural areas)



Gynecologist/ Obstetrician









Fetal Monitoring and Analysis to prevent intrauterine deaths and still births



National University of Sciences and Technology (NUST)





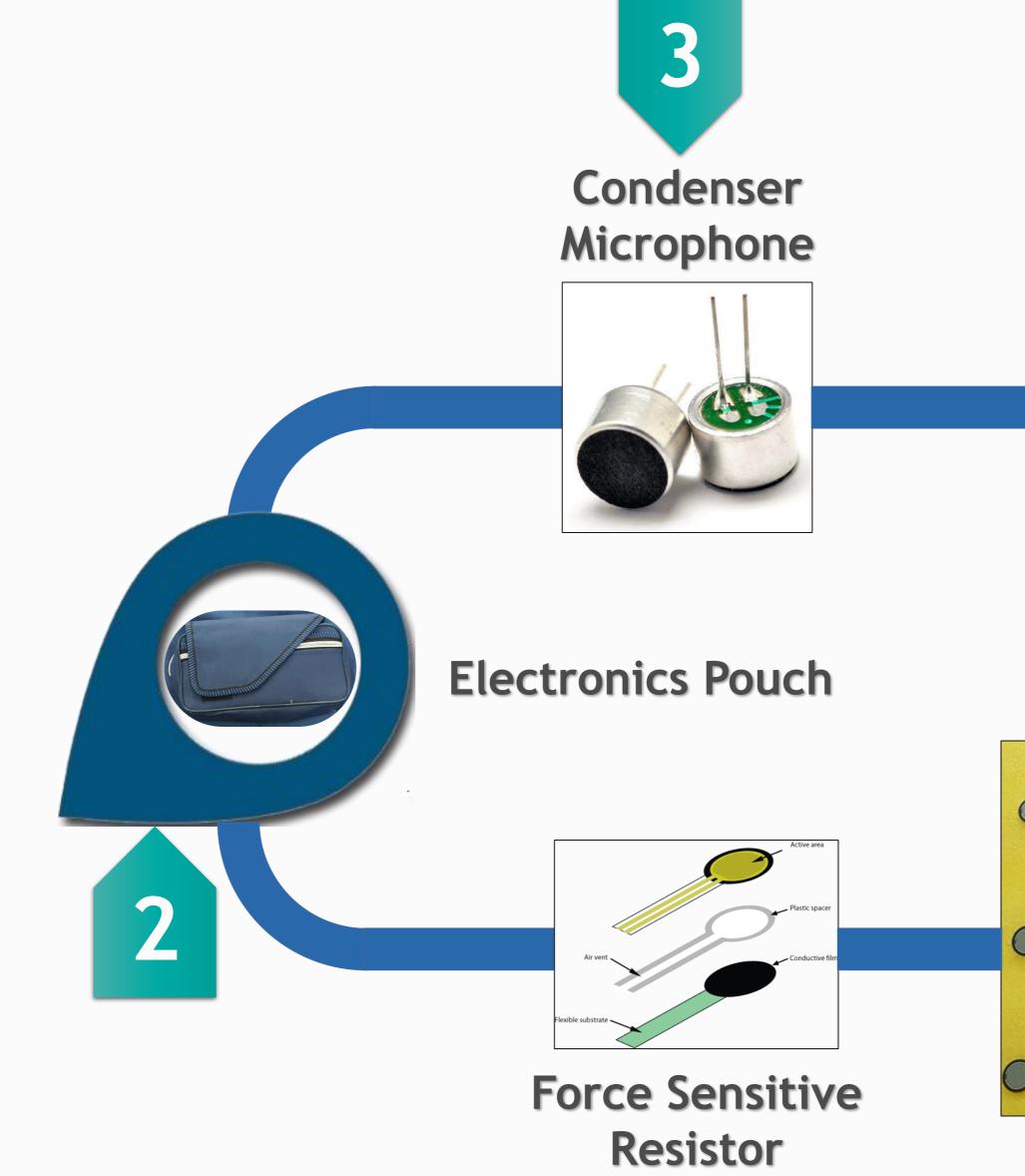




Dr. Imran Mahmood

Fe Aman Workflow



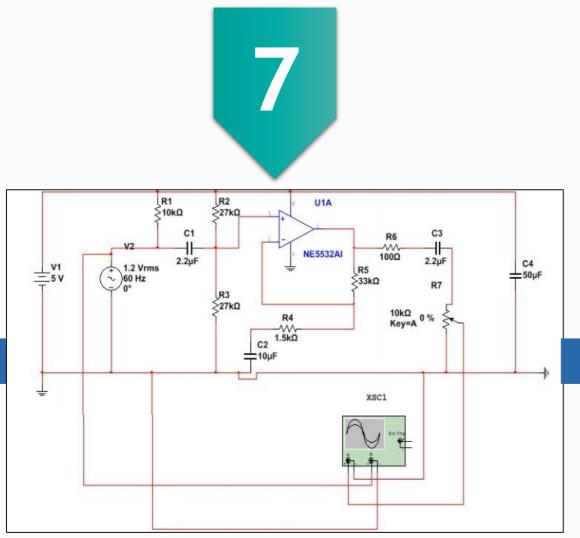




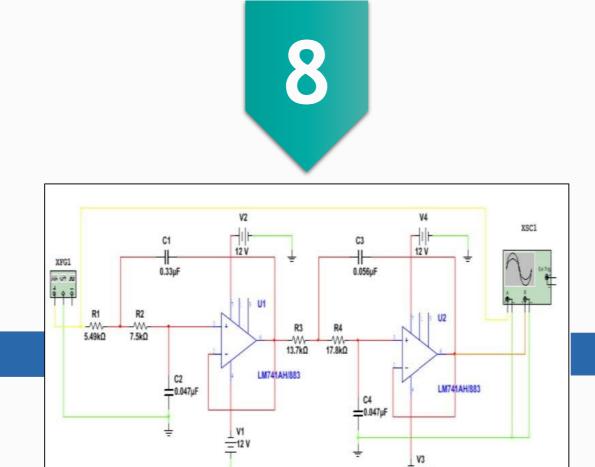




