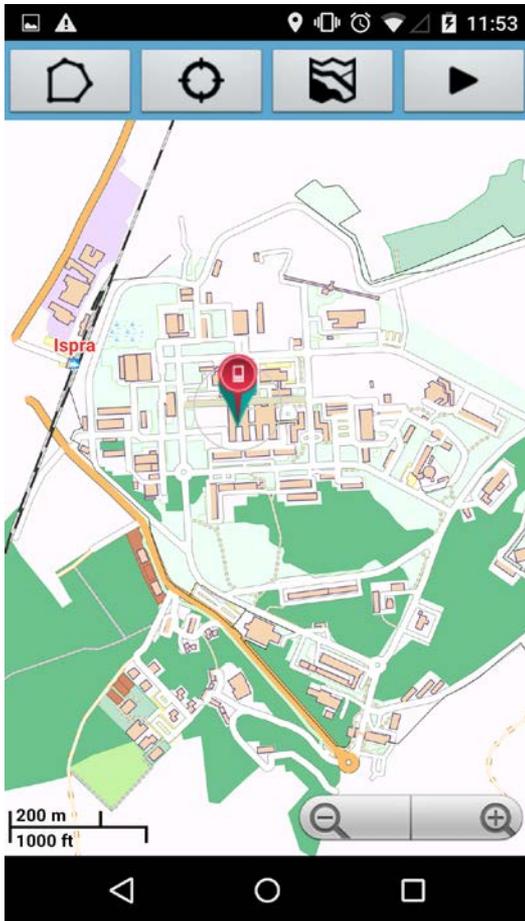




Aquasurvey App



Carry out your own survey
Joint research Centre – Ispra

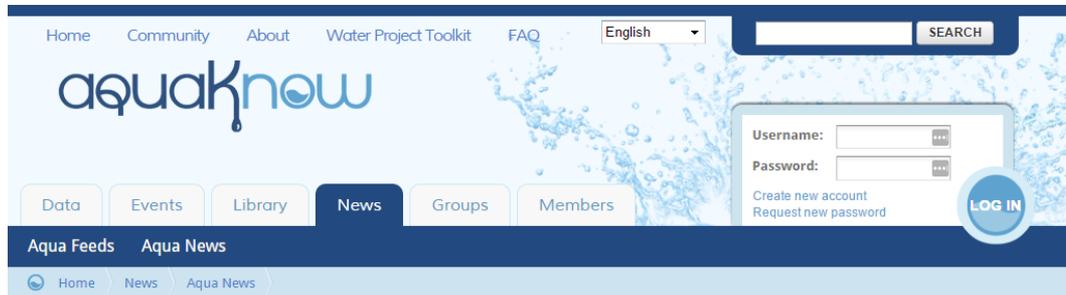
Revised by Randbee Consultants
for the WaterInnEU Project



Reference Website



For all references and for downloading the software go to:
<http://www.aquaknow.net/en/aquasurvey-software>



RELEASE:AQUASURVEY software for Android- for free

Submitted by Water Team on 2 July, 2015 - 14:17



THIS IS A BETA VERSION BEING IMPROVED : LOOK-AND-FEEL AND USER INTERFACE.

The AQUASURVEY app is a new piece of software designed to help you collect your own data and organise your field campaigns. It brings you through all the necessary steps to collect your own data: from the design of the survey to the concrete collection of data using several mobile devices, and integrates the data collected to allow for their use in GIS or statistical software applications. The main added value is that this process does not necessarily need an Internet connection - the app includes several offline options so that you can overcome Internet connection problems during your field campaign.

This tool allows you to monitor and geo-reference your ongoing survey, and to integrate data collected by different surveyors. It can also produce customised graphs and statistics, which can provide an overview of your dataset in a printable report.

The AQUASURVEY app consists of an easy-to-use application with one component for use by desktops and one for Android devices, with the optional integration of the online GIS on www.aquaknow.net.

This open-source application, developed by the European Commission's Joint Research Centre and EuropeAid, is free of charge.

- [DOWNLOAD DESKTOP APPLICATION](#)
- [DOWNLOAD MOBILE APPLICATION](#)
- [DOWNLOAD USER MANUAL](#)
- [PRE-REQUIREMENTS NOTES](#)

Overview



AQUASURVEY software

- 1. Overview of the Aquasurvey (30')
- 2. Practice and preparation of tomorrow survey pilot

DESKTOP

- manage users
- create a survey
- my draft surveys
- my projects
- my settings
- AQUA SURVEY
- build from standard survey
- Survey Standard JRC server [DELETE] [SELECT]
- new survey
- sync standard surveys
- DOWNLOAD MAP
- ADD OFFLINE TILES

MOBILE

- 1) Start screen: "You are at the start of Survey Standard JRC server. Swipe the screen as shown below to go backward and forward." Includes "backward to previous prompt" and "forward to next prompt" instructions.
- 2) Main menu: "AquaSurvey ver 1.601x", "Logged as andrea.terno@ec.europa.eu", "Fill Blank Form", "Edit Saved Form", "Show Statistics", "Login & Options".
- 3) Map view: "Viale di Valle" location marker.
- 4) IN PROGRESS: "[X] Survey Standard JRC server (sent)", "11.06.2015 12:25", "Select All", "Send To Server".
- 5) COMPLETED: "[X] Survey Standard JRC server (sent)", "11.06.2015 12:25", "Choose Server", "Main", "Backup", "ZIP", "Select All", "Send To Server".

Main Menu – Overview



- **Manage Users** : Create, modify and access to field operators account
- **Create a survey**: Entry point to create your questionnaire
- **My drafts surveys** : stored questionnaires – starting point to create your project
- **My Projects** : List of your project with user packages
- **My settings** : set your Language settings, User settings, Online service settings, Global Administrative Areas (GADM) maps, Application information.

STEP 1- Your settings

TO BE MADE IN FIRST PLACE

- Choose your interface language
- Click on interface language



The screenshot shows the AQUA SURVEY user settings page. At the top, there are navigation buttons: 'manage users', 'create a survey', 'my draft surveys', 'my projects', 'my settings', and 'AQUA SURVEY'. Below these is a navigation menu with 'language settings', 'user settings', 'online service', 'GADM maps', and 'about'. The main heading is 'choose interface language'. Below this, there is a dropdown menu currently set to 'ENGLISH' and a green button labeled 'SET LANGUAGE' with a mouse cursor over it. A blue circular 'back' button is located at the bottom right of the main content area.

User settings

- Set the credentials of the “Survey coordinator” as an admin on the desktop application
- An online service can be setup (if needed) , providing URL and admin password to server

