



# អង្គការទិន្នន័យអំពីការអភិវឌ្ឍ

## Tech Salon #4

### ប្រធានបទ ៖ ឧបករណ៍នៃការប្រមូលទិន្នន័យ

២៩ ធ្នូ ២០២២ | Online session

ការប្រើប្រាស់ **KoBo Toolbox** សម្រាប់ការប្រមូលទិន្នន័យ

ឡូច កល្យាណ អ្នកស្រាវជ្រាវទិន្នន័យ និងប្រព័ន្ធព័ត៌មានភូមិសាស្ត្រ (GIS)

អង្គការទិន្នន័យអំពីការអភិវឌ្ឍ (អូឌីស៊ី)

# ប្រភេទ ឧបករណ៍ប្រមូលទិន្នន័យ



ការស្ទង់មតិ



សម្ភាសន៍



ការពិភាក្សា  
ជា  
ក្រុម



ការសង្កេត

# ដំណាក់កាលនៃការស្ទង់មតិ



រចនា  
កម្រងសំណួរ



បង្កើត  
កម្រងសំណួរ



ប្រមូល



វិភាគ

# ស្ទង់មតិតាម ក្រដាស?



# បញ្ហានៃការស្ទង់មតិតាមក្រដាស



ពេលវេលា



ធនធានមនុស្ស

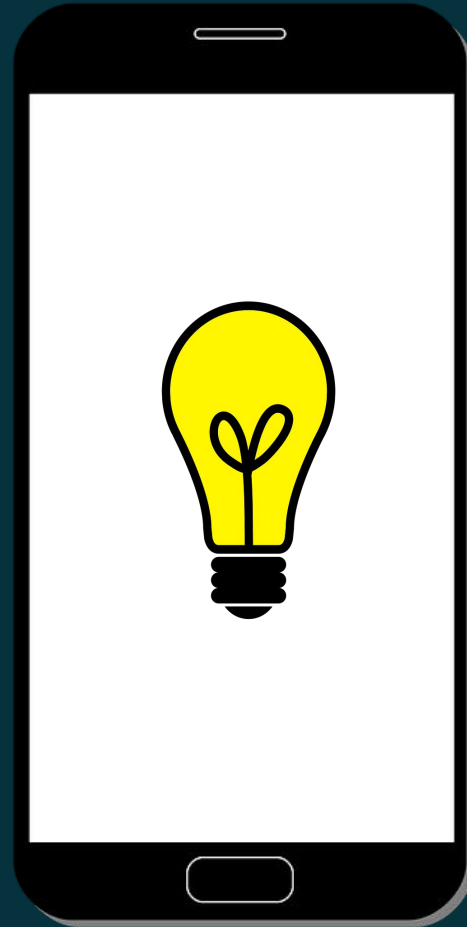


ថវិកា



ពិបាកគ្រប់គ្រង

ស្ទង់មតិតាម  
ទូរស័ព្ទ?



# អត្ថប្រយោជន៍នៃការស្ទង់មតិតាមទូរស័ព្ទ



កាត់បន្ថយ  
កំហុស



កាត់បន្ថយការ  
ខូចខាត

2-in-1

ប្រមូល &  
ប  
ញ្ជូល  
ទិន្នន័យ  
ក្នុងពេលតែមួយ



ឆាប់រហ័ស

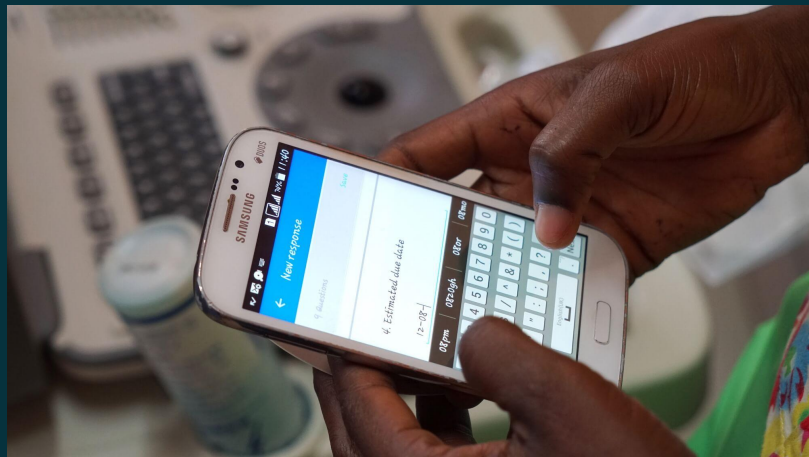


# KoBoToolbox

ឧបករណ៍ប្រមូលទិន្នន័យតាមរយៈទូរស័ព្ទឆ្លាតវៃ

# KoBoToolbox

- អភិវឌ្ឍដោយ Harvard Humanitarian Initiative
- ឧបករណ៍មួយឈុត ( Open Source Suite ) សម្រាប់ការប្រមូលទិន្នន័យ និងវិភាគ
- កម្មវិធីមិនគិតថ្លៃ ( Free ) និង កូដបើកចំហ ( Open Source )



