







We all understand the opportunity in mobile





SMS is already used in Development

Citizen feedback

In Uganda, citizens use SMS to report issues in local government service provision, enhancing government accountability

Engaging youth

The U-Report system engages 1 million youth in 20 countries – allowing youth to share their concerns and providing a platform for public awareness campaigns

Better reporting on schools

In Kenya, school heads use SMS to report data on school quality and learner performance – enhancing speed, cost effectiveness, and quality compared to paper forms

Rapid evaluation surveys

Across Africa, programs use SMS for rapid evaluation to monitor program effectiveness, allowing for course correction if necessary

Monitoring disease outbreaks

During the Ebola crisis, SMS was used to monitor cases, educate the public, and help allocate resources to affected areas

Public health & behaviour change

In Uganda, SMS is used to raise awareness about diabetes among the public, health workers, and medical students

Monitoring drug stocks

Health workers can use SMS to monitor stocks of medicines at health facilities, such as in the Mtrac programme in Uganda

Communicating with the field

For an education project in Ghana, SMS is used to communicate with data collectors in the field, offering reminders about protocols and encouragement for a job well done





Defining the focus of this paper

Data collection for implementation

Feedback collected from beneficiaries or stakeholders – we know this works within the limits of response

Population based surveys

Interview a representative sample of the population for research or evaluation purposes.

In our development practice often need representative national, including rural, poor





Our research: SMS in population based surveys

How representative are general population SMS surveys, and are there ways to improve this?



Understand how SMS fits into the survey toolkit Provide practical guidance on how to optimise SMS survey design





Study design

Very robust face to face survey

An experimental design with SMS to test how design factors impact representativeness in Kenya

Testing what makes for a more representative sample





 Tested the impact of survey length, incentive, invitation day/time, and a "don't know" option

In depth qualitative interviews to understand reasons for non-response

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Unpacking the deeper reasons behind non-response

• 15 in-depth interviews with those who did not start the survey or did not complete it

Running optimal design across 3 countries – Ghana, Nigeria and Uganda – comparison with face-toface



- n=6,737 SMS survey across Ghana, Nigeria and Uganda
- Based on design factors that support best response rate
- · Stratified, national probability sample
- Collect robust paradata on timing and previous participation











Addressing our research questions

Research question #1

Does non-response have an impact on representativeness?

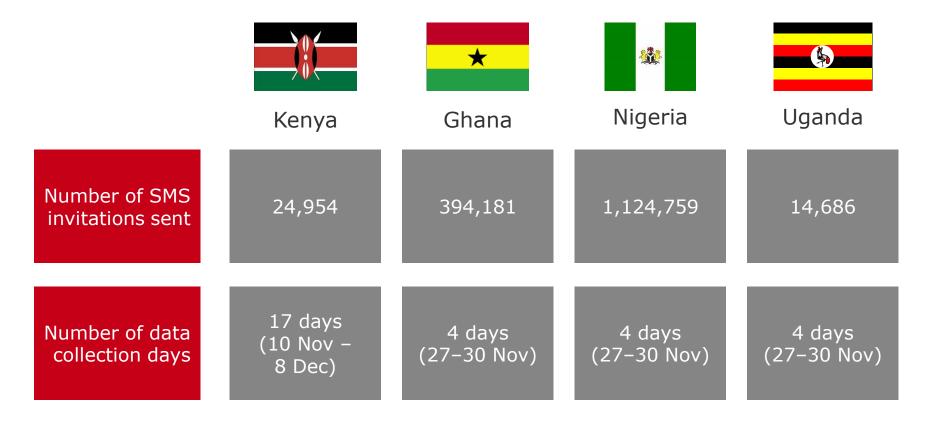
Research question #2

Can we improve quality through shorter surveys?





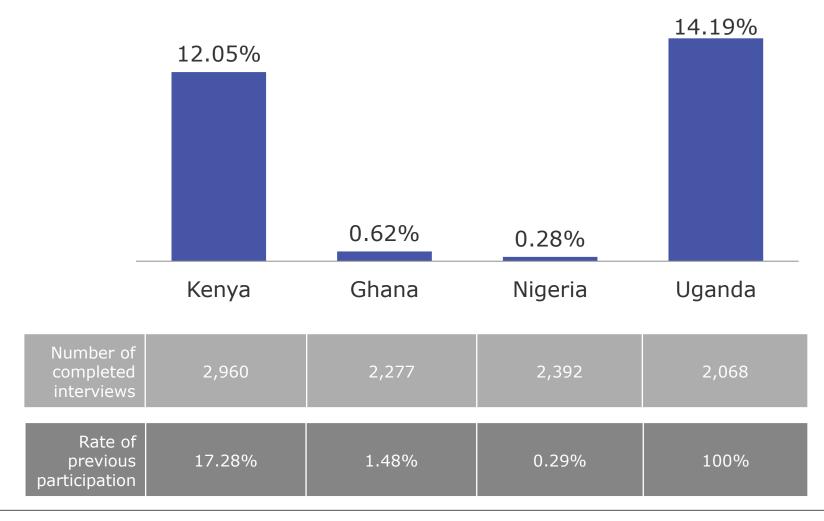
Data collection across 4 countries







Response rate by country







This biases our findings

Nigeria

Base size varies by question

SMS survey data Females aged 35-65 (unweighted)