language settings user settings

Set your survey coordinator credentials

Name

Surname

Name.surname@email.com

Valid Email

admin

SAVE USER

language settings user settings or

Set web address of online resource of sta

online service url

online service username

online service password

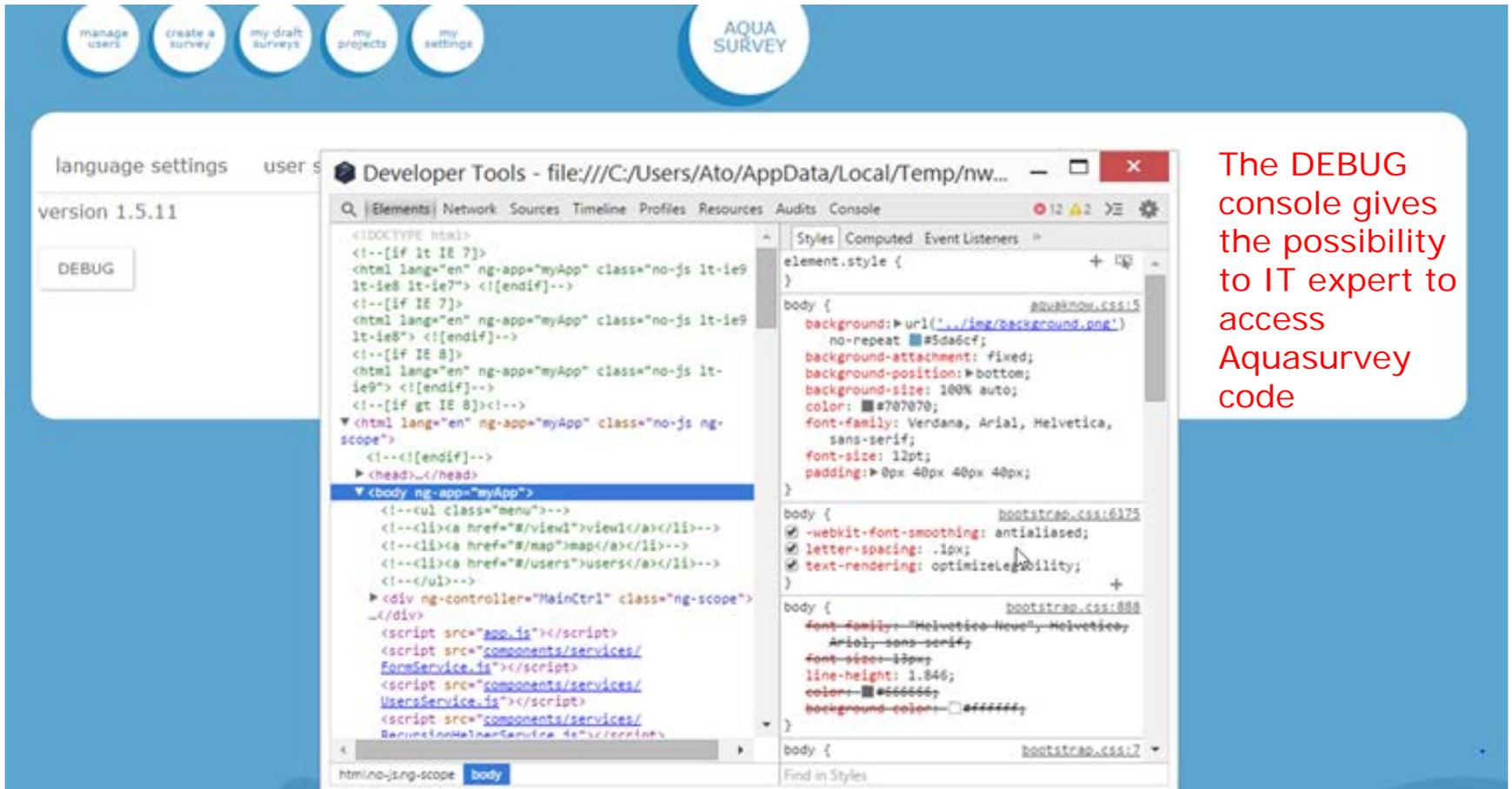
SAVE

Setting GADM maps

- You have the possibility to add The Global Administrative Areas (GADM)
- They allows additional geographical administrative boundaries to be uploaded and stored in JSON files



Debugging console



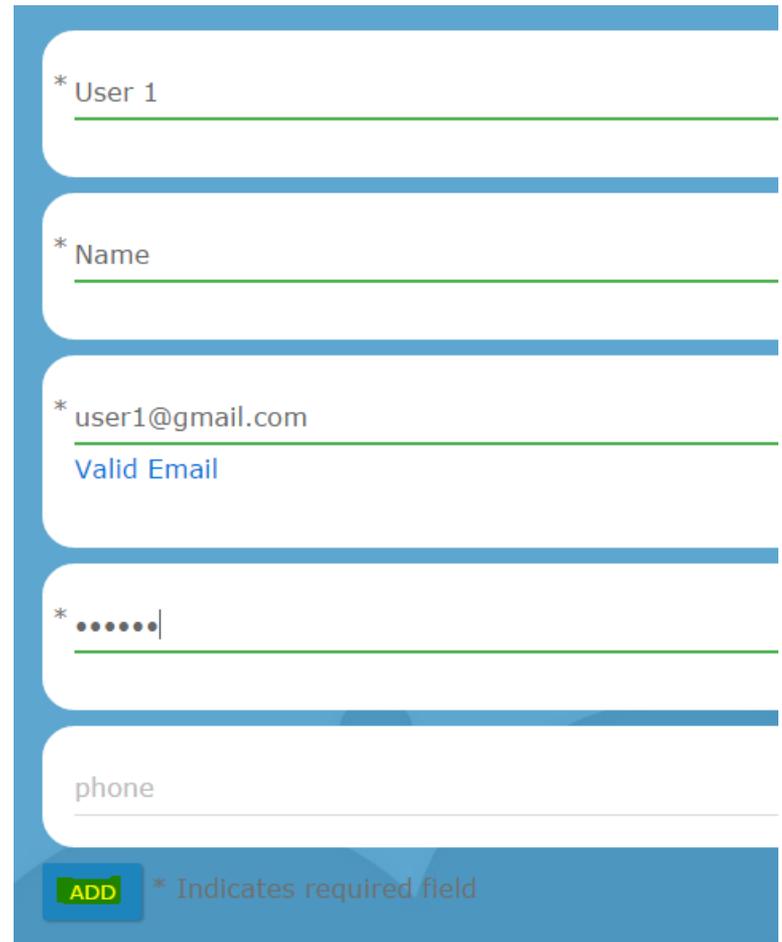
The screenshot displays a web application interface for 'AQUA SURVEY'. The top navigation bar includes buttons for 'manage users', 'create a survey', 'my draft surveys', 'my projects', and 'my settings'. The main content area shows 'language settings' and 'user s' with a 'DEBUG' button. The developer console is open, showing the HTML structure of the page, including a menu with links for 'view', 'map', and 'users'. The console also displays CSS styles for various elements, such as background and font settings.

The DEBUG console gives the possibility to IT expert to access Aquasurvey code

Step 2- Manage users

You should define your field surveyor team = number of users

- providing Name, Surname, a valid email, and a password
 - To track who fulfill which questionnaire
- ⇒ List of users can be stored in local (offline) or on server (online)



A user registration form with five input fields. The first field contains 'User 1'. The second field contains 'Name'. The third field contains 'user1@gmail.com' and has a 'Valid Email' message below it. The fourth field contains a password represented by six dots. The fifth field contains 'phone'. At the bottom left is a green 'ADD' button. At the bottom right is a legend: '* Indicates required field'.

