2008 USAID Development 2.0 Challenge submissions
HEALTH
Entries 1-20

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1) Angel Eyes Mobile (by Hospitals of Hope)

Purpose: Allows doctors in the developing world to consult with medical experts worldwide on difficult cases using web-enabled phones.

Where it has worked: System not yet implemented or tested.

Business model: Not specified.

Tech approach: Using web-enabled phones, doctors can remotely log on and view a patient's vitals, along with a video feed from the hospital.

Other Partners/Funding Sources: Spacelabs Healthcare

Project URL: http://www.hospitalsofhope.org/angeleyesmobile.htm

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2) CellDR (by Sanford Institute of Public Policy and International Development- Duke University)

Purpose: Increases access for underserved populations in need of medical advice, consultation, and referral.

Where it has worked: Not specified.

Business model: Not specified.

Tech approach: A "triage" center is staffed by health workers who used an algorithm-based software to make diagnoses and provide referrals for patients remotely.

Other Partners/Funding Sources: Not specified.

Project URL: n/a

Contact Info:

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3) RapidSMS: Child Malnutrition Surveillance (**DEVELOPMENT 2.0 CHALLENGE WINNER**)

Purpose: Transmits nutritional data from growth monitoring clinics in Malawi to government and UNICEF databases, while providing instant feedback to mothers on the changing status of their child's growth.

Where it has worked: RapidSMS system has been used in Uganda, among other countries.

Business model: Not specified, outside of donor funding/support.

Tech approach: Nutritional data reporting via SMS to backend database/server in country.

Other partners/funding sources: UNICEF

Project URL: n/a

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4) ClaimsMobile: Mobile Medical Claims Management for Output-Based Healthcare

Purpose: Addresses skewed incentives for healthcare providers by allowing reimbursement of clinics for services provided.

Where it has worked: Not specified.

Business model: Not specified.

Tech approach: Smart phones feed data to back-end data system fronted by a web application.

Other partners/funding sources: Not specified.

Project URL: http://oba-uganda.net

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5) ClickDiagnostics: A Micro-Entrepreneurship Based Model to Transform Healthcare Delivery Through Mobile Telemedicine (**DEVELOPMENT 2.0 CHALLENGE RUNNER-UP**)

Purpose: Enables existing health-worker networks and micro-entrepreneurs to provide advanced medical consultation and to gather health data by connecting them to our global health servers via mobile phones.

Where it has worked: Mobile tele-dermatology and screening of pregnant women at risk for complications carried out in some of the following countries using ClickDiagnostics system: Botswana, Malawi, Egypt, Ghana, and Bangladesh.

Business model: Not specified.

Tech approach: Low cost smart-phone sold on a micro-franchise basis to community based health workers who use system to provide remote diagnostic and other services at the community level. Team eventually hopes to link software to an ecosystem of service applications in a "Facebook" model. Nominal fees are paid by patients seeking consultations and by recipients of data (such as NGOs, governments, etc.)

Other partners/funding sources: Telederm/Africa, UPenn-Botswana, and other local NGO partners. Won MIT 100K Business Plan Competition – Development Track.

Project URL: http://clickdiagnostics.com

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6) CUTE: The Community Health Information Tracking System (CHITS) User Training Experience

Purpose: A low-cost electronic health records system that allows rural health workers "uninitiated" in technology hardware and software to easily use the system after a small amount of training.

Where it has worked: Not specified, although some efforts have been undertaken in the Philippines.

Business model: Not specified.

Tech approach: Uses a web-based open source (GPL) electronic heath record for village health centers. Hardware employed is not specified.

Other partners/funding sources: International Research Center of Canada (current involvement unclear).

Project URL: http://www.chits.ph

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7) Direct2mom

Purpose: To extend access to pre and neonatal information via SMS to ensure healthy pregnancies, safe childbirths, reduced HIV transmissions, and increased child immunizations.

Where it has worked: Not specified.

Business model: Free subscription model, relies on private sector partner for funding.

Tech approach: SMS push technology distributes health messaging.

Other partners/funding sources: Not specified.

Project URL: n/a

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8) Dosage

Purpose: Provides accurate medication dosage information to patients, primarily targeted at elderly users to give them timely and accurate reminders and correct dosage information.

Where it has worked: Not specified.

Business model: Not specified.

Tech approach: Software based on Java technology and telephones that possess JavaVM that has access to the calendar, alarm clock and possibly the content of SMS/MMS messages. File can be downloaded from a PC or sent via SMS.

Other partners/funding sources: Not specified.

Project URL: http://62.108.117.109/

Contact Info:

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9) HIV Atlas

Purpose: Allows a user to search, rate, add information related with HIV like blood banks, Test centers and other resources like best sites, communities etc. Fills information gaps and needs for HIV+ people.

