

# AI4Health: Maternal Health Perspective



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# Referral of high risk mother by CHW

- Near term high risk pregnant woman had regular ANC checkup at village level by CHW
- CHW used fetal doppler for measuring FHR
- Identifies heart rate below 100 bpm and consistently low
- CHW convince family to take expecting mother to district hospital
- C-section performed; **baby saved**
- **Doctor surprise on timely referral**





# Technology for last-mile care

**CareMother: Quality pregnancy care solution with decision support tool**



**Fetosense: Wireless digital CTG for fetal monitoring with auto-interpretation**





1L+

Visits made

35K+

Mothers reached

1K+

Villages Covered

10

States Marked

15

NGO Partners

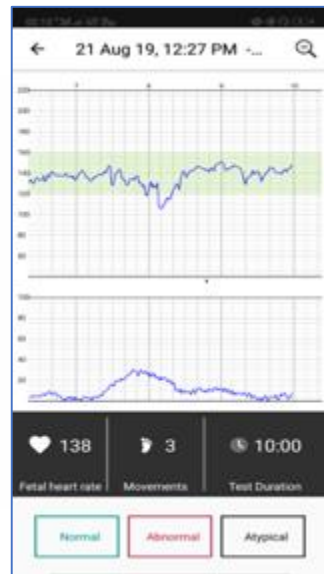
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Govt. Partners

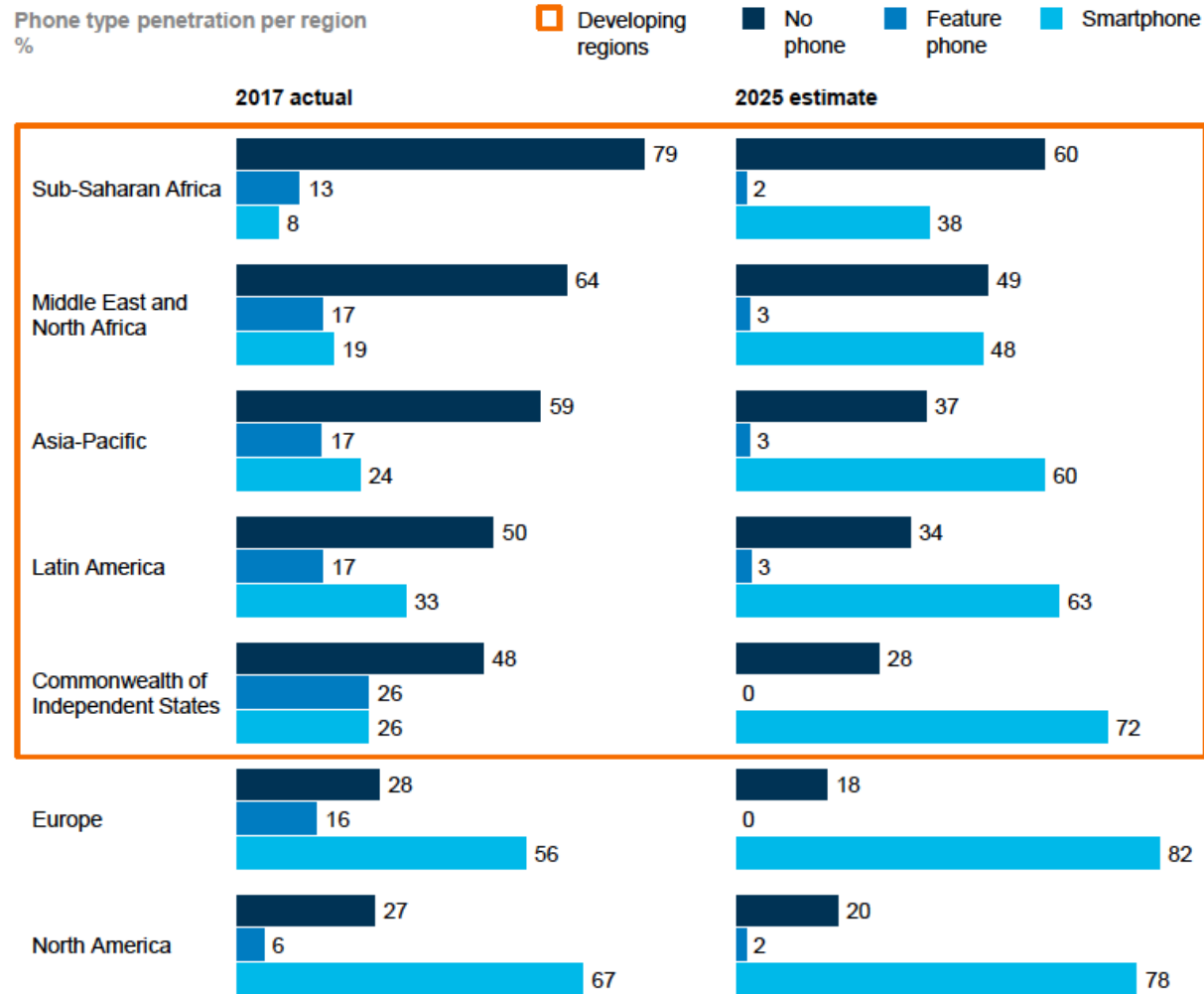
# AI for maternal and child health



- AI powered decision support tool for CHWs and doctors
- Prediction of high risk pregnancy
- Preterm Prediction
- Auto-interpretation of fetal heart monitoring/labor monitoring



