

Mobile Data Collection

An overview

- ODK Open Data Kit
- XLSForms
- ONA
- Epicollect5
- KoBoToolbox

More players on the market and good overview of different tools: http://craigappl.github.io/Decisions-Decisions/











Collect the data you need to make decisions

From text to pictures to location, collect the data you need to make the right decisions. Our tools also support complex branching, answer validation, multiple languages, and offline work!

Use out of the box or build your own

Use our mobile, server, and desktop tools as they are, or customize them so they support your workflows in the field, in the office, or anywhere in between.

Easy to start and even easier to scale

ODK tools are simple enough for anyone to use and robust enough for international organizations to rely on. Get started!



ODK Open Data Kit

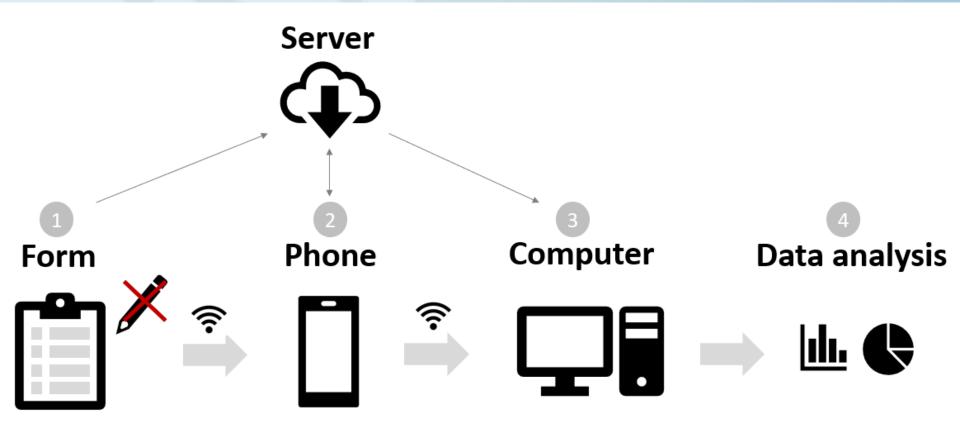
https://opendatakit.org/

- The standard for mobile data collection
- Free and open-source software for collecting, managing, and using data in resource-constrained environments
- Open Data Kit tools help millions of people around the world collect, manage, and use their data

Users include <u>Google</u>, <u>WHO</u>, <u>CDC</u>, <u>USAID</u>, the <u>Red Cross and Red Crescent</u>, the <u>Carter Center</u>, the <u>Jane Goodall Institute and many others</u>.

From <u>monitoring rainforests</u> to <u>observing elections</u> to <u>tracking outbreaks</u>, Open Data Kit is the standard for mobile data collection.







Create a Form

XLSForm http://xlsform.org/en/

- XLSForm is a form standard
- Helps to simplify the authoring of forms in Excel (= familiar tool)
- Simple to get started with
- Allows for authoring complex forms (skip logic, multiple choice, set ranges, list of choices based on preloaded data, dropdown lists, constraints, hints, calculations, grouping,...)
- Forms designed with Excel can be converted to Xforms* that can be used with ODK tools

SHOW XLSFORM EXAMPLE



Smartphone setup

Setup on Android Phones only!

(no applications available for iOS iPhone)

1) Download data collection application from Google Play Store



- → You need a Google account for this.
- → Install "ODK Collect" or "Kobo Collect"
- 2) Link ODK Collect/Kobo Collect to the ONA-application and forms (= link to server)
- 3) Download the form -> Click on button "Get Blank Form"
- 4) Install lookup tables
- → connect the phone to the computer
- → paste the lookup table (csv file) under the folder: odk/forms/survey-media
- 5) Set an Admin password
- 6) Hide the Delete-Form button



Computer

- Collected data from the forms get sent to the server
- Connect with your computer to the server to see the data
 - → This is usually done via your internet browser
 - → Login to the application you are using (ONA, KoBoToolbox,...)
 - → Consult the online dashboard

4 Data Analysis

- Dashboard provides basic statistics and/or an online map
- Export the data to Excel or other format for further analysis



