FHI 360 Mobile Solutions

FHI 360 uses the multiplying effect of technology to further the impact of everything we do. Information and communication technology helps us make and expand connections to build and sustain relationships. It increases access to information, improves practice and facilitates interaction among many stakeholders. No technologies have had such rapid and wide-ranging impact on international development as the combination of mobile phones and the internet.

Our ICT4D team designs Mobile Solutions that make projects more successful at meeting their human development goals. Working collaboratively with colleagues, partners, and stakeholders, we help to define project requirements and build innovative, sustainable information and communications systems. We design and deploy targeted solutions for efficient data collection, reporting, analysis and robust information dissemination.

FHI 360 uses cost-effective, field-proven platforms that meet local needs and align with country-specific strategies. Because we stay abreast of technology innovation, we can assess available options and choose products that can be adapted to the requirements of individual projects, brought to scale, and sustained. When appropriate technologies have not yet evolved, we build our own.

Our technology solutions feature in health, education, agriculture, and livelihoods projects, and support FHI 360's commitment to intentional, integrated development with cross-cutting, multi-faceted approaches that amplify the impact of our efforts to make an enduring difference in people's lives.
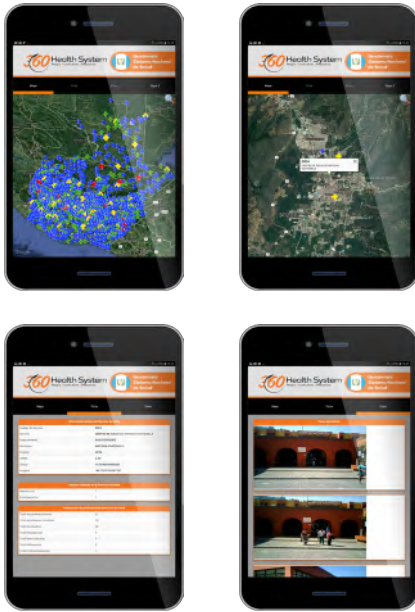
CONTACT US

All development projects need to collect and analyze data, exchange information, and share knowledge. For some, using paper and pen makes sense. For the others, ask FHI 360 how mobile technology can help your program run better and have more impact.

Contact **digdev@fhi360.org**

fhi360

THE SCIENCE OF IMPROVING LIVES

Mobile Data Collection Solutions

Gathering and measuring information in a systematic fashion enables project managers to answer relevant questions and evaluate outcomes. Mobile data collection improves accuracy, credibility, and speed of reporting regardless of the discipline or whether the data is intended for program management or evaluation.

At FHI 360, we've deployed dozens of customized digital data collection instruments using free and open source platforms that guide the workflow, utilize data validation, and capture images, voice recordings, GPS coordinates, and ID numbers from bar codes to extend the range of data gathered. We've addressed data collection challenges large and small across a broad spectrum of development disciplines and geographies.

For example, the **Climate Change Adaptation and ICT** (CHAI) project was designed to strengthen the capacity of agro-pastoral communities in semi-arid areas of Uganda to adapt to the impacts of climate variability and change. CHAI uses mobile phone based tools to gather weekly crop and livestock market information and ICT solutions for the collection and analysis of data and the dissemination of adaptation information in local languages to more than 200,000 farmers. The CHAI project won the prestigious United Nations Convention for Climate Change Momentum for Change award during the 21st Conference of Parties in Paris (2015).

Other initiatives benefiting from FHI 360 technical assistance with data collection include projects to deploy mobile technology to conduct market observation and consumer surveys related to emerging pandemic diseases as part of the PREVENT initiative (DRC and the Republic of Congo); to support the decentralized management of school construction projects (Mali); to survey MARPs on the social media sites they visit to get health information (Jamaica and the Bahamas); to generate data describing the HIV epidemic and assess the access to, utilization of, and unmet need for HIV intervention services among 17,000 adults and children in 3,000 households (Nigeria); and to gather integrated health data from over 2,500 households and 100 health care facilities (Burundi).