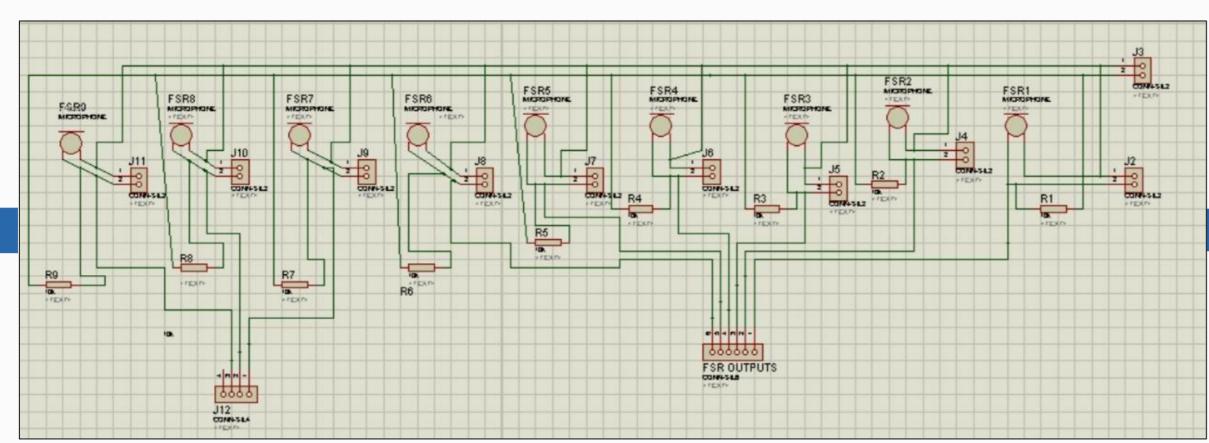




Pre-amplifier

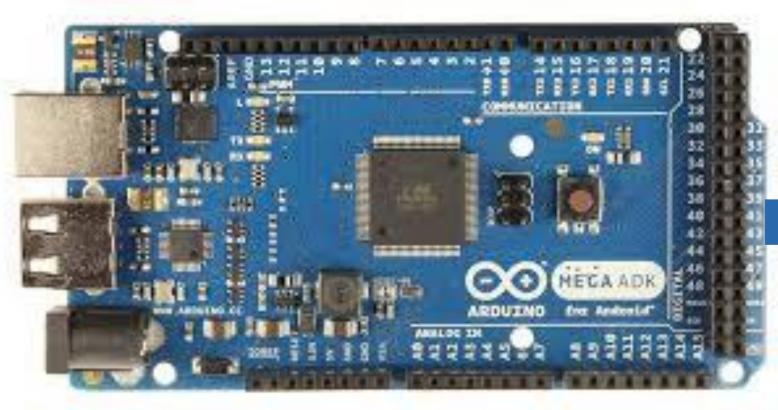


Butterworth filter



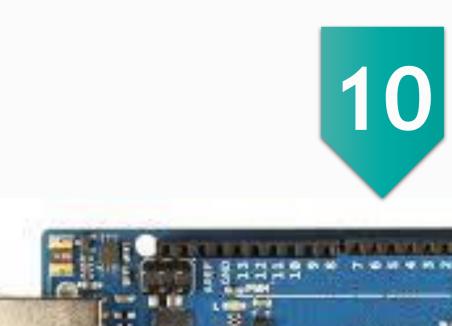
Force Sensitive Resistor Controller





Aurdino MEGA

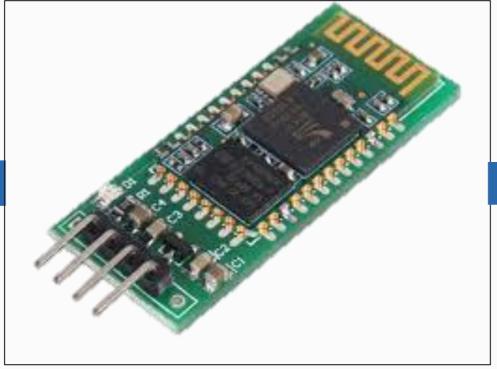
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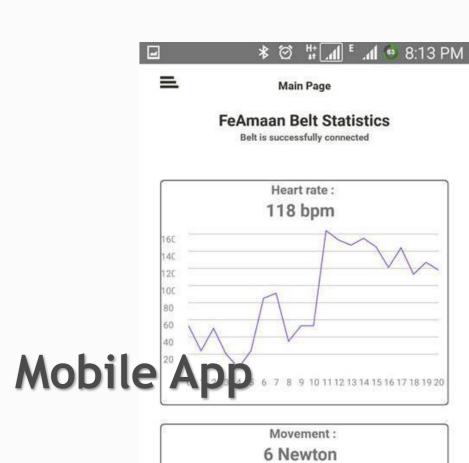
Aurdino MEGA