* User 1

* Name

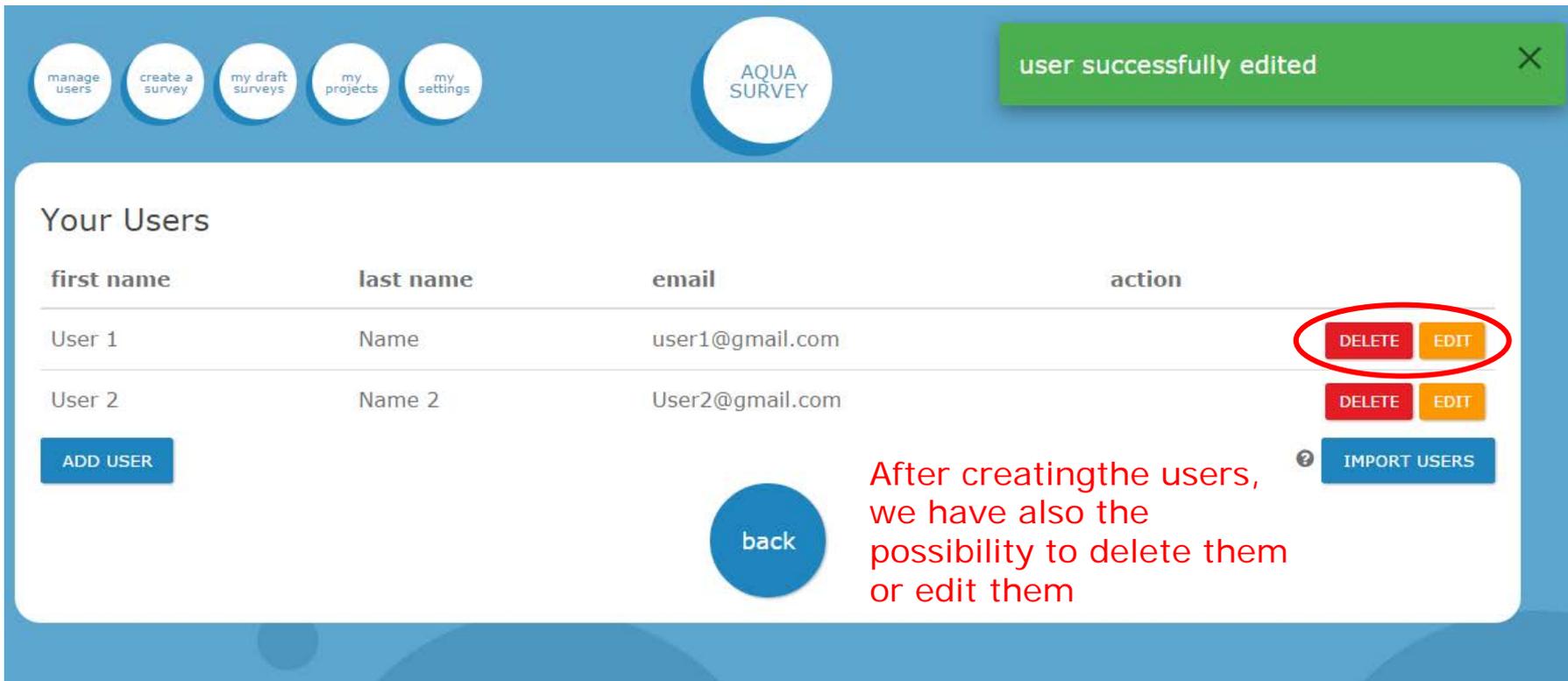
* user1@gmail.com
Valid Email

* ●●●●●●

phone

ADD * Indicates required field

Your list of field surveyors



manage users create a survey my draft surveys my projects my settings

AQUA SURVEY

user successfully edited

Your Users

first name	last name	email	action
User 1	Name	user1@gmail.com	DELETE EDIT
User 2	Name 2	User2@gmail.com	DELETE EDIT

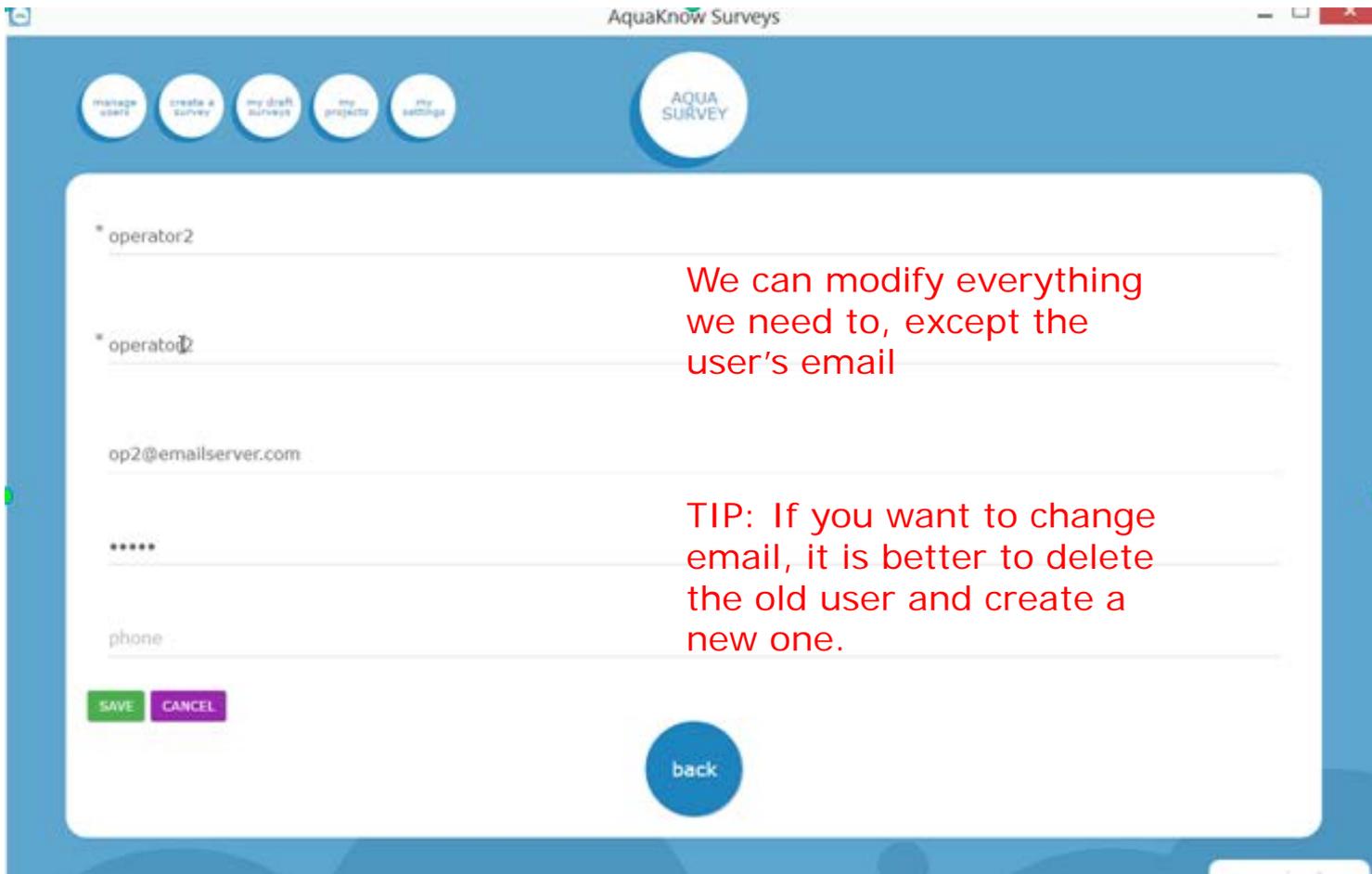
ADD USER

IMPORT USERS

back

After creating the users, we have also the possibility to delete them or edit them

Editing users' setting



The screenshot shows a web browser window titled "AquaKnow Surveys". The interface has a blue header with navigation buttons: "manage users", "create a survey", "my draft surveys", "my projects", and "my settings". A central "AQUA SURVEY" logo is also present. The main content area is a white form with the following fields:

- Username: "operator2"
- First name: "operator2"
- Email: "op2@emailserver.com"
- Password: "*****"
- Phone: "phone"

At the bottom of the form are "SAVE" and "CANCEL" buttons, and a "back" button below the form.

We can modify everything we need to, except the user's email

TIP: If you want to change email, it is better to delete the old user and create a new one.

