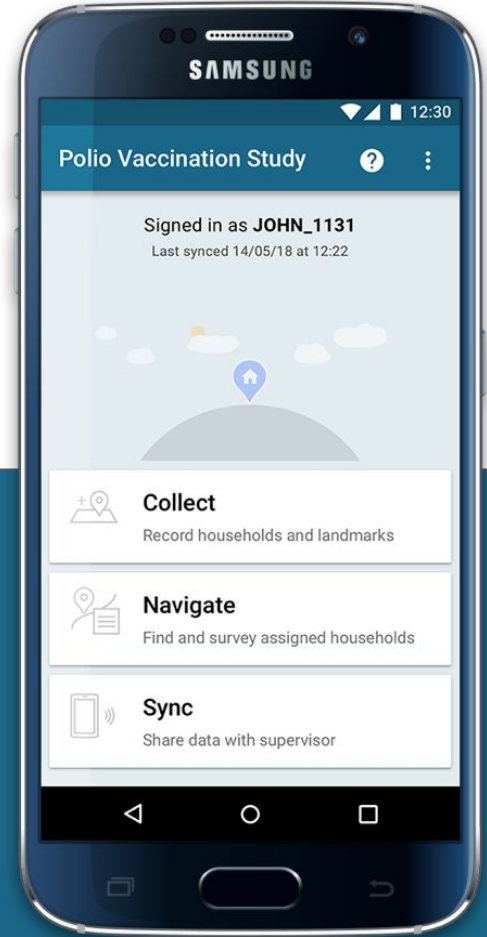




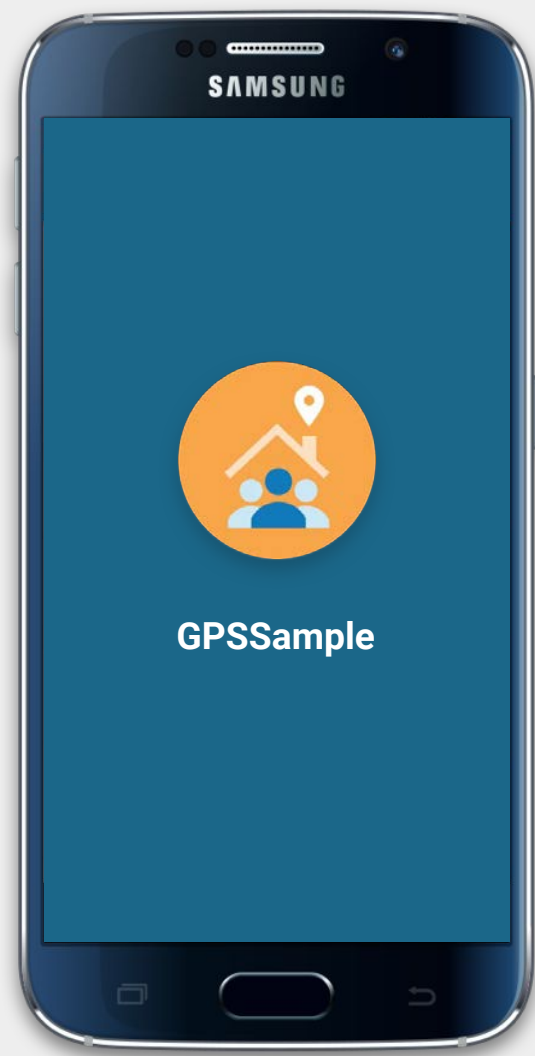
GPSSample

# Enumerator Guide

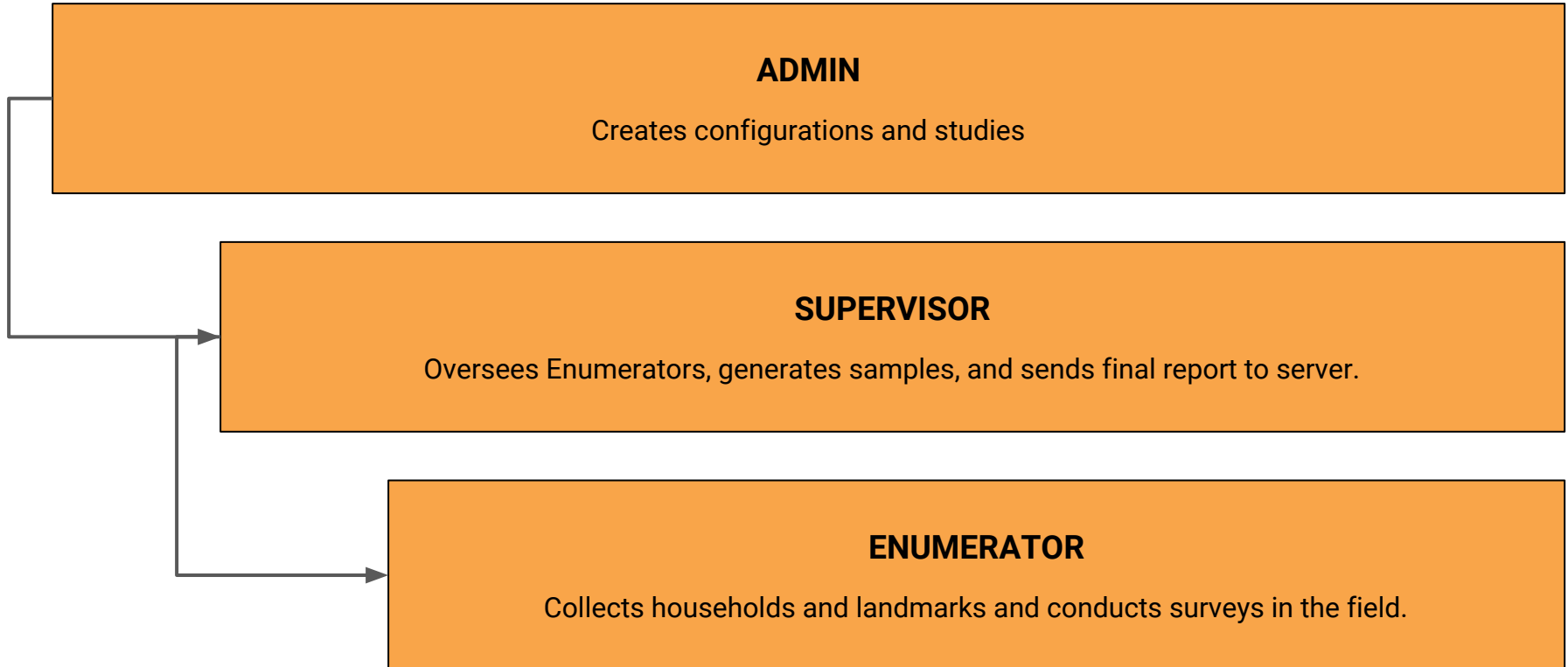