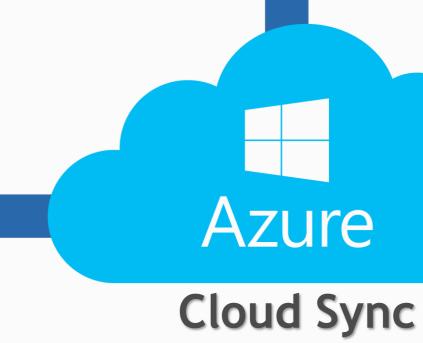


Aurdino Bluetooth



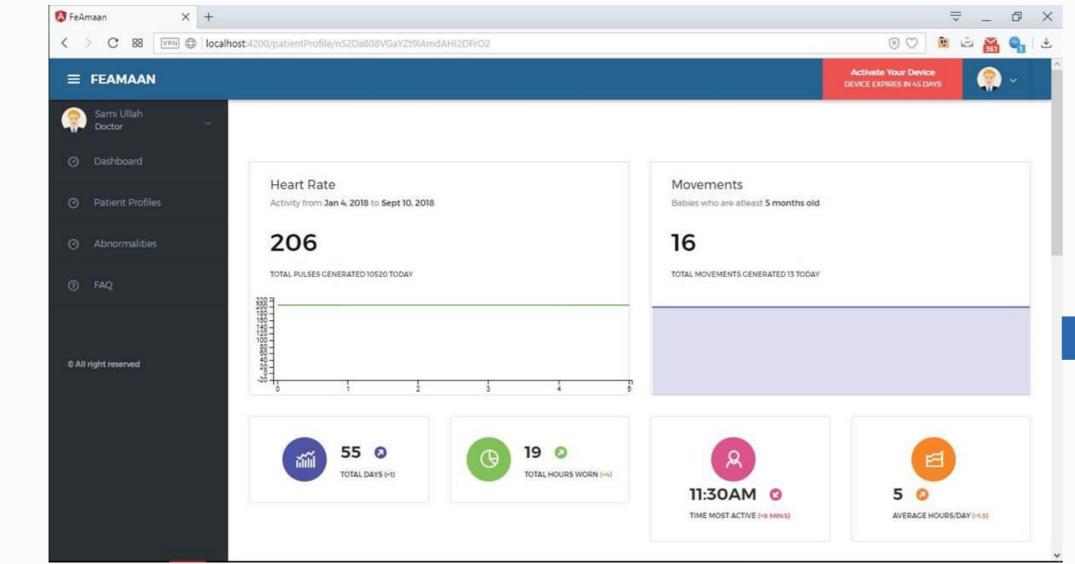










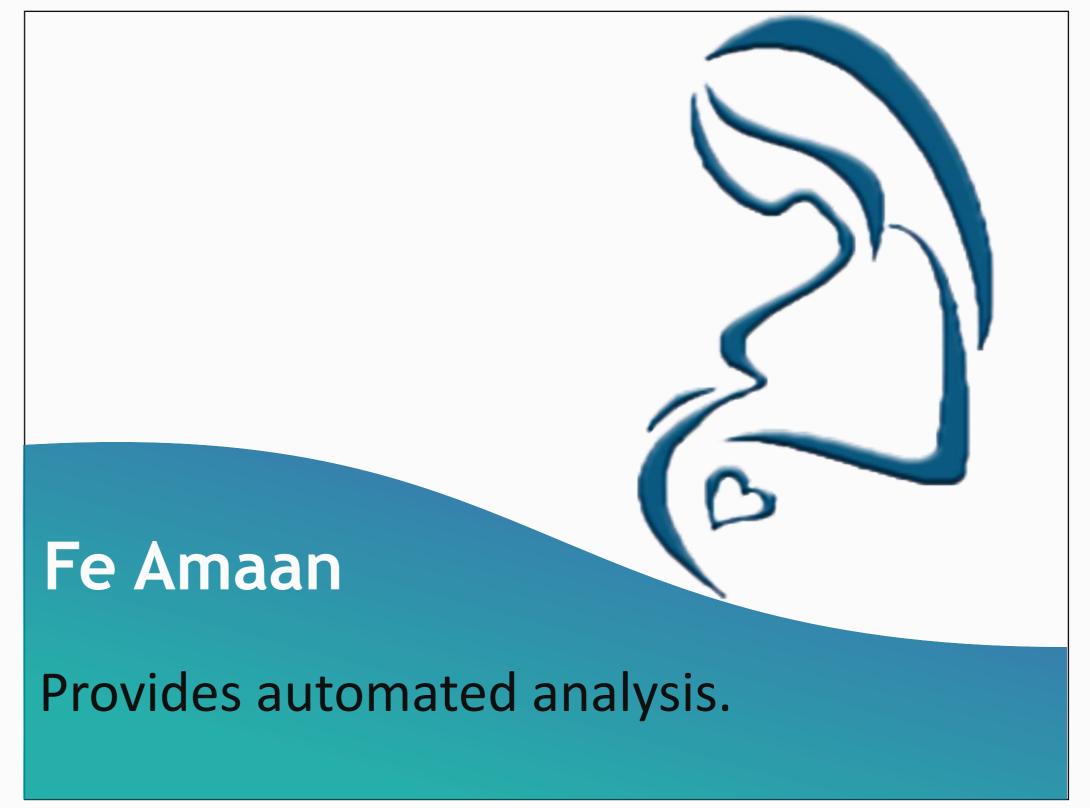


Web Dashboard

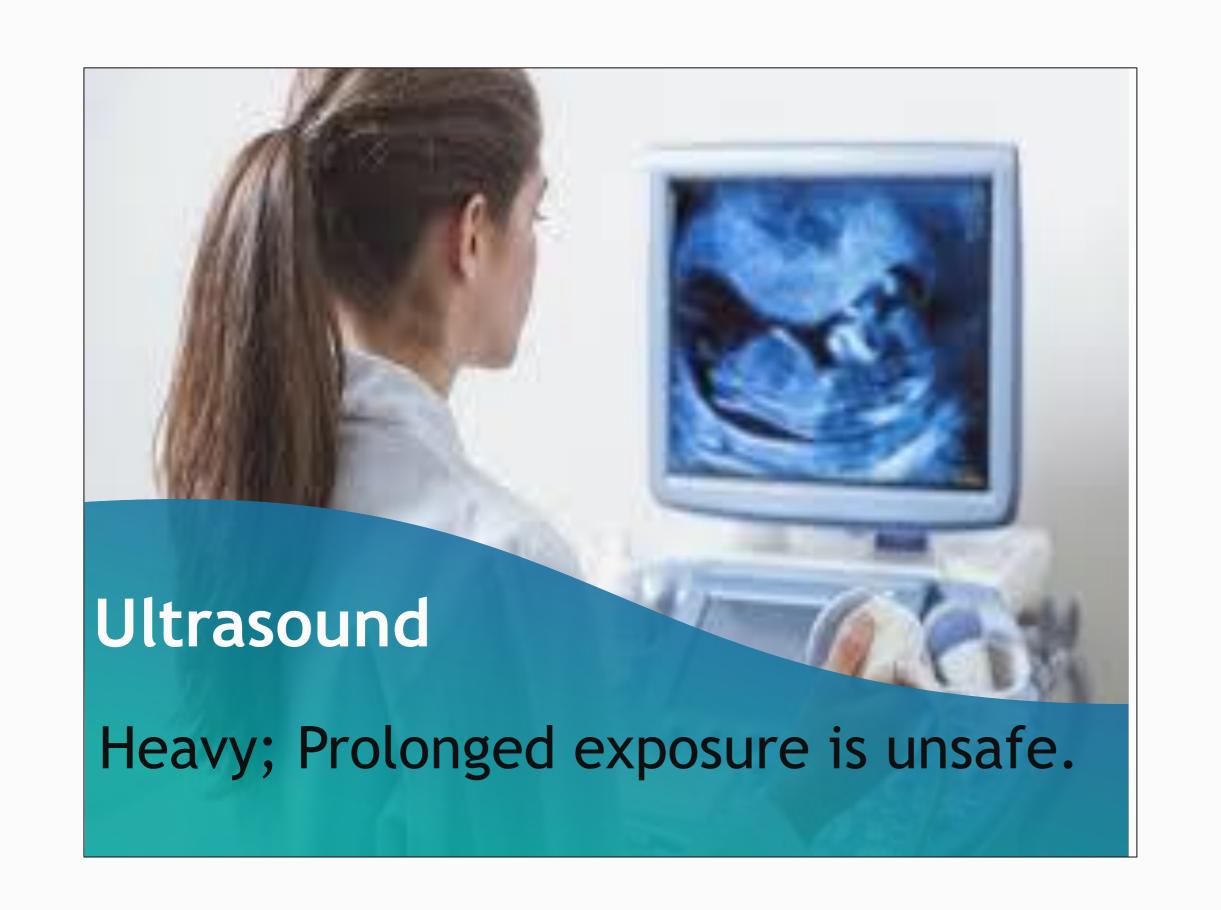


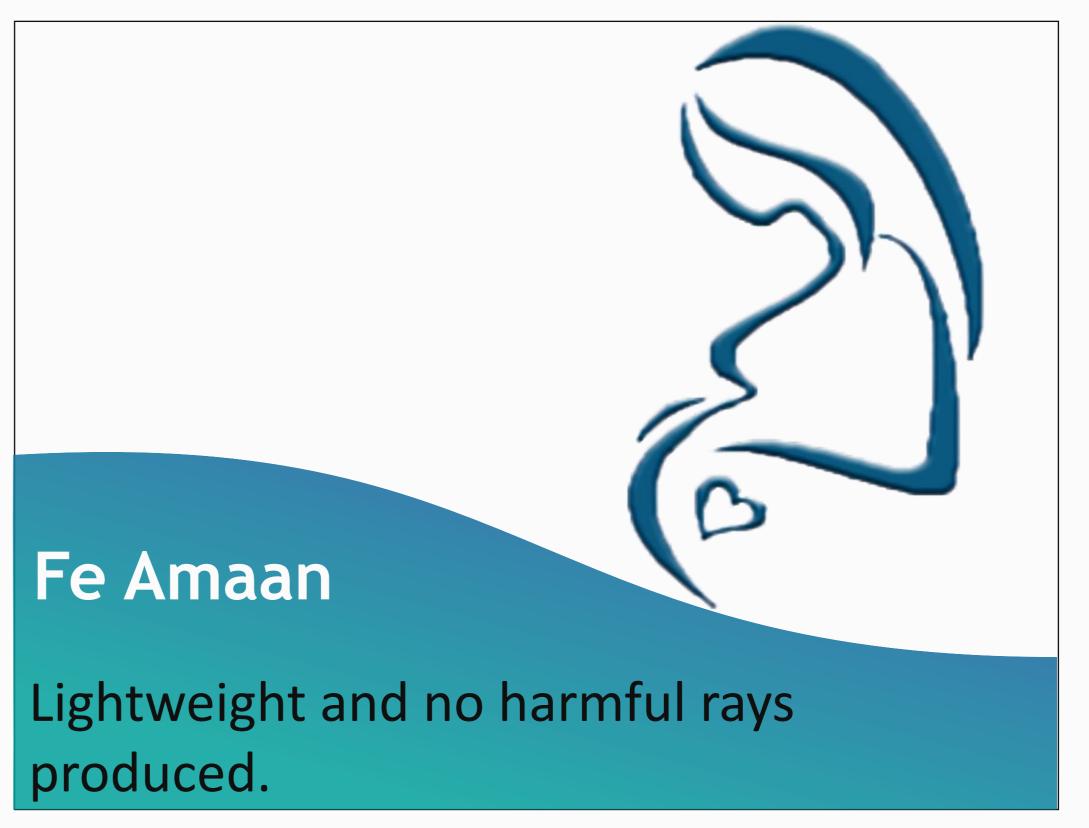