Where it has worked: Previously used in California.

Business model: Not specified.

Tech approach: Website.

Other partners/funding sources: Not specified.

Project URL: n/a

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10) How We Care: 'Mobilizing' Community Health – AMREF

Purpose: Seeks to achieve better health for the people of Africa by placing community organizations as central nodes in health networks through the use of mobile phone technology.

Where it has worked: Not yet implemented, concept still being developed.

Business model: Not specified.

Tech approach: Uses community organizations as "nodes" to link various pieces of "health networks" through mobile phones.

Other partners/funding sources: African Medical and Research Foundation (AMREF), South Africa

Project URL: n/a

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11) InteractiveAlerts - Mobile patient tracking and data collection using RFID

Purpose: InteractiveAlerts offers patient tracking and data collection using a mobile phone. A

multi-tier system, it comprises of a mobile client application running on the Nokia 6131 NFC (Near Field Communication), a server side application that enables data storage, web front-end to for real-time data viewing, and a built-in RFID reader/writer for patients.

Where it has worked: Interactive Research & Development has been actively working towards integration of low-cost technology and tools to help improve patient care and data collection for the public health sector. Studies have been successfully completed on diseases such as TB, malaria, and HIV, and the data used to help provide free medical care and medication for the patients.

Business model: not specified

Tech approach: RFID, SMS, Nokia 6131 Near Field Communication, server side application, website for data viewing

Other Partners/Funding Sources: Johns Hopkins University

Project URL: n/a

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12) Portable Light iTEACH Blanket

Purpose: A solar powered blanket delivers de-centralized renewable power and light to homes and cell phones to target HIV and multi-drug resistant TB patients via text messages that encourage positive actions such as HIV testing and that connect patients to health care providers.

Where it has worked: Serving indigenous communities in the Mexican Sierra Madre, since 2005, new projects are underway for Nicaragua, through the Paso Pacifico program, for the Brazilian and Venezuelan Amazonas through Tele-Salud Medicos and for KwaZulu-Natal in South Africa through the iTeach program at the Edendale Hospital.

Business model: Collaboration between the nonprofits iTEACH and the Portable Light Project for a comprehensive home treatment program. Women in local sewing clubs integrate flexible solar kits into locally produced African cloth, making a detachable solar textile lantern.

Tech approach: Pilot project brings together health care information dissemination via text messages, clean solar energy with a renewable home lighting and cell phone charging systems, a comprehensive home-based MDR TB treatment training program in KwaZulu-Natal.

By day, the patient uses the blanket to stay warm while exposed to the outdoors. Sunlight charges the unit in three hours, creating 6 watt-hours of energy stored in a rechargeable battery. At night, Portable Light

Other partners/Funding Sources:

Rocky Mountain Institute
Core grant received from The Richard and Elizabeth Witten Family Foundation
Portable Light Project Wins a 2008 Tech Laureate Award

Project URL: www.portablelight.org

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13) Linking Patients to Health Using Mobile Technology

Purpose: The Personal Health Record (PHR) Improves clinical care and health decision-making in safety net settings by developing a mobile application that links patients to their health record and provides methods to share information, create treatment plans, and alert or remind patients how to optimize and understand their health care without requiring constant personal internet connections.

Where it has worked: San Francisco. Dr. James Kahn led the team development of the electronic medical record system, HERO (Healthcare Evaluation Record Organizer) for the dual purpose of providing a platform for clinical care and research. His work involves combining well-defined and curated health data from several centers into a single database for research, adding genomic data into clinical databases and developing personal health records for the urban poor to improve their connections to their safety net systems, developing the concept of patients as partners in health.

Business model: not specified

Tech approach: not specified

Other partners/Funding Sources:
AIDS Research Institute, UCSF

Project URL: https://myhero.sfdph.org; http://php.ucsf.edu; http://www.mjap.or.ug

Contact Info:
Sloan Kulper
Portable Light / Kennedy & Violich Architecture, Ltd.
skulper@kvarch.net
617-442-0800

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14) Light Up The World (LUTW) Mobile Solid State Lighting Medical and Dental Lamp

Purpose: To develop and distribute a mobile, robust and ultra-bright lighting system that is affordable, safe, healthy, efficient and environmentally responsible for people without access to electricity. This product would be used in medical and dental treatments both in the developing world and during disaster relief efforts around the world.

Where it has worked: Working with local partners around the globe LUTW has installed 16,000 lighting systems in 44 countries throughout the developing world. Over 100,000 people have been impacted directly by this new and innovative approach to development.

