

## Mobile Phone Setup

Charge the phone to at least 50% before beginning setup.

If your phone is new, go through the standard installation dialogue.

Select the language you want and link to the local wireless network.

When ready, launch Google Play.

- If this is your first time using Google Play, it will you to create an account. Use the following account:
  - Username: [amcross.01@gmail.com](mailto:amcross.01@gmail.com)
  - Password: amcross01

When logged in, install the following 4 apps:

- 1 Fulcrum
- 2 Bluetooth GPS
- 3 GPS Essentials
- 4 Application Protection

These apps are used for the following:

- 1 Fulcrum is used for surveying and mobile data collection
- 2 Bluetooth GPS is used to connect to external GPS units
- 3 GPS Essentials is used to collect GPS points and tracks
- 4 Application Protection is used to manage enumerator's access to apps and the internet

Each app will need to be set up accordingly:

- 1 **Fulcrum:** Login using the standard enumerator account and sync in the most recent forms.
- 2 **Bluetooth GPS:** Go to the Settings menu, and check "Use Insecure Connection", "Connection Workaround" and "Other Workaround"
- 3 **GPS Essentials:** Go to Settings, and set Waypoint Overwrite Distance to 0.\
- 4 **Application Protection:** Set up a passcode. *Use the same passcode for every phone.*

## Mobile Phone Management

Charge your phone and *all* spare batteries each night.

Label every phone with a number and each battery according to those numbers. So phone 10 would have batteries 10a, 10b, and 10c.

Label each GPS with a number. Pair GPS with like-numbered phones.

Distribute phones, GPS and batteries in waterproof, zippable plastic bags.

Assign each volunteer one phone number for the duration of the training. Maintain a spreadsheet database tracking which volunteers have which phones.

Sync your Fulcrum forms at predetermined intervals (e.g. after every night of fieldwork, after every week of fieldwork)

## Fulcrum Management

Make a paper copy of your survey form prior to entering it into Fulcrum. Use this as a guide when entering and a backup in the field in case of severe phone issues.

Triple test your form on the phones before sending it out to the field. It needs to be extremely tight: survey design problems likely **cannot** be corrected during the course of the day.

Assign everyone associated with a given baseline to one of the 5 Fulcrum accounts you maintain and provide them the appropriate login details.

Assign surveys and offline maps to appropriate accounts ahead of time.

Make all surveys that you don't want seen inactive or unassigned to the appropriate accounts.