Mobile Data Collection

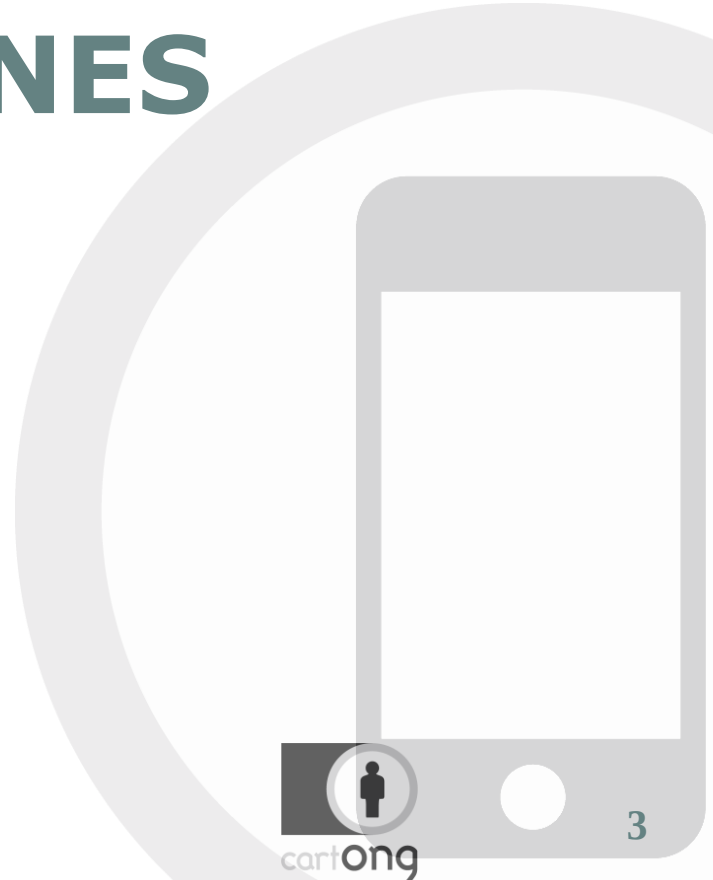
For Enumerators

With Open Data Kit (ODK)
On Android phones

Outline

- Android phones for mobile data collection
- Features of the phone, your responsibilities
- Letting the household know you are using new technology
- Introducing the phone
- Power management and phone settings
- The application: ODK
- Some tips
- Final exercise

ANDROID PHONES



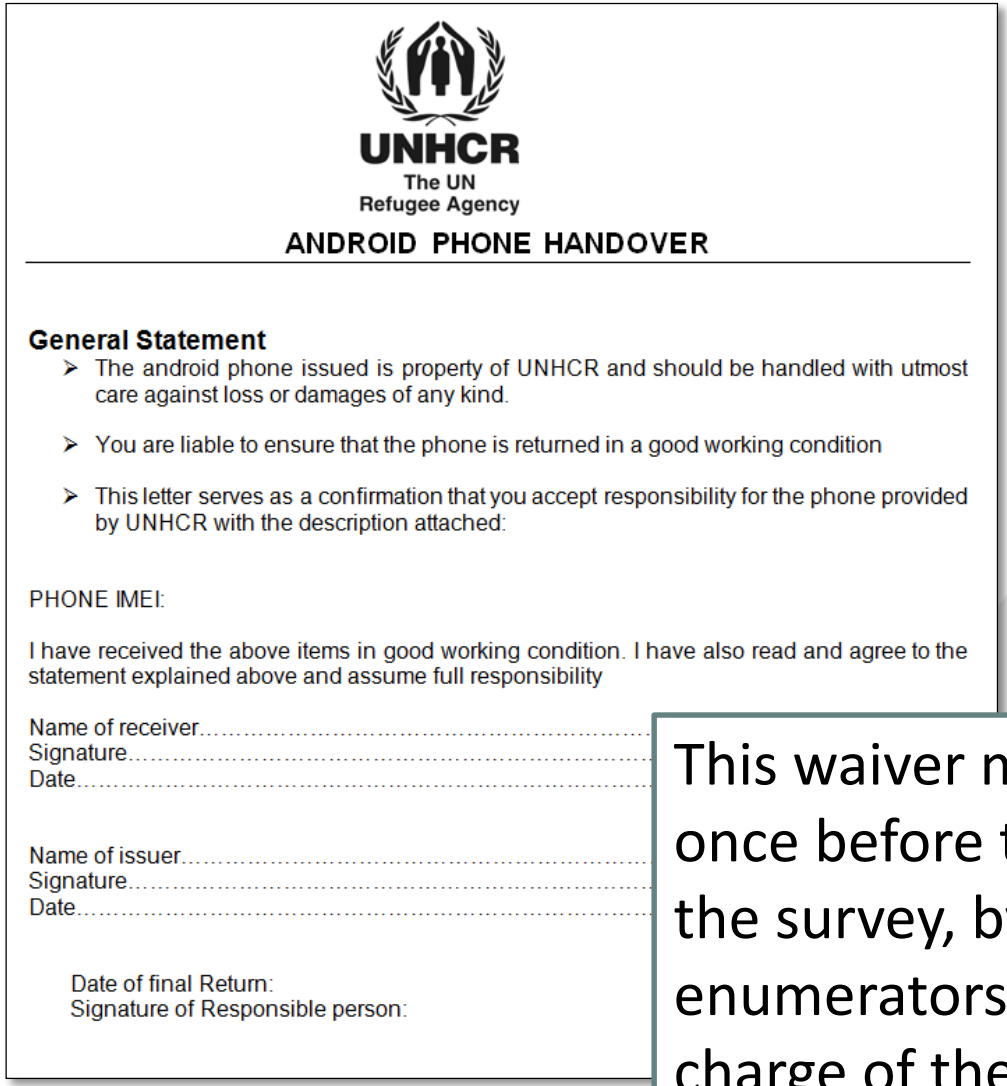
Android phones for mobile data collection

