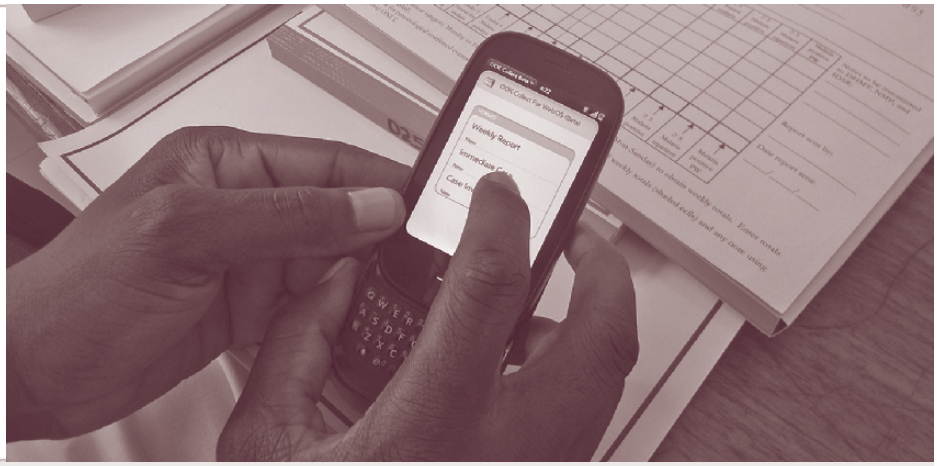
PROGRAM:
DISEASE SURVEILLANCE AND MAPPING PROJECT WITH PING AND CHAI



WINNER: Hewlett-Packard Corporation

Hewlett-Packard (HP) creates new possibilities for technology to have a meaningful impact on people, businesses, government and society. As the world's largest technology company, HP brings together a portfolio that spans printing, personal computing, software, services, and IT infrastructure to solve customer problems.

ABOUT THE WINNING PROGRAM

The *Disease Surveillance and Mapping Project*, a public-private partnership between HP, Positive Innovation for the Next Generation (PING), Clinton Health Access Initiative (CHAI), Mascom and the Botswana Ministry of Health (MoH), streamlines data collection and analysis to improve the quality of disease surveillance. Before this program was launched, the process of tracking notifiable diseases in Botswana was manual and slow, hampering the government's ability to respond effectively to outbreaks.

The pilot program used data-enabled HP Palm Pre smartphones to collect data on malarial activity in and around health facilities in the Chobe district of Botswana. These data were then sent to a regional health collection facility where they were aggregated and displayed graphically for quick analysis by epidemiologists. By the end of the pilot, 93% of facilities were reporting on time (compared to 20% beforehand), and MoH officials had been notified of 19 potential malaria outbreaks to which they were able to respond immediately. The pilot was so successful that the MoH plans to expand PING's mobile platform to track all notifiable diseases in Botswana.

CRITICAL SUCCESS FACTORS

POWER OF PARTNERSHIPS

- HP and Mascom not only contribute resources and equipment; their respective staffs have been actively involved in the project's success, contributing their skills and experience.
- The most sustainable partnerships are mutually beneficial. Mascom provided free data transmission because of its strong commitment to social responsibility, but also because it saw potential to build market share.

FAR-REACHING BENEFITS

- The MoH plans to expand the program to track all notifiable diseases, such as multi-drug resistant tuberculosis. PING is also looking to adapt it to improve the broader health system, including the National Cancer Registry and blood supply logistics.
- Botswana's vast distances have been a challenge for its health system, but this mobile technology can be leveraged to enable distance learning and remote patient diagnostics, bringing high-quality health services to previously isolated communities.
- PING provides a year-long 'Youth Leaders Mentorship Program' for orphans and vulnerable teenagers, involving them in PING projects like this one, and teaching them IT, business and leadership skills.