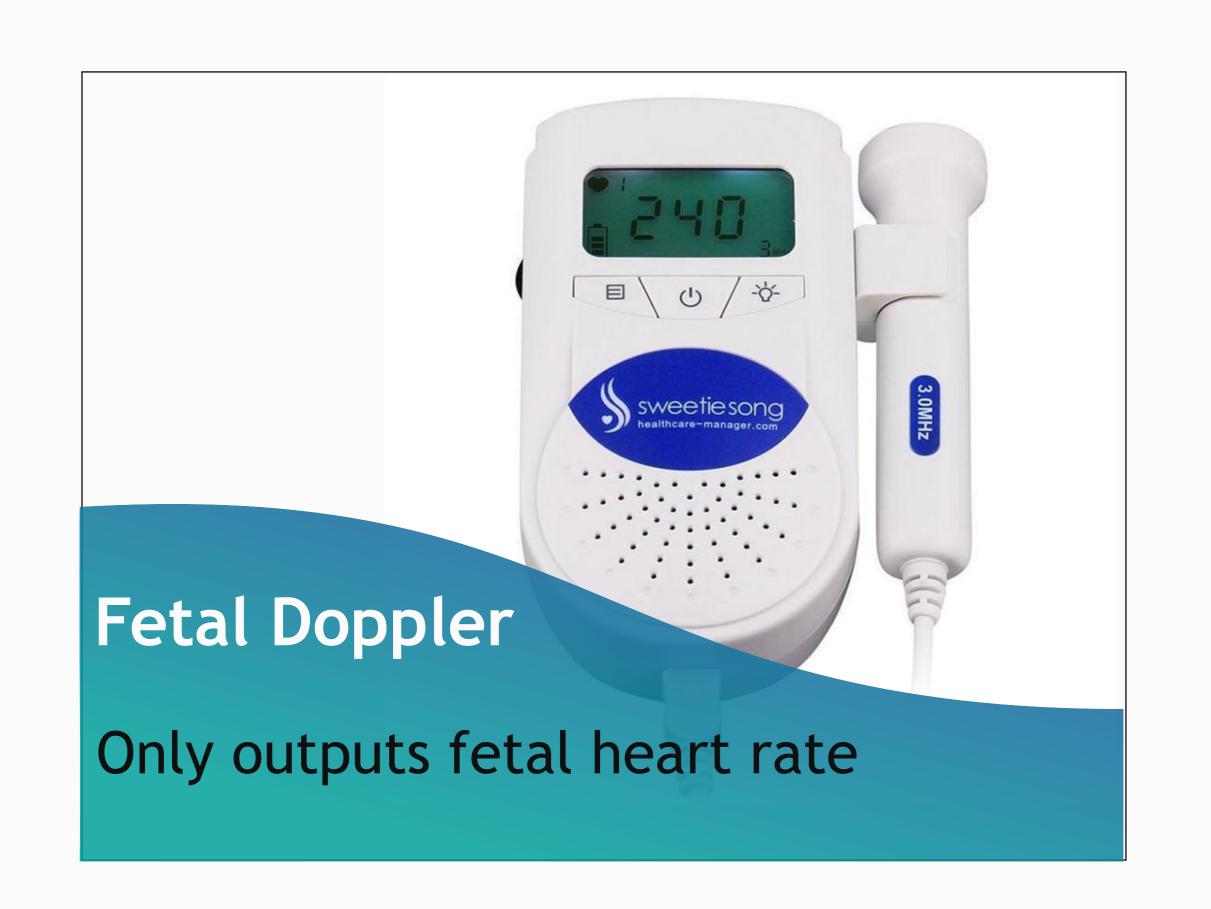


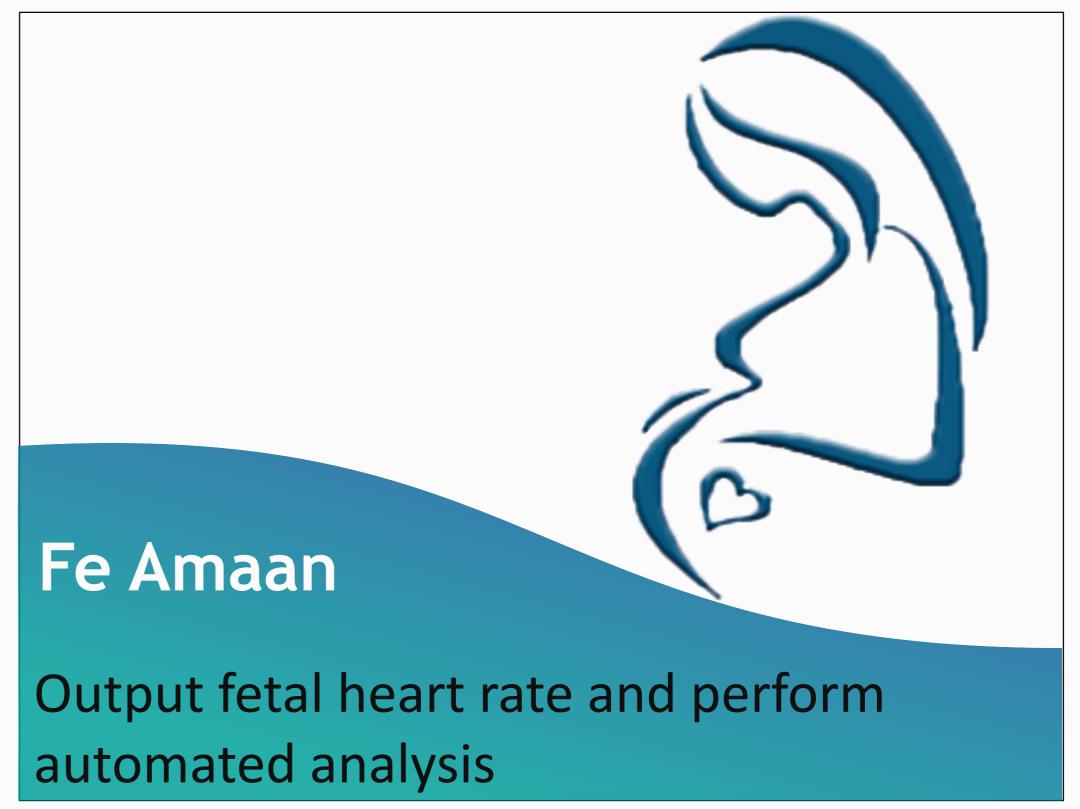






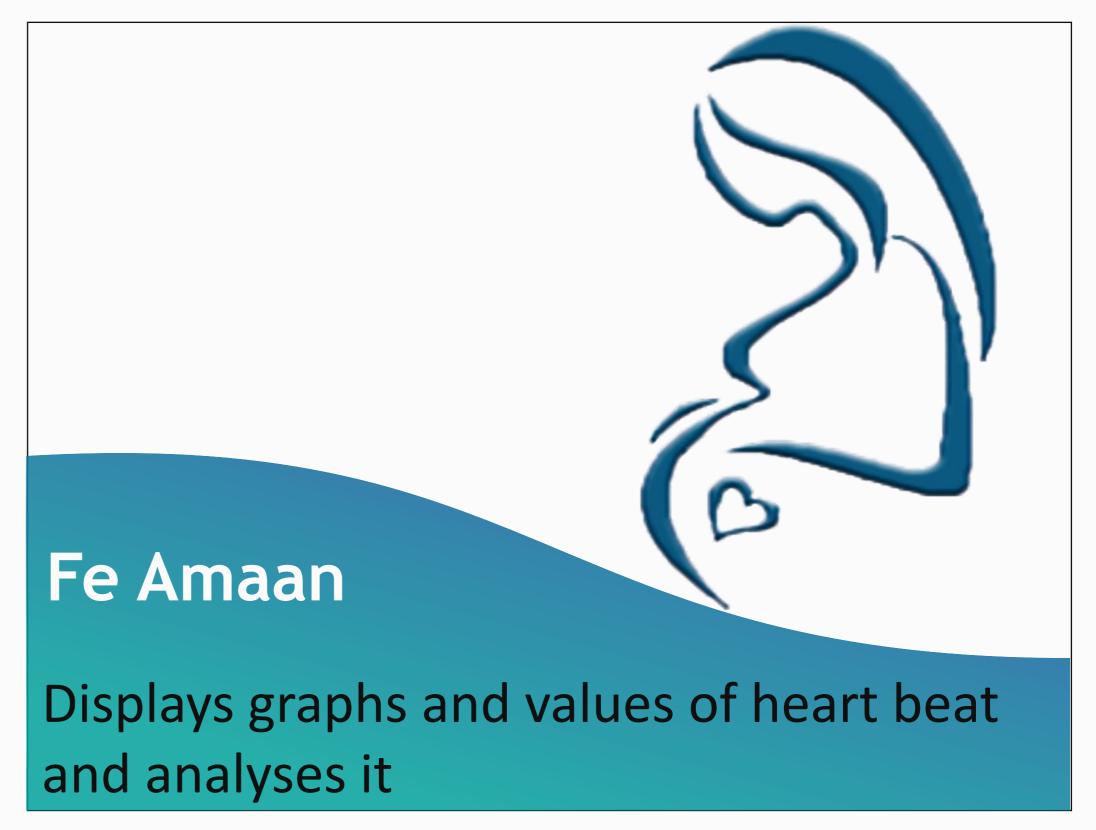




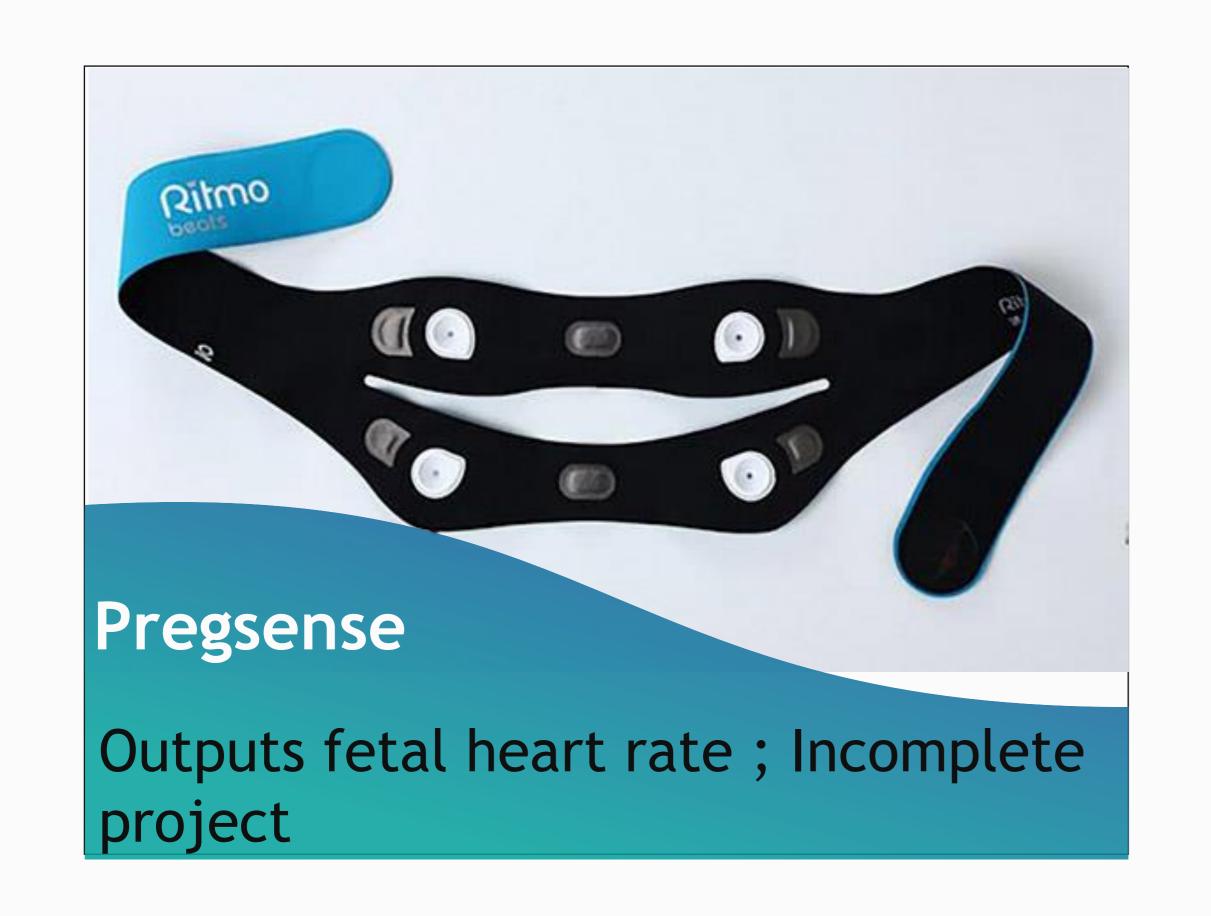


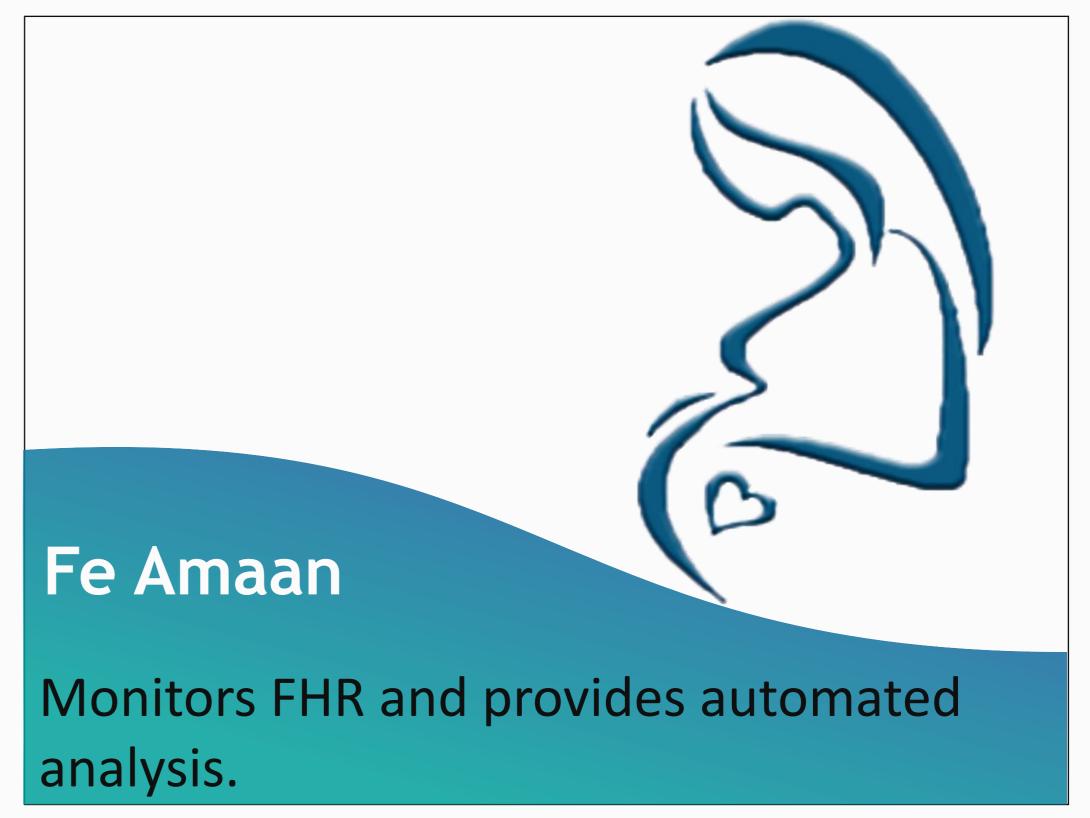