# What Is GPSSample?

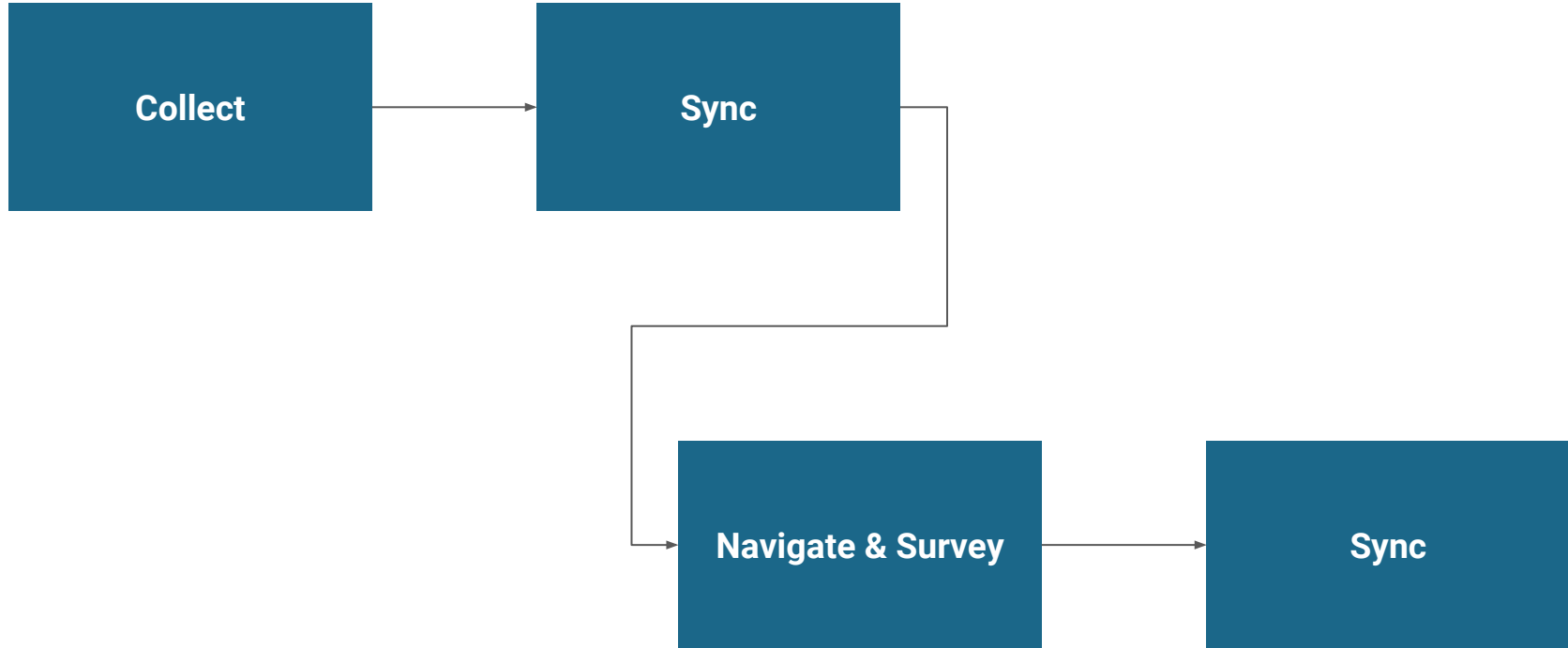
GPSSample lets your team record location-based information and generate statistical samples from it.



