Using
Mobile Data Collection
System (MDCS)
in
Disaster Response
Monitoring and
Evaluation



Anthony Alindogan

He on the side of technology wins

- Napoleon

All the biggest technological inventions of man – the airplane, the automobile, the computer – says little about his intelligence, but speaks volume about his laziness









Flickr/Creative Tools

www.cdint.org



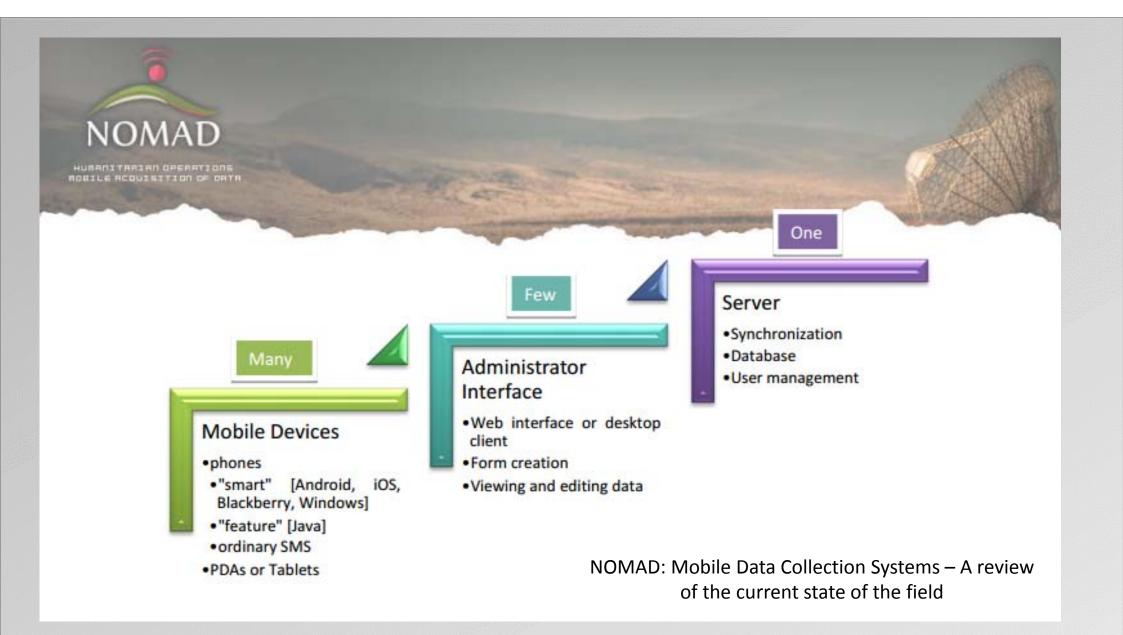






Mobile Data Collection – targeted gathering of structured information using devices such as smartphones, PDAs or tablets.

- Jung, 2011











Dec 24, 2011

A great example of how we can have a 2-way technology transfer between the space program and the developing world. If we are going to explore beyond Low Earth Orbit (which we should) we will need to adopt the engineering philosophy used in the developing world. Namely engineering solutions need to be: robust,

and not need a great deal of training or resupply. It also shows how open source tech like the Open Data Kit (ODK) app on +Google Android phones can help the developing world. Cool Stuff!

https://plus.google.com/+RonGaran/posts/b4oBaj3VTQW

DTI maps entire Bohol Tourist Site with Galaxy Tabs

ABE OLANDRES □ JULY 27, 2011

DTI-GIZ, under the Private Sector Promotion Program (SMEDSEP), came up with this pretty neat Google Mapping project to map the whole island of Bohol and all of its 700+ tourist sites and tourism-related establishments.

The map was collected using Samsung Galaxy Tab running Open Data Kit (ODK) applications. The Holy Name

University (HNU) research department fielded staff/personnel to do the site interviews.





Home > About

About

What is ELMO?