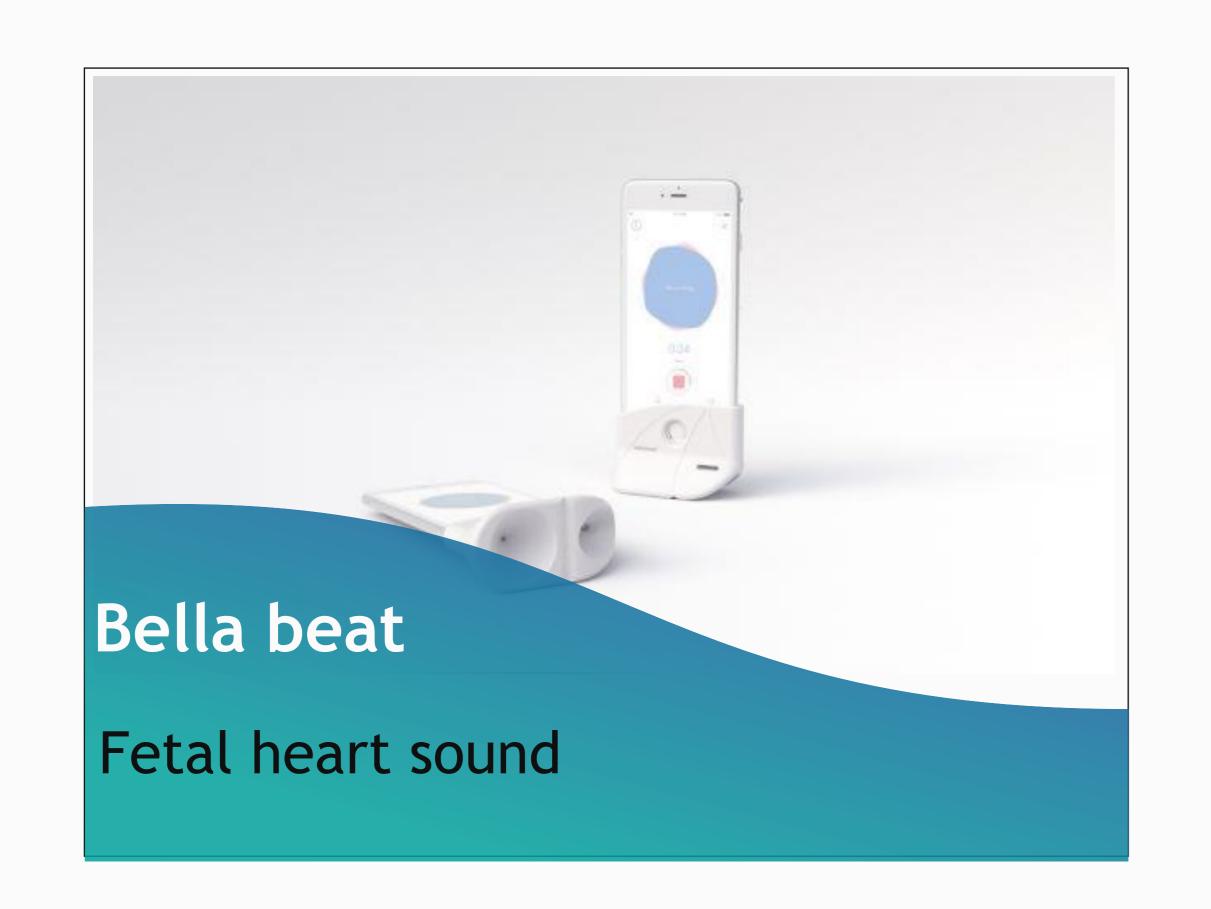


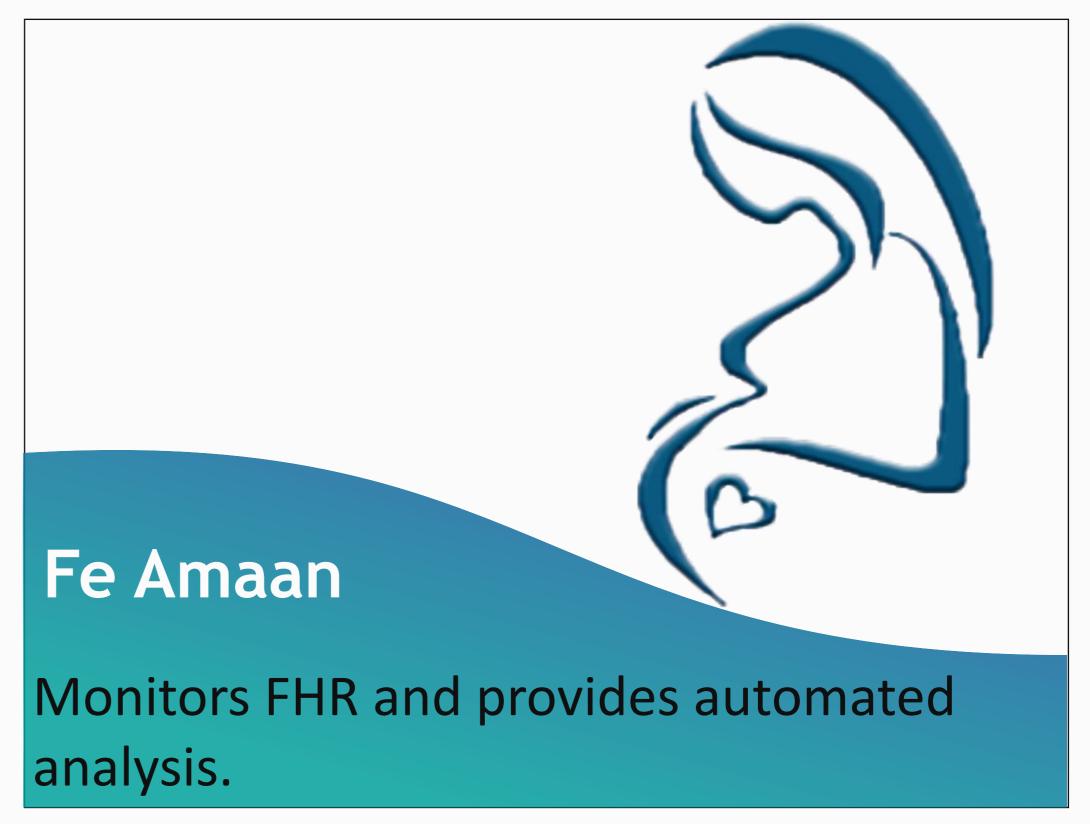




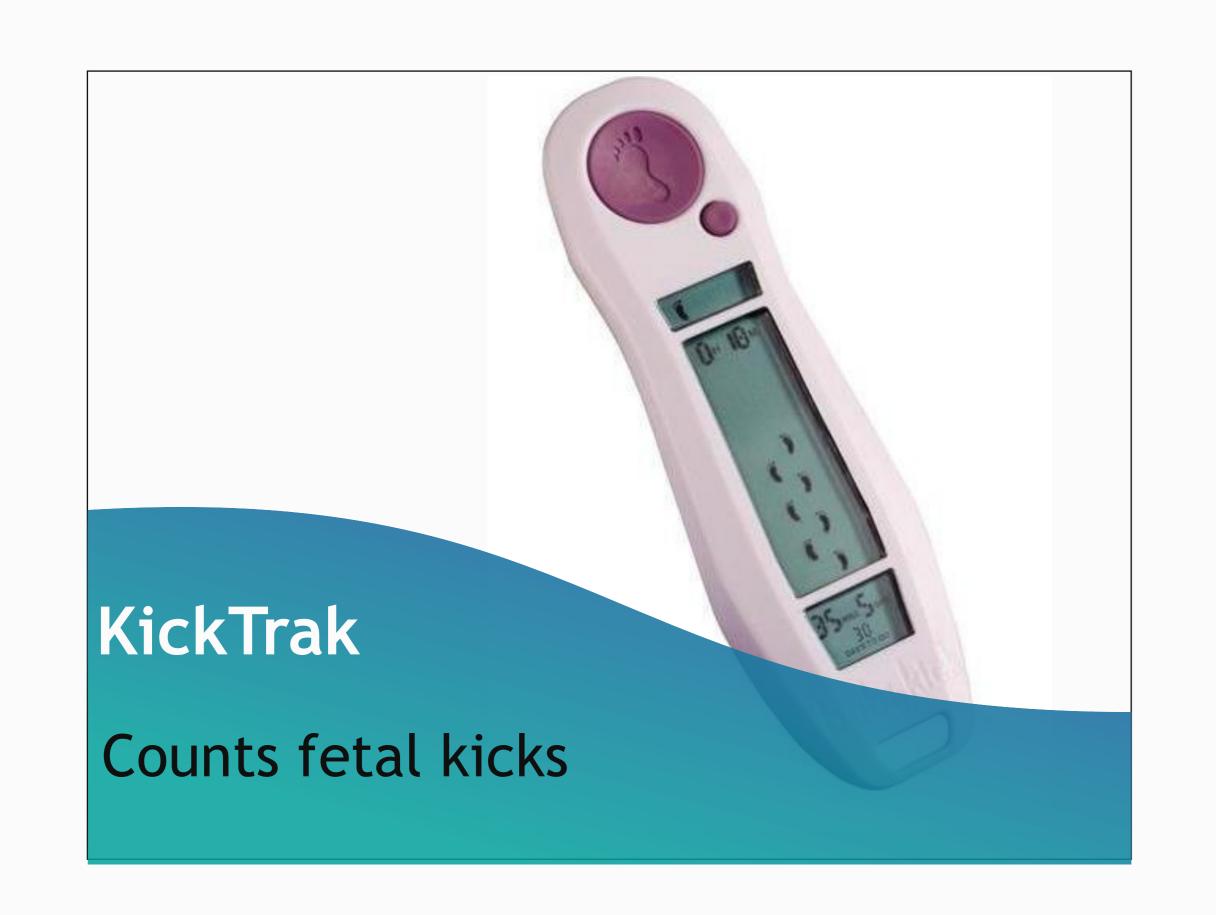


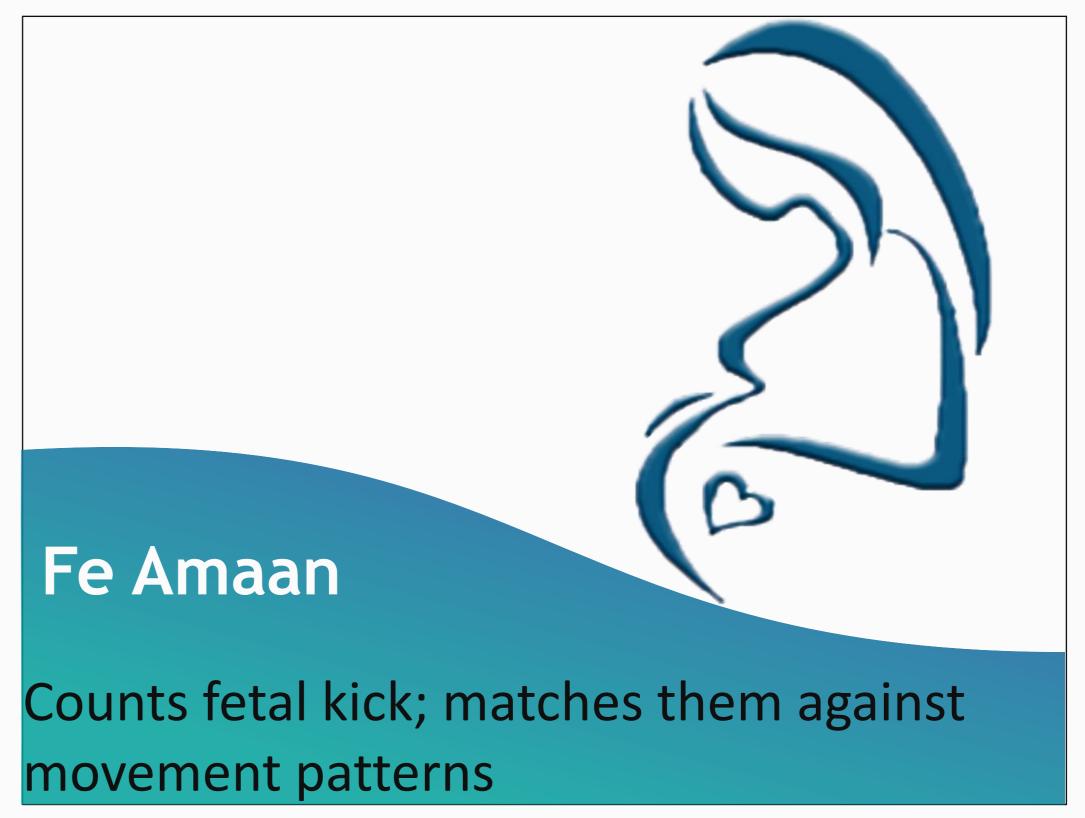














Fe Aman Uniqueness:





Captures fetal heart rate and movement



Realtime

Real time fetal Monitoring



Automated

Automated analysis based on approved medical standards







Fe Aman - Value proposition



Economy

- Low power, low cost
- Can work in constraint environments





Social Impact

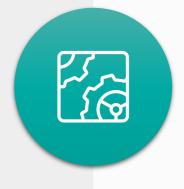
- Assistive Technology
- Helps reduce the gap between patients and doctors
- Reduce inequalities





Environment friendly

- No radiations or other side effects
- Passive safe for mother and child
- Low powered



