The Science Behind Flow at Work



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Information Systems & mHealth





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Introduction

Global Health Context

- · Innovations in health derive mainly from the technologies applied to other fields
 - · m-health
- · e-health
- · Health systems in LMICs still face significant challenges in providing highquality, affordable and equitable care
- · In response, donors, programmers, and policy-makers have increasingly turned towards e-health and m-health
- · LMICs, however, sometimes do not have access to the new devices to improve the health of their population

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The Role of the WHO

- · In 2011, WHO set a "Compendium of new and emerging technologies that address global health concerns"
- · Intended to encourage dialogue between the producers and the users and foster the production of technologies which can be affordable in LMICs



- Global Health Context

 Despite increased interest, in some LMICs the field is still relatively young
- · Few programs have been scaled-up
- · Implementation has largely been fragmented and uncoordinated
- · Minimal literature on the actual landscape of e-health programs
- · Literature primarily consists of articles describing single uses of technology in health care delivery and recommendations for use

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mHealth in the Media



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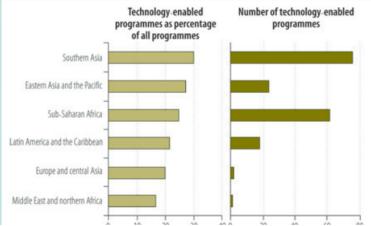
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mHealth in the Media



The Role of Technology in Disaster Relief and Emergency Response Efforts

Crowd-Sourcing Crisis Information in Disaster-Affected Haiti: Ushahidi

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- Provides a way for volunteers to collect information from text messages, blog posts, videos, phone calls, and pictures, which are then mapped in real time
- Even in Haiti, where technology is sketchy at best, it proved

Ushahidi

- ource platform technology used to respond to a disaster of this
- Set up two hours after the Jan. 2010 earthquake

- olunteers mapped the GPS coordinates and provided the info iams on the ground 4,638 visualness cranits—4.

Crisis Mapping in Post-Earthquake Haiti

- ains a number of unanswered questions about the potential
- Specifically, it has gained a tremendous momentum among women's rights organizations in Haiti and beyond
- campie: 4,941 3M3 304 304 in the absence of a formal centralized system for recording cases, uses Ushahidi to document and map incidents of violence Reports received via text message individual receives an immediate response and incident reports are forwarded to partner organization for follow-up if necessary Operational in 50 camps managed, reaching –150,000 people

Attacks on Health Workers

- During recent uprising in Bahrain, Syria and Libya, security forces obstructed access to health facilities; harassed, arrested, and prosecuted medical personal
- In Cludad Juarez, Mexico, criminal organizations have killed and abducted health workers and interfered with patient-care for decades. Consequently, doctors and nurses have fled and 60% of the city's clinics have closed
- ults like this have long been part of the landscape of armed
- · 5o, why hasn't much been done?

Source: Robertskin, Laceural S., and Melania S Biotic, "Responsibility for Production of Weeks of America Commission (Commission Commission)."

- Dearth of regular reporting on the frequency and impacts of
- · Absence of accountability mechanisms for perpetrators
- This has allowed these attacks to continue without impunity

Existing Evidence

- In 2011, ICRC published the first study to identify incidences of violence across multiple states (16 countries, two-year period) -65 discrete incidences of violence or threats leading to the deaths or wounding of 1,800+ people. Including 460 damaged health facilities 200 attacks on medical vehicles or personnel on route to a facility.
- Likely a significant underestimate compiled from Humanitarian organizations and on media accounts.

2012 and Beyond: How Technology Plays a Role

Began with a U.S. State Department initiative . Embassies instructed to seek information about attacks on or obstruction of health care services for inclusion in its annual country reports

Important step, but insufficient to fill documentation gap, which requires systematic reporting

"challenge to the global health community" and tasked the WHO with the responsibility of collecting and reporting data on attacks during complex humanitariar

2012 and Beyond: How Technology Plays a Role

- technology Martus: Humanitarian Rights Bulletin System
- · Enables grassroots NGOs to create a searchable and
- Rasy to use as email, can run on an inexpensive computer
 Does not require a constant connection to the internet
 Secure records are encrypted, stored securely at a
 remote site, backed up to multiple locations and protected by a unique password
- Cost

- · Current online databases exist, but none that utilize mobile
- encrypted database on an off-site server

2012 and Beyond: The Role of JHSPH The Center for Health and Human Rights is

developing a mobile data collection platform to

Team is in the process of finalizing a draft

Utilizing a system like KoboToolbox or MagPi, field staff will be able to collect data on a mobile device and transfer it to a computer for rapid analysis

In partnership with Backpack Health Workers, the



A Recent Technological Innovation to Protect Aid Workers: Smart Bracelets



- Developed by the Civil Rights Defenders

 Named after Natalia Estemirova, a human rights defender who was
 murdered within 24 hours of being kidnapped in 2009

 Bracelet features both GPS and cellular technology and can be activated
- either manually or if forcibly removed It then sends out an alert signal to the CRD's headquarters in Stockholm as
- It then sends out an alert signal to the CRD's headquarters in Stockholm as well as nearby ale workers and low enforcement Includes a time stamp and the location based on mobile phone trionguistic Utilizes social media (Twitter, Facebook, Imail) to then send out predetermined messages and recommended courses of action to those who sign on to the project Hope is that it will enable a quick response and draw widespread public attention and pressure Small-scale project: Plans to distribute 55 by 2014



Crowd-Sourcing Crisis Information in Disaster-Affected Haiti: Ushahidi

- First used in Kenya in 2008
- Provides a way for volunteers to collect information from text messages, blog posts, videos, phone calls, and pictures, which are then mapped in real time
- The end result is a crisis map that provides humanitarian actors on the ground an overview of the situation
- Even in Haiti, where technology is sketchy at best, it proved effective