

## Philips SmartSweep

### **AI-guided ultrasound that helps frontline caregivers identify pregnancy risks earlier**

#### **What it is**

Philips is developing an AI enabled tool, the Philips SmartSweep Application, which uses robustly trained AI algorithms to interpret imagery data designed for use in low-resource primary care settings.

#### **The need it addresses**

Each day, nearly 700 women around the world die from preventable causes related to pregnancy and childbirth, with 95% of maternal deaths happening in low-middle-income countries (LMIC). Affordable access to high quality maternal care, during and following pregnancy and childbirth, can help reduce these high mortality rates.

World Health Organization recommending at least one ultrasound scan before 24 weeks of gestation for pregnant women to evaluate gestational age and improve detection of fetal abnormalities with greater confidence. But for many women living in maternity care deserts, there may not be a trained sonographer nearby to do the test.

Many LMIC health systems continue to face following challenges:

- Delayed identification of high-risk pregnancies
- Limited access to diagnostic expertise in rural settings
- Shortages of trained specialists and sonographers
- Weak referral coordination across care levels
- Inconsistent quality of antenatal care
- Geographic inequities in maternal health access

That's where SmartSweep could make an impact.

## How it works

The AI-guided software can simplify operation for midwives and nurses in low-resource settings, support decision-making at the point of care including timely referrals, and ensure consistent higher risk pregnancy detection.

The solution allows nurse/midwives to conduct early pregnancy assessments at primary care centers using simple workflows and AI-driven automated measurements, eliminating the need for extensive training.

SmartSweep is not merely a technology deployment; it is a maternal health system strengthening intervention designed to improve early risk identification, empower frontline workers, and strengthen referral-based continuity of care in underserved settings



## What AI does

- AI Guided Assessments require no image interpretation
- Enable timely referrals and early detection of risks
- Designed for scale and sustainability with minimal training needs

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## Who it's for and key benefits

- **For low-middle income countries:** where family planning and reproductive initiatives are top government priorities
- **For nurse midwives:** in remote settings, where training for ultrasound is not an accessible option.
- **For pregnant mothers:** in remote settings, where traveling to a higher level facility is not the first option
- **For fragile healthcare systems:** where resources are limited

## Sources (Philips)

- [Maternal mortality](#)
- [More women and children survive today than ever before – UN report](#)
- [Smartsweep.pdf](#)

## For more information:

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