Business model: not specified

Tech approach: LUTW is based on world-class ultra-efficient solid state lighting (specialized LED based lighting system—Nemalux LED Lighting) powered by renewable energy to produce light, requiring as little as one watt per lamp, a dramatic reduction relative to current fluorescent and incandescent technologies.

Other partners/Funding Sources:
Nemalux LED Lighting
University of Calvary

Project URL: http://lutw.org/home.htm

Contact Info:
Christoph Schultz, Program Director, Light Up The World at
email: c.schultz@lutw.org or phone: (403) 266-5004.

Tara Collins at t.collins@lutw.org or phone: (403) 266-5004.
Light Up The World
#500, 340-12 Avenue SW
Calgary, AB
CANADA
T2R 0H2

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15) Madagascar E-Health Solution – Innovations in Mobile Technology

Purpose: To apply the internet and other related technologies in healthcare to improve the access, efficiency, effectiveness and quality of clinical processes and systems used by healthcare organizations, practitioners, and patients.

Where it has worked: USAID's EGAT and GH tasked Via Consulting Group to research and develop a data collection system using wireless PDA technology that could be used for outbreak and vulnerable population initiatives in developing countries. Via Consulting Group designed the

USAID / Animal Health Information Management System (AHIM) that resulted in a low-cost, scalable, replicable, and inter-operable system of systems serving the information needs of African public and private stakeholders. The AHIMs will be deployed initially in Rwanda, Ghana and Uganda. Via Consulting Group played an integral role in the USAID Enterprise Architecture (EA) team in identifying the existence of unmet data collection and reporting needs.

Business model: not specified

Tech approach: Tele-consultation (web, voice menu, SMS), supply chain management for full range of medical facilities and providers, free open source population-based surveys for non-clinical information for easy reporting and querying, web-based and mobile-based patient-centered clinical information system at all levels of the health system, and eLearning at regular intervals to facilitate regular training for all health professionals and greater access to new and global advances in diagnosis, treatment, and management through web, audio, SMS and other technology.

Other Partners/Funding Sources:
USAID

Contact Info:
Via Consulting Group

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16) MERIT - Monitoring & Evaluation Reporting & Integration Tool

Purpose: Using mobile phones to collect data through a web-based indicator tracking system for use in low resource areas. It allows project teams to establish indicators capable of working within one or multiple frameworks, capturing different levels of detail, and indicators that can be matched to various collection schedules.

Where it has worked: MERIT's web-based tracking tool was built by the Non-Profit Organization Knowledge Initiative, a collaboration of international health organizations. The MERIT tool is appropriate for all of their members and country partners. Beta-testing finished in November of 2008. It is currently being used by four international health organizations in various locations in Asia, Africa, and Latin America.

Business model: not specified

Tech approach: Web-based tracking tool. Specifications for MERITT II, including its mobile phone integration, are currently being developed.

Other Partners/Funding Sources: Non-Profit Organizations Knowledge Initiative (NPOKI)

Project URL:
http://sites.google.com/a/npoki.org/merit/Home

Contact Info:

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New York City | 10001 | US
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phone: +1.212.561.8002
www.npoki.org

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16) MIDA - Medical In-Field Diagnostic Assistant

Purpose: MIDA is an interactive in-field diagnostic assistant for rural health workers that uses existing SMS technology to support clinical diagnosis in rural areas, information dissemination and the collection of public health data.

Where it has worked: not specified

Business model: not specified

Tech approach: Uses existing SMS technology

Other Partners/Funding Sources: not specified

Project URL:
www.mida-intl.org

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17) Mobile Health (MHealth) for Development: EpiSurveyor in Africa

Purpose: Open source software on mobile devices enables healthcare professionals anywhere to instantly record and aggregate essential health data.

Where it has worked: By the end of 2008, the EpiSurveyor-based mHealth program is operating in over 20 countries in sub-Saharan Africa, where the software is being used to track crucial data—from the availability of medical supplies to the coverage rates of immunization campaigns.

Business model: not specified

Tech approach: EpiSurveyor is a free, open source software that can be easily downloaded onto mobile devices.

Other Partners/Funding Sources: The MHealth for Development program, which falls under the Technology Partnership between the United Nations Foundation and the Vodafone Foundation funded DataDyne's development of EpiSurveyor

Project URL:
http://www.unfoundation.org/global-issues/technology/mobile-helath-for-development.html

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18) Mobile Personal Health Record

Purpose: The Mobile Personal Health Record aims to create a mobile extension of an open source personally controlled health record platform, which will facilitate the recording of personal health data, the personal use of evidence-based health protocols via a "plug-in" approach and the empowerment of the individual to interact more effectively with the health ecosystem. This is a mobile extension of a proven Personal Health Record, MyOSCAR.

