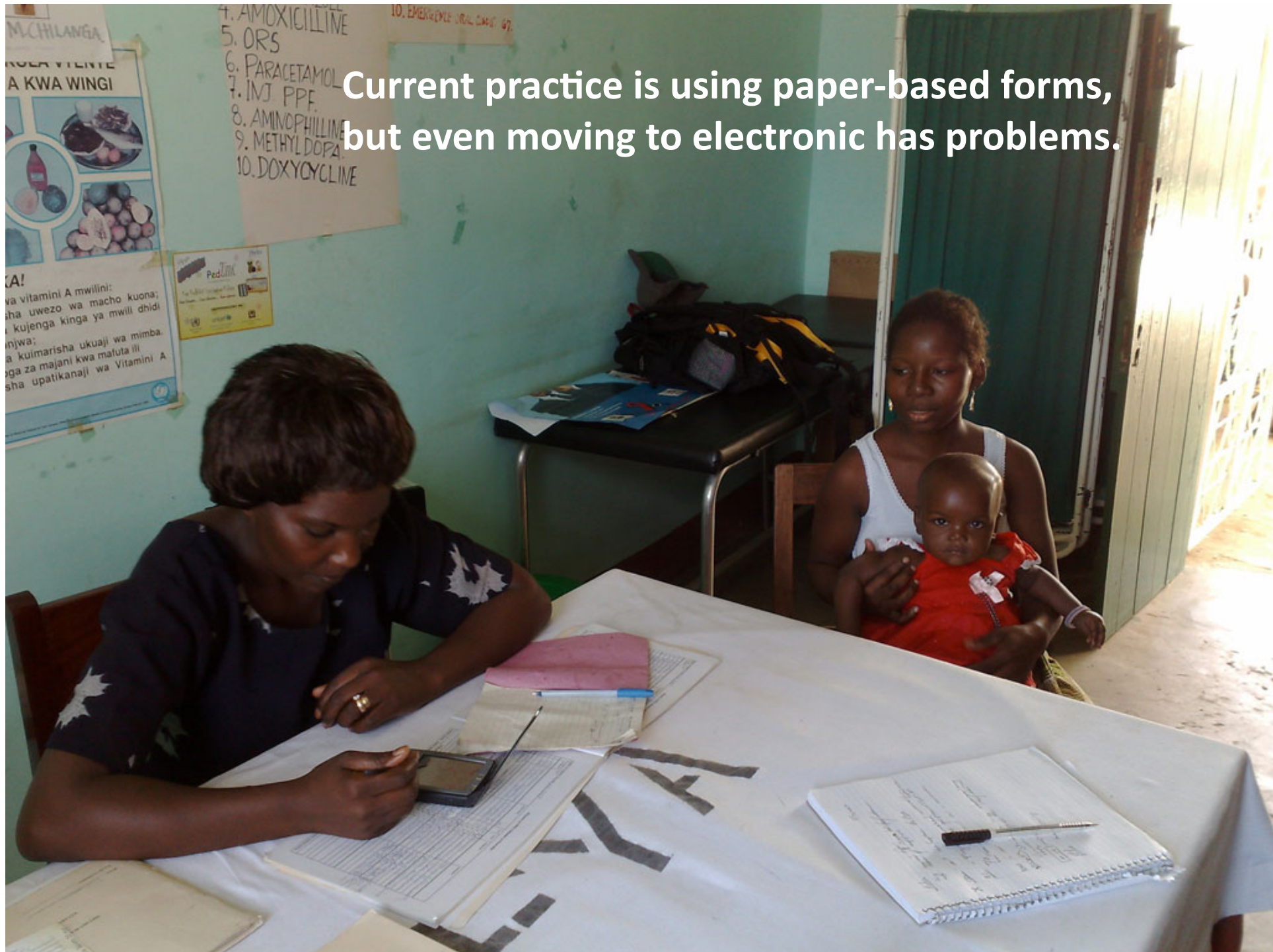


Open Data Kit

a suite of open source tools to help organizations collect, aggregate and visualize their data.

<http://code.google.com/p/open-data-kit>



Current practice is using paper-based forms, but even moving to electronic has problems.

4. AMOXICILLINE
5. ORS
6. PARACETAMOL
7. INJ PPF
8. AMINOPHILLINE
9. METHYL DOPA
10. DOXYCYCLINE

MCHILANGA

KUWA YENYE
A KWA WINGI

KA!

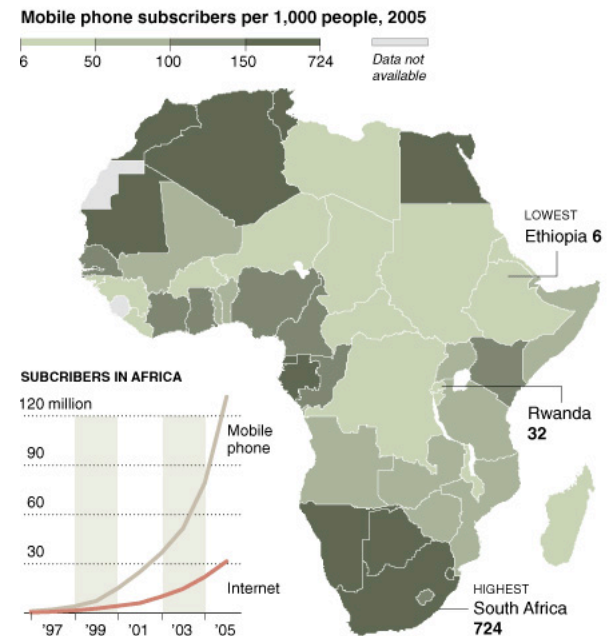
wa vitamini A mwilini:
iha uwezo wa macho kuona;
kujenga kinga ya mwili dhidi
injwa;
kuimarisha ukuaji wa mimba.
ga za majani kwa mafuta ili
sha upatikanaji wa Vitamini A

