



Asia Overview



MEDTRONIC LABS

About Medtronic LABS

Medtronic LABS is a health systems innovator with the mission to expand access to healthcare for underserved people across the world. We design and implement tech-powered healthcare delivery models with Ministries of Health that strengthen and extend health systems into local communities to deliver measurable population health outcomes.

Our Programs

Medtronic LABS is an independent non-profit (501c3) organization with entities and programs in Kenya, Tanzania, Rwanda, Ghana, Sierra Leone, Bhutan, Bangladesh, and the United States. To date, we have reached over 1.4M patients, improved outcomes for over 100,000 patients, and trained over 8,000 health workers. We're creating lasting outcomes – covering the entire range of community-based care, including hypertension, diabetes, mental health, malaria, TB, HIV, maternal health, and disabilities.

678K

PATIENTS SCREENED

241K

PATIENTS ENROLLED

124K

LIVES IMPROVED

9,000

HEALTH WORKERS
TRAINED

HEAR, LISTEN, and
SPEAK Bhutan

NCD 360
Bangladesh

Not a comprehensive list

Partners

GOVERNMENT

- ▶ Ministry of Health, Kenya
- ▶ Ministry of Health, Rwanda
- ▶ Ministry of Health, Sierra Leone
- ▶ Ministry of Health, Bangladesh
- ▶ Rwanda Biomedical Center (RBC)
- ▶ Ghana Health Service

HEALTH SYSTEMS

- ▶ Christian Health Association of Ghana
- ▶ Christian Health Association of Sierra Leone
- ▶ Christian Social Services Commission, Tanzania
- ▶ Novartis

TECHNOLOGY PARTNERS

- ▶ Causal Foundry
- ▶ Google
- ▶ Dell Technologies
- ▶ A2I, Bangladesh
- ▶ AWS

NGOS AND FOUNDATIONS

- ▶ Patrick J. McGovern Foundation
- ▶ McGovern Foundation
- ▶ BRAC
- ▶ Harvard School of Public Health

DEVELOPMENT AND ECOSYSTEM PARTNERS

- ▶ KOICA
- ▶ The Global Fund
- ▶ Africa CDC
- ▶ UNICEF
- ▶ WHO Diabetes Compact
- ▶ NCD Alliance

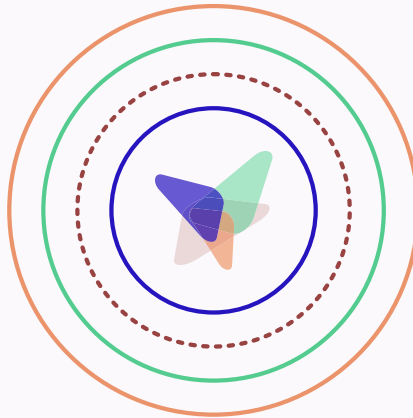
PRIVATE SECTOR

- ▶ Novo Nordisk
- ▶ Sanofi
- ▶ Roche

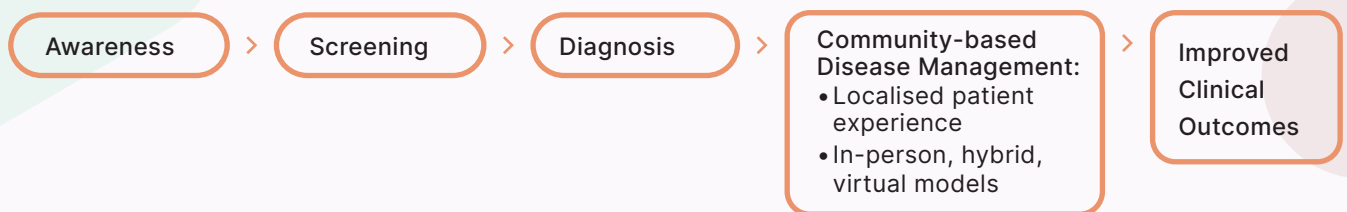
Our Solution

Combining software, point-of-care toolkits, and targeted health system strengthening we drive and deliver health outcomes by leveraging cutting-edge digital technologies to transform last-mile healthcare delivery over the long-term.