# User Roles in GPSSample



# Enumerator Workflow

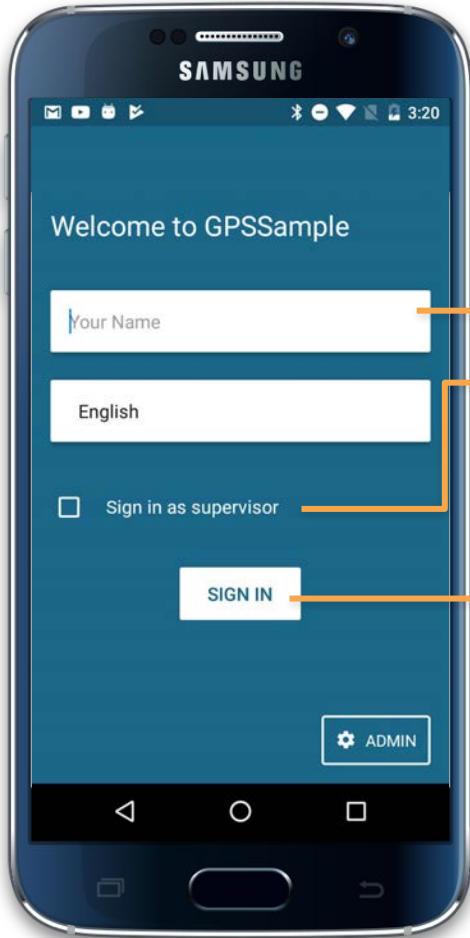


# Getting Started



# Sign In

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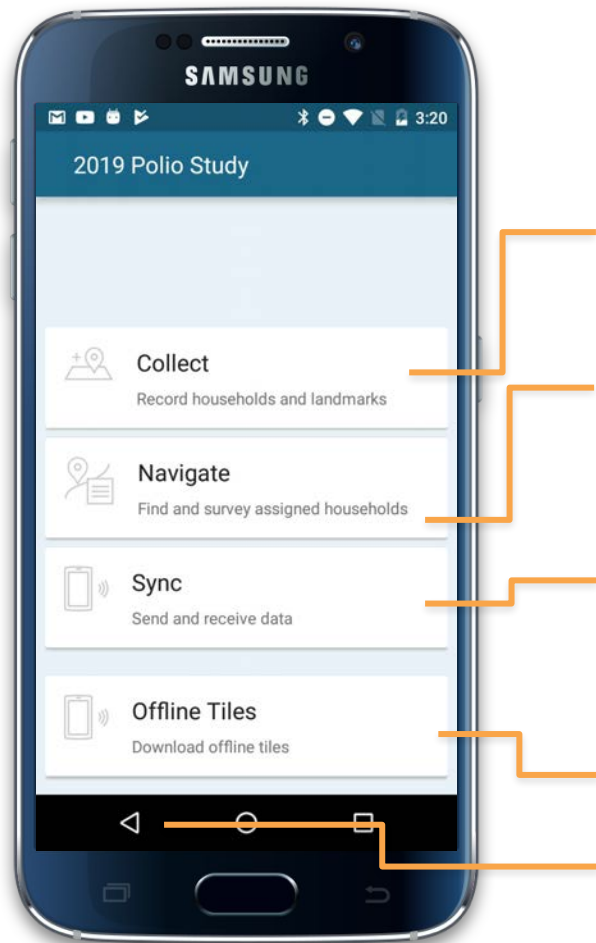
Enter your name (or the name assigned to you by your Supervisor).

Leave box unchecked.

Tap to go to [Main Screen](#).

# Main Screen

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**Collect:** The first part of the study, during which you will walk around the area and record all households and any important landmarks. [Learn more.](#)

**Navigate:** The last part of the study, during which you will go to a selected list of households and conduct surveys. [Learn more.](#)

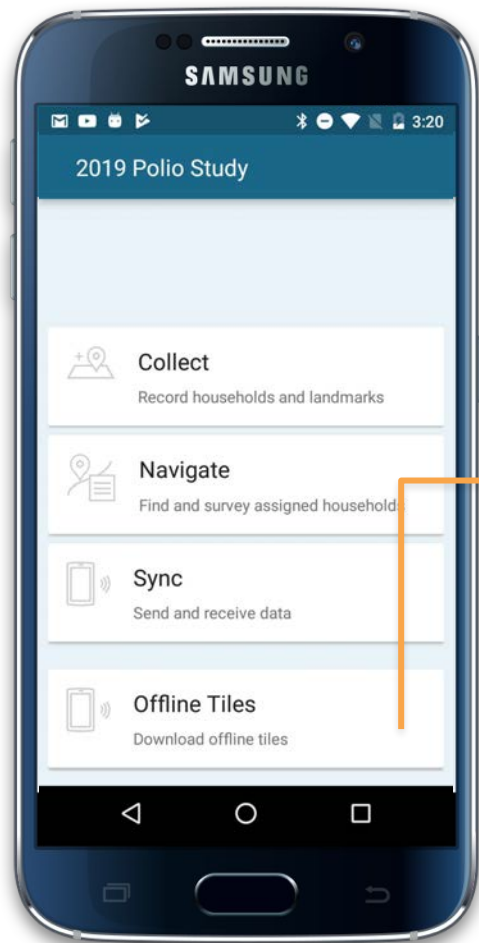
**Sync:** Where you go once you have re-joined your team and Supervisor so that the Supervisor can download your work. [Learn more.](#)

**Offline Tiles:** Where you go to download maps for offline use.

Return to Sign In screen

# Cache Maps for Enumerators

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If your enumerators may be operating outside of a reliable internet connection, it is important to cache their maps for offline use first

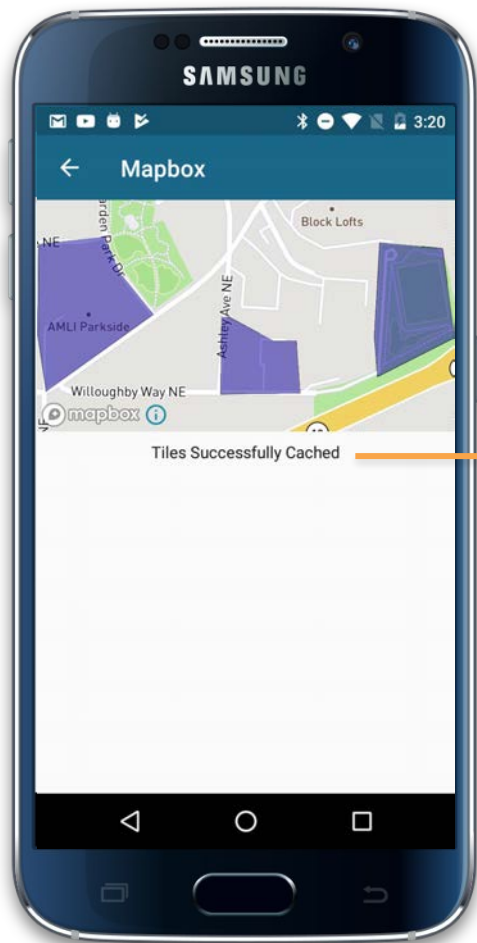
On each device that enumerators or supervisors will be using, sign into the study. It does not matter what name you use. Do not check the “Supervisor” checkbox.

Go to “Offline Tiles” on the Enumerator main screen



# Cache Maps for Enumerators

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Stay on this screen until you see the maps appear under the purple shapes and the text reads “Tiles Successfully Cached”

Unless you clear the memory of the phone, this operation only needs to be done once. Enumerators and Supervisors who subsequently sign in to the study with different names or roles can use the cached maps.

# Part 1: Collect

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Walk around your assigned area and record every household. You can also record important landmarks that will help you find households later.