WE TAKE PRIDE IN OUR Sustainable Development Goals







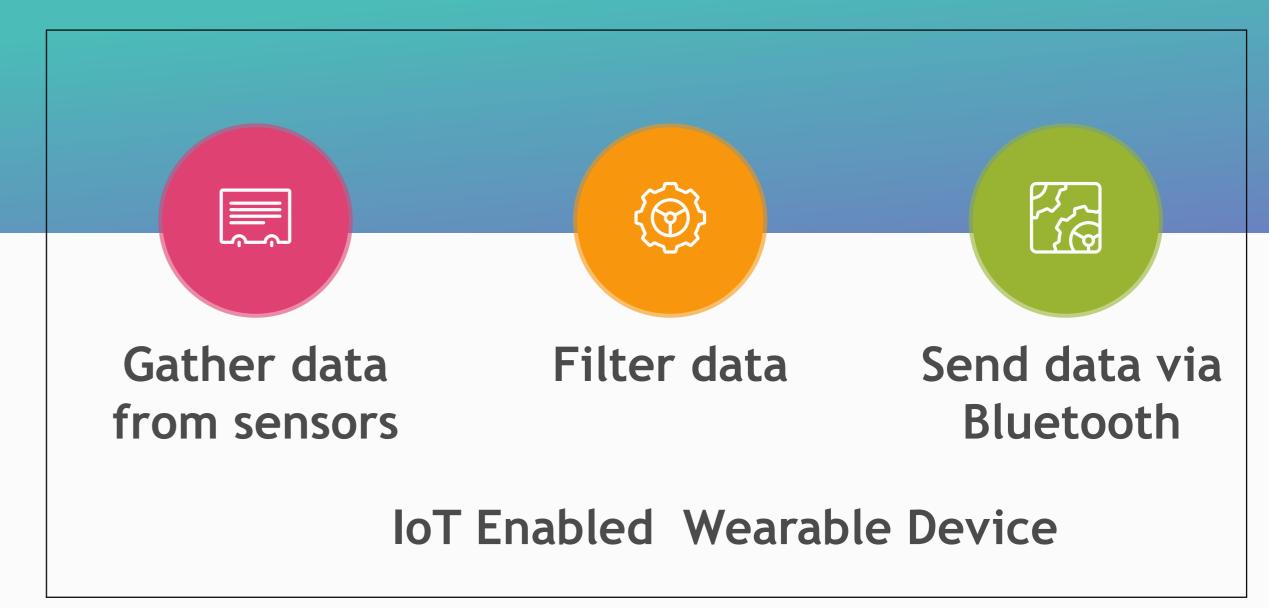


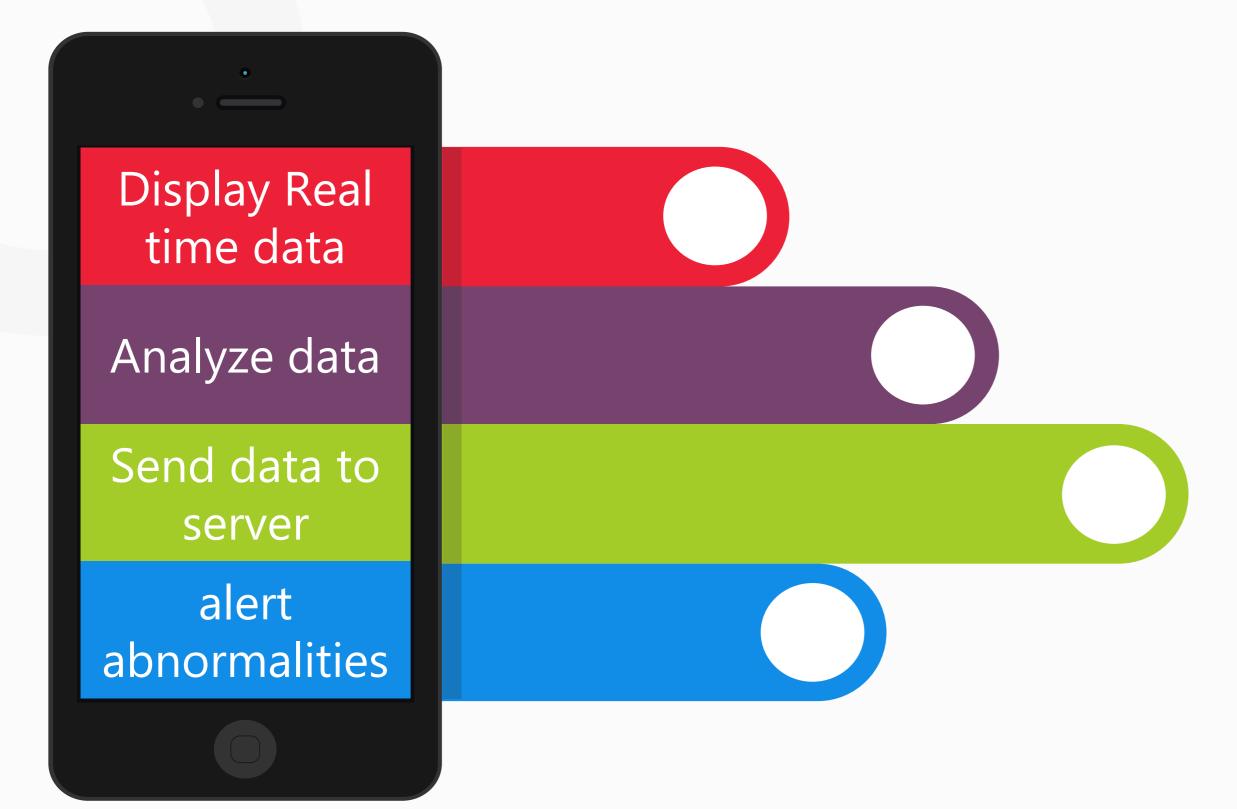


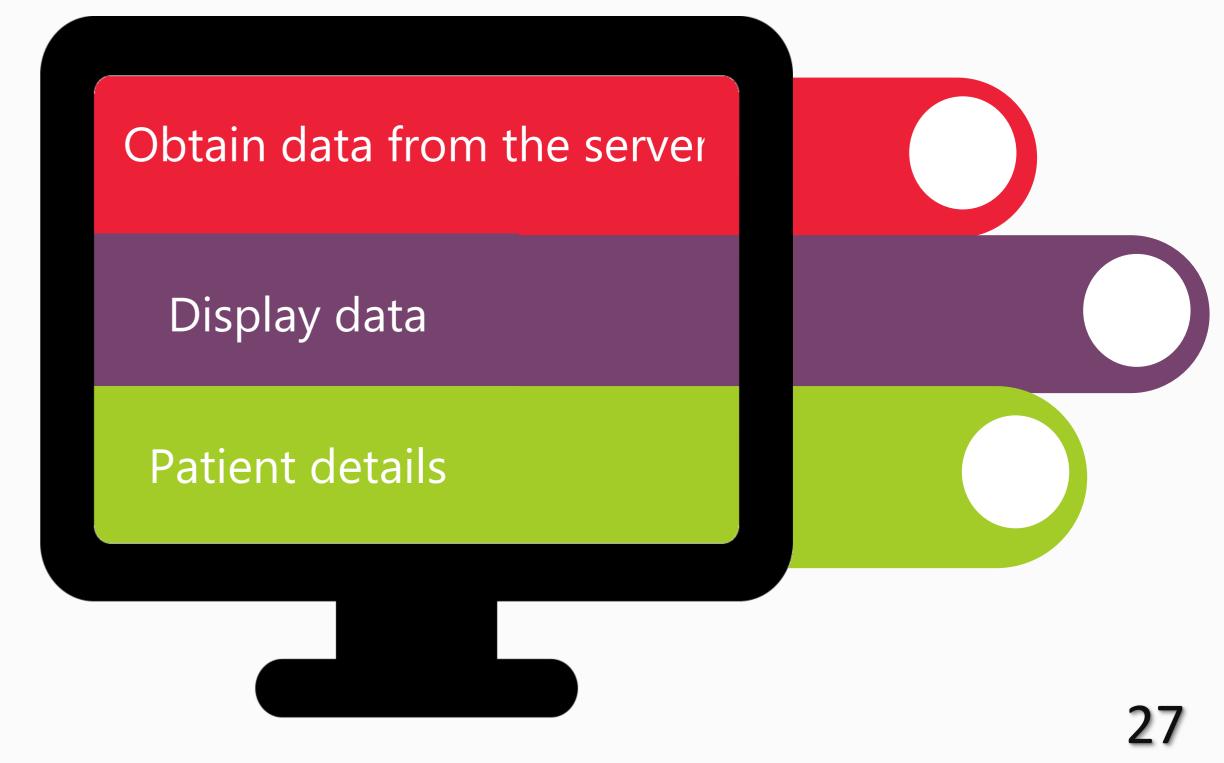




Fe Amaan Functionalities







Fe Amaan Technologies used



Fe Amaan

Features

Web Application: Doctors

- User Profile
- List and profile of all the patients.
- List of all appointments
- History of Patients visits and their associated dose and medicine.
- Location of all the associated Patients.
- Multiple features.

Mobile Application: Family

- Data analytics
- Input timeline and movements.
- Set appointments
- History of appointments and medicines
- Send alerts in case of anomalies