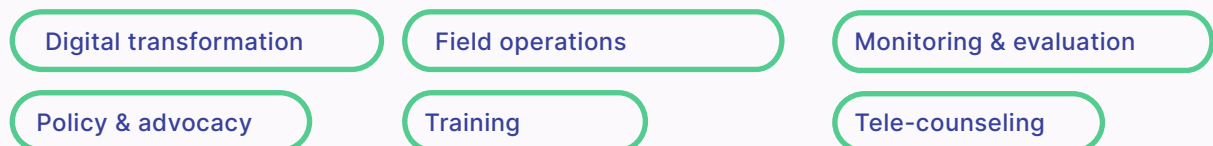
- Patient Experience
- Health System Strengthening
- Point-of-care Toolkits
- Spice Technology Platform



○ PATIENT EXPERIENCE



○ HEALTH SYSTEM STRENGTHENING



○ POINT-OF-CARE TOOLKITS

PARTNERS



○ SPICE PLATFORM MODULES



Our Product - SPICE

Meet SPICE, the first open-source digital platform designed to support a new era of data-driven community healthcare delivery. We go beyond the commonly used CHW 'survey tools', to ensure that all community-based activities are linked to the health system and are driven by clinical needs for smarter resource allocation and better health outcomes. In 2023, we will become the first digital global good for precision population health.



SPICE Core

Is our community-based platform for data-driven population health. We leverage clinical algorithms to screen, refer, and manage patients based on clinical risk, transforming care delivery from reactive to proactive. With SPICE, community-based work is linked bi-directionally to the rest of the health system.

Key Features: regional customizability, offline first, clinical algorithms, decision support

Clinical areas: Hypertension, diabetes, mental health, maternal health, HIV, TB

Health System Users: Community health workers, nurses, doctors, pharmacists, lab technicians, nutritionists



SPICE Engage

Is our patient engagement platform designed to drive patient interactions that generate results. Designed with busy health workers in mind, it allows for targeted patient follow-up at every stage of the patient journey to ensure patients are getting the support they need for better health outcomes.

Key Features: Tele counselling, automated SMS, two-way SMS

Health System Users: Tele counsellors, health system staff trained on patient engagement



SPICE Insights

Is our data analytics platform designed to deliver the right information to the right stakeholder at the right time. From clinical outcomes to operational KPIs SPICE Insights is designed to make data useful at every level of the health system.

Key Features: data visualizations and dashboards for operational and clinical KPIs, MoH report downloads, customizability for user and level of health system.

Health System Users: National policymakers, local government, health facility administrators.



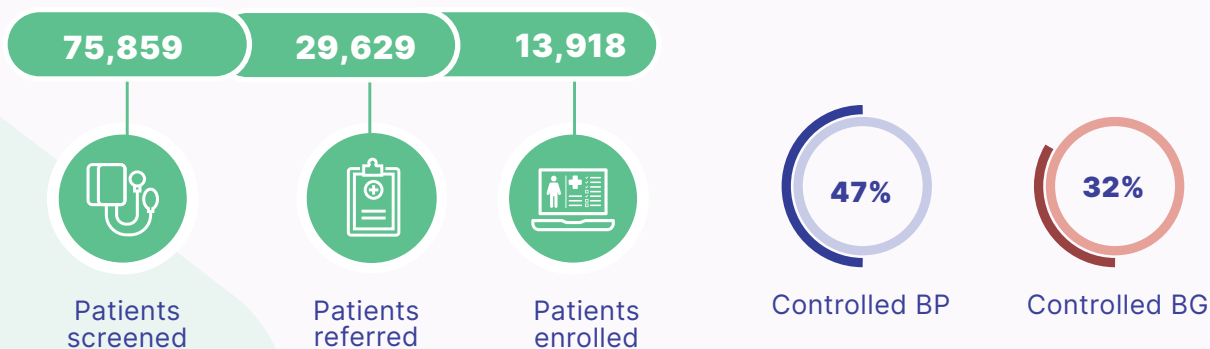
SPICE Connect

Is at the core of our strategy for integration and partnership within the technology ecosystem. Our ongoing work on easy-to-implement and standards-based integrations from national level reporting systems like DHIS2 and EMRs to other technology platforms sets us apart. We aim to build a collaborative tech ecosystem wherever we work.