ELMO is The Carter Center's open-source ELection MOnitoring data collection and reporting system, built specifically with election monitoring in mind. Equipped with ELMO, observers can submit evaluations of a process – via tablets (utilizing Open Data Kit), SMB, or directly online – in real-time to mission headquarters. El MO's reporting system organizes observer findings, and is relied upon by The Carter Center missions around the globe to analyze data and to assess elections as well as broader political processes.

http://getelmo.org/about//

http://www.yugatech.com/the-internet/dti-maps-entire-bohol-tourist-site-with-galaxy-tabs/

Wisconsin Using ODK For Natural Disaster Assessments

October 14th, 2011 by Yaw Anokwa

A few weeks ago, we wrote about New York using ODK for health operations. Around the same time, we got a note from Andrew Faust of North Central Wisconsin Regional Planning Commission.

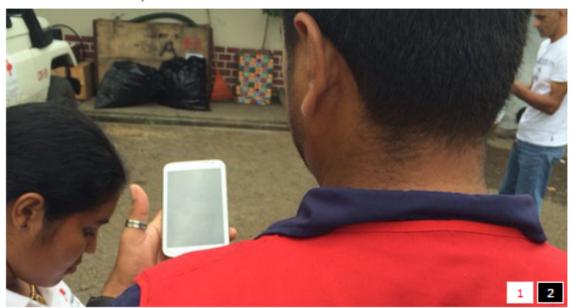
Andrew wrote, "Here in Wisconsin, we are using ODK to collect data in the field for assessment information after a natural hazard like storm, flood or tornado. This allows Emergency Response Professionals to collect information in the field in real time with an Android mobile device and map them in real time.



https://opendatakit.org/2011/10/wisconsin-using-odk-for-natural-disaster-assessments/

Panamanian Red Cross uses new technology to streamline distribution of humanitarian aid

Published: 18 July 2014 15:34 CET



Panamanian Red Cross volunteer reviews the information collected from beneficiaries using the ODK system on his mobile phone. Las Tablas, Panama, Alberto Cabrera IFRC.

http://www.ifrc.org/en/news-and-media/news-stories/americas/panama/panama-red-cross-uses-new-technology-to-streamline-distribution-of-humanitarian-aid-66450/





Source: Wikipedia

38 confirmed dead as Typhoon Rammasun cuts across the Philippines

By Euan McKirdy, CNN

① Updated 0604 GMT (1404 HKT) July 17, 2014



Top stories



Car dangles off parking garage in Austin



Car bombs kill 11 in Baghdad; ISIS takes credit

Source: CNN

Key Evaluation Questions

- 1. Are the items distributed during the project used for their intended purpose?
- 2. Are the items distributed of satisfactory quality?
- 3. Are the hygiene promotion activities conducted as part of the project effective?