- Android phones have been used in various types of survey in many countries
- Pros
  - More accurate results
  - Faster
  - Easier to review, analyze, improved feedback from supervisors
- Cons
  - Expensive and fragile technology

Features of the phone, your responsibilities

- These phones are the property of UNHCR (or that of the partner). When they are in the hands of the enumerator, they are under his personal responsibility
  - **Never** leave the phone unwatched
  - **Never** leave the phone on a desk or bed, keep it in your pocket or handbag
  - Be careful!
- Enumerators will have to sign a waiver to acknowledge their responsibility over the phone

PHONE OWNERSHIP AND RESPONSIBILITIES



UNHCR
The UN
Refugee Agency

ANDROID PHONE HANDOVER

General Statement

- The android phone issued is property of UNHCR and should be handled with utmost care against loss or damages of any kind.
- You are liable to ensure that the phone is returned in a good working condition
- This letter serves as a confirmation that you accept responsibility for the phone provided by UNHCR with the description attached:

PHONE IMEI:

I have received the above items in good working condition. I have also read and agree to the statement explained above and assume full responsibility

Name of receiver.....
Signature.....
Date.....

Name of issuer.....
Signature.....
Date.....

Date of final Return:
Signature of Responsible person:

Slide to be adapted by each partner

This waiver must be signed once before the beginning of the survey, by each of the enumerators who will be in charge of the phones.

Phone ownership and responsibilities

Sondage de Sécurité alimentaire du Burkina Faso
Inventaire des téléphones par équipe et par jour

DATE:

PreTest	Xperia Barcode/IMEI	G1 Barcode/IMEI	Team leader	Signature	Team colour
Team 1	351676030088209	12468001490007			red
Team 2	351677030034813	12468001495048			yellow
Team 3	351677030073092	12468001496087			pink
Team 4	351677030072961	12468001493050			orange
Team 5	351676030030847	12468001494843			blue
Team 6	351676030122990	12468001495998			green

Example of sheet that needs to be signed every morning by the team leaders and every night by the survey supervisor. Hence the team is responsible for the phones during the data collection period, but not overnight when the phones are with the survey manager.

LET THE HOUSEHOLD KNOW YOU WILL BE USING A PHONE…

- Something to consider is that this new technology may be intimidating.
- It is a good idea to let the person you are interviewing know what you are doing with this piece of equipment when you get the general consent of the family.

Introducing Android phones

1 **ON/OFF**
(on the side or on the top of the phone generally)

1 **STATUS BAR: WIFI/Network/Flight mode/USB Connect**
Here you can check your battery, the status of your connexion (Flight mode, WIFI and your settings for connecting to the computer via a cable in USB storage or USB Debug mode.

2 **Settings**
Change the settings of the phone (Wifi, USB debug mode) here.

4 **Other apps**
Other apps that can come in useful

3 **ODK Collect**
This is the software enumerators use to collect the information.

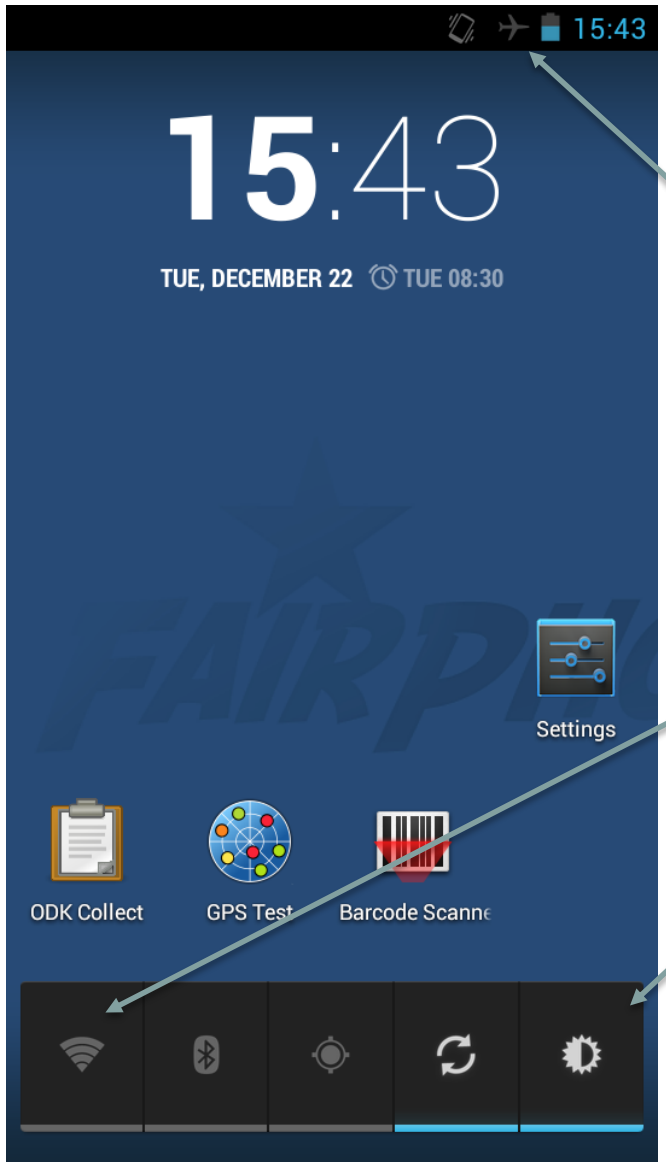
5 **Widgets**
Shortcuts to useful settings (wifi, display, GPS, brightness…)