STEP 3- Create a survey

Options possible to create a new survey :

- From template survey from server : standard survey
- From your previous survey: draft survey
- A fully new survey: new survey

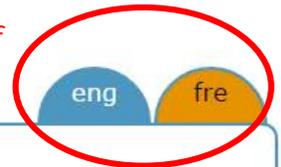
STEP 3- Create a survey

Set your language(s) – NOT modifiable once DONE

Tip : you should have at list 1 question to be able to save a survey

SURVEY1 GIVE a TITLE

add instruction: Set the language (s) of
the questionnaire



please follow the instructions

questions:

ADD

SAVE AS STANDARD SURVEY

SAVE AS DRAFT

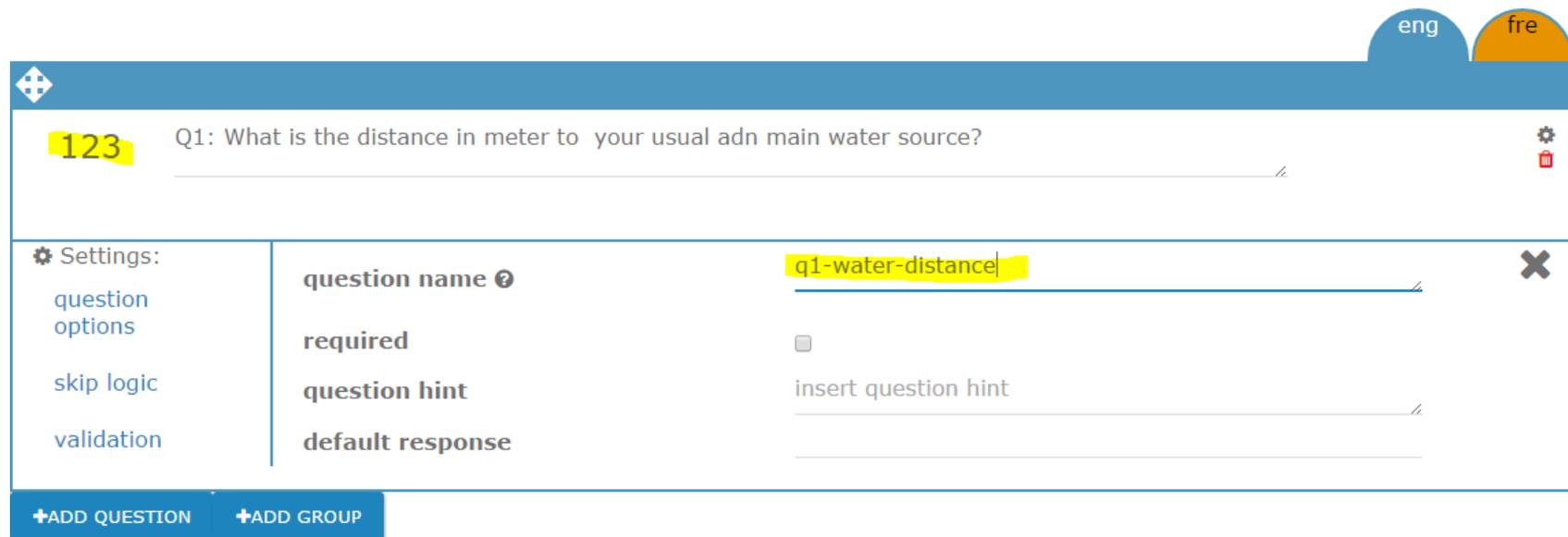
Questionnaire Options

- Order your questions :
 - Make a group of question (i.e. socio-economic information)
 - Drag and Drop the questions
- Set a skip logic
- Insert an Hint (for the surveyor to understand better the question)
- Set a validation method (i.e : the answers must be an integer

 Settings:	question name 	please-provide-an-estimation-of-the-total-inc per-month-of-your-household
question options	required	<input type="checkbox"/>
skip logic	question hint	insert question hint
validation	default response	

Tips to fulfil your question:

1. Select the right type (MQS, picture, video, barcode, number, date, ...)
2. Give a short machine name
3. Complete one language after the other using the tabs



The screenshot shows a question editor interface. At the top right, there are two language tabs: 'eng' (active) and 'fre'. The main area displays a question with the ID '123' highlighted in yellow. The question text is 'Q1: What is the distance in meter to your usual and main water source?'. Below the question, there is a settings panel with a sidebar on the left containing 'Settings:', 'question options', 'skip logic', and 'validation'. The main settings area includes 'question name' (with 'q1-water-distance' highlighted in yellow), 'required' (unchecked), 'question hint' (with 'insert question hint' in the input field), and 'default response'. At the bottom, there are two buttons: '+ADD QUESTION' and '+ADD GROUP'.

eng fre

123 Q1: What is the distance in meter to your usual and main water source?

Settings:
question options
skip logic
validation

question name **q1-water-distance**
required
question hint insert question hint
default response

+ADD QUESTION +ADD GROUP

STEP 4- Deploy your project

This step allows you to create and organise your campaign project :

=> [My Draft Surveys](#) /Deploy as Project/

Assign working area to each user=> Options :

1. online Basemaps (google, Open street maps)
2. Image tiles of the area (offline map)
3. Without map in case of no internet, no GDAM and no image are available

Assign Users

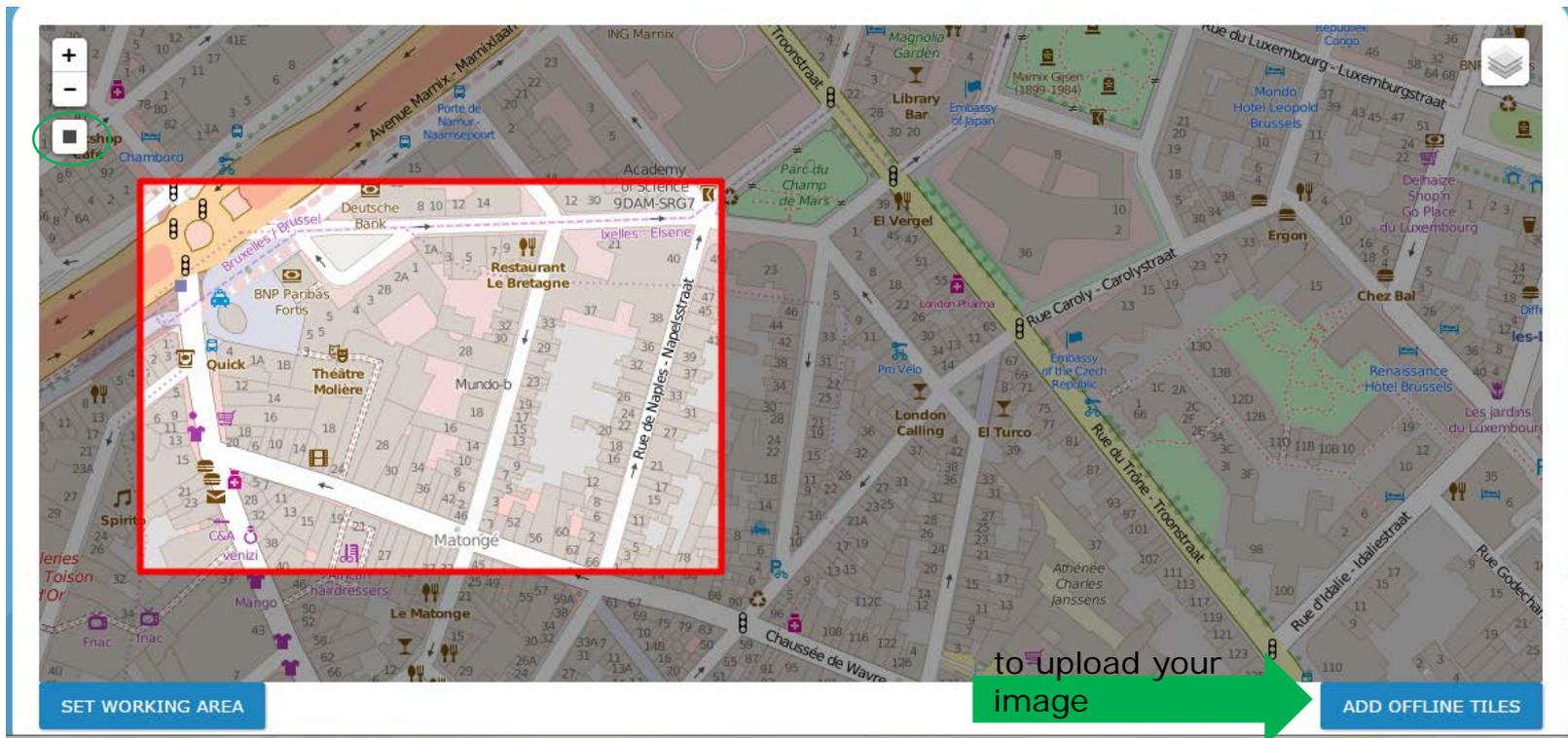
assign	name	last name
<input checked="" type="checkbox"/>	User 1	Name
<input checked="" type="checkbox"/>	User 2	Name 2