# Households vs Landmarks

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## Households

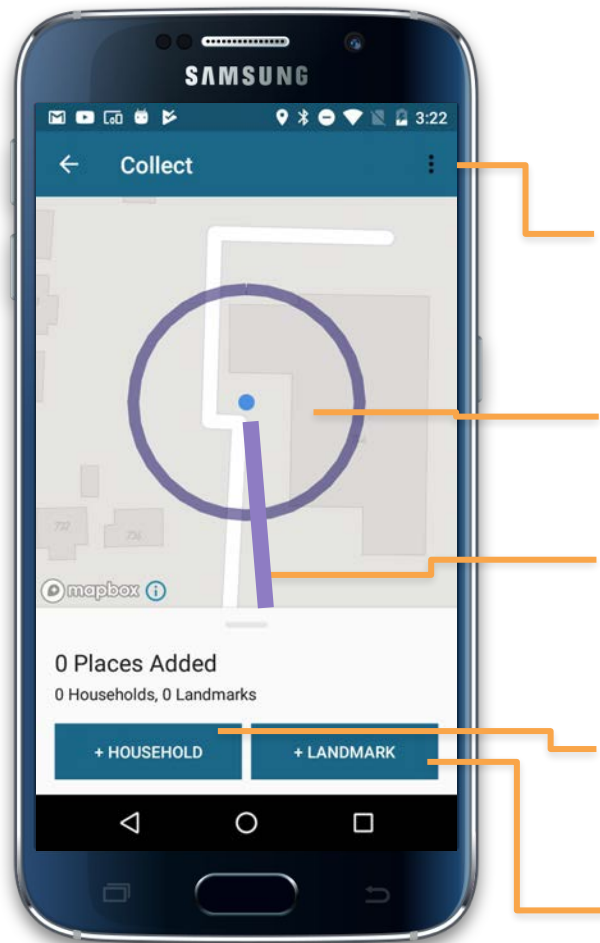
Your job is to record every household in the area you were assigned. After your team has finished collecting all households, a few of the households will be selected for people to return to and ask questions in a survey. It is very important that you record all households properly. Even if you cannot give all the information you need about a household, you should still record it and save it as incomplete. Households are represented on the map by blue pins. Incomplete households are represented by red pins with a flag inside.

## Landmarks

Landmarks are places that help you know where you are, like an important building or distinctive tree. Landmarks do not all need to be recorded, but it is good to add several as you collect households because it will help the person who comes after you find their way around. Landmarks are represented on the map by orange pins with different icons for different types.

# Collect

---



Tap here for additional options: snap the map to your current location, turn off breadcrumbs on the map, and toggle other map layers (like streets).

The blue dot is your current location. The purple circle represents the precision of the GPS in reading your location.

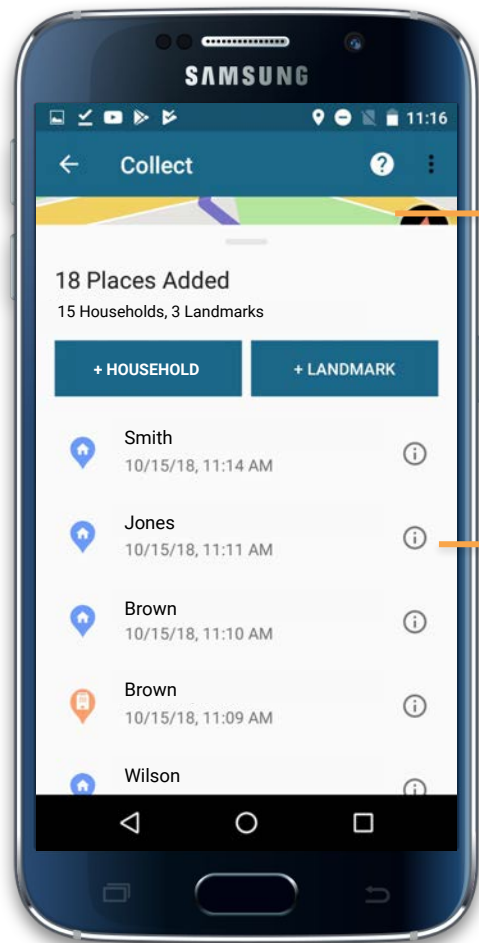
The purple line represents **breadcrumbs** -- the path you have already travelled.

Press [+ Household](#) when you have arrived in front of a household you want to collect.

Press [+ Landmark](#) when you have arrived in front of a landmark you want to collect.

# Collect

---



Scroll down on the white card to reveal the list of places you've collected, with the most recent record at the top.

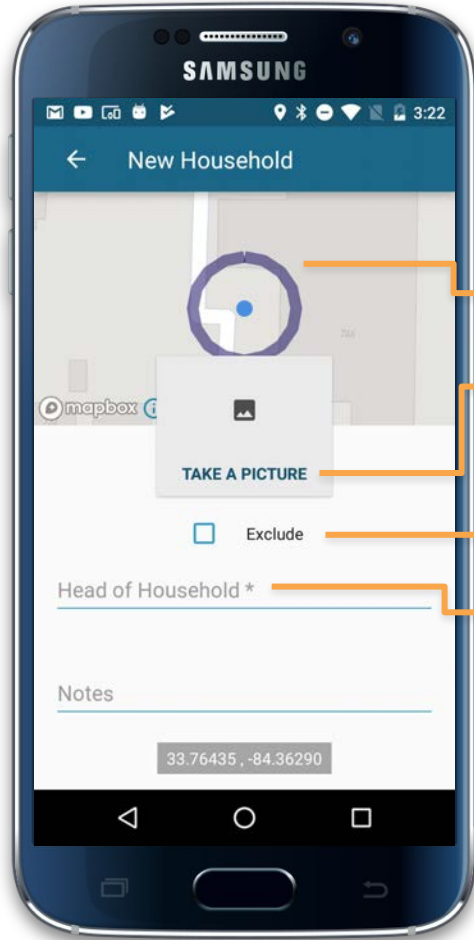
To get back to the map, just pull the white card down to the bottom of the screen again.

Tap the information icon to view the details of the place

COLLECT

# New Household

*You can see this screen when you tap "+ Household".*



The location on the map of the point you are recording.