2 **MENU**
(Button for options)

3 **Home**
(Unlock + go to homescreen)

4 **Back**

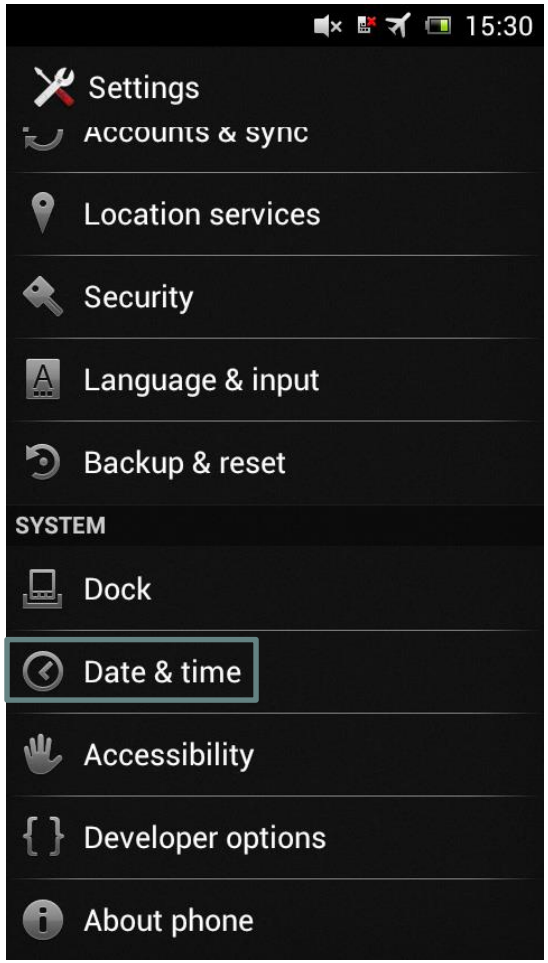
Power management and phone settings

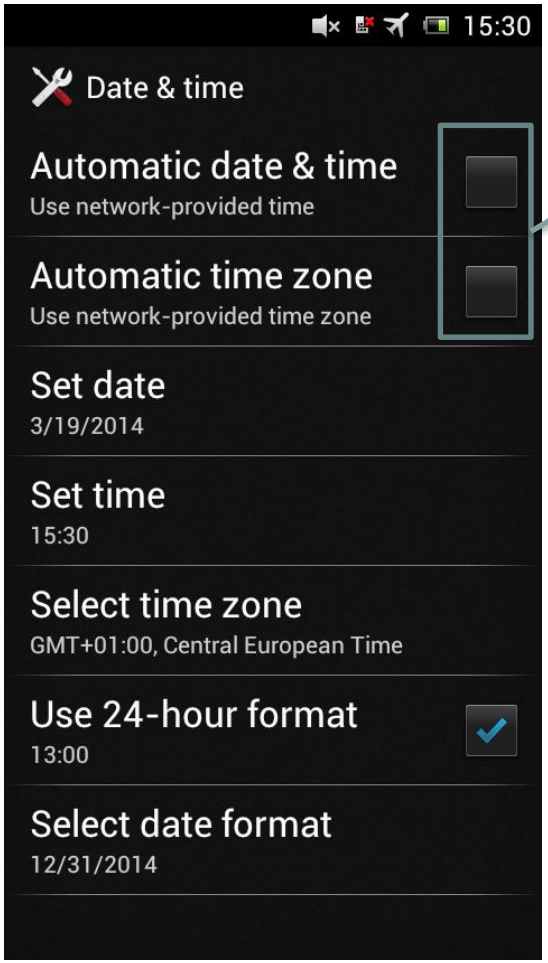


- To save power…
  - Flight mode **on**
  - WIFI **off**
  - luminosity must be **low**

Power management and phone settings

Make sure the date is correctly set





If not, unselect “Automatic” and enter the current date/hour

- Set up the time zone first, and then the date/hour.

Exercise: Adjust the settings

Set the date to June 20th, 2008, in the UTC time zone, at 8.45AM.

Make sure your phone is in Flight mode, that the WiFi is off and the luminosity of the phone is set to low.

Group discussion:

- What are the consequences of the phone's date on the survey?
- What happens if you accidentally delete the ODK application from the home screen?
- How does the phone needs to be configured to save battery?