Where it has worked: not specified

Business model: not specified

Tech approach: The Personal Health Record is a standards-based, open source tool (based on the Indivo open source project). A generic "lego block" architecture can be used to address any specific problem such as chronic disease or communicable diseases as well as general health, wellness, and prevention.

Other Partners/Funding Sources: McMaster Department of Family Medicine (MyOSCAR support)

Project URL: http://myoscar.org/, http://www.oscarmcmaster.org

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19) Mobile Phone for Data Collection in Home Based Care

Purpose: Data collection over a mobile phone will improve the quality of life and care for seriously ill/bed-ridden AIDS patients in remote, hard-to-reach areas. The cell phone will include a customized menu with a data collection tool that is filled as a normal message by the Home Based Care (HBC) Contact Person (CP.) The CPs will use the phone to forward data from service providers in messages to a server and central database.

Where it has worked: Project will start with two remote districts that are heavily burdened by home based care services: Kilombero in Morogoro region and Kyela in Mebeya region of Tanzania.

Business model: not specified

Tech approach: SMS over mobile phone, central server, website,

Other Partners/Funding Sources: Family Health International, Tanzania National AIDS Control Program (NACP)

Project URL: not specified

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20) Mobile Phone for Data Collection in Home Based Care

Purpose: Data collection over a mobile phone will improve the quality of life and care for seriously ill/bed-ridden AIDS patients in remote, hard-to-reach areas. The cell phone will include a customized menu with a data collection tool that is filled as a normal message by the Home Based Care (HBC) Contact Person (CP.) The CPs will use the phone to forward data from service providers in messages to a server and central database.

Where it has worked: Project will start with two remote districts that are heavily burdened by home based care services: Kilombero in Morogoro region and Kyela in Mebeya region of Tanzania.

Business model: not specified

Tech approach: SMS over mobile phone, central server, website,

Other Partners/Funding Sources: Family Health International, Tanzania National AIDS Control Program (NACP)

2008 USAID Development 2.0 Challenge submissions
HEALTH II
Entries 21-38

21) Mobile phone messages for HIV Prevention for the deaf
22) Mobilizing Medical Records in Resource Poor Settings
23) MocaMobile - Scalable Mobile Imaging For Global Health Delivery
24) mPedigree: Safer Drugs For Everyone
25) MStockGuru
26) Nehnwaa Child Survival Project
27) Networking In The Sierra Tarahumara
27) Networking in the Sierra Tarahumara
28) Pariah News: Where Citizen Media Enables AIDS Treatment Access
29) Pregnancy Infant Protection Program (PIPP) Using Small Media Technology
30) Mobile Mother Care
31) ROBO Calls for Health – A Developing Country Proposal
32) Sex INFO International – mHealth Education, Awareness and Referral
33) SMS4AIDS Program
34) SocialTxt
35) Solar Powered, Evaporative Refrigerators for Remote Storage of Biologics
36) TxtAlert
37) Virtual Consumers Anonymous (VCA – Consumer 911)
38) Water Technology Assistant – Cell phones supporting Access to Clean Water

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21) Mobile phone messages for HIV Prevention for the deaf

Purpose: Education about what sexual behavior puts people at risk of HIV/AIDS with the goal of changing sexual behavior, practices and improving communication skills. This project focuses on the deaf as an underserved population of Tanzania.

Where has it worked: Morogoro urban district has well established structures for deaf Care such as schools and associations. This project intends to get implementation advice from these groups in order to conduct effective outreach.

Business model: The project will use a free mobile phone message service. Once initial equipment has been purchased, fund raising activities will assist in any replacement costs incurred due to damaged equipment.

Tech approach: HIV peer educators (PEs) disseminate HIV prevention tips to the deaf through a cell phone/tv messaging system. The project will train Deaf TOT for peer educators (PEs) and the technology system consists of cell phones connected to TV screens to place phone calls to the deaf.

Other Partners/Funding Sources: n/a

URL: n/a

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22) Mobilizing Medical Records in Resource Poor Settings

Purpose:
Using Electronic Medical Records (EMR) enables health workers and patients to send data via SMS to a centralized system where physicians are notified of urgent health situations and conditions. Through this system, physicians and clinics can send medical advice back to the health worker or patient. The result is increased access to health services and a better documentation of meical records.

Where it has worked:
Similar projects have been implemented in Alto Cayma, Peru and Kigutu, Burundi

Business model:
From the submission: “This project requires only minimal seed funding to get off the ground. Once it is functional, it will be supported by the organizations that use it. These include health care organizations like Village Health Works and Health Bridges International, and open source communities like OpenMRS and OpenROSA.”

