Mobile Data Collection

Using Open Data Kit (ODK)
• NO MORE DATA Entry!!
• Data quality improves with built in skip patterns, ranges etc
• Faster
• Cheaper (if devices do not have to be bought)
• Enumerators more motivated
• One device for capturing data, pics, sounds, videos, GPS, bar codes...
CHALLENGES

• Technical (IT) knowledge required and more training needed
• Restructuring of the survey; less visual than a paper survey; establish different collection procedures
• Electrical Power dependant
• Higher risk (security?)
PLANNING A SURVEY (1)

- Plan the survey:
  - How many teams? How many phones?
  - How many supervisors for data verification?
  - Which language?
  - Online? Offline? Internet? Wifi Router?
  - Power?
  - How many hours in the field? Cluster size?
  - Which questions are mandatory? Do you want to set data ranges?
  - Skip patterns vs empty cells in the database
  - Daily backup/extract of data needed?
PLANNING A SURVEY (2)

A potential day in the field:

- 6h45 Phones delivered to supervisors (Supervisors review any data errors – error records remain on phones for follow up)
- 7h00 Phones distributed and teams driven to blocks.
- 7h30 – 12h30 Data collection
- 12h30 – 13h00 Lunch break
- 13h00 – 16h00 Teams return to data collection
- 16h00 – 17h00 Supervisors review data on phones and validate records. Records saved as complete
- 17h30 – Phones returned to Project Manager at UNHCR
- 1730 - 18h30 – Completed data reviewed by Project Manager and records confirmed for synchronization with server—“send complete data”
- Overnight – Phones charged
Get to the ODK application

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

**Applications**
This button gets you into the application menu.

**STATUS BAR:**
WIFI/Network/Flight mode/USB Connect
Here you can see the status your phone is in. For collection you want to have it in Flight mode, for Synchronization in WIFI and for connecting to the computer in USB storage or USB Debug mode.

**Settings**
Change the settings of the phone (Wifi, USB debug mode) here.
To fill a blank form
SELECT ONE

Example:

- 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.
Check All that apply

Example:
- This is an example of selecting one OR more items on a list. When there is a box with a check-mark, more than one can be checked.
Add another 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
The END
Review Saved Data

Enumerators or supervisors will review saved data, by pressing the *Edit Saved Form* button.

- For Enumerators this will be relevant if they have to go back to a household to verify or get more data.
- For the Supervisors, they will go through the forms and save them as complete, if the data is ready for synchronization.
THE SURVEY MANAGER/ SUPERVISOR’S ROLE

Reviewing and Saving the Questionnaire

✓ It is useful to note when which field team was visited to ensure that the record which have been saved as “Finalized” have really been approved by the roaming supervisors.

✓ The approved records will be sorted according to when they were saved and they should contain the household number if the enumerators followed their instructions, however they can also be distinguished from the unfinished records, as the date and time is preceded by a “Finalized”. 
THE SURVEY MANAGER’S ROLE

Synchronizing

✓ Switch on the WIFI, normally all phones will connect immediately to the UNHCR_Android network (PW unhcr#android)

✓ Navigate to *Send Finalized Form*, toggle all records and send them.

✓ If necessary, verify the server settings through the menu button and *Change Settings*.

✓ The phone needs to be set up to [http://192.168.180.100:8080](http://192.168.180.100:8080)
THE SURVEY MANAGER’S ROLE

Form & Record Management

✔ Navigate to **Delete Saved Form**, here you can delete all records which were incorrect or old forms.

✔ You can also download the forms by clicking on **Get Blank Forms**