THE ODK APPLICATION

The phases of an MDC

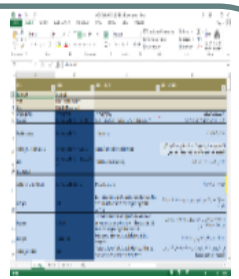
Design

Collect

Manage

Analyze

XLS Forms



KoBo Toolbox

ODK Collect

Tools

Kobo Toolbox

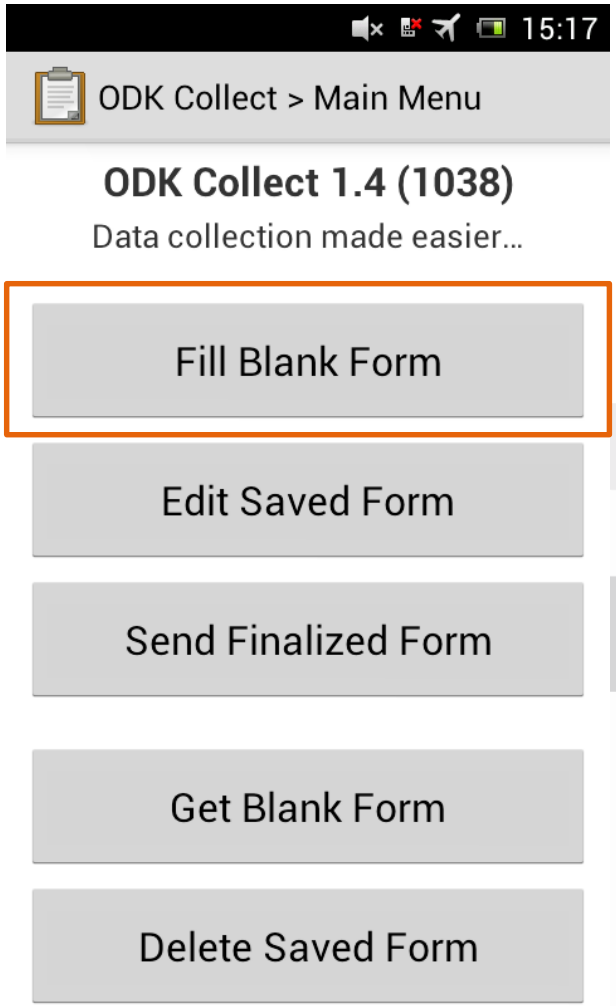
Sending blank forms

Sending Results

ODK Collect

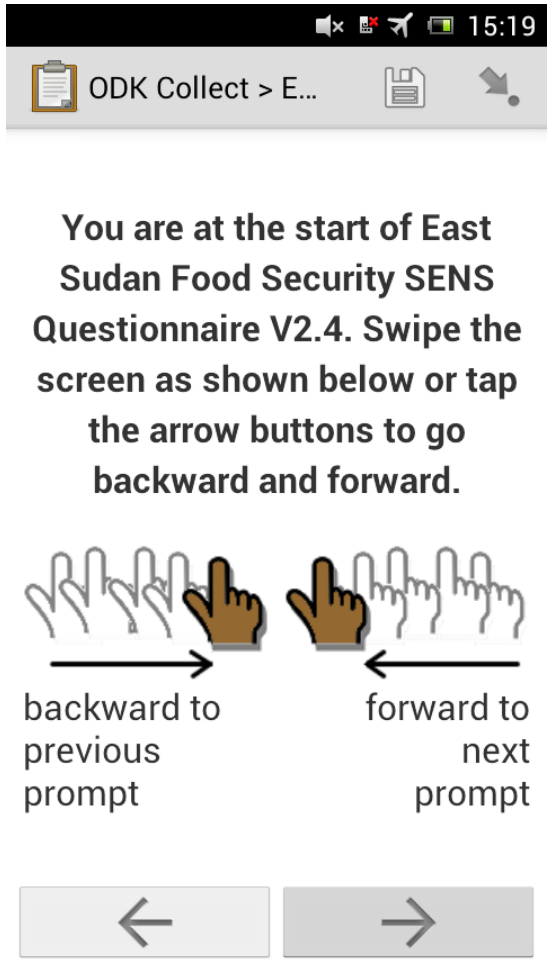
ODK Main menu

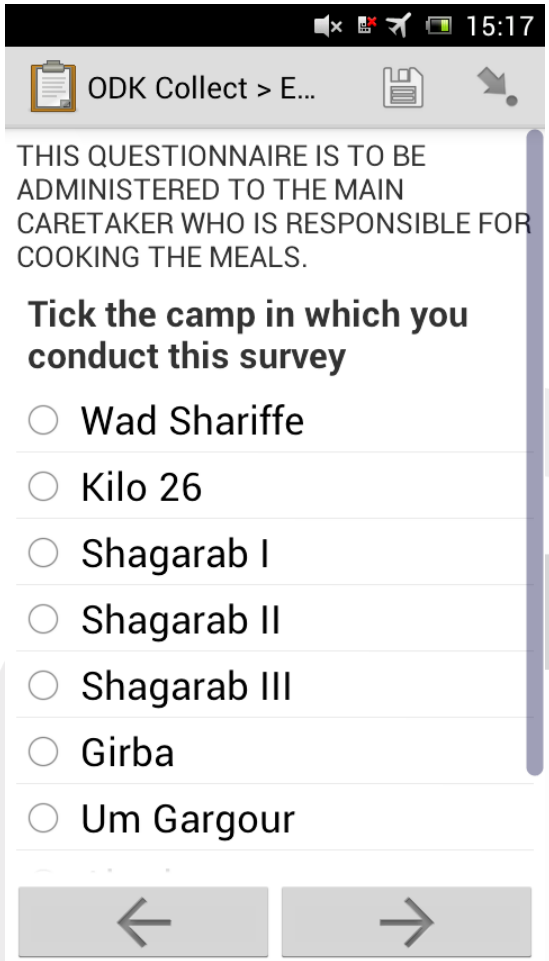
- This is the application where enumerators enter data.
- Enumerators will mainly use the 'Fill Blank Form' button.
- Only one form should be there, the WASH KAP



