Mobile Data Collection

For Enumerators

With Open Data Kit (ODK)
Android OS - Xperia Pro
Outline

- Android phones for mobile data collection
- Features of the phone, your responsibilities
- Letting the household know you are using new technology
- Introducing the XPeria Pro
- 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 nutrition surveys in more than 10 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. 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
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:**

<table>
<thead>
<tr>
<th>Team</th>
<th>PreTest Barcode/IMEI</th>
<th>G1 Barcode/IMEI</th>
<th>Team leader</th>
<th>Signature</th>
<th>Team colour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Team 1</td>
<td>351676030088209</td>
<td>12468001490007</td>
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<td>Team 6</td>
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<td>green</td>
</tr>
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</table>

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.
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.
Introducing the Xperia Pro (1)

ON/OFF
(you can also use this button to put the phone in Flight mode)

MENU
(Button for options)

Home
(Unlock + go to homescreen)

Back
Introducing the Xperia Pro (2)

1. **STATUS BAR:**
   - WIFI/Network/Flight mode/USB Connect
   Here you can check the status of your phone. For data collection you want to have it in Flight mode (little plane), for Synchronization in WIFI (waves) and for connecting to the computer via a cable in USB storage or USB Debug mode. You can also check the power left in your battery here.

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

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

4. **Applications**
   - This button gets you into the application menu to access other apps.
Power management and phone settings

To save power...
  – Flight mode
  – WIFI **off**
  – The screen’s luminosity must be low
  – Recharge the battery if necessary
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 1: Adjust your phone’s settings

Set the date to June 20\textsuperscript{th}, 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?
THE ODK APPLICATION
ODK Main menu

This is the application where enumerators enter data.

Enumerators will mainly use the ‘Fill Blank Form’ button.
After selecting ‘Fill blank form’, enumerators select any of the forms.

- Food Security
- WASH
- Mosquito Net
- Children (0-59 months)
- Women
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.
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”.

You are at the start of East Sudan Food Security SENS Questionnaire V2.4. Swipe the screen as shown below or tap the arrow buttons to go backward and forward.

- backward to previous prompt
- forward to next prompt

You can also change the language from the menu:

1. Tap on the Menu button (bottom right button of the phone).
2. Select “Change Language”.
3. Choose the desired language (e.g., EN for English, AR for Arabic).
4. Tap on “Done” to apply the changes.

You can also access general settings from the menu:

1. Tap on the Menu button (bottom right button of the phone).
2. Select “General Settings”.

This will allow you to adjust various settings for your ODK Collect app.
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.
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 Add a group

Example:

Add another group; if there are more than one woman or child in one household you can add them all one by one.
ODK End of the form

When enumerators are at the end of the questionnaire and have finished all questionnaires 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”

Rename the form
- Depending on the structure of the camp, the naming conventions should be decided during the training (usual pattern: FS-HH45B3S5 for House (HH) 45, Block 3, Section 5)

Click on « Save Form and exit »

Forms will be reviewed by supervisors every night
<table>
<thead>
<tr>
<th>Name of empty form</th>
<th>Name to use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Food Security</td>
<td>FSHHxxBxx</td>
</tr>
<tr>
<td>WASH</td>
<td>WSHHxxBxx</td>
</tr>
<tr>
<td>Mosquito Net</td>
<td>MNHHxxBxx</td>
</tr>
<tr>
<td>Children (0-59 mois)</td>
<td>CHHHxxBxx</td>
</tr>
<tr>
<td>Women</td>
<td>WOHHxxBxx</td>
</tr>
</tbody>
</table>
Enumerators or supervisors can review saved data, by pressing the “Edit Saved Form” button in the main menu.

The questionnaires will appear in the same sequence as they were saved.
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 back 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 On/Off button!
Exercises

Exercise 2: Get familiar with the phone

Fill an “Infant and Child” form and a “Food Security” Form. Fill it with random data, but try to make it as realistic as possible. Once these forms are complete, save them.

Group discussion
Were there questions you haven’t understood? Which form was the easier to fill, and why?
FOLLOW-UP DOCUMENTS
List of visited households

Gives an overview of visited households

One for each block

<table>
<thead>
<tr>
<th>Date de l’enquête:</th>
<th>Bloc No.:</th>
<th>No d’équipe</th>
<th>IYCF</th>
<th>WASH</th>
<th>Food Security</th>
<th>Mosquito Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. MN</td>
<td>No. men</td>
<td>No. surveyed</td>
<td>No. referred</td>
<td>No. MN</td>
<td>No. men</td>
<td>No. surveyed</td>
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<tr>
<td>Anthropometry and health</td>
<td>Enfants 6-59 mo.</td>
<td>Anaemia</td>
<td>Enfants 6-59 mo.</td>
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<td>Femmes 15-49 y</td>
<td>Enfants 0-23 mo.</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
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</tbody>
</table>
Household composition sheet

Gives an overview of the household structure

One for each household

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<table>
<thead>
<tr>
<th>Date</th>
<th>Camp</th>
<th>Bloc</th>
<th>MN Numéro</th>
<th>Numéro d’équipe</th>
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</thead>
<tbody>
<tr>
<td><strong><strong>/</strong></strong>/2014</td>
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</table>

<table>
<thead>
<tr>
<th>Identification et âge</th>
<th>Anthropométrie</th>
<th>Anémie</th>
</tr>
</thead>
<tbody>
<tr>
<td>#</td>
<td>Nom</td>
<td>M/F</td>
</tr>
<tr>
<td>---</td>
<td>-----</td>
<td>------</td>
</tr>
<tr>
<td>1</td>
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</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>n</td>
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</tr>
</tbody>
</table>
Standard Operating Procedure

- Record carefully the list of families you need to interview during the day (list of households)

- Make sure to have a clear overview of the household you’re interviewing (use the Household composition sheet)

- Plan your routine
  - We advise you to fill first the individual forms, then the household forms

- Record it on the List of visited households if you have to get back to one
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.

You also need to fill the Reproductive Women questionnaire for this household.

The daughter is ok with having the Hemoglobin taken and she is measured at 12.3 g/dL, and the women is not receiving the iron pills yet.

Also fill the Household composition sheet and the List of visited households.

Don’t forget to name the form following the pattern learnt during the training.