Post-secondary education (weighted on age x gender)



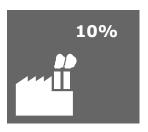
Full-time employment (weighted on age x gender)



F2F data







F2F data – mobile only











Also, compared to the F2F data for mobile users, the SMS respondents in Kenya were...



More likely to have more than 1 SIM card

(11 percentage point difference, n=2,915)



Less likely to have anyone else use their SIM card

(16 percentage point difference, n=2,808)



More likely to be aware of the internet

(4 percentage point difference, n=1,603)



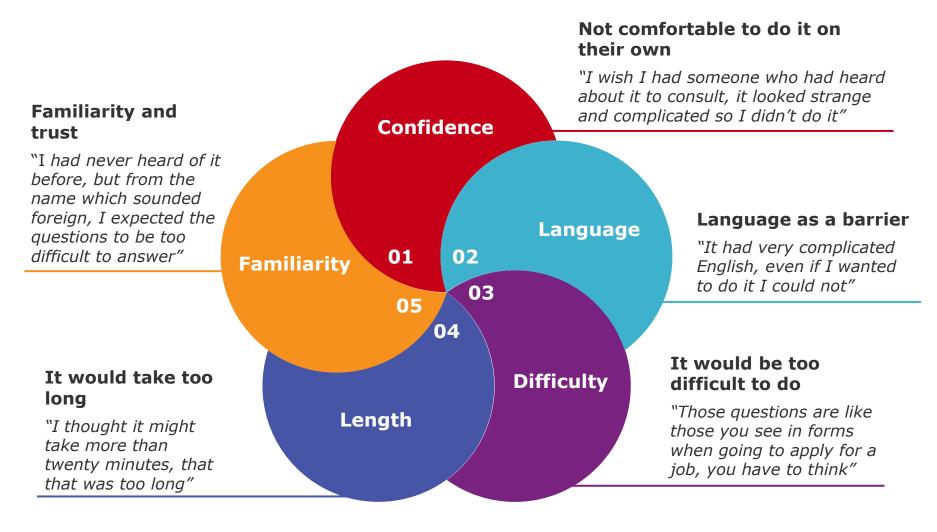
Amongst those aware of the internet, notably more likely to use it

(36 percentage point difference, n=1,230)





Why do people not respond?



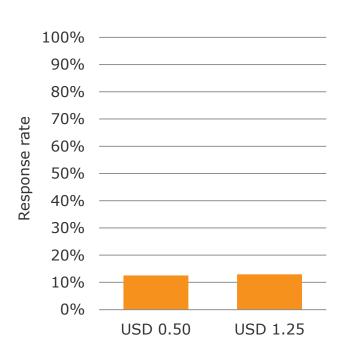
Base size: Kenya n=15





Is there anything else we can do to counter non-response?

Do not use incentives to increase response rate



Do use reminders to reach a wider slice of the sample



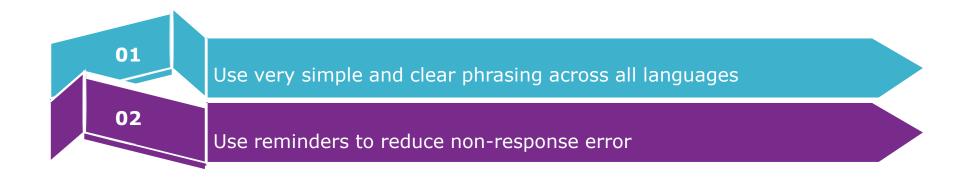




#2 Does non-response have an impact on representativeness?

Yes, even with larger samples, non-response does impact representativeness

To help reduce this impact, we would suggest that you:







Addressing our research questions

Research question #1

Does non-response have an impact on representativeness?