ODK Browsing through the form

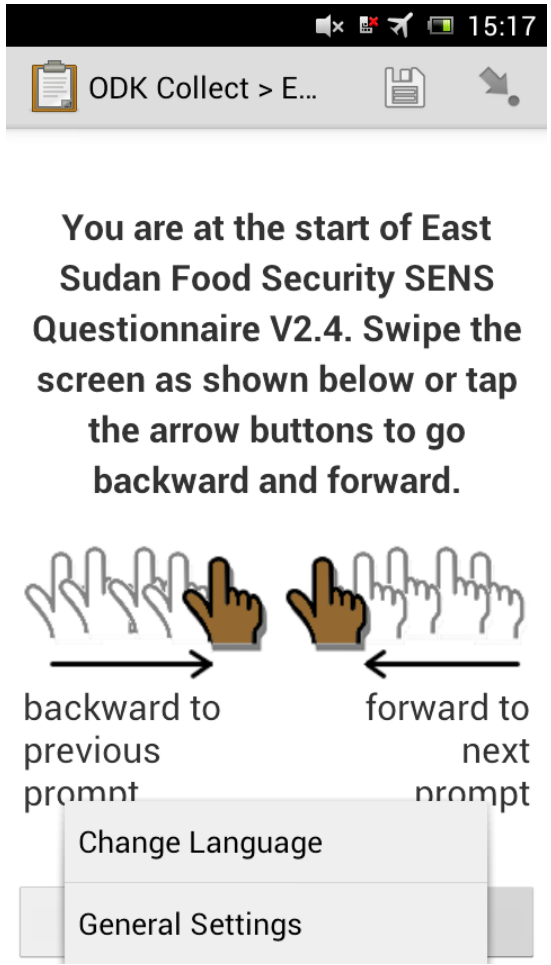
- When you are in the form, to go to the next question of the form you can either "swipe" the screen with the finger, or use the button at the bottom of the screen.

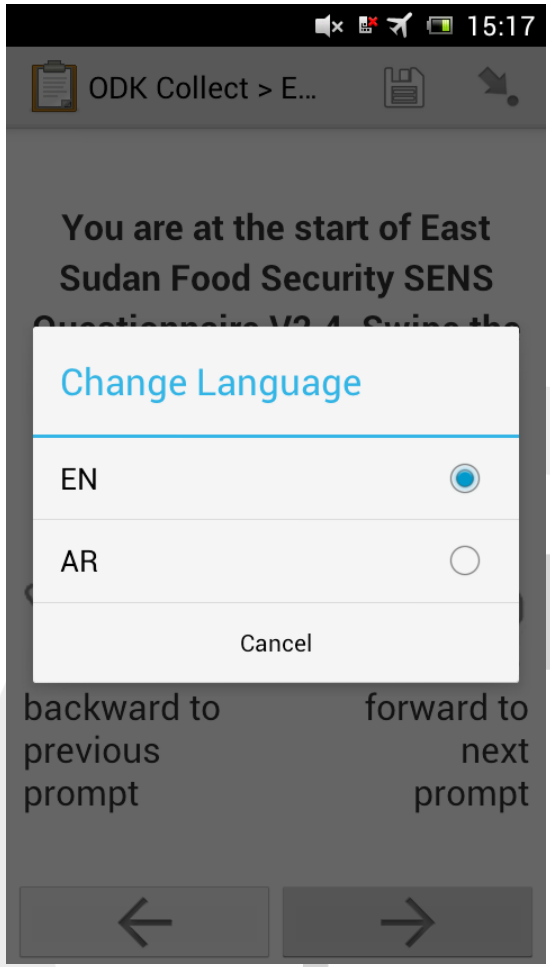




ODK Changing the language

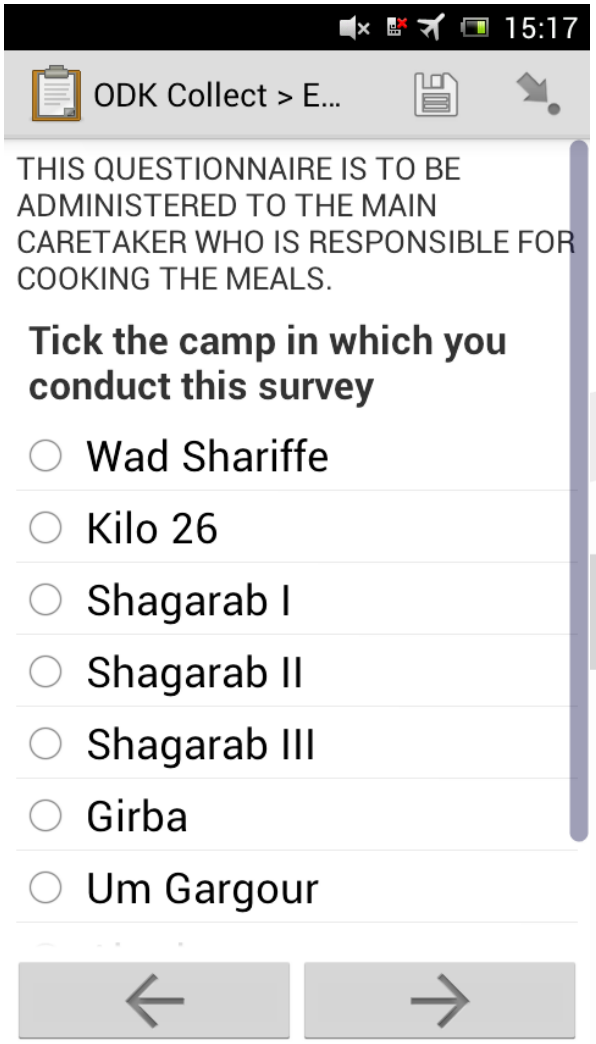
- To change the language of a questionnaire: once the form is opened, click on the Menu button (bottom right button of the phone) and choose “change language”





