



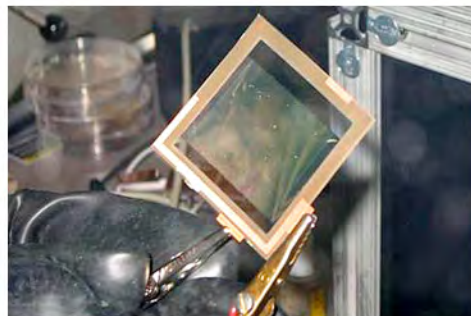
Wireless Innovation Project

Winners 2009–2015

vodafone-us.com/wireless-innovation-project



Mobile money management - free, simple, flexible and anywhere with a wireless signal.



Winners

2015



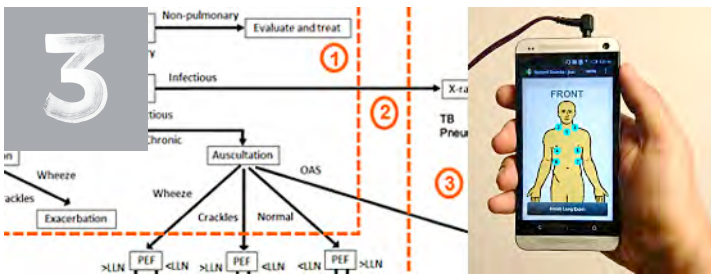
1 Seva Sanitation – California Institute of Technology

Seva Sanitation has engineered an intelligent system that treats black water, providing a sustainable solution for the 4.5 billion people in the world without access to adequate sanitation. This highly scalable system eliminates the need for any existing infrastructure by employing unique mobile technologies for monitoring and maintenance.



2 Momo (Mobile Well Monitor) – WellDone International

WellDone builds a remote monitoring technology called MoMo that improves the reliability of rural infrastructure and the accountability of development projects. MoMo sends water flow rates over the cellular network to tell stakeholders how well rural water projects are working on a daily basis.



3 Mobile Stethoscope Diagnostics – Massachusetts Institute of Technology D-Lab

The world's first USB-powered mobile stethoscope and decision-support mobile application providing critical diagnostic assistance to untrained health workers and non-specialist doctors in developing countries. This device has many markets, but the first application is diagnosis of pulmonary diseases, which is a top need in all countries.



Winners

2014

1



Mobile OCT

MobileOCT, in partnership with Scripps Clinic, developed technology that converts any digital camera, including smartphones, into a device that can detect abnormal cell growth, which can be an early warning sign of cancer. Their technology is currently focusing on cervical cancer.

2



Soko Enterprise

The Soko Enterprise Project (SEP) is empowering SMEs (Small and Medium Enterprises) with access to the global marketplace through a tool that enables small scale producers to manage production and operations, sell to global consumers and get paid directly all via mobile. Using the Soko tool, artisans and craftspeople in countries like Kenya will be able to participate in the global marketplace.

3



eyeMITRA – MIT Media Lab

eyeMITRA is an innovative mobile phone attachment enabling at-home imaging of the retina, the nervous tissue in the back of the eye. This system seeks to not only provide real-time health status assessment, but also to contribute to the field of predictive analytics in healthcare.



Winners

2013

1



ColdTrace – Next Leaf

A low-cost wireless sensor designed to improve access to vaccines which protect thousands of children against diseases such as tuberculosis and polio. The sensor remotely monitors the temperature of vaccines, and also provides a better understanding of the vaccine cold storage, transportation and distribution infrastructures, particularly in areas where regular records are not maintained.

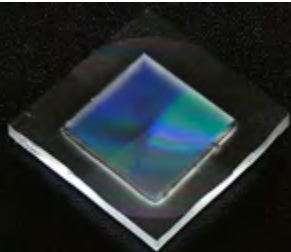
2



MoboSens – University of Illinois at Urbana, Champaign

A smartphone-based water sensor which enables anyone to test the quality of water and utilizes social media to empower people to become active participants in their environmental communities. This low-cost and simple to use device currently detects nitrate concentrations accurately and looks to expand to measure heavy metal, carcinogens, and bacteria in water.