Photo: Berhane Gebru FHI 360

ALL OF OUR WORK IS GUIDED BY THE PRINCIPLES FOR DIGITAL DEVELOPMENT

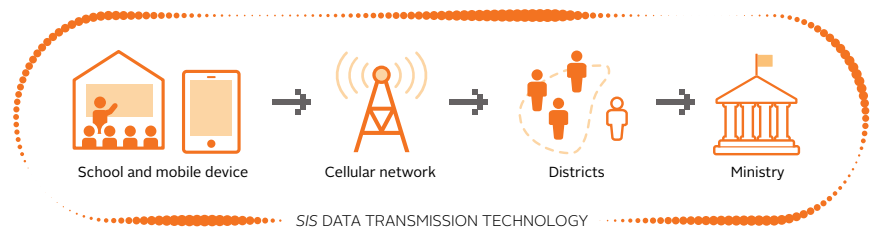|	
1.	Design with the User
2.	Understand the Existing Ecosystem
3.	Design for Scale
4.	Build for Sustainability
5.	Be Data Driven
6.	Use Open Standards, Open Data, Open Source, and Open Innovation
7.	Reuse and Improve
8.	Address Privacy and Security
9.	Be Collaborative
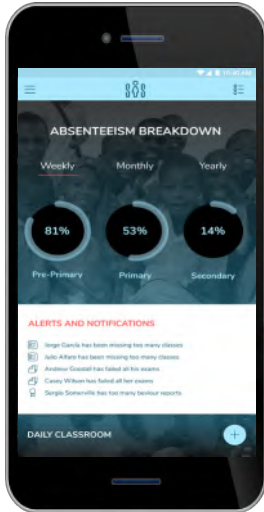
m360 Mobile Platform

The m360 Mobile Platform is built to run on Android-based tablets and smartphones and has been used in education and health sector projects to:

- Collect, analyze and visualize data online or offline
- Produce instant dashboards and analytics
- Support GIS mapping and verification

The **m360 Mobile Platform** offers superior data cleanliness, is highly effective in remote environments and post-conflict and crisis contexts to provide access to accurate, reliable and timely data for decision making. For example, to help establish an integrated, national education management information system in Tanzania that collects data from schools with little or no connectivity, the **Education Quality Improvement Program-Tanzania** (EQUIP-T) project is applying the m360 School Information System (SIS) from its Android-based m360 platform. By collecting and transmitting data in real time via the mobile internet or SMS, m360 SIS is helping schools monitor infrastructure data, teacher and student performance, enrollment, daily attendance and other school management activities. m360 SIS is also making this information accessible to all administrative levels in the Tanzania education system. Operating in more than 4,000 schools, m360 SIS is reducing absenteeism, supporting school-level management and promoting more efficient policy and planning decision making.

FEATURES AND OPERATION OF m360 SIS

Baseline	Collects and maintains a database with school characteristics, teacher records and student enrollment
Daily Classroom	Collects and maintains a database with student attendance and evaluation and behavior records
Finance	Collects and maintains a database with school capitation grants
Reports	School-level visualizations of teacher records, student attendance, and evaluation and behavior records
Transmission	Automatically transmits a full database using SMS or low-bandwidth internet

School and mobile device → Cellular network → Districts → Ministry

SIS DATA TRANSMISSION TECHNOLOGY

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Referral and Case Management Applications

FHI 360 has designed, developed and deployed ICT-based referral and case management solutions to support health projects in multiple initiatives. These mobile device-based applications are built to facilitate communications among service providers at various levels within a system delivering care to the same clients. In Zambia, Tanzania, Burundi and Mozambique, FHI 360 digital solutions include both mobile-based referral applications that link community-based healthcare providers with health facilities and client-tracking applications to support community-based care of patients with HIV and their family members. In Ghana and Vietnam, similar multi-faceted systems were developed and deployed to address chronic non-infectious diseases.

The **Boresha Afya Southern Zone Activity** supports the Government of Tanzania to increase access to comprehensive, integrated preventative and curative services related to HIV/AIDS, tuberculosis, family planning, malaria, maternal and child health, and nutrition. FHI 360 enabled the development of digital health interventions targeting community-based health workers for enhancing health service delivery efficiency; improving data collection accuracy, reliability, and speed; disseminating and/or exchanging information on demand; and facilitating communications across different levels of the health system and with clients.

Integrated Development Solutions

Working from the prospective that everything is connected — health, education, nutrition, environment, gender, technology and more — FHI 360 combines multiple information technologies and communications channels in solutions designed to address the multi-faceted needs of integrated development projects. We leverage your investments in equipment and infrastructure to provide a wide range of valuable services and information resources to the end users.

For example, the **Wireless Solutions for Fishery in Senegal** (WISE), an integrated project that supports fishermen and women fish processors, provides small business people with voice activated mobile device based applications that deliver market data, education on fish processing best practices, mobile finance services, weather and navigation resources, and improved security and safety through geo-fencing, mobile-based hazard notification, and SOS alerts with GPS coordinates.
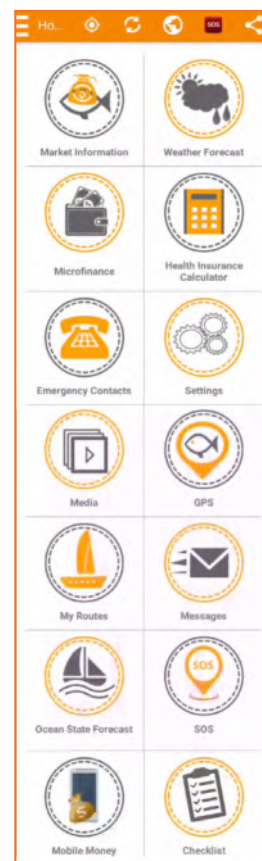
WISE MOBILE APP

✉ **Contact us: digdev@fhi360.org**