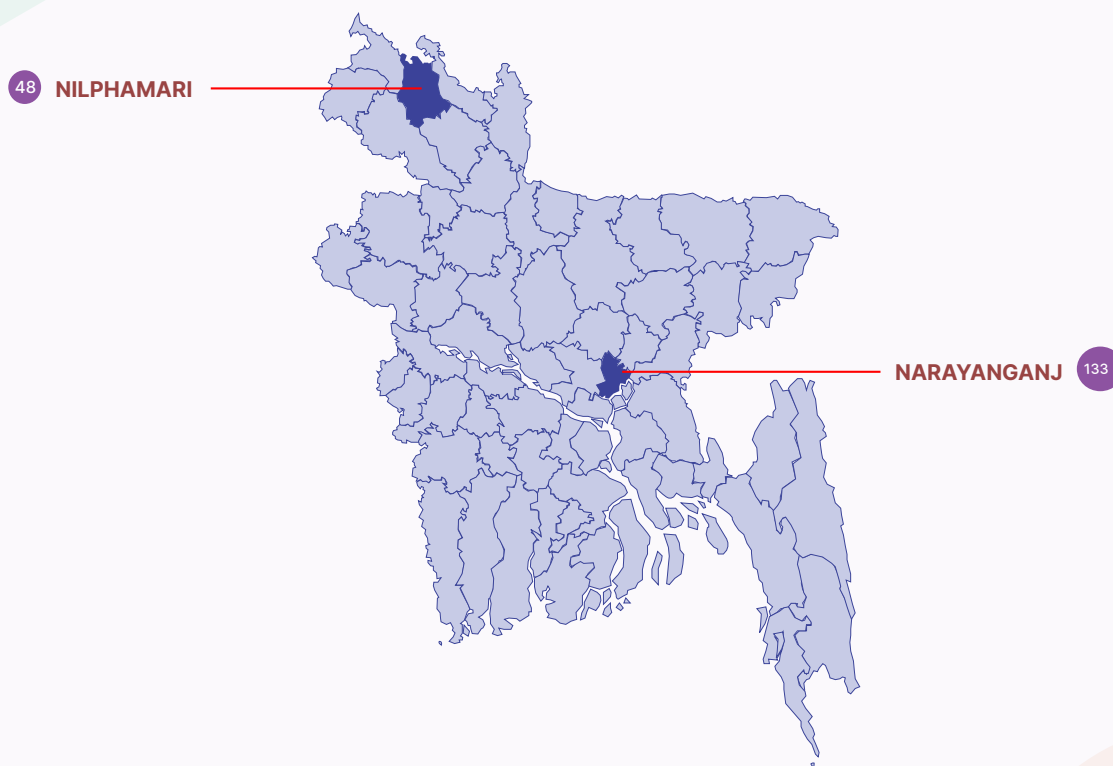
Bangladesh

NCD 360

Our work in Bangladesh is a true multi-stakeholder partnership with BRAC and the government of Bangladesh. Medtronic LABS is adapting the SPICE technology to Bangladesh, BRAC is supporting implementation, and the Ministry of Health and A2I are driving alignment with national strategies. With close partnership with the government, we aim for national scale in the coming years alongside additional partners.



Distribution of SPICE Supported Facilities by Regions



181 Upazila Facilities Supported

Partners

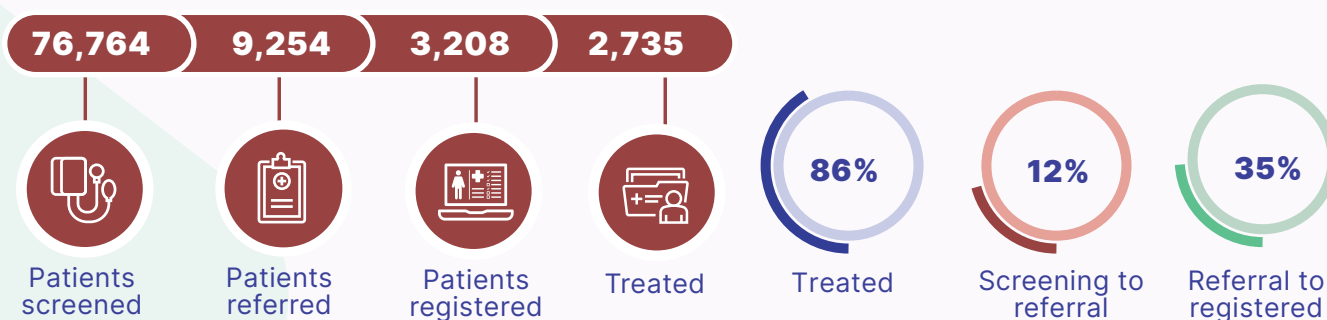
- BRAC
- Novo Nordisk
- Ministry of Health & Family Welfare, Bangladesh