Tap here to open the camera and capture a photo

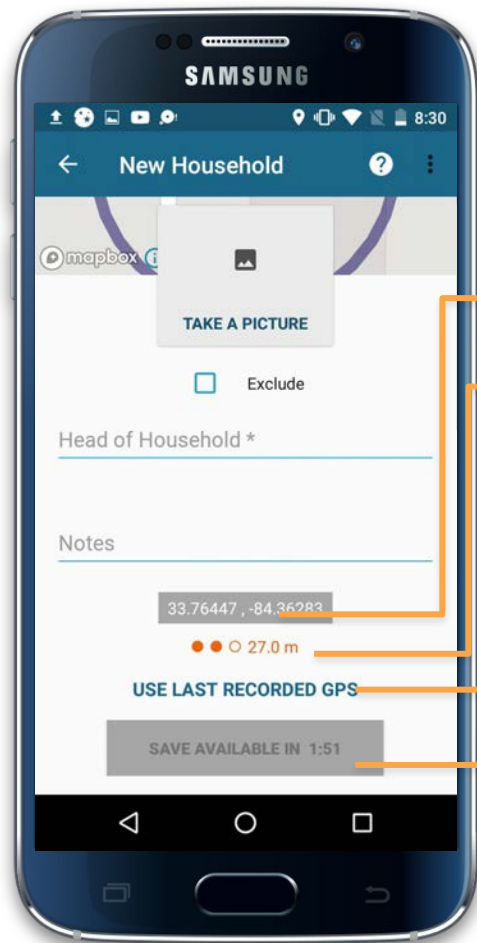
Tap here to manually exclude the point from sampling. Only do this if a Supervisor instructs you to do so.

Fill out the fields. Fields with an \* after them are required.

COLLECT

# New Household

*You can see this screen when you tap "+ Household".*



The numbers here represent the current GPS coordinates.

You want the GPS to be green, and the number to be as low as possible.

Tap here to use last recorded GPS, if this is not the first household of the collection. [See further instructions on cloning GPS.](#)

If the GPS signal precision is not good, the app may make you wait up to 2 minutes to save the point. Walk around to try to get a better GPS signal.

# GPS Precision

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## What Is GPS Precision?

GPS location recording is never completely accurate, and the GPS precision tells you how accurately GPSSample can understand the location you're recording.

## GPS Grades in Collection



**Good**

You should try to make your GPS **good** every time.



**Fair**

If your GPS is **fair**, you should [try to get a better GPS location](#). GPSSample will make you wait for two minutes before you can save to try to get a better location. If you cannot get a better GPS location after two minutes of trying, you should save the form and move on.



**Poor**

If your GPS is **poor**, it is very important that you [try to get a better GPS location](#). GPSSample will make you wait for two minutes before you can save to try to get a better location. If you cannot get a better GPS location after two minutes of trying, you should save the form and move on.



# Getting a Better GPS Location

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## How Do I Improve GPS Accuracy?

There are a few things you can do to get a better GPS location:

- If you are inside a building, walk outside
- Walk out from under any trees or any other overhead obstacles
- Walk around the area
- Wait for two minutes

You will generally get the best GPS location when you are in a place where you can see as much of the sky as possible.

# Using Last Recorded GPS (Cloning)

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## What does “Use Last Recorded GPS” do?

Normally, a new GPS location is recorded every time you open the “New Household” form. “Use Last Recorded GPS” instead uses the GPS location of the last household you recorded. (You must have at least one household recorded.)

## When Do I “Use Last Recorded GPS”?

You should “Use Last Recorded GPS” for multi-household dwellings, where it is hard to take a good GPS location inside the building. The first household in the building needs to record a GPS location, so when you arrive at the building, open the “New Household” form while standing outside (but still close). Wait for the GPS Precision to turn to three green dots (walk around if you need to), then enter the building and collect information on the first household. Save the form, and when you open the form for the next household, tap “Use Last Recorded GPS”. You will see a lock icon appear beside the gray GPS coordinates. Do this for as many households as are in the building. **Do not use last recorded GPS if you are going to different buildings.**

# Household Status

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## What is the household status?

In Collect, households can have three different statuses.

### Normal

Normal households do not have any kind of special badge. Most of your households should be normal.

### Incomplete

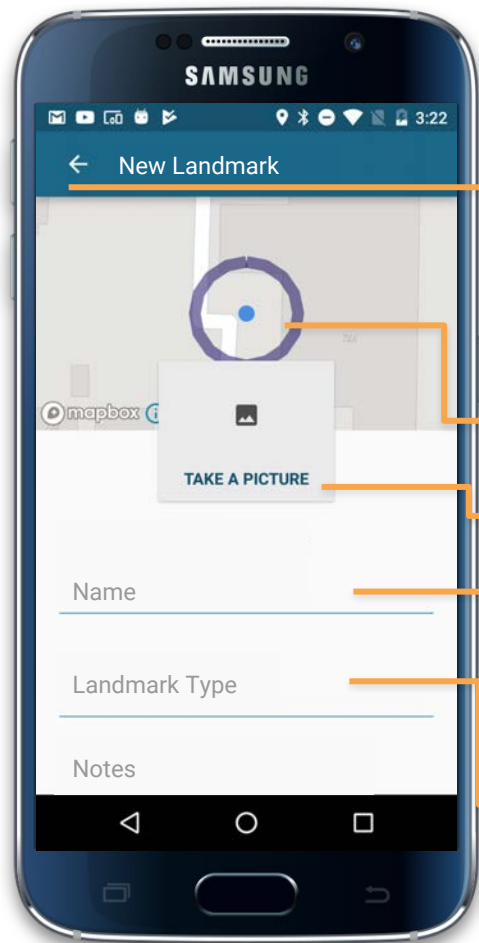
Incomplete households do not have all the information they need in the form to be complete. You should return to these households and complete the forms before you review at the end of the day. Incomplete households have a red badge: **INCOMPLETE**

### Excluded

Excluded households are complete but will not be included in the sample. They have a gray badge: **EXCLUDED**

## COLLECT

# New Landmark



*You see this when you tap "+ Landmark" on the Collect screen. Open this form once you are directly in front of the landmark.*

Tap this button to close the form without saving.