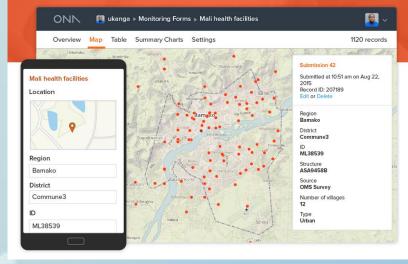


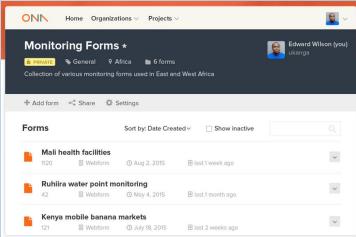
https://ona.io/home/

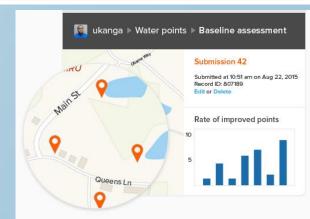
ONA

- Reliable mobile data collection
- Hosted solution
- Accessible visualization
- Seamless collaboration
- Get insights in real time

https://github.com/onaio/onad ata/wiki/Configuring-ODKcollect-with-your-Ona-account







ONA

Pricing

- Public projects: free and unlimited submissions and forms
- Private projects: sign up for a paid plan to collect, share, analyze data privately

	Free	Standard
	\$0	\$99 _{/month}
	Get Started Free	Email Us to Sign Up
Private projects 1	1	2
Private forms ①	10 (total) 🕕	15 (active) 🕕
Private form submissions 1	500	5,000
Data storage 🕕	Unlimited	Unlimited
Data collectors 🕕	Unlimited	Unlimited
Collaborators ①	Unlimited	Unlimited
Custom user roles 1	~	~
Support contacts ①	_	1
Support level 1	Community 📵	Email 1
Online form builder 🕕	~	~
Multimedia question types ①	~	~
Beautiful maps and charts	~	~
Preload data into forms	~	~
Filtered datasets ①	_	~
Merged datasets ①	_	~
Saved dashboards ①	_	✓
Tableau integration	_	✓
Google Sheets integration	_	~



Epicollect 5 = next evolution of <u>Epicollect</u> and <u>Epicollect+ (Plus)</u>

- Mobile & Web Application for easy data collection
- Mobile app is available for both Android (4.4+) and iOS (8+)
- Generation of forms (questionnaires)
- Freely hosted project websites for data collection

More on: https://five.epicollect.net/

Userguide: https://epicollect5.gitbooks.io/epicollect5-user-guide/content/

- Data are collected (including GPS and media) using multiple devices
- All data can be viewed on a central server (via map, tables and charts)
- Data exports to csv and json format
- 100% free to use without any limits
- Open source technologies: service is provided for free, forever



https://www.kobotoolbox.org/

- Suite of tools for field data collection for use in challenging environments
- Software is free and open source
- Free hosted solution / free hosted account
- End-to-end solutions in a plug and play environment

OPEN SOURCE DEVELOPMENT SUPPORTED BY







WITH ADDITIONAL SUPPORT FROM







































YouTube video: A quick tour of KoBoToolbox



https://www.youtube.com/watch?time continue=11&v=4PNtT51h3CQ





https://www.kobotoolbox.org/

FORM BUILDER

- Design forms quickly and easily using our intuitive form builder
- Reuse existing questions and blocks of questions and manage them in the question library
- o Build complex forms with skip logic and validation
- More than 20 different question types available including location, image, video, rating, matrix, etc.
- Easily share projects with colleagues and set granular permission levels
- Import and export XLSForms
 Import via URL or upload from your computer



- Online and Offline
- On phones, tablets or any browser
 Using <u>KoBoCollect</u> on Android devices and Enketo on any modern browser
- Synchronize data via SSL
 Ensures data can't be read by a third party
- Strong safeguards against data loss
 Even on very long interviews
- o Data immediately available right after it's collected

ANALYZE AND MANAGE DATA

- Create summary reports with graphs and tables and fine-tune your report's charts, colors and questions
- Visualize collected data on a map includes a heatmap, clustering, other base layers, etc.)
- Disaggregate data in reports and maps
 I.e. by gender, region or educational level
- Export all your data at any time
 Supported formats: Excel, CSV, KML, ZIP (for media) and SPSS
- o Access your data through our robust API







LIVE DEMO KoBoToolbox platform

Create a KoBoToolbox account:

GET STARTED

Get started with KoBoToolbox now, it's free and it takes under a minute. We have two publicly-available instances of KoBoToolbox you can choose from:

Unlimited Use for Humanitarian Organizations

Provided by UN OCHA

CREATE AN ACCOUNT

or <u>login</u>

Researchers, Aid Workers & Everyone Else

Provided by KoBoToolbox

CREATE AN ACCOUNT

or login

Advanced users can also install KoBoToolbox on their own server (or on a local machine) using Docker. See our <u>kobo-docker</u> repository on GitHub for details.