Tech approach:
The project will sue SIM-base mobile phones because they are cheap, durable, prevalent, require less training and are less likely to make workers a target for theft/mugging (relative to smart phones). The project will use OpenMRS, an open source EMR system that plugs into the software used by this project. The project will be implemented at clinics that serve more than 65,000 people in Peru and Burundi.

Other Partners/Funding Sources: n/a

URL: http://villagehealthworks.org/

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23) MocaMobile - Scalable Mobile Imaging For Global Health Delivery

Purpose:
MocaMobile is a remote medical imaging and diagnosis solution using mobile phones. This project uses mobile phones to add images, audio recordings and video, to a patient's medical record. Adding this component leverages an existing infrastructure an electronic medical record (EMR) system that delivers medical technology and decision support to underserved communities and health workers who do not have the needed infrastructure for training, hardware support and treatment compliance.

Where it has worked:
This particular system has not yet been implemented though a number of institutions and ASEAN centers have agreed to pilot the system.

Business model:
MocaMobile is being founded as a non-profit open source software foundation that can provide services for a fee. The financial model relies on a combination of donations and payment for software development and integration. Any incremental improvements in software development for a client, or developed by a user for their own use, is captured through the use of the GNU public license. This makes MocaMobile the centralized repository for scalable, expert reviewed code for mobile medical diagnostics. MocaMobile currently needs help acquiring partner organizations and NGO's for which to develop and scale the software for.

Tech approach:
The open source system provides instant end-to-end infrastructure for remote diagnosis by experts anywhere in the world who are tapped into the system. Packetization, a synchronization model, and multi-modal data transport allow MoCa to operate even in poor cellular coverage areas. Though the system is based on a mobile platform, it is designed for bandwidth constrained areas using WiFi and tethered uploads.

Other Partners/Funding Sources:
Partners include General Electric, CIDRZ, OpenMRS, The Next Billion Project, the ASEAN Center for Telehealth, Harvard Medical School, and six leading medical universities in Asia. In Asia, the following ASEAN Centers for E-Health and Telemedicine and universities have already signed on to use/pilot the system:
Universiti Sains Malaysia (Malaysia)
Institut dela Francophonie pour Medicine Tropicale (Laos)
University of the Philippines Manila (Philippines)
University of Gadjah Mada (Indonesia)
Ciputra Univerity (Indonesia)

Hanoi Medical University (Vietnam)

URL: http://nextlab.mit.edu/fall2008/mobilediagnostics/

Contact Info:
Ted Chan, MocaMobile

www.mocamobile.org

(781) 856-8686
tedchan@gmail.com

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24) mPedigree: Safer Drugs For Everyone

Purpose: MPedigree uses a scratch card method to reveal a single-use numeric code on drugs that users can text for free to a mobile shortcode. Users receive an instant message response that tells them if the drugs are legitimate or counterfeit at the point of purchase.

MPedigree's system serves consumers; government, law enforcement and foreign donors by providing statistics on drug quality as well as a system of accountability (anonymous notices are sent to relevant agencies on the location of where counterfeit drugs are regularly sold); and drug manufacturers by providing them credibility, helping them reclaim market shares and profitability that is lost to counterfeiters, and providing information that makes recalls quicker.

Where it has worked:
MPedigree conducted a technology trial to validate the concept among approximately 2,000 drug patrons in Ghana. MPedigree produced a half-hour documentary on fake drugs for their social marketing campaign, titled *If Symptoms Persist*. The movie showcases notable stakeholders in the local pharmaceutical ecosystem and has received repeated nation-wide telecast in Ghana. They have also started implementation in Nigeria around anti-malarials and antibiotics.

Business model:
MPedigree receives direct payments from genuine drug manufacturers who stand to gain from recovered market shares from the reduction and identification of counterfeiters. These manufacturers cover the costs of the coded labels and SMS messages. MPedigree actively seeks grants to co-finance consumer advocacy.

Tech approach:
MPedigree uses scratch code technology and an SMS short code system. They secured the SMS short code in the first ever acquisition of reverse-billed short code on all Ghanaian cellular networks.

Other Partners/Funding Sources:

The Coalition Against Counterfeiting and Illicit Trade (CACIT, Ghana) http://bcacit.com/home/

URL:
http://mpedigree.org/home/
http://nextlab.mit.edu/fall2008/mobilediagnostics/

Contact Info:
First Name: Ashifi
Last Name: Gogo
Organization: mPedigree
Email: agogo@mpedigree.org
Phone: +1-603-369-9256

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25) MStockGuru

Purpose:
MStockGuru uses a mobile phone system to provide an inventory control service that asks pharmacists to periodically capture demand & inventory data. When pharmacists send in their information, MStockGuru sends texts messages about when they should restock and optimal quantities to order. The service also has an impact on the supply chain by helping balance supply and demand through optimal stocking practices and helping reduce the likelihood of expiry.