Location where the landmark will be recorded

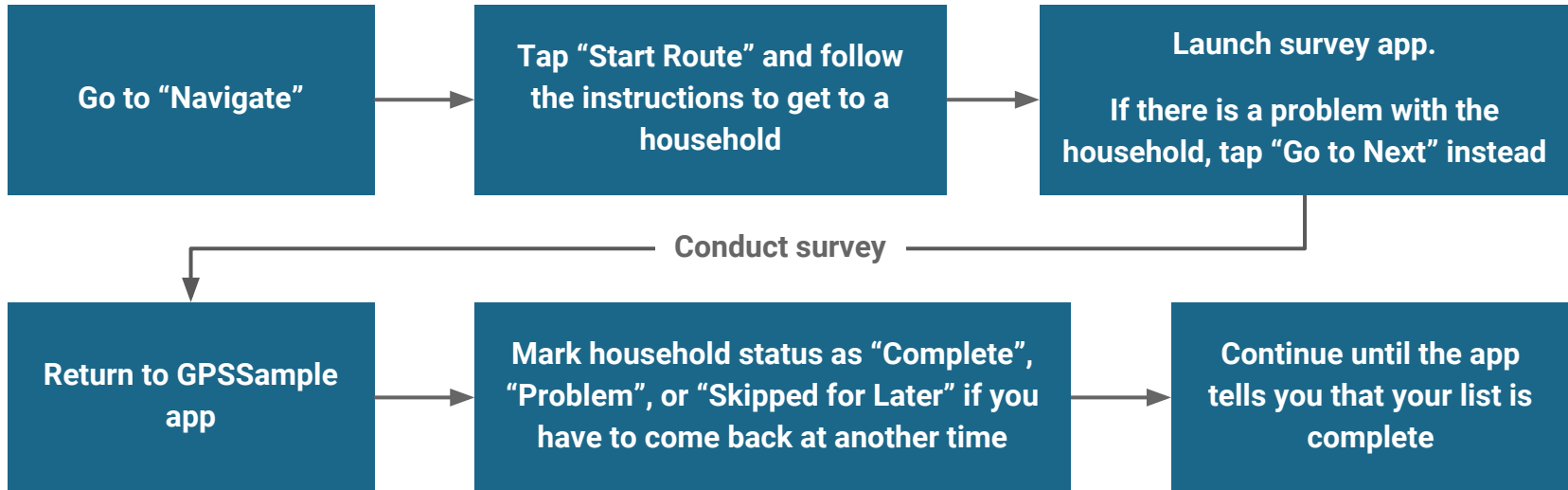
Tap "Take a Picture" to open the camera and add a photo to help you identify this place later.

Name the landmark. This is the name that will show up on the list and when you tap the pin on the map later on.

Choose which type of landmark this is. It doesn't have to be precisely accurate, just close enough to be helpful.

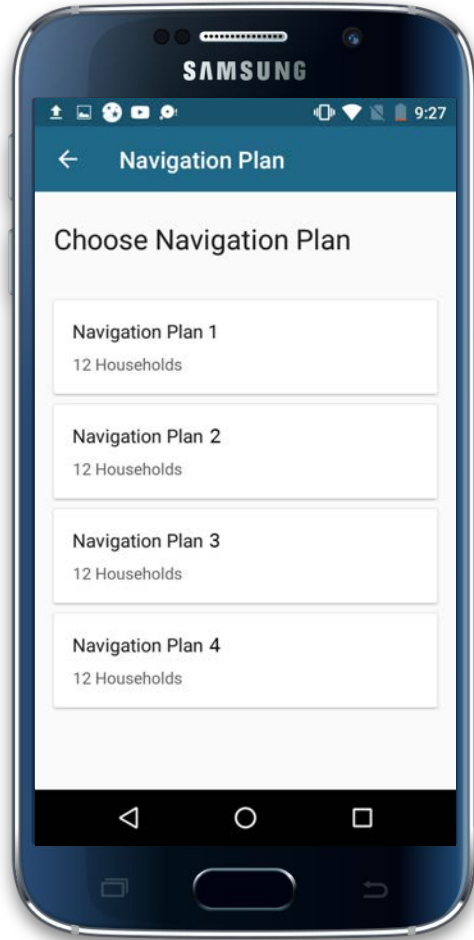
## Part 2: Navigate

Go to each household in a list that has been assigned to you. Once you've arrived at a household, conduct a survey, mark the household as complete, and go to the next one on the list until you've finished the list.



# Navigation Plan

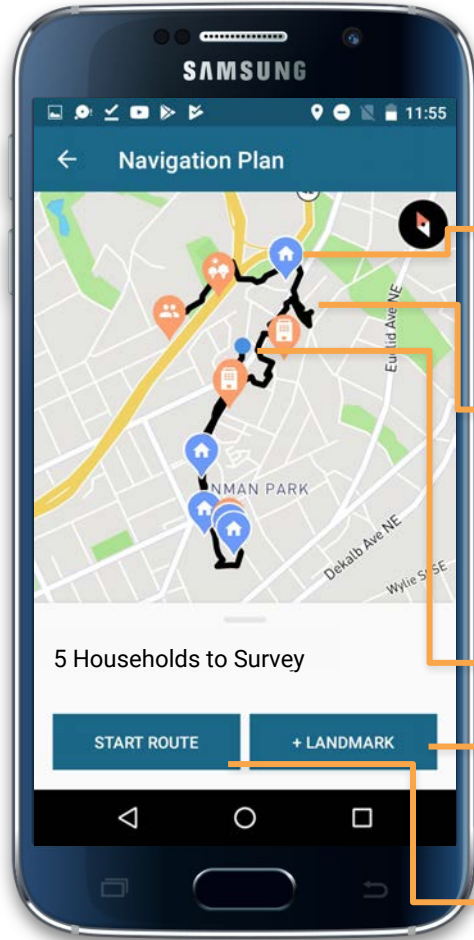
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Your Supervisor will assign you a specific navigation plan. Remember what it is so that you can select it when you go in to begin surveying.

Do not switch your navigation plan without instructions from your Supervisor.

# Navigation Plan



Blue pins represent households for you to visit. Orange pins represent landmarks to help you find your way around. Tap pins to preview them

The black line is a suggested route for getting to all the households on your list. It is not always the fastest path to take, but it is a path that is unobstructed. You do not have to use the suggested path as long as you get to the household.

The blue dot represents your current location.

Press "+ Landmark" to add a landmark at any point. New households cannot be added, but landmarks can.

