Mobiles in Malawi

a rural healthcare initiative





Namitete, Malawi



St. Gabriel's Hospital

- I/4 million people
- 100 miles in each direction
 - 2 doctors
 - 400+ CHWs







FrontlineSMS + Healthcare



Recycled cell phones

\$10/handset





Labels

ID #s



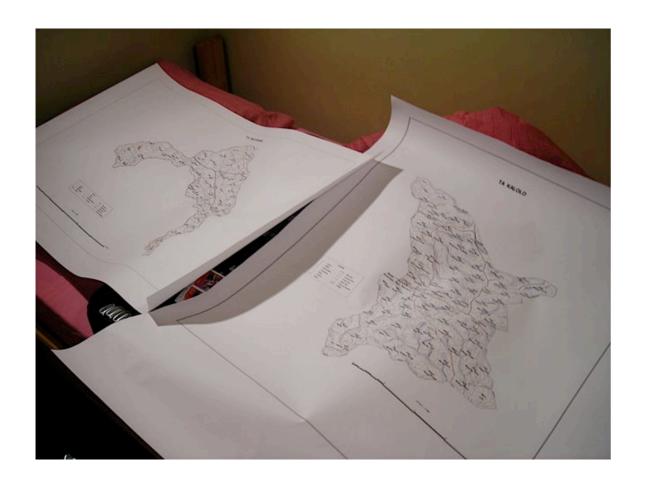


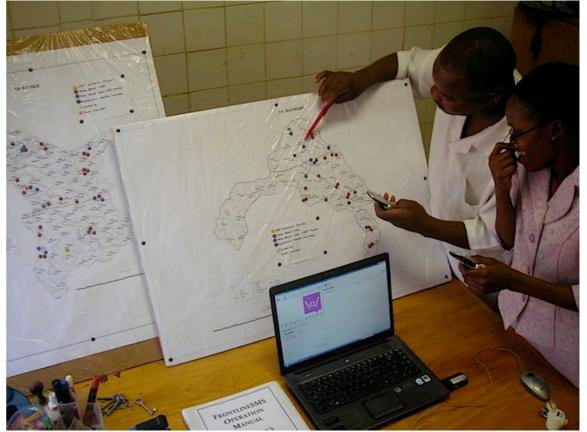


CHW Training











Now...

- Requests for remote patient care
- Tracking patients and doing follow-ups via SMS
- Auto-replies with correct drug dosage/ usage info
- HIV + TB drug adherence records
- Patient status records
- Coordinate and mobilize



Medical response



- 130 patients in 5 months
- 500 hrs saved
- 520 patient updates
- \$1,000 in fuel saved







400 ART adherence updates

900 hours of travel time saved





700 hours of follow-up time saved

\$2,000 in motorbike fuel saved

100 new patients enrolled in TB treatment program



CHW in village with cell phone

to

FrontlineSMS at hospital

to

Gmail

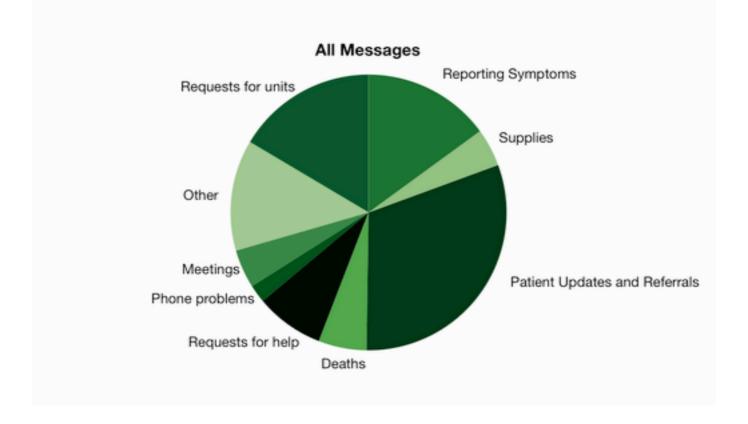
to

iPhone at Stanford



Translate Chichewa to English, and code every SMS...

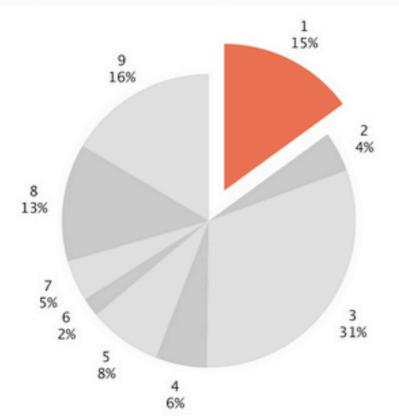
Purpose of Message	Number of Messages	Percent of Total
Report Symptoms	199	14.96%
Supplies	59	4.44%
Patient Reporting and Referrals	410	30.83%
Deaths	75	5.64%
Request for Help	107	8.05%
Phone Problems	28	2.11%
Meetings	60	4.51%
Other	173	13.00%
Request for Units	219	16.47%
Total	1330	100%