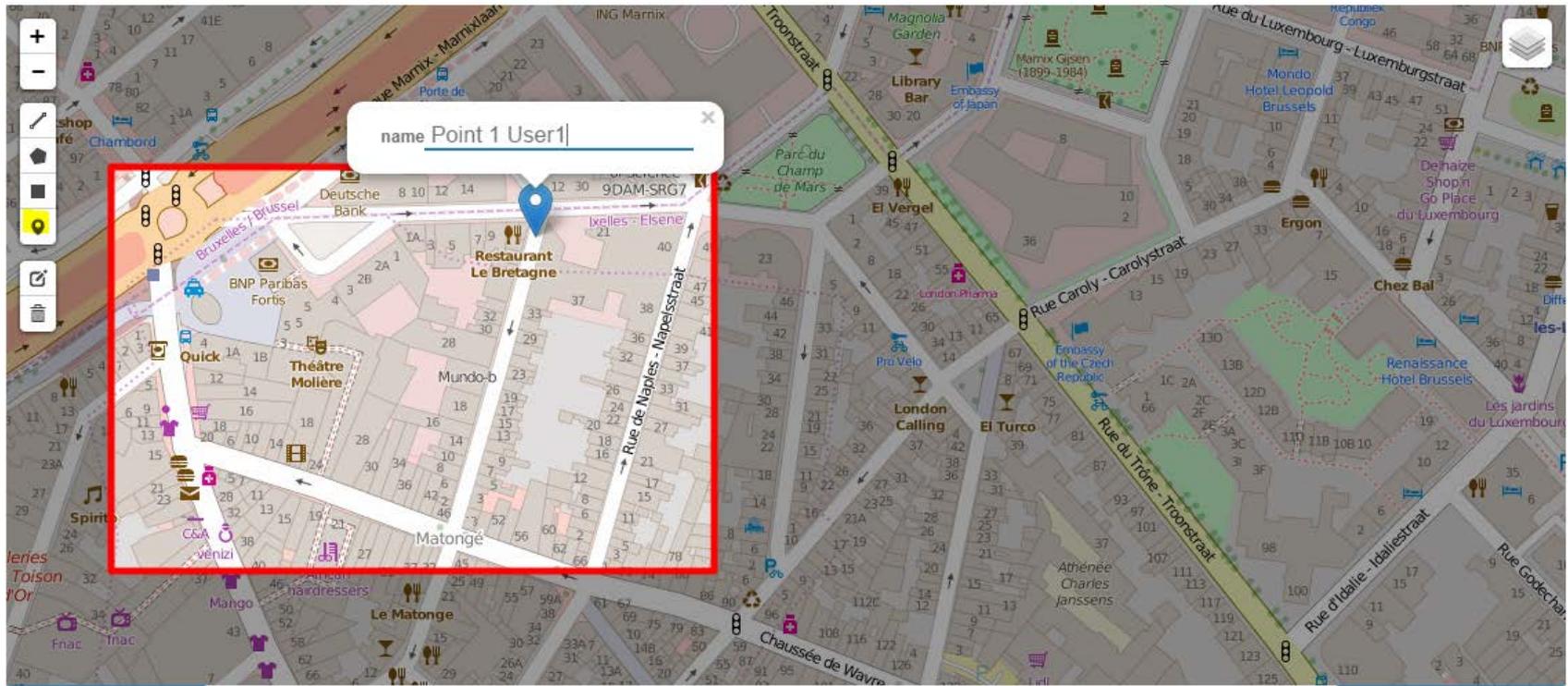
ASSIGN

ASSIGN AND CREATE (NO MAP)

Assigning place visit to each user

1. Set your working area
 - Online basemap, GDAM or upload your satellite image
2. Select a user and assign location to visit (point , area).