Where it has worked:
Not yet implemented

Business model:
Initial costs are in service setup, marketing, and training. MStockGuru takes a percentage of their customer's savings (medical stores and kiosks) in return based on "before & after" measurements determined in a pilot study that is recalibrated annually, it comes at virtually no cost to kiosks. Financial model simulations indicate a break-even scenario with revenues growing linearly with install base.

Additionally, the demand data collected by the system is valuable information for wholesalers, distributors and aid agencies. MStockGuru hopes that pharmaceutical vendors and retail kiosks can exchange the data for discounts or cash, empowering them within the supply chain.

Tech approach:
MStockGuru uses a mobile phone SMS. The project team has experience developing inventory and logistics algorithms and software. They currently need a software developer experienced in SMS mobile-phone platforms and 3G/SmartPhone.

Other Partners/Funding Sources:
n/a

URL:
http://www.lggi.org/mStockGuru_1_pager.pdf

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26) Nehnwaa Child Survival Project

Purpose:
Liberia has the world's third highest maternal mortality ratio (994) and lifetime risk of maternal death is 1 in 12. Often the closest health facilities are 5 to 10 kilometers away and cars are not available for transportation.

The project trains and deploys community health workers (CHW), trained traditional midwives (TTM), and an obstetric emergency (OE) response system. The project will establish a communication network and emergency obstetric response system utilizing cell phones, renewable energy technology and 4x4 response vehicles to ensure clean and safe infant delivery by skilled attendants for women living in rural Nimba County, Liberia.

Where it has worked:
The project will serve as a pilot for the Liberia Ministry of Health and Social Welfare (MOH&SW) as it rebuilds the Liberian health infrastructure. If it is successful, the project will be rolled out across the country in partnership with the country's main cell phone service providers, Lonestar and Cellcom.

Business model:
USAID awarded the project $1.25 million in June 2008. This funding, along with contributions from the Free Play Foundation, will sustain the pilot through 2013.

Tech approach:
The system utilizes Freeplay Energy's solar/hand-cranked cell phone charger cell phones, a device which solves the problem of lack of electricity in the villages that has impeded cell phone penetration. GUMH staff responds with a 4WD all-terrain vehicle (for patient transport to GUMH) or motorcycle (for home-based treatment) and/or emergency coaching via cell phone. GUMH staffs the system 24/7 system.

Other Partners/Funding Sources:
Curamericas Global launched the USAID-funded Nehnwaa Child Survival Project with in-country partner Ganta United Methodist Hospital (GUMH) in northcentral Liberia. Curamericas Global staff helped design the GUMH Project. USAID awarded $1.25 million and contributions are made by Free Play Foundation. Curamericas Global's Child Survival projects in Bolivia, Haiti, Mexico and Guatemala have consistently met or exceeded project goals, cumulatively serving over 350,000 beneficiaries, and managing $6.7 million of USAID funds since 1987 without audit exceptions or questioned costs.

URL:
n/a

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27) Networking In the Sierra Tarahumara

Purpose: The project will promote the health care and education to the Tarahumara Indians of the Sierra Madre (a group of people scattered in 200 square miles of a rugged, vast canyon system). Radio communication will be used to equip medical transport, health workers in villages and hospitals, and radio units will have increased contact with local law enforcement officials.

Where it has worked:
The hospital opened its doors in January of 2000 and in 2007 the community health program intensified efforts, with regular village visits. At this time, an aviation program for air transport and a midwifery program began. Installation of first radio system was completed in February of 2008.

Business model: The system requires: A Permit: $1,000.00; Tower w/solar: $6,000.00; Village radio w/solar: $1,800.00; Two vehicle units: $600.00; Solar panel: $700.00. Additional funds needed for: Solar panels - $1400; 60-watt vehicle radio - $300; An airplane radio - $300; Village radio - $300; Additional remote units as health workers increase - $1800 each.

Tech approach: Solar powered radio tower near hospital will reach radio units in/near remote villages. 60-watt radios in an ambulance and community health vehicle for more reliable, wider network reach.

Other Partners/Funding Sources: Donations are accepted through their website. Other funding sources are unclear.

URL: http://www.mexicomedical.org/

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28) Pariah News: Where Citizen Media Enables AIDS Treatment Access

Purpose: Pariah News will be a citizen media and crowdsourcing enabled project by and for sex workers based in Madagascar to ensure protection of their rights, better access to AIDS treatment and prevention practices, empowerment and AIDS related public health data collection. The project seeks to teach sex workers computer skills and how to use citizen media tools so they can tell their own story.