ODK Select an option

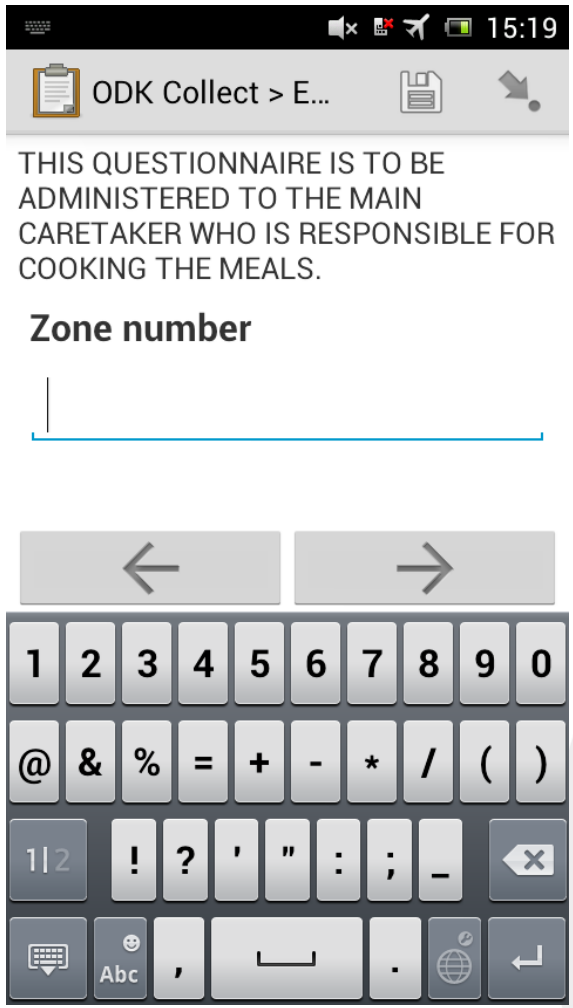
- This is an example of selecting one of the items on the form.
- When there is a circle (radio button), only one can be checked.

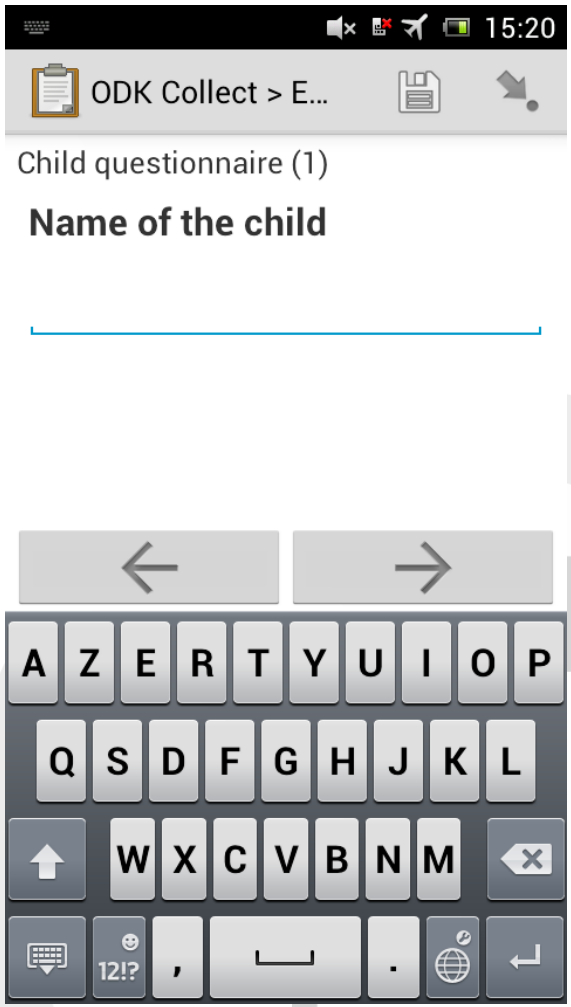


ODK Enter numbers/text

Example:

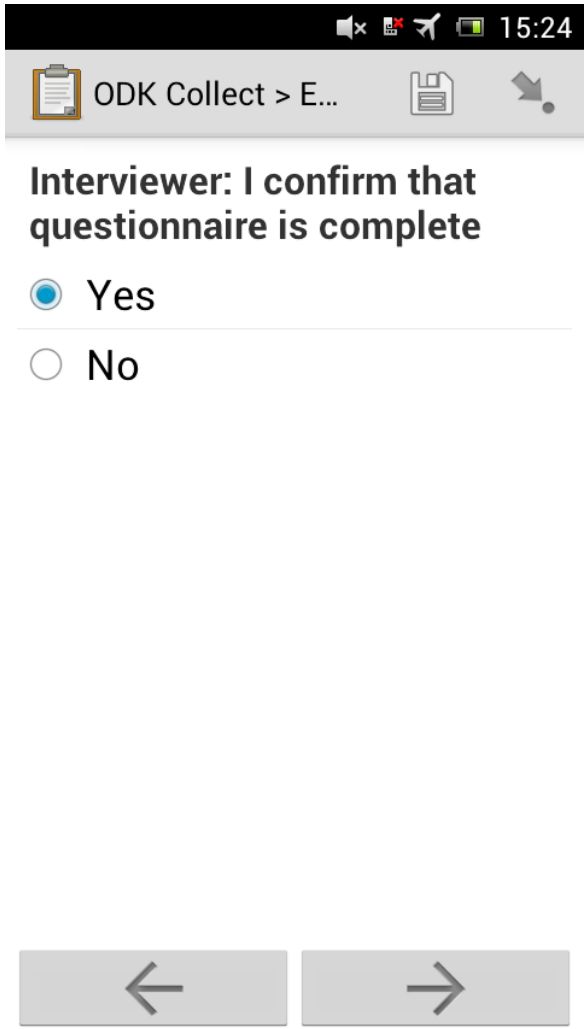
- This is an example of where an enumerator would fill out a form with text.
- The enumerator can use the key pad on the screen, or the phone key pad.
- For some fields, **only** letters can be used, and for other fields, **only** numbers can be used. Ranges can be set by managers.