Bhutan

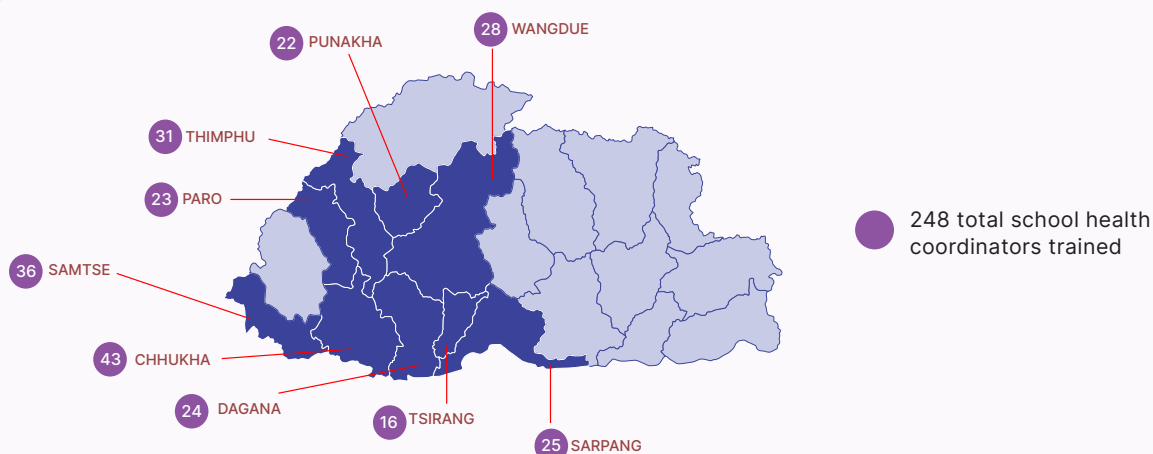
Hear, Listen, and Speak

The Hear, Listen and Speak Program is a country-level comprehensive ear care model, leveraging multi-stakeholder partnerships. The program screens for early detection of hearing loss in children and provides free hearing aids with a customized earmold to those diagnosed with hearing loss. Prior to this program, screening and intervention was only conducted in hospitals causing late identification of hearing issues.

Health workers conduct community and school screenings using Medtronic LABS' portable screening and digital patient management technologies. Medtronic LABS also educates Bhutanese health workers on the usage of these technologies to ensure a sustainable ear care continuum is established.



Total School Health Coordinators Trained by Regions



Partners

- ▶ Austrian Development Agency
- ▶ The United Nations Technology Bank (UNTB)
- ▶ MED-EL
- ▶ Ministry of Health, Bhutan
- ▶ Royal Government of Bhutan
- ▶ The Sherig Bhutan
- ▶ UN Technology Bank For Least Developed Countries
- ▶ Medtronic Labs
- ▶ UNICEF Bhutan
- ▶ United RCO
- ▶ Ministry of Education
- ▶ JDWNRH
- ▶ HtWF
- ▶ Charite Berlin
- ▶ GN Resound

Key Program Features

A custom designed smart otoscope + a telemedicine application:

- ▶ Offline-first capabilities
- ▶ 3g/WiFi network connectivity for data transfer and storage to cloud
- ▶ Capture, stores and uploads high resolution images of tympanic membrane
- ▶ Digital hearing aid and fitting capabilities
- ▶ Enable Field Audiometry evaluation using a calibrated handset
- ▶ Portable and robust design for easy use in field
- ▶ Rechargeable batteries for prolonged usage
- ▶ Comfortable for children

Sustainability Framework

To execute on our approach to sustainability, we will support health system functions in building capacity so that the mix of activity ownership transitions from Medtronic LABS to health systems and Ministries of Health over time.

Medtronic LABS

Community health workers

Health facility staff

County and National government

YEAR 1-2

YEAR 3-4

YEAR 5+

SYSTEM STRENGTHENING PHASES

RAMP UP PHASE

OPTIMIZE PHASE

SUSTAIN PHASE

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Global health, local solutions

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