Where it has worked: Variations of the system have been implemented in Madagascar.

Business model: There is a dearth of public health data about AIDS in Madagascar and the projects plans to market their information to health agencies on a "pay-per-request" model for specific/desired data.

Tech approach: The system pushes relevant news and health information through SMS and pulls information that enables sex workers to report their health status anonymously and report cases of violence without waiting for an official police report. The project utilizes SMS messages, internet radio and blogs. Sex workers participating in the project will SMS status and incident reporting via Ushahidi platform. FOKO is already collaborating with Ushahidi for their project. We would also consider other forms of crowdsourcing.

Other Partners/Funding Sources: Pariah News is a joint project between FOKO Madagascar, a Rising Voices (funded by the Knight Foundation) grantee that promotes the use of citizen media to promote social and environmental changes and FIMIZORE, a NGO based in Antanarivo, Madagascar that strives for the protection of sex workers and men who have sex with men's rights (MSMs). FIMIZORE was one recipient of the UNAIDS 2008 Red Ribbon award.

URL: http://fimizore.wordpress.com/

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29) Pregnancy Infant Protection Program (PIPP) Using Small Media Technology

Purpose: This project has a network of 68,000 digital voice players (originally used in a campaign commissioned by the U.S. State Department and the Afghanistan Independent Election Commission in the Afghan 2004/05 elections) that will reach 4 million illiterate Afghans, providing them with maternal infant care information created for women in rural hard to reach areas. The Pregnancy Infant Protection Program (PIPP) content is produced with indigenous sources, including the voices of key provincial and religious leaders so it is linguistically accurate, culturally engaging and trusted.

Where it has worked: The results of the VFH Afghan election campaign resulted in 20% higher voter turnout in the provinces where VFH deployed its technology. In a 2005 AIDS campaign in Africa, the VFH approach to AIDS education was found to be 7 times more effective at a fraction of the cost per listener. Participants said the VFH voice player was more preferred to radio (93.6%), pamphlets/newspapers (95.9%), and television (92.4%) as a means of HIV/AIDS education, and 91.8% said the technology was easy to use.

Business model: This project utilizes an established indigenous network of Afghan partners and an investment in technology of US $5 million that is already in place in two-thirds of the country.

Tech approach: Hand-held Voice Player and Chip utilizes advanced audio compression technology that is equivalent to MP3 players.It has a 10x cost advantage per megabyte and the ability to hold over 500 hours of content. The DSP speech compression algorithms create encrypted files that can only be decoded by our Player. Rechargeable batteries and solar charger

are used and therefore have no ownership cost and no commercial value.A question button explains how to use and navigate through the topics and sub-topics.

Other Partners/Funding Sources: Voice For Humanity

URL: http://voiceforhumanity.org/

Contact Info:
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30) Mobile Mother Care

Purpose: Health workers in Bangladesh will solicit pregnant women to participate in the project's health care database, where they can send SMS messages with their health updates. The system then pushes out SMS and voice messages with reminders and relevant health information based on an individual's stage of pregnancy.

Where it has worked: The project team has previous experience developing SMS and Voice based solutions for mobile operators in Bangladesh

Business model: not specified

Tech approach: SMS system and Interactive Voice Response System (IVR) in Bangla (native language).

Other Partners/Funding Sources: not specified

URL: n/a

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31) ROBO Calls for Health – A Developing Country Proposal

Purpose: Through phone calls and/or SMS text messaging patients would be reminded on their appointments and/or home treatments.

Where it has worked: Not Yet Implemented.

Business model: Not Specified.

Tech approach: SMS, voice and database.

Other Partners/Funding Sources: None.

Project URL: None

Contact Info:
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32) Sex INFO International – mHealth Education, Awareness and Referral

Purpose: SEXINFO is an education, awareness, and referral services accessed by simple SMS.

Where it has worked: United States of America, initial evaluation for international expansion conducted.

Business model: Users pay for SMS text costs, foundational support and partnerships with technology and health actors in place.

Tech approach: SMS text service

Other Partners/ Funding Sources HipCricket, ADIQ

Project URL: http://sextext.org, http://www.isis-inc.org

Contact Info:
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Internet Sexuality Information Services, Inc. (ISIS)
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Oakland, CA 94612 USA
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510-835-9400

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33) SMS4AIDS program

Purpose: The SMS4AIDS program will send tailored SMS reminders for AIDS medication to South Africa patients.

Where it has worked: A pilot of SMS4AIDS was recently tested at a Johannesburg AIDS clinic by the Reproductive Health & HIV Research Unit (RHRU).