Give your username to Peter

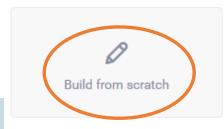




Step 1: Create a project

+ Add Question

Step 2: Add Questions



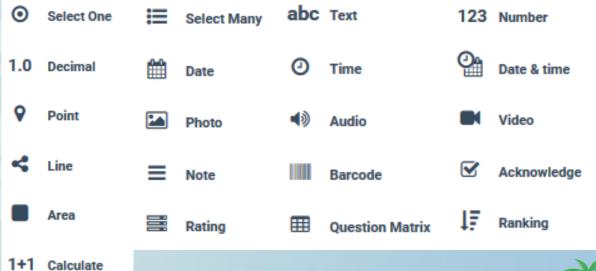
Use a template

Upload an XLSForm



Import an XLSForm via URL

Types of questions:



Step 3: Deploy project







Project owner shares form by setting Sharing Permissions

- Invite collaborators: enter username
- Set permissions to new team members
 - View Form
 - Edit Form
 - View Submissions
 - Add Submissions
 - Edit Submissions
 - Validate Submissions





LIVE EXERCISE Data collection filling in and sending a data form in the field

Standard Form to collect data on illegal dump sites

Android only







Install Kobo Collect Application on phone

- 1) Go to Google Play Store
- 2) Search for "Kobo Collect"
- 3) Download/install the Kobo Collect App
- 4) General Settings/Server of the App:
 - point the url to the username of the person that created/deployed the form (juliec).
 - → Change the last part of the url to juliec
 - Use your own KoboToolbox username and password for the KoBo Collect App, to be able to access a shared form via Get Blank Form
- 5) Click on button "Get Blank Form" to download the form
 - → Select the form on illegal waste dump sites
- 6) FILL out the form OUTSIDE (GPS point!)
- 7) Do not forget to SEND the form when finished.

PART 2

SMS-based questionnaires using "Flows"



https://app.rapidpro.io/



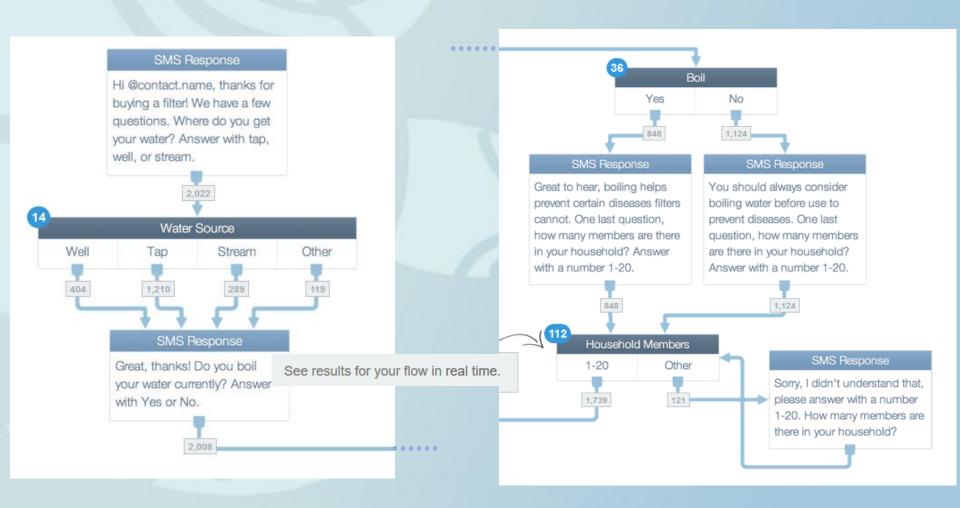
http://textit.in/

Visually build nationally scalable mobile applications from anywhere in the world

- Open source platform from Nyaruka and UNICEF
- Free Android application
- Easy visually build SMS-based applications and questionnaires using "Flows"
- No need for a programmer or consulting company
- Avoid expensive set-up costs or external technical support
- Set up campaigns



Flow engine (core of RapidPro)



Real-time analytics or export to Excel





- Deployment guide: https://app.rapidpro.io/deploy/
- Rapid Pro landing page: http://rapidpro.github.io/rapidpro/
- Rapid Pro FAQ's: https://community.rapidpro.io/faqs/



Annual Credit Bundles - No Monthly Fees

Every account includes **1,000 credits** to get you started. All credit bundles are good for a full year.

7 ,000 credits	
\$20 2.¢ each	

2,500 credits	
\$40 1.6¢ each	

10,000 credits	
\$140 1.4¢ each	



https://ona.io/services-rapidpro.html





Questions?