Press "Start Route" when you are ready to start navigating to the first household

## NAVIGATE

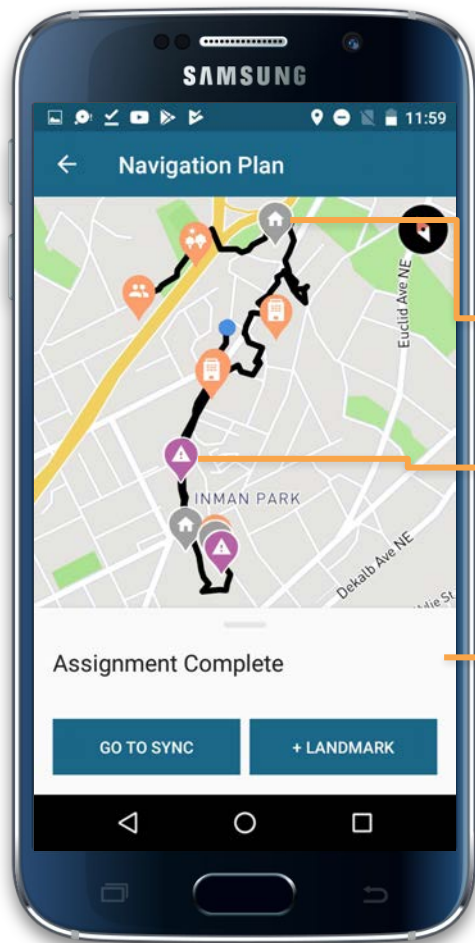
# Navigation Plan

*You see this when you've already completed all households in the list.*

Gray pins are households that have been visited already and marked either "Complete" or "Problem".

Purple pins are households that have been marked "Skipped for Later". You should return to these households. To change them to complete, go to the household details from the list.

Scroll down to the list to show all households, including those already surveyed or marked as "Problem" and "Skipped for Later". You can see the Household Survey Status in the list as well as on the pins. Tap a list item to see the household details.





# Household Survey Status

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## What is the household survey status?

In Navigate, households can have four different statuses.



### Awaiting Survey

No status has been set on these households yet.



### Complete

Navigated to household and successfully completed survey.



### Skipped for Later

Navigated to household but could not complete survey. Need to return later.

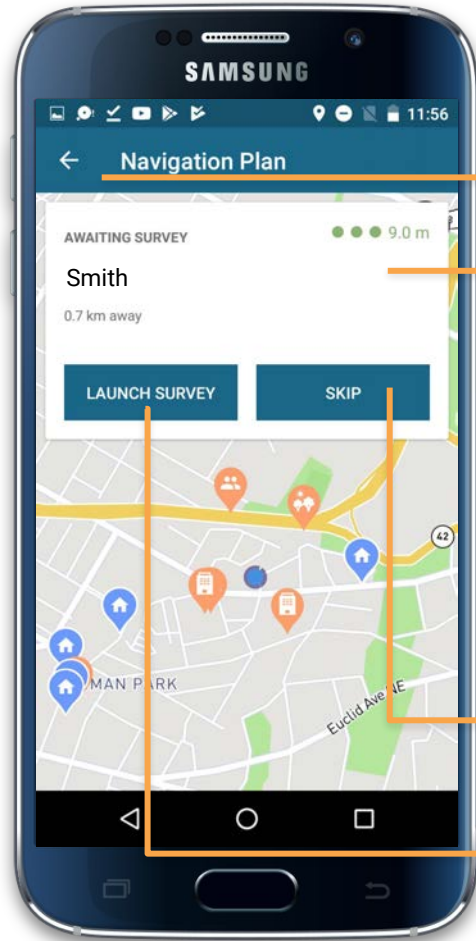


### Incomplete

Navigated to household but could not complete survey. Returning later is not an option.

## NAVIGATE

# Navigate to Household



*You see this when you've tapped "Start Route" in the Navigation Plan.*

Tap here to close Navigation. You can resume navigation later where you left off.

The preview box shows you the information about the household you will arrive at, including how far away it is. If there is a photo, tap it to make it larger. Notes can also help you identify the household.

Tap "Skip" only if you arrive at the household and there is a problem that makes completing the survey impossible.

Tap "Launch Survey" when you have arrived at the household.

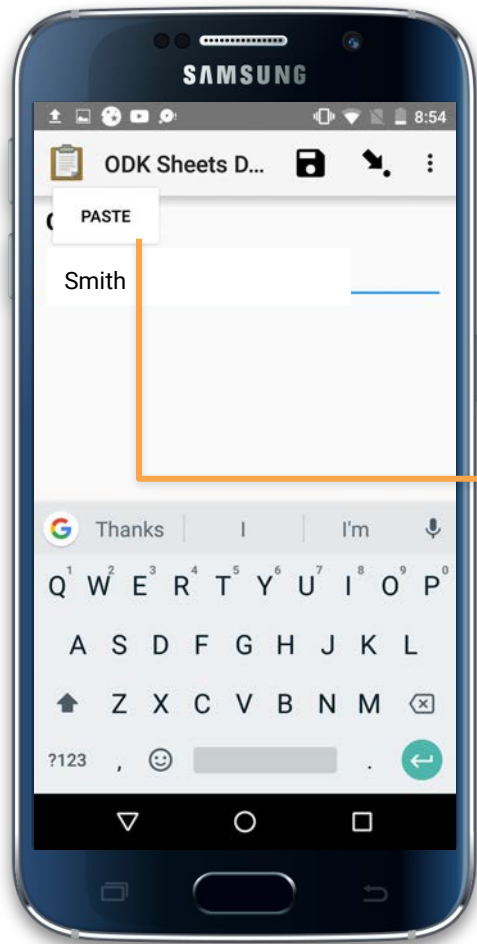
# Completing the Survey

*You see this when you've tapped "Start Route" in the Navigation Plan.*

When you Launch the survey, you will be taken to another app called ODK Collect to complete the survey that is part of the study.

A long ID of random numbers, letters, and dashes will be copied to the device clipboard. It is important that you paste this ID into the ODK Collect form.