DOWNLOAD MAP

ADD OFFLINE TILES

assign

ASSIGN REGIONS

name

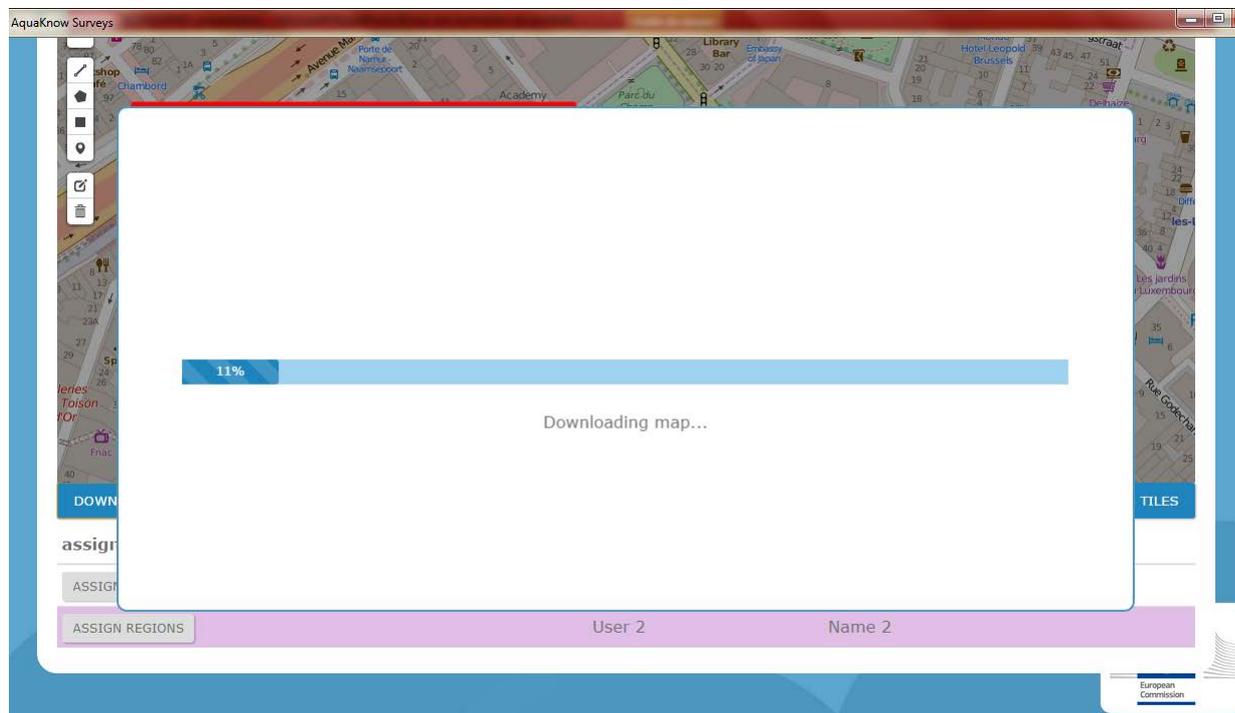
User 1

last name

Name

3. Download the MAP of your working area

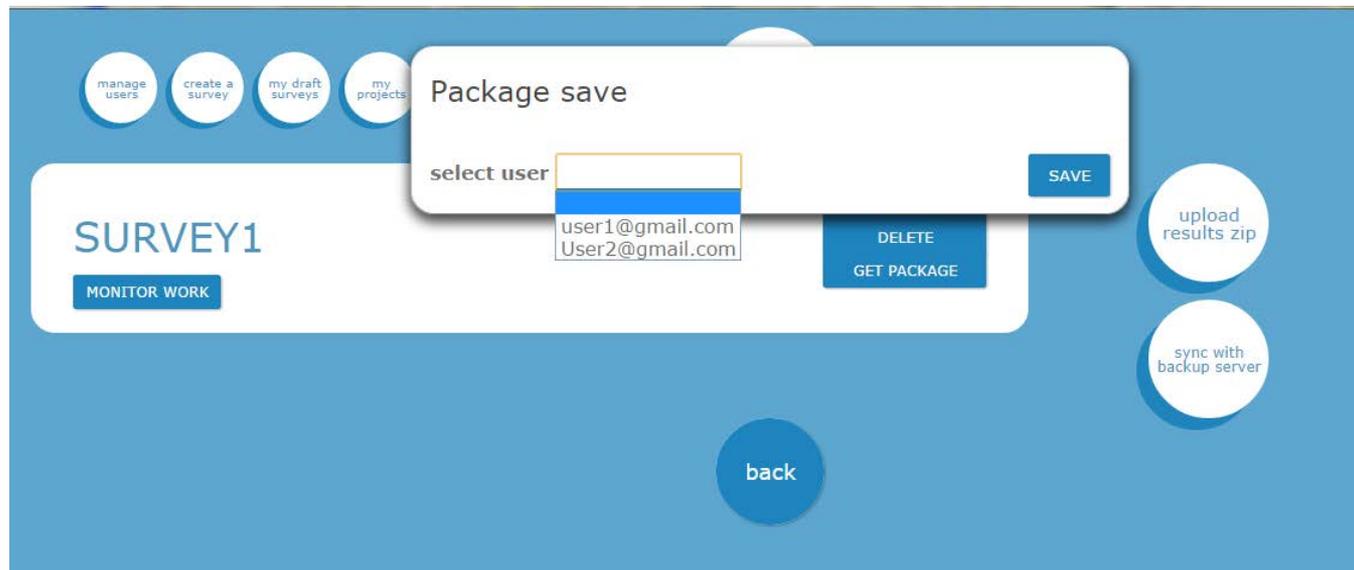
Tip: define most strictly possible the working area to limit the packagingtime.



4. Download mobile packages for each user on your computer

Transfer options :

- OFFLINE: USB cable
- Internal wifi theathling mode
- Internet through server



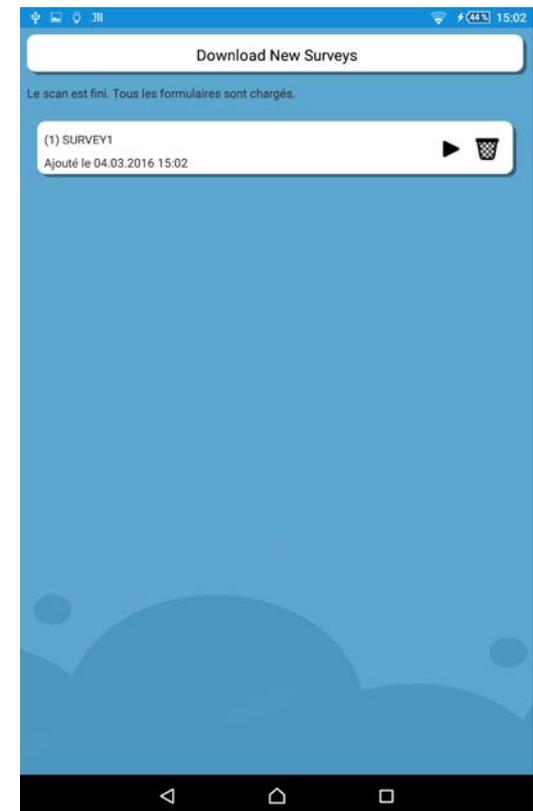
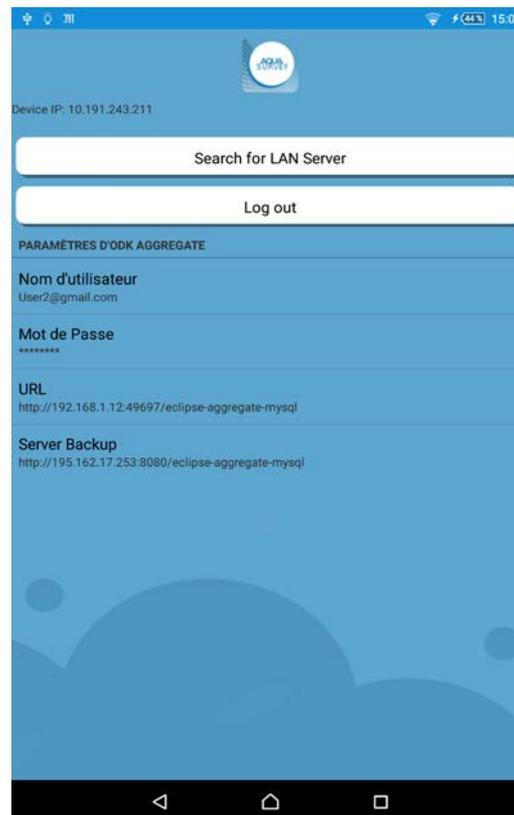