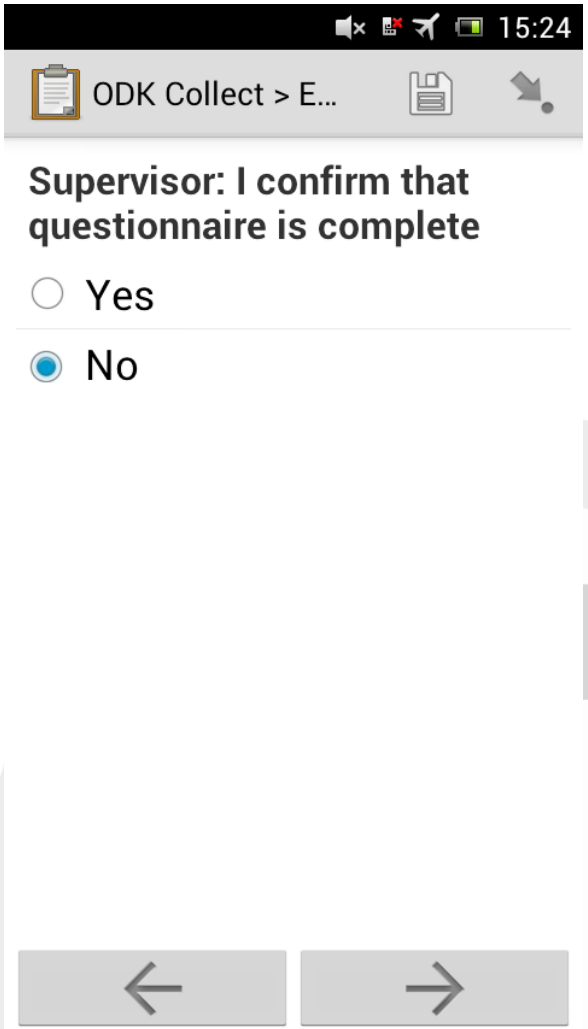




ODK End of the form

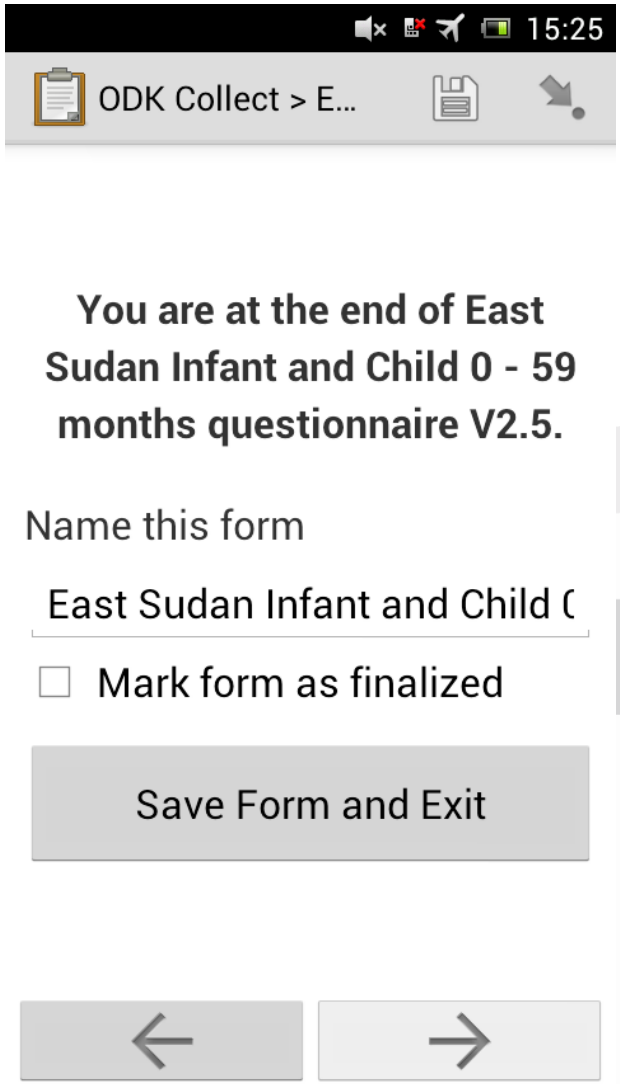
- When enumerators are at the end of the questionnaire and have finished the questionnaire in this household:
  - Tick 'Yes' to the question "Interviewer: I confirm that questionnaire is complete"
  - Tick 'No' to the question "Supervisor: I confirm that questionnaire is complete" (it will be filled by the supervisor later)





