

# *Patient Safety in Nigeria*

SOCIETY FOR QUALITY IN HEALTHCARE (SQHN)  
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Bwari Waiting Room

**Healthy**magination applies GE scale  
to transform healthcare by  
incubating innovative, disruptive and  
scalable solutions



**Quality**



**Access**



**Affordability**

**Better health for more people**

# GE's Rural Health Focus – Maternal & Newborn Health (MNH)

- UN MDG's 4&5 target achievement
- Access to health facilities
- Affordable technologies
- Task shifting/Training
- Partnerships
- GE business solutions



Ensuring the Lives of Mothers and Babies

# Nigeria Overview



GE's commitment to better health for all people by improving access, enhancing affordability, and leading in quality healthcare through localized solutions, innovative technologies and partnered advocacy.



## *What we're doing.*

Designing new models of healthcare delivery for localized solutions. Aligning with MOH and SURE-P program for implementation. Focused on MNH and Cancer strategies, products, and training.

## *Why it's important.*

Nigeria continues to face challenges in meeting goals for MDG's 4&5. Ante-natal care critical to impact. Patient need for appropriate technologies in the continuum of care.

## *What the data states.*

- ✓ 88,000+ healthcare workers (approved to deliver ultrasound care)
- ✓ 840 MMR / 39 IMR

## *What's needed to move forward.*

- ✓ Credible, tangible data and model interface to engage governments.
- ✓ Proposed program in support of healthcare goals aligned with local needs.
- ✓ Partnership strategy for sustainability.
- ✓ Funding model.

# Rural Product Solutions



Mothers face...

## Delay in Seeking Care

Ignorant of risks due to lack of diagnostics



Triage

## Delay in Reaching Care

No life support in transit to the facility



Transport

## Delay in Receiving Care

Facilities lack adequate equipment & training



Treatment

We deliver...

Location...

*District Hospital*

*Health Centre*

*Rural Clinic & Health Para-professional*

Products...

- Vscan US
- Pulse Oximetry
- Lullaby Incubator
- Anesthesia CS30

- Vscan US
- Lullaby Infant Warmer
- Lullaby LED Phototherapy
- Infant Resuscitation Device

- Vscan US
- Embrace Warmer
- Infant Resuscitation Device



*Impacting the Continuum of Care*

# Proof Points Tanzania Research Study

# Midwives Using Handheld Ultrasound to Improve MNH in Rural Tanzania

INNOVATION | IMPLEMENTATION | IMPACT



imagination at work



# The Challenge







## Global Challenge

Poor infrastructure

Few healthcare professionals

Limited health facilities

Financial challenge

## Tanzania's Challenge

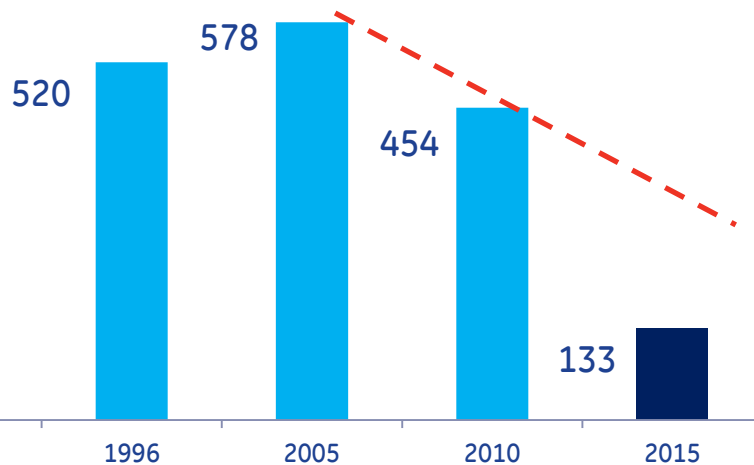
Women still deliver at home

Maternal morbidity and mortality still very high

Nurse midwives do not have the proper technology at hand

MDG targets likely to be missed

MMR Trend in Tanzania



# The Innovation





# Global Healthcare Reform

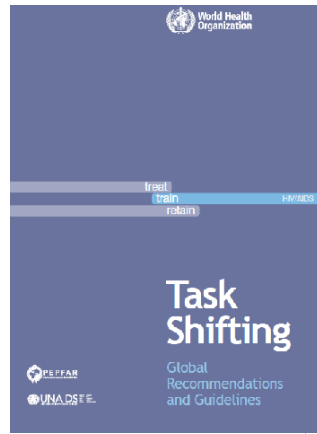
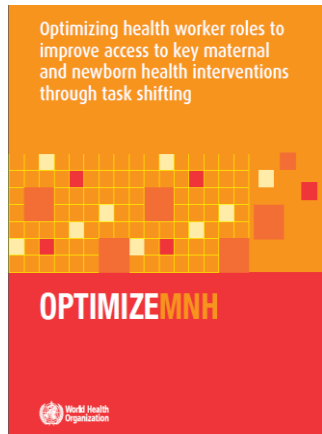
Task-shifting in health systems

Local incentives to retain staff in rural areas

Increase in healthcare staff and community health facilities.