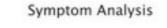


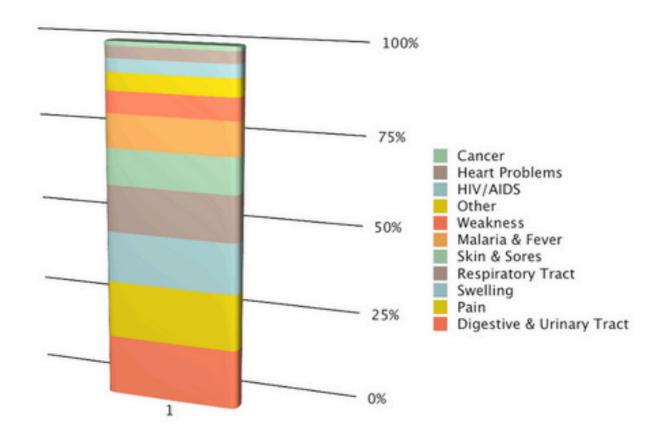


Symptoms within incoming text messages

Symptom/Illness Classification	Number of Messages
Digestive & Urinary Tract	41
Pain	39
Swelling	35
Respiratory Tract	32
Skin & Sores	25
Malaria & Fever	23
Weakness	15
Other	12
HIV/AIDS	9
Heart Problems	8
Cancer	3









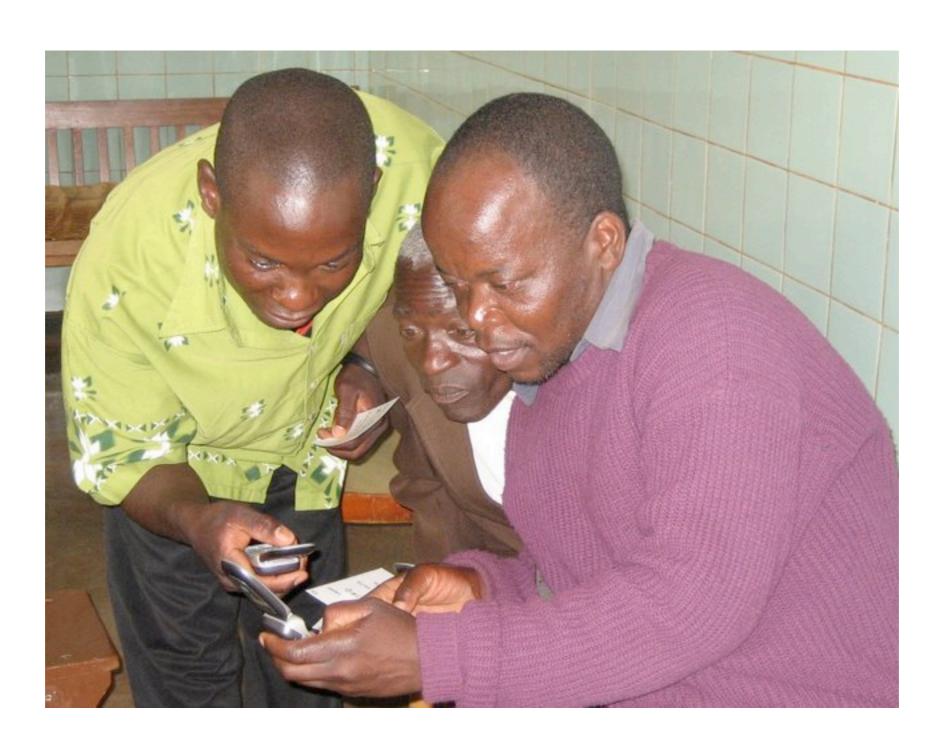
Things we had to figure out, on the ground:

I. Getting communication credit to the CHWs

2. Charging the phones



"34_Units"



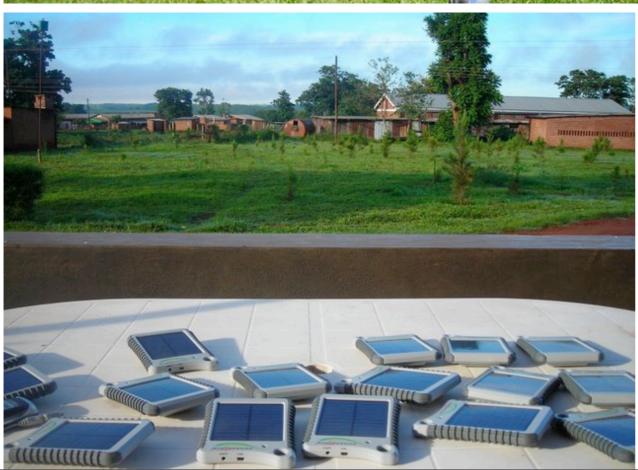
















Why FrontlineSMS Works

- I. It is free
- 2. Works with readily-available hardware
- 3. Doesn't require an internet connection
- 4. Intuitive and easy to use
- 5. The hospital found the tool, and not the other way around
- 6. Straightforward features enable local ownership and creativity
- 7. Only need 10 seconds to demonstrate the tech's purpose



Thanks!





http://medic.frontlinesms.com

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