METHODS

Program or project value in monetary terms

External Evaluation

Internal Evaluation

Small-scale evaluation reports

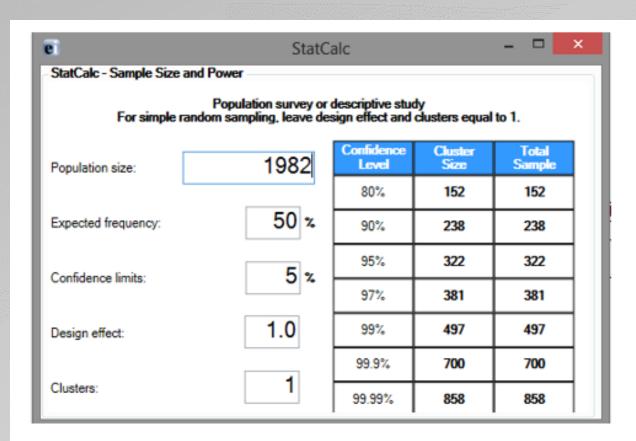
Surveys

Focus Group Discussions

Key-Informant Interviews

Document reviews

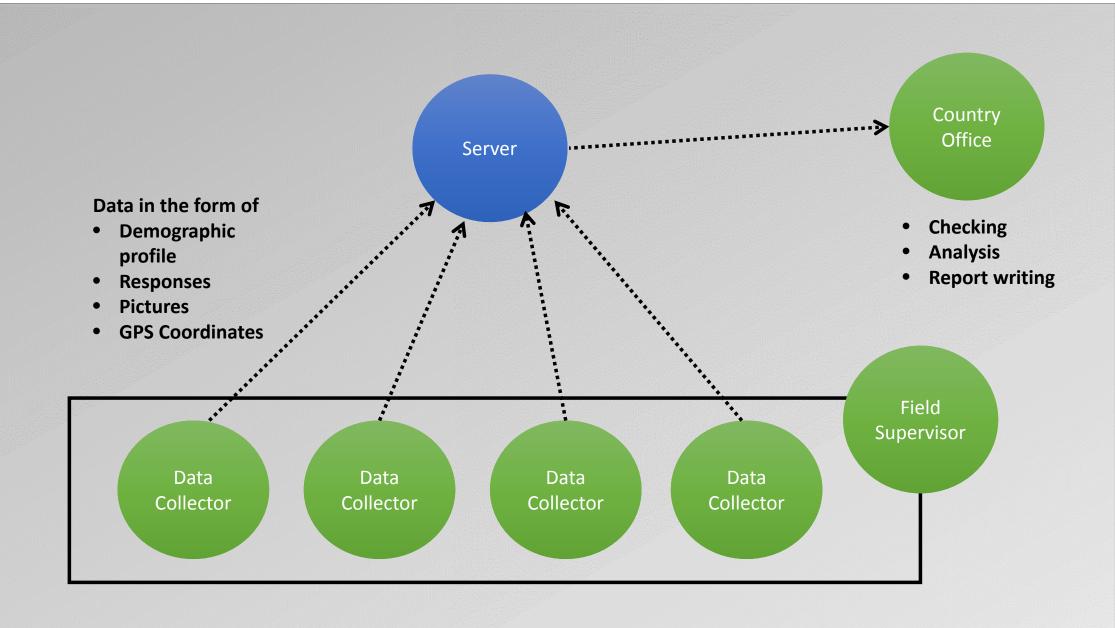
Other mrthods (quality checklists, CBA, etc)



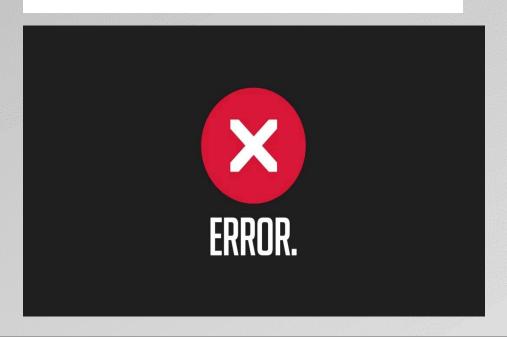
Total sample size requirement = 1982 samples (95% CI)

Table 2: Allocation of Sample Proportional to Beneficiary Location

Location	%	Allocated sample size
Tondo, Manila	75	241
Unisan, Quezon	25	81
TOTAL	100	322











	Question	Results		
		Hygiene kits	Tarpaulin/ Plastic Sheets	Hygiene Promotion
	Were the kits used for their intended purpose?	Yes – 100% of the kits were used for their intended purpose	Yes - 87% of respondents used the tarps. 13% kept them for future use	N/A
	Are items satisfactory from the community perspective?	Yes – 99% of respondents are satisfied	Yes – 100% of the respondents are satisfied	N/A
	Are the hygiene promotion activities conducted as part of the project effective?	N/A	N/A	Yes- 97% of the respondents expressed understanding of proper hygiene 96% were able to answer correctly the knowledge question for proper hygiene

Key Lessons in Setting Up a MDCS in the Disaster Response Setting:

- 1. Having a free software does not mean that an organisation can simply just use it.
- 2. Consider cost vs benefit
- 3. Create a user guideline
- 4. Efficiency in questionnaire design
- 5. PRE-TEST!
- 6. Make sure you have a back-up
- 7. Safety first use common sense

Thank you very much!