External funding resources

The “Big push”



# GE's Innovation Reform

Low-cost disruptive technologies

Vscan & Venue 40 training for nurses & midwives

Research studies across the globe to collect data from integrated health system network



# The Implementation



# Enhancing Training and Appropriate Technologies for Mothers and Babies in Africa



**Study design:** This is a cohort study with two arms: interventional and control

**Aim:** This research study aims to measure the acceptability, feasibility, impact and cost-effectiveness of ultrasound technology on maternal health in low resource settings

**Location:** Tanzania, Kisarawe district Rural Health clinics and dispensaries

**Objectives:** To measure whether use of ultrasound increases the number of ANC visits by pregnant women at the dispensary level

To measure the cost-effectiveness of using ultrasound technology at dispensary and health centre levels

**Devices:** Vscan & Venue 40

**Use:** To detect fetal presentation, placenta, twins, and location

**User:** Nurse Midwives



# The Impact





## Training of Nurse Midwives

Midwives were trained on the use of portable U/S in 98 hours over 10 days

Training was divided into lectures and practical sessions

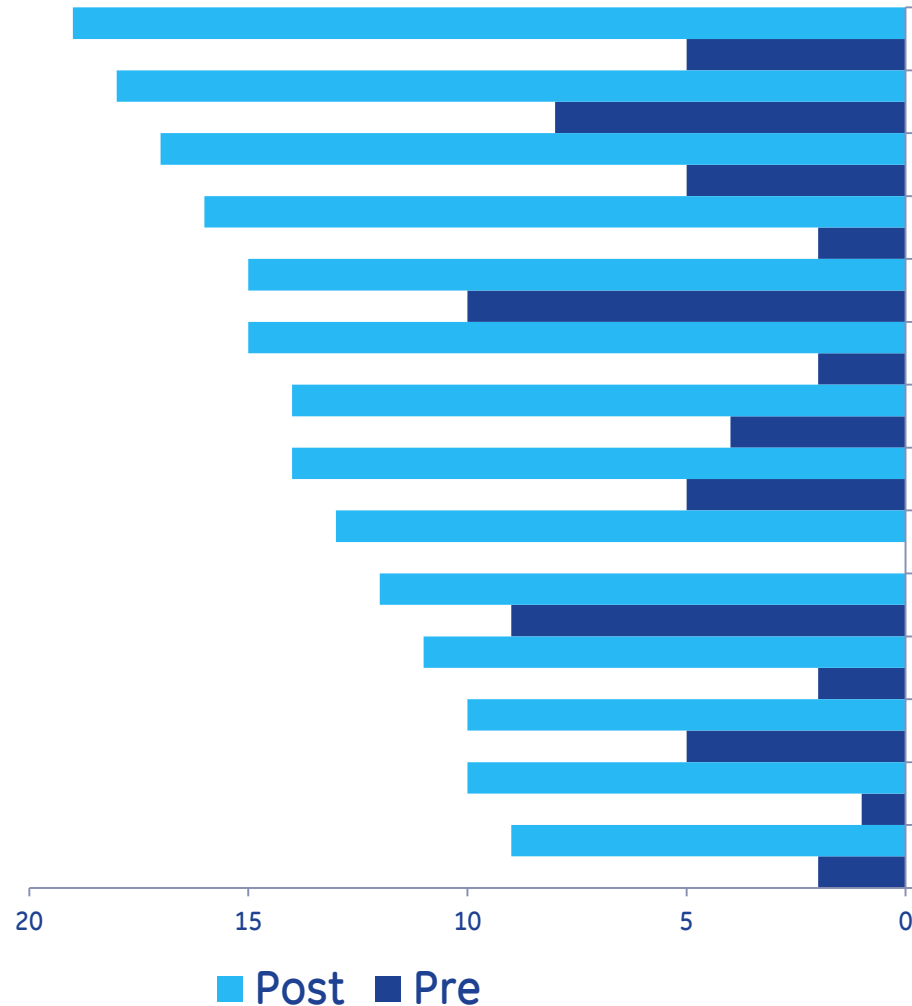
5 facilitators, 2 with local language capabilities, trained 14 participants who work within the continuum of maternal healthcare

A total of 16 U/S topics were covered.

Performing independent scanning, Using anatomical and sonographic terminology

Post-training assessment scores ranged from 9 -19, average 14 vs. 5 in pre-training

## Pre & Post Training Assessment





## Impact on society

There has been an increased uptake of antenatal services

754 women have been scanned

146 complications have been identified

Referrals were made for all complications and followed up for compliance

*'This ultrasound training is very new to me. The community will be greatly benefitted by this new technology and I am happy that I was chosen to do this training' - Sitakiwi: Medical Assistant, Gwata Dispensary*

## Key takeaways

Lower-mid tier health care providers can learn to perform sonographic procedures following a short training period

More mothers can be referred to EmONC centres where SBAs can attend and facilitate safer delivery

Properly equipping midwives with the appropriate technologies to deliver quality care is critical







imagination at work