3



G-Fresnel Cellphone Spectrometer – Pennsylvania State University

This high performance optical spectrometer, integrated with a cellular phone, can make optical spectroscopy accessible to everyone whereas the traditional optical spectrometers, used to measure the spectra of light, are usually bulky and expensive. It is compact and affordable and have broad ranges of applications, such as breast cancer detection, monitoring surgical wounds and color analysis for assisting people with color blindness.



Winners

2012



Wireless Bug Sensor – University of California at Riverside

Tiny, inexpensive sensors that can automatically count and classify the insects in the field, it then translates the information and sends the farmer a once-a-day text message with instructions on the type of intervention necessary and a map of the isolated locations where action is needed, which allows farmers a more targeted approach than mass intervention, reducing costs for labor and pesticides.



OSCAN – Sanford University

An affordable screening tool that brings standardized, multi-modal imaging of the oral cavity into the hands of rural health workers around the world, allowing individuals to conduct screening for oral lesions. This inexpensive device mounts on a conventional camera phone and allows for data to be instantly transmitted to dentists and oral surgeons for association of these lesions to diseases of the oral cavity, including oral cancer.



Insight - Inventure

A money management tool that operates entirely over SMS. Micro-businesses and households report their daily financial metrics and have access to simple reports to track their spending and income. Additionally, through the data collected, InVenture is creating a global credit rating platform that will deliver critical data to financing institutions in order to help with due diligence, distribution and risk mitigation.



Winners

2011

1



NETRA – MIT Media Labs

A small cost effective (\$2) clip adaptor on a smart phone as a portable eye testing system which can be used to prescribe eye glasses and detect eye disease, especially in communities where expensive evaluation equipment is not available.

2



Smart Diaphragm – University of San Francisco Medical Center mHealth Alliance Award winner

A wireless monitoring device for early detection of signs of pre-term birth, thus preventing incidences of early birth, birth defects and possible infant deaths. Data can be transmitted and displayed on the mobile phone. Ideal for patients where hospitals are out of reach.

3



Cool Comply – Massachusetts General Medical Center

A cooling and monitoring system to house and monitor adherence of medication. Designed for use in locations where refrigeration is not available, and for medication that requires refrigeration and strict monitoring such as malaria or TB.



Winners

2010



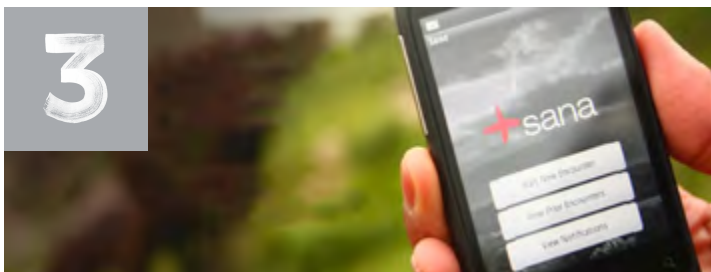
100 Million Stoves – UC Berkeley

A simple wireless stove monitoring system (SUMS) that can be attached to the millions of new low-emission stoves being used in developing regions. Monitors effectiveness by measuring heat output, emission and others.



FrontlineSMS: Credit

The application leverages mobile payment systems and core banking software to bring financial services—such as savings, credit, insurance and payroll—to the entrepreneurial poor, eliminating geographic and time barriers and turning mobile payment systems into platforms for mobile banking.



Sana – MIT

mHealth Alliance Award winner

An innovative open source platform that allows mobile phones to capture and send data for an electronic medical record and links community health workers with physicians for real-time decision support. It also includes training modules to train health workers in the field.



Winners

2009



EnHANTs – Columbia University

A network tag the size of a small chip that can be placed in mobile phones, name tags, clothing and other items. Most importantly the tags can be activated to send signals as a disaster recovery system for locating people trapped by fires and survivors of structural collapse.



CellScope – UC Berkeley

A small inexpensive (\$2) attachment forming a mobile microscope. It addresses disease diagnosis and treatment challenges in developing countries by enabling clinical microscopy and wireless communication of healthcare information in the field where hospitals and clinics are far and few between.



CelloPhone – UCLA

A lens-free microscopy imaging platform on a cell phone for disease detection and diagnostics using digital holograms of the cells or bacteria, that is capable of monitoring HIV, malaria, tuberculosis and various other diseases. Helpful for disease diagnosis in rural and developing areas where doctors are not easily accessible.

