Improving prenatal screening in rural, low-resource areas

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Our Personas

- rural area
- low income
- farmers

Differences are:

- development and acceptance of health care
- cultures
- language

The Problem

Maternal and child mortality in developing countries are still high.¹

Professional help is:

- rare
- far away, difficult to reach

Devices are:

- expensive
- complicated

The Goal

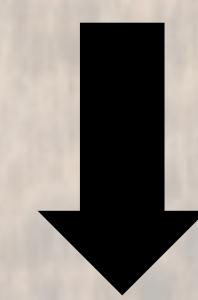
Enable future mothers to perform screening independently, but get professional help if necessary

Our Solution



Go to community centre to screen





If necessary go to health care professional









Redesign

- solar powered
- concentration on essential feature
- understandable for illiterates & literates
- sound output
- self administration

Diseases tackled^{1,2}

- Preeclampsia (high blood pressure)
- Save mother in case of death of foetus
- Identify labours at risk

Costs & Access:

- First, kick-off with MedTech company (PR stunt)
- Later, Agricultural cooperative uses profit to finance health care

Usage

- success stories
 tell a story that illustrates the importance
- hear heart beat of child to feel a connection
- In addition measure maternal BP

Open challenges

- responsibility for the device
- cleaning
- acceptance
- transition to long-term financing

Sources:

- 1) WHO.int, 2018
- 2) US Preventive Service Task Force, 2017

Image sources: dreamstime.com; ensia.com; wikipedia.org