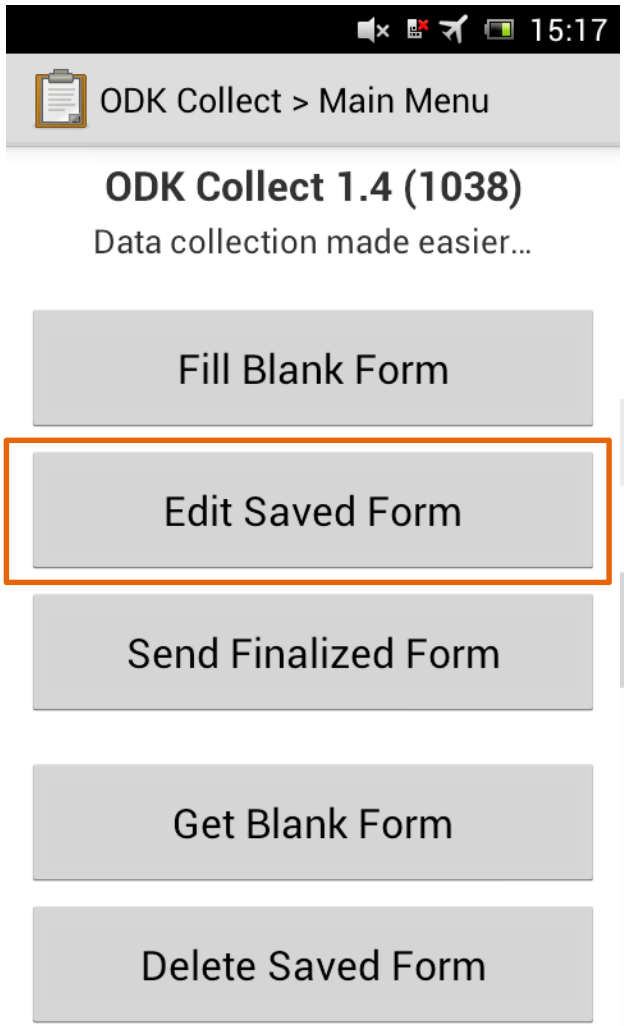
ODK Save Questionnaire

- Do **NOT** tick "Mark form as finalized" – leave empty
- Click on « Save Form and exit »
- Forms will be reviewed by supervisors every night, and sent to the computer

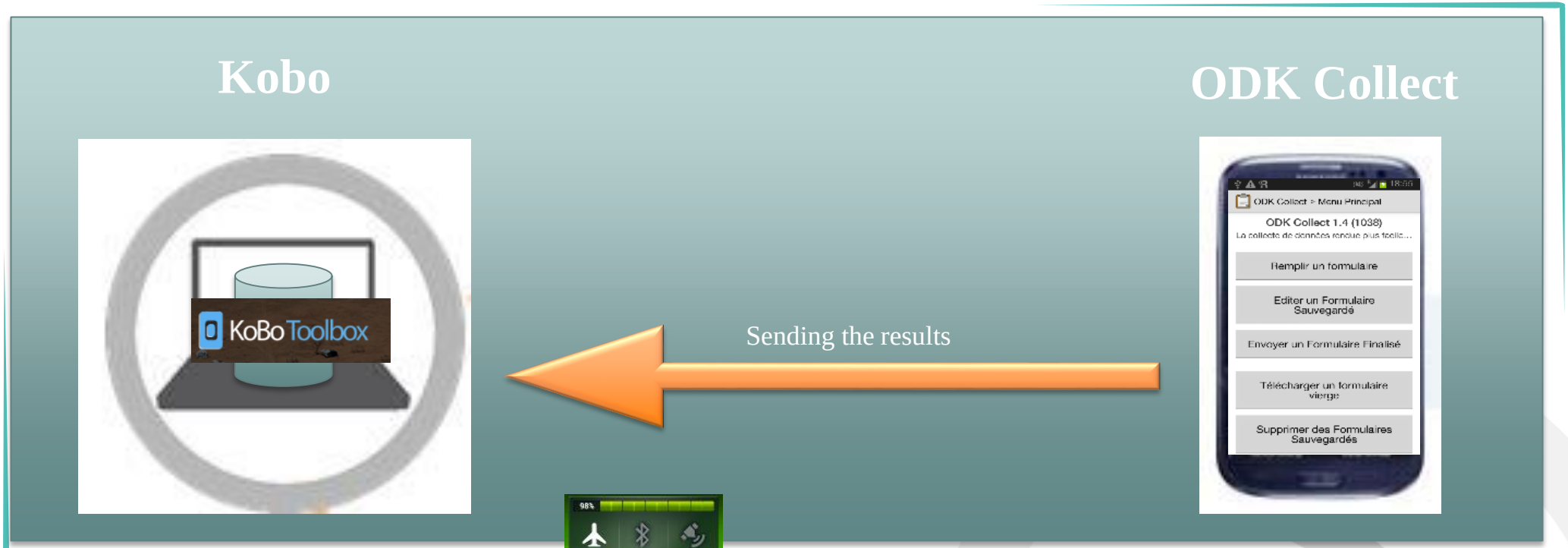


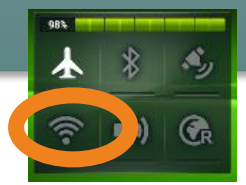
ODK Review data

- You can review saved data, by pressing the "Edit Saved Form" button in the main menu
- [Explain how to form are organized]



Send back the results to Kobo





- Activate the wifi
- Make sure to have « Mark form as finalized » and to have saved it
- Go to « Send Finalized Form », select it and send it

Some tips

- If you accidentally closed ODK: restart the application, most of the time it will open again where you left it.
- If the application crashes: turn the phone off and turn on again. Restart the application and check if the data from the form you were editing have been saved. You should find it back in the “Edit Saved Form” menu
- If the screen goes black: the phone just went to sleep mode, press the Home or On/Off button!

Exercise: Get familiar with ODK

Fill a WASH KAP Form. Fill it with random data, but try to make it as realistic as possible. Once the forms is complete, save it.

Group discussion

Were there questions you haven't understood?

Which module was the hardest to fill, and why?

Exercice: team discussion

- Please tell me:
  - How collecting on the phone can mean gaining time overall? Please give examples
  - How collecting on the phone augment the data quality? Please give examples

FINAL EXERCISE

Final exercise

Exercise 3: Scenario

WASH form: you are interviewing household 24 in block 4. The household has four members: one woman (pregnant), one child (24 months), one teenage daughter (15 years old) and an adult man. They own two 10 liters containers which they fill twice a day. Additionally, they have two containers of 3 liters which they also fill twice a day. They use water from a standpipe, which fortunately for them is just in the courtyard. They use a pit latrine which is shared with the neighbouring household.

After you completed and saved the form, record the number of liters per person per day used by this family.

Adapt to last version of the paper form (sources of Water etc) + add pics of containers?