STEP 5-Collecting questionnaires/forms

- Log in on the mobile

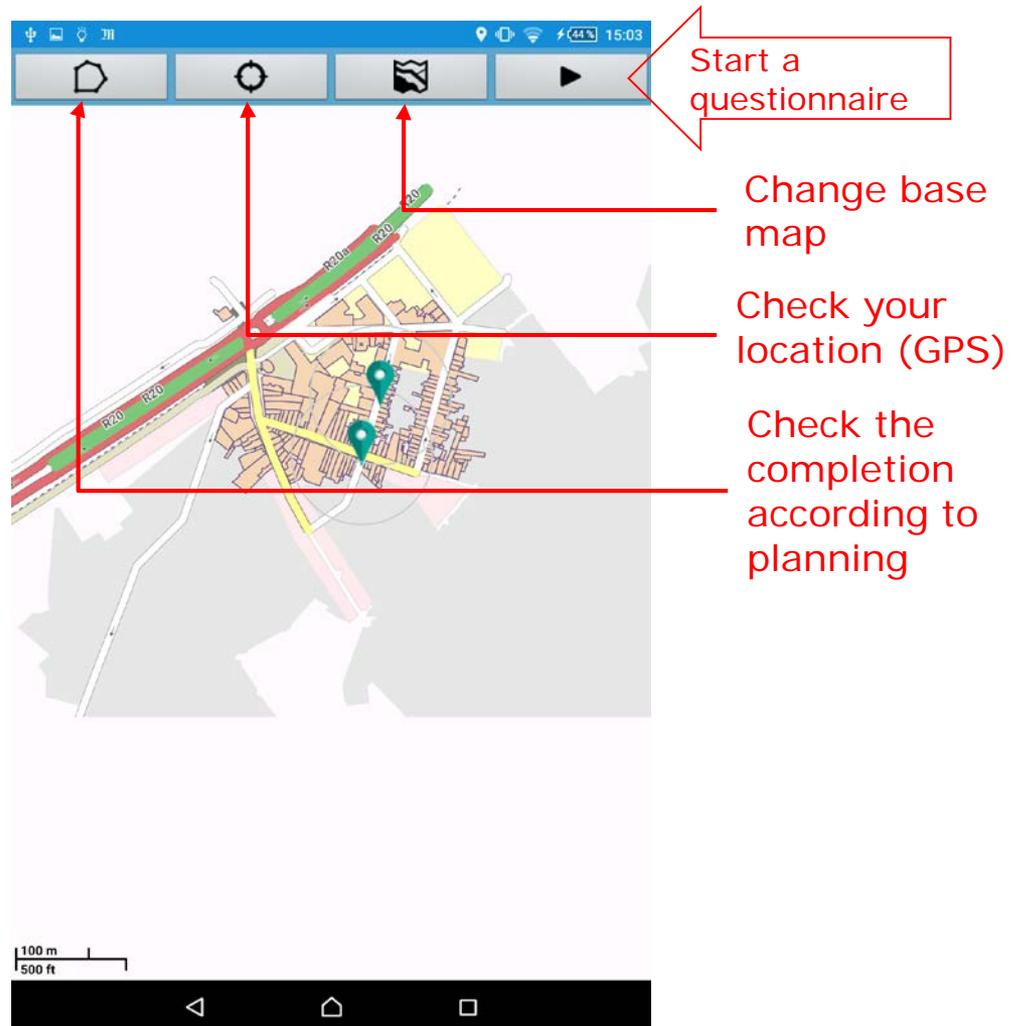
MENU login&options

- Verify that your survey form is loaded

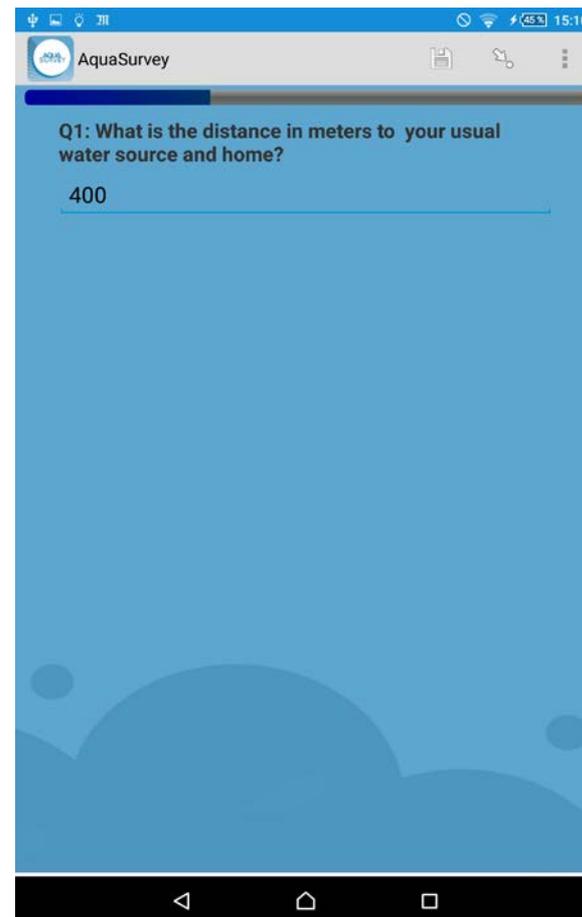
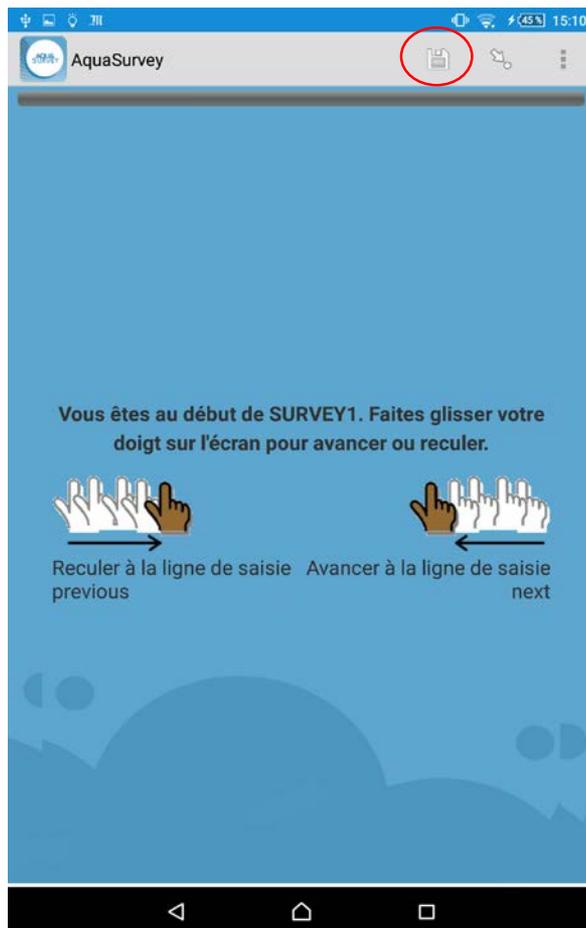


STEP 5-Collecting questionnaires

- Check you destination points (green points)
- Proceed to the interview, fulfilling the questionnaire
- The default language will be the one of the phone if available



Fulfil the answers



If saved when not completed, the questionnaire will be saved in the menu "Edit a saved form"

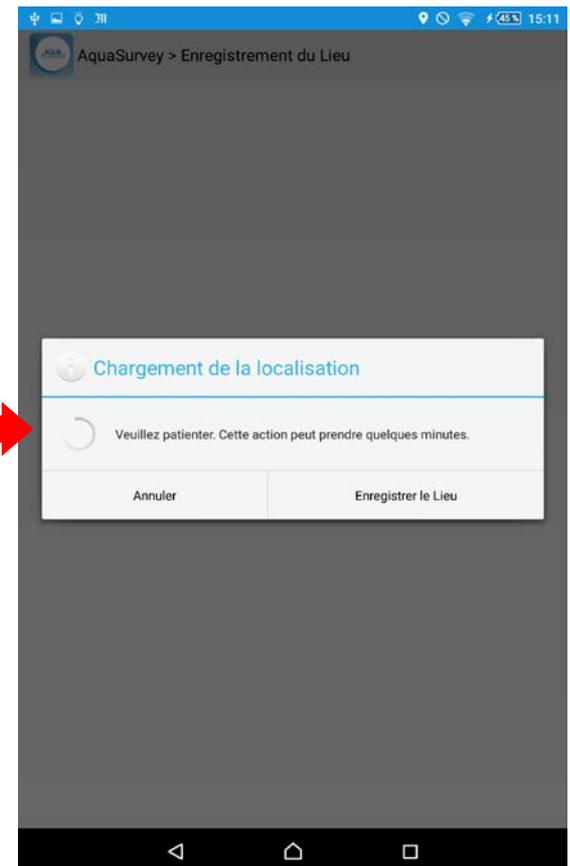
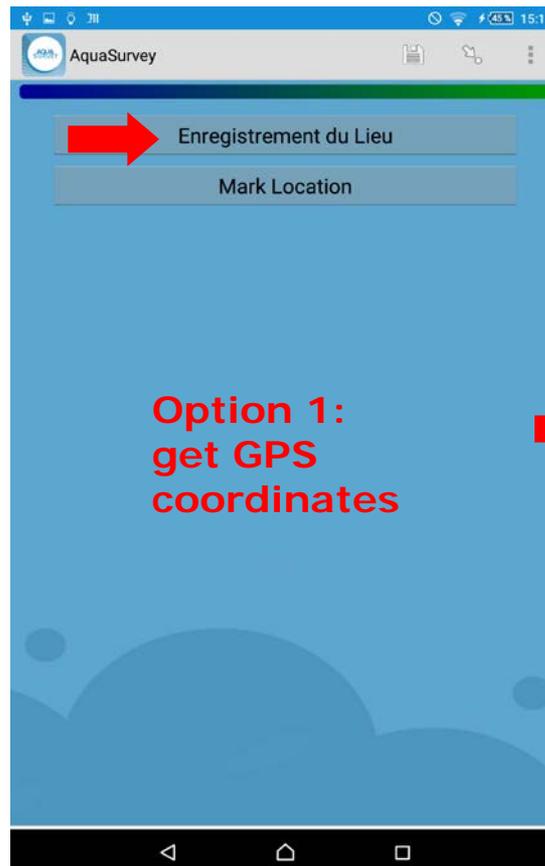
Geo-referencing and save the completed questionnaire