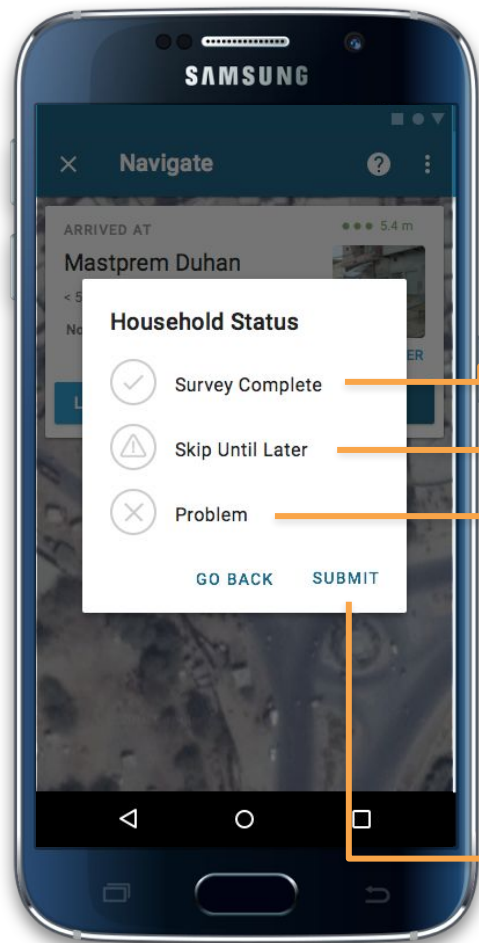
To paste, tap into the textbox to activate the blinking blue line. Then, tap the box again but hold your finger down for one second. A small button will appear that says "Paste". Tap "paste". You should see the box fill with a value that looks close to "5bc6a075-d698-4153-9841-9cc2f1ef380b"



## NAVIGATE

# Navigate to Household

*You will see this when you return from the survey app, or when you tap “skip” during navigation. Learn about [household survey status](#).*



If you tapped “Skip” during navigation, you cannot mark the household as “Complete”. You must mark the household as “Skip Until Later” or “Problem” and provide a reason.

“Skip until Later” should be used when you need to return later to complete the survey. You must provide a reason.

“Problem” should be used when you cannot complete the survey, even if you come back later. You must provide details.

When you tap “Submit”, you will return to navigation to go to the next household and this household’s survey status will be recorded.

# Sync

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Syncing shares the work you've done with your Supervisor. It also lets your Supervisor send new settings to your device. To sync, your Supervisor must be near your device.



# When to Sync

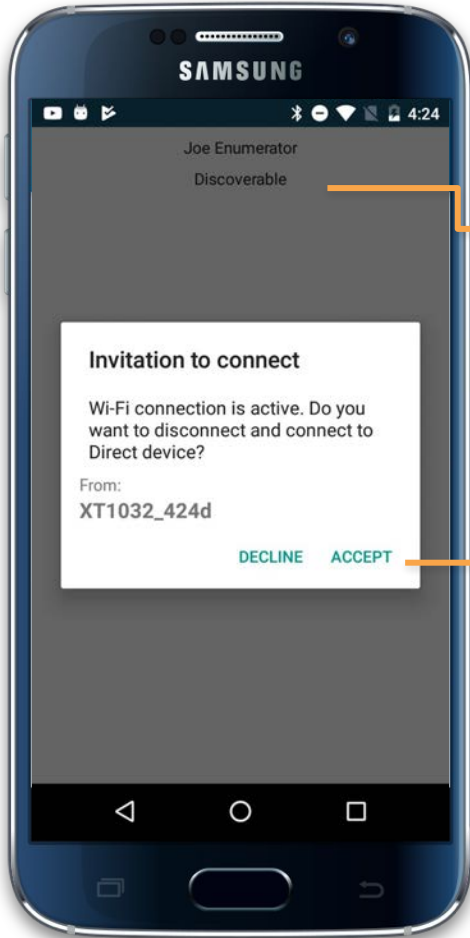
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You should sync with your Supervisor at the end of every work day

- After collecting new households or editing existing ones
- After collecting new landmarks or editing existing ones
- Before navigating to households on your list
- After navigating and setting household survey status on any households
- Whenever your Supervisor says you need to sync

# Sync

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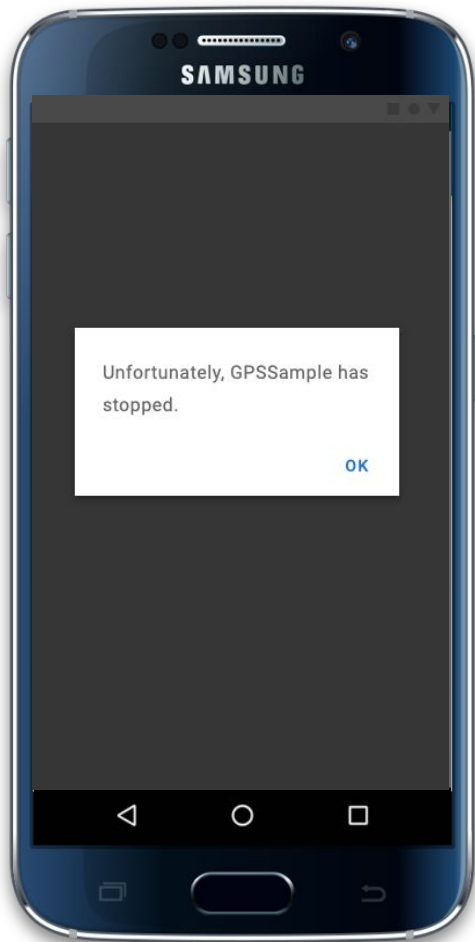
The sync page will show your device name as well as “Discoverable” if the device is ready to connect with a Supervisor nearby.

When a Supervisor initiates a connection to the device, you must accept the incoming connection.

# Troubleshooting







# GPSSample Has Stopped

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When you see the app close unexpectedly with the message “Unfortunately, GPSSample has stopped”, tap “OK” and reopen the app.

Your work is still there, but if you were in the process of adding a household/landmark or completing a survey, you will need to repeat that action.

If this issue is occurring frequently, your phone is running out of working memory. Try closing out every other app in the background.

# Changing Device Name on Network

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To change the device's name as it appears on the network for Wifi Direct syncing, go to the phone's Settings > WiFi > WiFi Direct, then tap the overflow menu in the top right corner and select "Rename Device".

# How to Change Your Language

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GPSSample supports English, French, and Spanish. To change your language, go to your phones Settings > Language & Input and tap “Language”. Change it to your preferred language.

If the language is one that GPSSample supports, GPSSample will translate automatically.