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Introduction

Global Health Context

- Innovations in health derive mainly from the technologies applied to other fields
 - · m-health Thecasesolutions.com
- 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

The Role of the WHO

Thecasesolutions.com

- 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

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Global Health Context Thecasesolutions.com

- 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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http://www.colbertnation.com/the-colbert-repor videos/424776/march-26-2013/eric-topol

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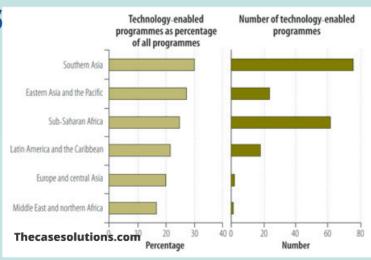
The Role of the WHO

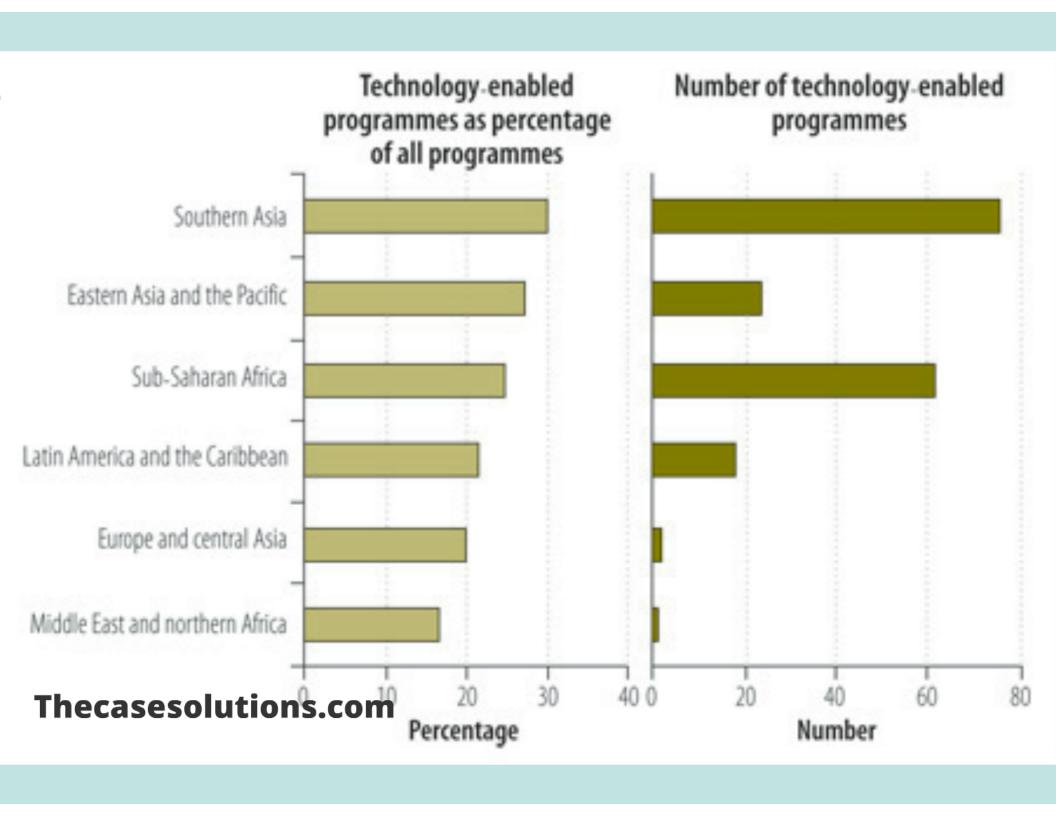
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Thecasesolutions.com The Role of Technology in Disaster Relief and Emergency Response Efforts

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
- 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



Crisis Mapping in Post-Earthquake Haiti

- ains a number of unanswered questions about the potential

- Specifically, it has gained a tremendous momentu women's rights organizations in Haiti and beyond
- axampie: Ayst 18AG 305 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 pure some control of the control of

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
- So, why hasn't much been done?
 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 Siscrete incidences of violence or otherast leading to the deaths or wounding of 1,500+ people, including: 462 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.

Source Mobile Education, Landard St. and Mobile S Michie. "Responsibility for Production of World

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

· In Jan. 2012, WHO Director acknowledged the problem as a "challenge to the global health community" and tasked the WHO with the responsibility of collecting and reporting data on attacks during complex humanitaria

2012 and Beyond: How Technology Plays a Role

- · Current online databases exist, but none that utilize mobile
- technology Martus: Humanitarian Rights Bulletin System
- Enables grassroots NGOs to create a searchable and encrypted database on an off-site server

- Isay 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

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 GFS 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