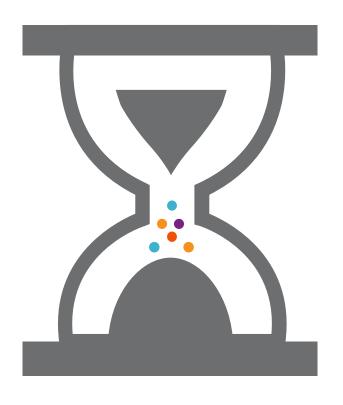
Research question #2

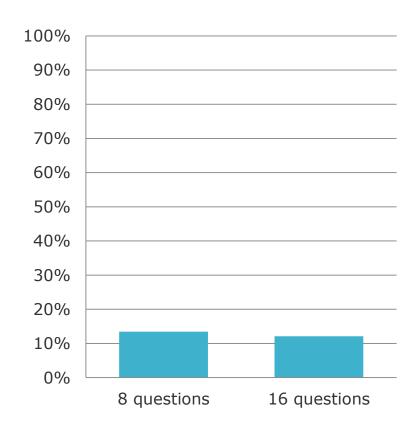
Can we improve quality through shorter surveys?





Survey length does not affect response rate



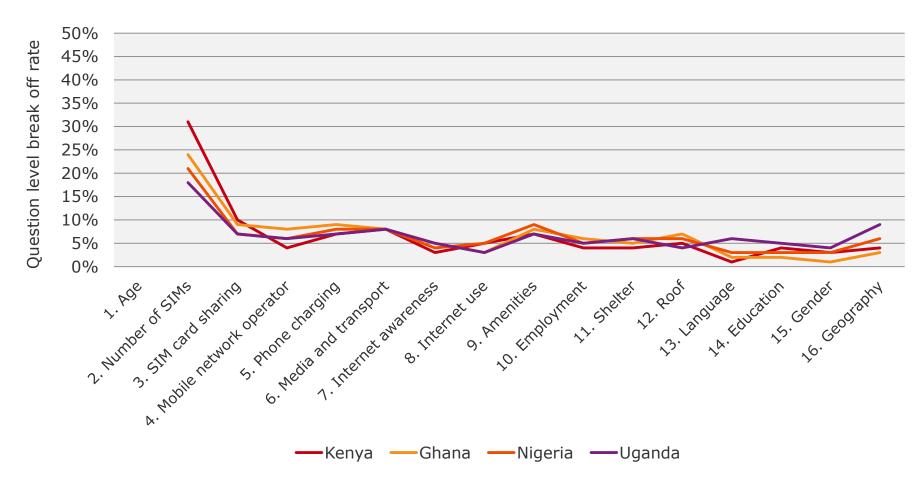


Base size: Kenya n=19,622





Break off rates do not increase in later questions



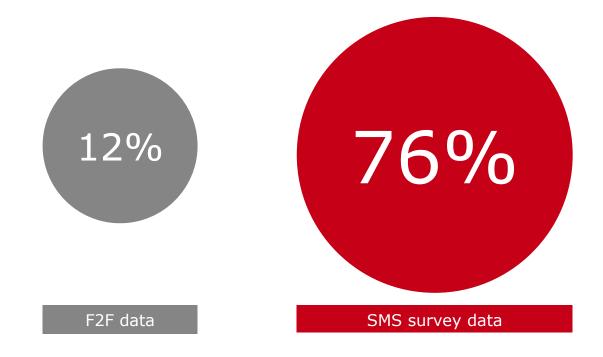
Base size varies by question





How many respondents only gave 1 answer?

We had asked: Which of these do you use twice a month or more? 1)TV 2)Radio 3)Car 4)Mobile phone 5)Computer 6)Motorcycle 7)None (Select all that apply)





I started to worry midway that I might be doing the wrong thing



Base size: Kenya n=1,646 Ghana n=2,277 Nigeria n=2,392 Uganda n=2,068





Using don't know responses to improve design



I stopped and thought, what if it is Kamiti prison inmates, people are usually conned through SMS, so I stopped







#3 Can we improve quality through shorter surveys?

Not necessarily, there is no evidence that a very short design improves quality

We would therefore recommend:













The potential of SMS research for the development community

SMS and representivity

Where representivity is your number one consideration SMS is not ready to step in and replace classic research

When SMS is extraordinary

There is no doubt that SMS is the only route to go for urgent crisis evaluations and rapid communications – look at data more "qualitatively" or as if from a key informant

Optimising SMS for now

Where SMS is being used right now, our results can offer practical guidance to optimise design



Keep an eye on it



Use it now



Do it better





Design recommendations for SMS

Know the source and the mobile landscape

Ask the difficult questions of your mobile sample provider

Unpack differences in coverage both within and across countries

Use reminders to counter non-response error

Use single response questions

Do not use "select all that apply" type questions

Save your **budget**

An increase in incentives do not support higher response rates

There is leeway in survey length

Survey length is not an absolute barrier but be cautious about the invitation wording

Use 'don't know' response to identify questions to improve – including the language and phrasing we use