Geo-referencing

Options:

- Get the GPS point
- Mark it on the map

- Then associate it to a point/area assigned by the Coordinator

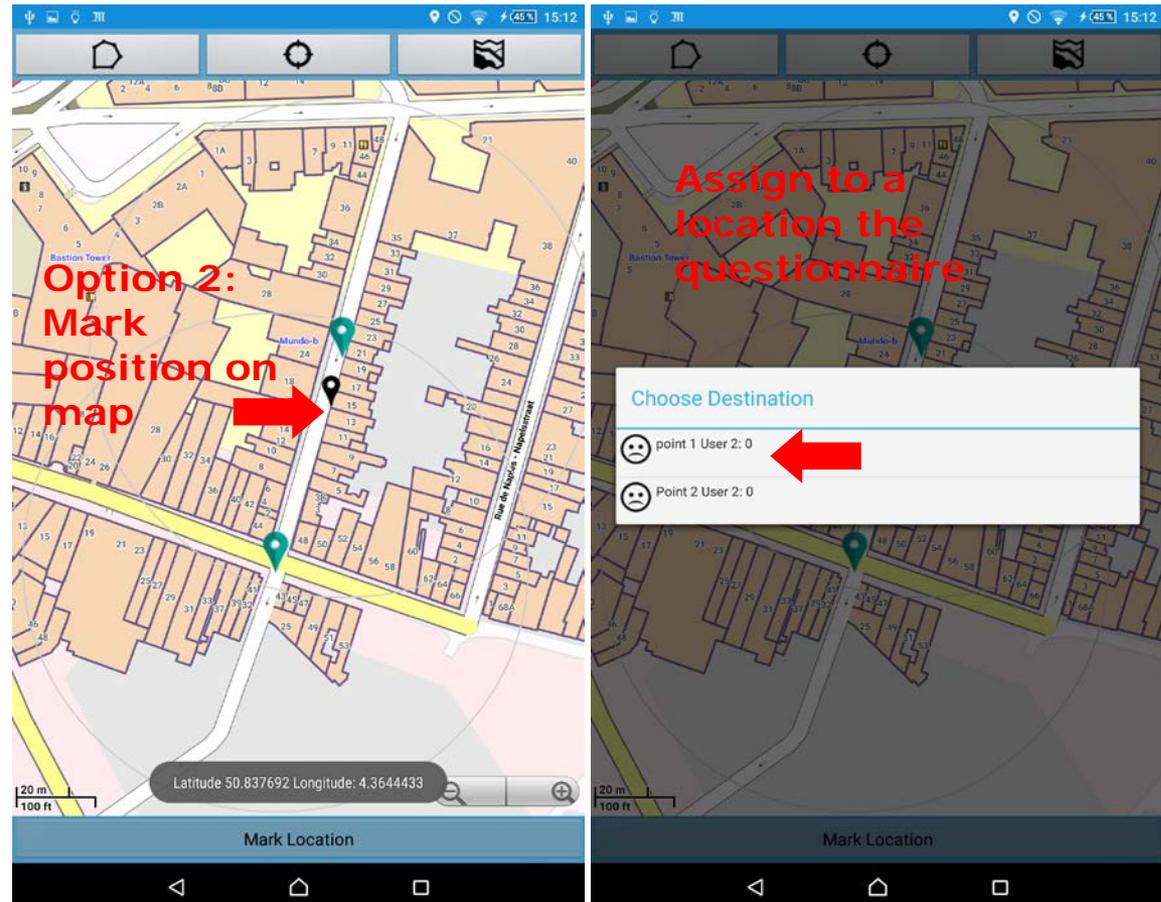


Geo-referencing and save the completed questionnaire

Geo-referencing

Options:

- Get the GPS point
- Mark it on the map
- Then associate it to a point/area assigned by the Coordinator



Save and list of completed questionnaires/forms



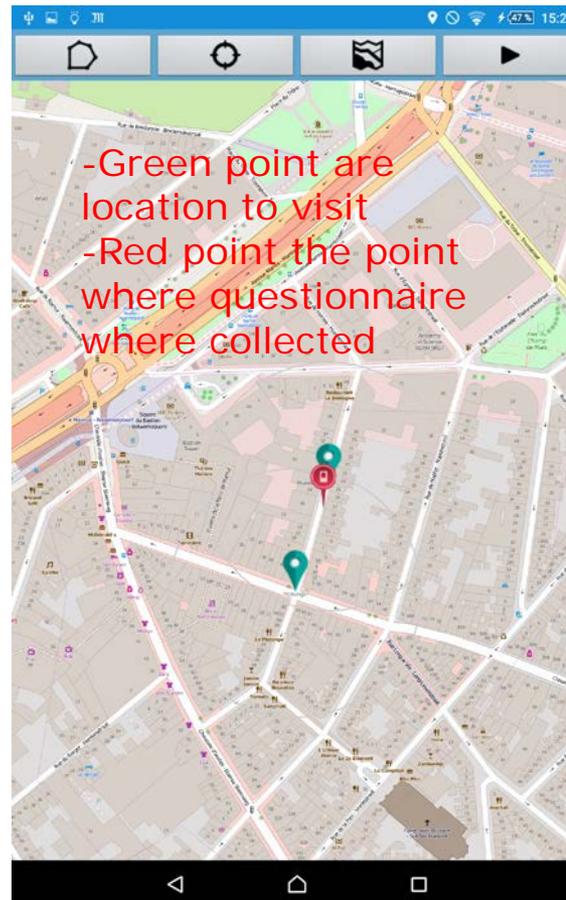
AquaSurvey

Vous êtes à la fin de "SURVEY1".

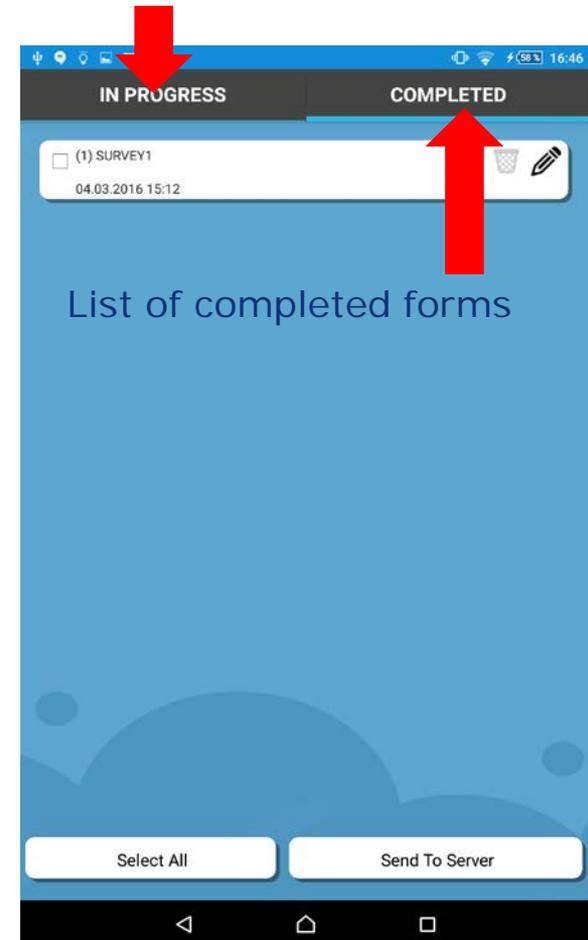
Nommer le formulaire :
SURVEY1

Marquer le formulaire comme finalisé

Sauvegarder et Sortir



List of uncompleted forms



Step6- Transfer results to desktop

Options:

- Online through server
- Offline through USB cable => ZIP