Data Collection Problems

- Current practice is paper-based forms
 - Physical collection of completed forms
 - Data transcription fraught with errors
 - Long time-lag to usable data in office
 - Difficult to supervise
- Moving to electronic, but still has problems
 - Limited processing and storage
 - Restricted input and output options
 - No access to inputs like location, photos, audio

ODK Goals

- Make tools modular and customizable so they can be composed appropriately.
- Exploit open interfaces and standards so that solutions are not expensively “siloed”.
- Establish data collection tools at the cutting edge of technology.



How do you collect rich data?

ODK Collect

ODK Collect, our Android client, renders a form, survey, or algorithm into prompts that provide navigation logic, entry constraints, and repeating substructures.



Forms are based on the XForms standard and support a variety of data types, like location, photos, audio, video, and barcodes.

Data be sent to any XForms-compatible server.

Where do you store the data?

ODK Aggregate

ODK Aggregate is a ready-to-deploy server that hosts forms and submitted results and provides standard interfaces to extract data such as spreadsheets, queries, and maps.

Aggregate is currently implemented on Google's App Engine, a free, reliable and scalable Web service.

7) Before this service existed, where would you learn this information? / Nga enkola eno tenabawo, amawulire nga gano wagajangawa? (select)	8) Would you tell your friends about this service? / Oyinzaa kubano kunkola eno? (select)	9) This service provides weather and farming information. What other topics would you like to see offered by this service? / Eno enkola ekuwa amawulire gebera yobudde ne byobubilimi, mu ki omulira mwewaliyagadde ofuna amawulire? (text)	10) Please record your location. / Tekamu ekifo woli. (location)	11) Please record the time. / Tekamu esawa wobuliza embera yobudde. (time)	12) Please enter the farmer's name. / Yingiza mu elinya lyo mulimi. (text)	13) Please take a picture of the farmer. / Omulimi mukubbe ekiffananyi lwaba ayagadde. (photo)
Radio	Yes	ku brosd	0.5276870727539062, 33.384087681770325	Tue Dec 30 18:22:47 GMT+03:00 2008	kisala.	
ku radio		where to get farm	0.521652102470398, 33.392053842544556	Tue Dec 30 17:39:06 GMT+03:00 2008	Peter	View Photo
district			0.493515, 33.43159	Tue Dec 30 13:51:28 GMT+03:00 2008	mark	
tewali			-6.712787, 39.215848	Tue Dec 30 14:36:38 GMT+03:00 2008	mwanga	
kumagombolola			0.45480072498321533, 33.63243341445923	Wed Dec 31 13:22:09 GMT+03:00 2008	Isa	View Photo
			41.52379035949707, 77.7857422828674	Tue Dec 30 09:19:43 GMT+03:00 2008	kyalipa paul	View Photo
			22459554672241, 2784683704376	Thu Jan 01 08:01:45 GMT+03:00 2009	wandavu fazali	View Photo
			193058586120605, 358284950256	Thu Jan 01 08:47:19 GMT+03:00 2009	were robert	View Photo
			33.62767517861557007, 33.62767517866681	Thu Jan 01 08:56:41 GMT+03:00 2009	were robert	View Photo



So does it work?



**Shared phone operator in Uganda
collects customer feedback.**

Grameen AppLab in Uganda

- ODK Collect has been used by AppLab since November 2008 by shared phone operators (SPO) in rural Uganda collecting 1000s of surveys.
- The SPOs survey their customers about available phone-based services and the results are used to guide the development of services like Google's Clinic Finder and Farmer's Friend.
- One user noted that unlike their old paper surveys, "*The survey process is real time as opposed to the paper forms where we had to wait for a month to be picked up...*".

A Kenyan counselor scans a patient's demographic information into ODK Collect.



HIV Counselors in Kenya

- AMPATH is the largest HIV treatment program in sub-Saharan Africa and is Kenya's most comprehensive initiative to combat HIV.
- Over the next two years, ODK Collect will be used in a home-based testing and counseling program where hundreds of phones will be used to reach millions of people.
- The collected data will be submitted to OpenMRS, a medical records system, for analysis and followup.



Examples include deforestation monitoring in the Amazon, decision support for patients in Tanzania, documenting war crimes in the Central African Republic, and monitoring school attendance in India.

Other Deployments

A world map with a light blue background and green landmasses. Several red location pins are placed on the map to indicate deployment sites. One pin is on the West Coast of North America. Another is on the East Coast of South America. A cluster of five pins is located in Southern Africa. One pin is on the East African coast, near Zanzibar. Another pin is in South Asia, near India. A final pin is in Southeast Asia.

- Surveying animals in Zanzibar
- Creating tools for entrepreneurs in Columbia
- Studying businesses in South Africa

Live Demo



**Patient checks his personal phone
for calls and text messages.**

Upcoming Tools

A person wearing a white uniform and a white cap is shown in profile, looking down at a mobile device held in their hand. The background is a plain, light-colored wall.

- Ensure forms and applications are on each device
- Voice based forms for automated follow up
- Task assignment and workflow management
- Send feedback to the data collectors
- Visualization of collected data
- Offline database synchronization
- Usable encryption for storage and transfer
- Reporting framework