# Smartphones and cellular data as Infrastructure



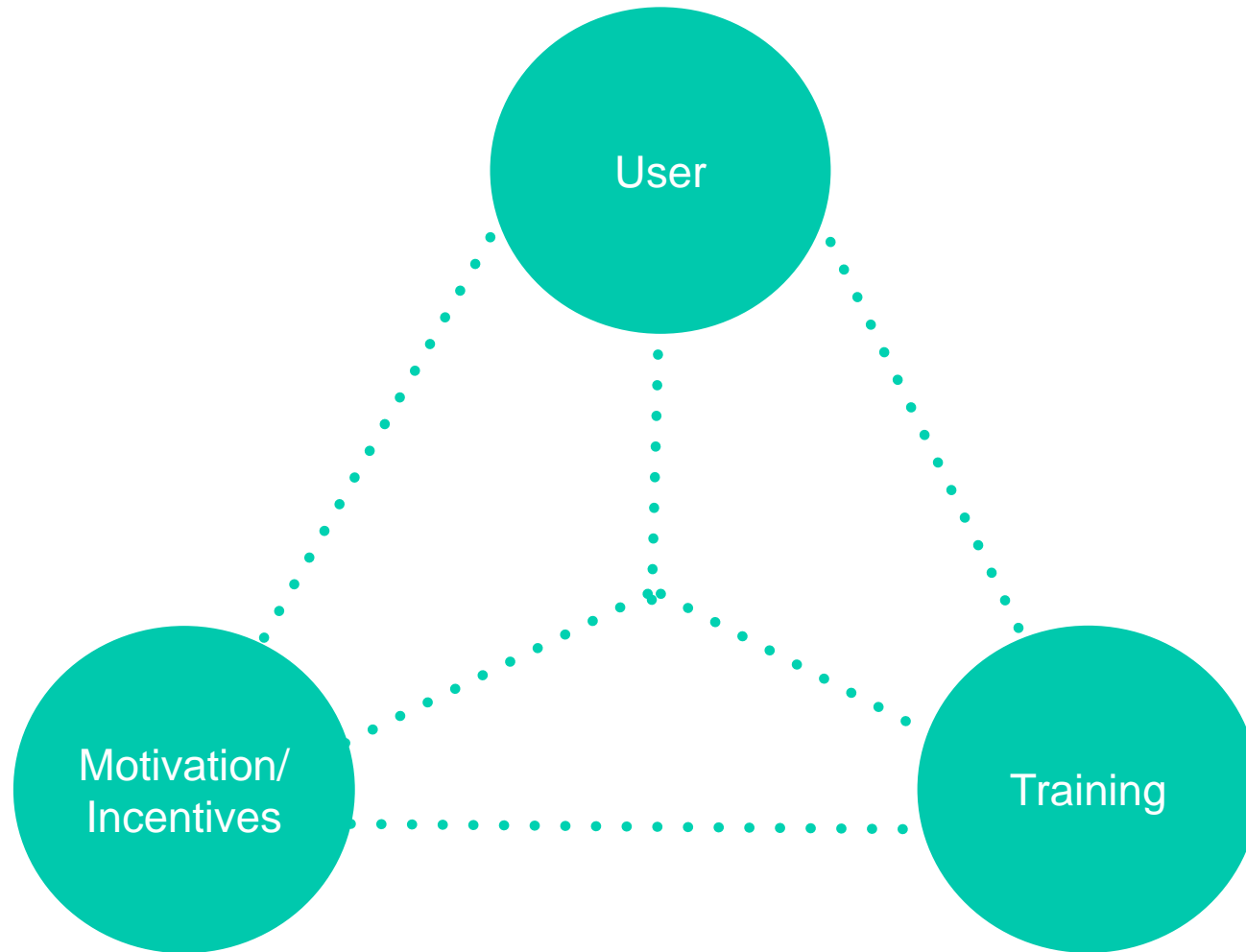
- ANMs/Anganwadi workers are being equipped with smartphones/tablets
- 1 Million+ health-workers collecting data everyday from village level
- Families/Patients can be a source of data directly if digital solutions involve them

‘Design for them’



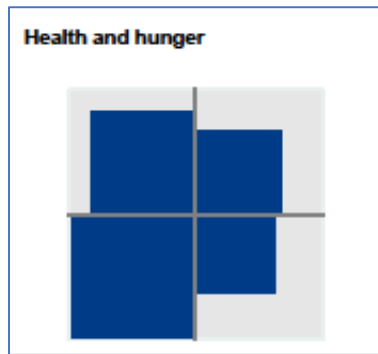
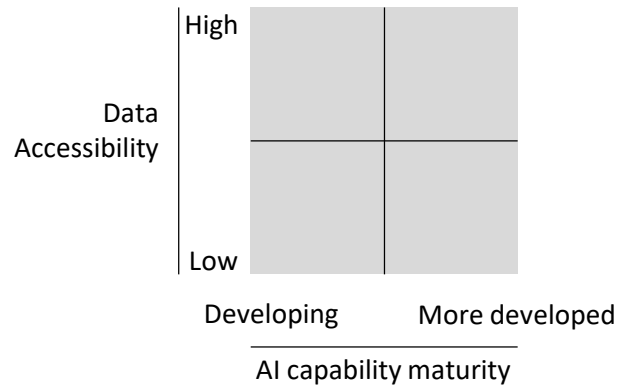


# Design and introduction of technology



# REPORTING Vs INTERVENTION

# Data and Need of AI framework for nation



Source: McKinsey Global Institute Analysis

- Requirement of huge amount of accurate and reliable data
- Biases, Black Box and Results to not known cases etc.
- Control on data source for quality
- Ethical issues

# AI4Health in India need a framework

Platform/sites across country to build and test AI models

Framework supporting quick collaboration and plugin

List of priority problems to solve with AI support

**‘The real test of ‘knowledge’ is not whether it is true, but whether it empowers us!’**

**- Francis Bacon, 1620**



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