Business model: The cost per SMS is under 3¢ to users and no computer programming is required. SMS4AIDS does not have a revenue generation model. It is instead designed to generate evidence on a health behavior intervention for AIDS treatment

Tech approach: Bulk SMS messaging service.

Other Partners/Funding Sources: Reproductive Health and HIV Research Unit (RHRU) South Africa

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34) SocialTxt

Purpose: The SocialTxt messaging platform uses the 120 "unused" characters of a 'please call me' (PCM) message to better access information to make better decisions about their health.

Where it has worked: In partnership with leading network provider MTN, SocialTxt leverages approximately 1 million HIV-AIDS-messages each day to link South Africans to the National AIDS Helpline.

Business model: Partnership with NGOs, low maintenance cost and support from National Aids Helpline.

Tech approach: SocialTxt is an open-source SMS tool.

Other Partners/Funding Sources: "Project Masiluleke", National AIDS Help Line MTN

Project URL: http://praekeltfoundation.org/products-and-services/socialtxt

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35) Solar Powered, Evaporative Refrigerators for Remote Storage of Biologics

Purpose: The construction of refrigerators based on solar-assisted evaporative cooling. This provides mobile, remote plug-less refrigeration for biologics and perishable medicines/ vaccines.

Where it has worked: An academic design team has developed reasonable coefficients of performance for evaporative cooling systems.

Business model: The business model is based on micro-franchising to incentivize local entrepreneurs in developing countries to support refrigerator building and maintenance. The micro-franchise will also focus on distribution logistics to remote health clinics, technical support training.

Tech approach: Solar evaporative cooling systems use the sun to passively heat and desorb convection fluids that evaporate and expand through a check valve, creating the cooling process. The idea is to cool in the daytime and recharge during the night. The amount of heat transfer fluid available to vaporize regulates the cooling capacity.

URL: http://sites.google.com/a/umich.edu/m-heal

Other Partners/Funding Sources: M-Heal, University of Michigan, Wireless Microelectronics Center at the University of Michigan, Global REACH (Research, Education, and Collaboration in Health)

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36) TxtAlert

Purpose: Txt Alert is an open source mobile technology tool that supports both anti-retroviral (ART) patients and health care providers by reminding patients of upcoming clinic visits and tracking for providers about appointments met and missed and medicine pick-up.

Where it has worked: SocialTxt is currently being used in a HIV campaign called "Project Masiluke" in South Africa. TxtAlrt has been successfully piloted at right to Care's Themba Lethu clinic, in Johannesburg, since August, 2007

Business model: This open source tool is freely avaialble and self-sustainable because it does not require huge maintenance costs. It can be adapted to suit unique partner needs and the only real cost of using TxtAlert is messaging.

Tech approach: Solar evaporative cooling systems use the sun to passively heat and desorb convection fluids that evaporate and expand through a check valve, creating the cooling process. The idea is to cool in the daytime and recharge during the night. The amount of heat transfer fluid available to vaporize regulates the cooling capacity.

URL: http://praektelfoundation.org/products-and-services/txtalert

Other Partners/Funding Sources: Right to Care, "Project Masiluleke"

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37) Virtual Consumers Anonymous (VCA – Consumer 911)

Purpose: A global virtual alliance and exchange-point using mobile phone and web based methods for product risk information in order to alert consumers about counterfeit, substandard, and dangerous consumables. Web 2.0 and mobile 2.0 functionalities will permit every consumer with access to a cell phone or the internet to verify the efficacy, toxicity, originality, and origins of any product.

Where it has worked: mPedigree project in Ghana has aimed to create an anti-counterfeiting platform in Africa on a territory-by-territory basis.

Business model: not specified

Tech approach: Use the wiki model to catalogue and disseminate information about a great range of consumables to users around the world. A grading system involving the world's regulatory agencies will continually improve upon the integrity of the data. Manufacturers who agree to participate in the scheme are offered web-based tools to generate unique, one-time codes for embossment on their projects. When consumers buy these products, they are able to verify the authenticity of the product by sending a free text (SMS) message to a national 4-digit number. Requires pacts with the government and telecom operators.

URL: none

Other Partners/Funding Sources: mPedigree

Contact Info:
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38) Water Technology Assistant – Cell phones supporting Access to Clean Water

Purpose: The Water Technology Assistant (WTA) is a cell phone application designed to support drinking water and sanitation projects in the field. The WTA uses cell phones to link water and sanitation projects to donors by making progress online.

Where it has worked: The Akvo core system is being implemented by 46 partners involved in field projects worth around 450,000 Euros around the world..

Business model: not specified

Tech approach: SMS text message updates, video clips and photos. Uses existing online resources reformatted and rewritten for small screens.

URL: www.akvo.org

Other Partners/Funding Sources:
Schokland Funds, a Dutch government fund