OPEN SOURCE DEVELOPMENT SUPPORTED BY



HARVARD  
HUMANITARIAN  
INITIATIVE



BRIGHAM AND  
WOMEN'S HOSPITAL

WITH ADDITIONAL SUPPORT FROM

MacArthur  
Foundation



Conrad N. Hilton  
FOUNDATION

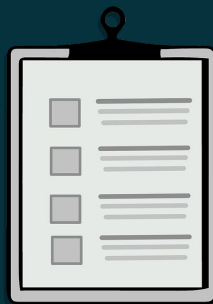
FIDELITY FOUNDATION  
Innovating in Nonprofits since 1965



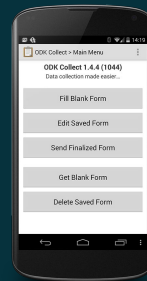
# មុខងារគោលនៃ KoBoToolbox



រចនា  
កម្រងសំណួរ



បង្កើត  
កម្រងសំណួរ



ប្រមូល



វិភាគ

# បង្កើតកម្រងសំណួរ - KoBoToolbox

- បង្កើតកម្រងសំណួរដោយងាយស្រួល និងឆាប់រហ័ស
- អាចប្រើជាមួយកម្រងសំណួរដែលសាមញ្ញ និងស្មុគស្មាញ
- ងាយស្រួលចែករំលែកជាមួយក្រុមការងារ
- អាចទាញយក ឬបញ្ចូលទម្រង់ XLSForm
- មានសំណួរជាង ២០ ប្រភេទ

# ប្រភេទសំណួរ - KoBoToolbox

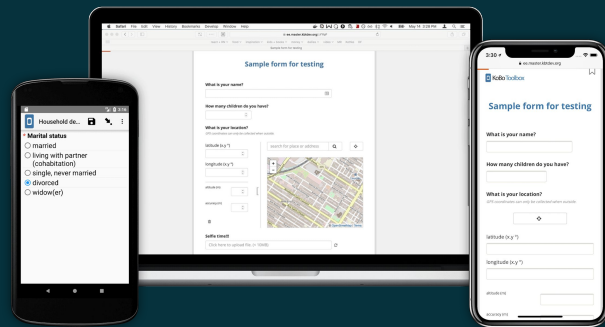
- លេខ (គត់ / ទសភាគ)
- អក្សរ
- កាលបរិច្ឆេទ / ម៉ោង
- កូអរដោណេទីតាំង
  - ចំណុច (point)
  - បន្ទាត់ (line)
  - តំបន់ (area)
- ផ្សេងៗ ផ្សេងៗ
- ជម្រើសមួយ / ច្រើន
- ដាក់ពិន្ទុ / ចំណាត់ថ្នាក់
- រូបភាព
- សម្លេង
- វីដេអូ
- ...
- ផ្សេងៗ ផ្សេងៗ



# ប្រមូលទិន្នន័យ - KoBoToolbox

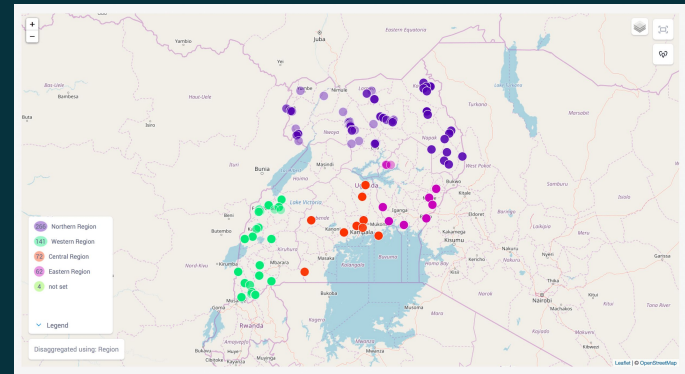


- ប្រមូលបានទាំងពេលមាន និងគ្មានអ៊ីនធឺណិត
- ប្រមូលតាមរយៈ កម្មវិធីទូរស័ព្ទ (Android ONLY) ឬ ថាបឺឡែត (Tablets) ឬ កម្មវិធីរុករក Internet (Browsers)
- ការពារទិន្នន័យពីភាគីទីបី (SSL) និង ការបាត់បង់ទិន្នន័យ
- បញ្ជូនទិន្នន័យទៅស្នាក់ការកណ្តាលភ្លាមៗ ក្រោយប្រមូល



# វិភាគទិន្នន័យ - KoBoToolbox

- បង្កើតរបាយការណ៍សង្ខេបជាមួយក្រាប និងតារាង
- បង្ហាញទិន្នន័យលើផែនទី
- ទាញយកទិន្នន័យជាទម្រង់ផ្សេងៗ





<https://www.kobotoolbox.org>

## Global server

A server provided by KoboToolbox for researchers, aid workers and everyone else. While this server has some limitations to avoid excessive storage of data, all functionalities are fully available, for free.

**10,000 Submissions per month**

**5GB Data Storage per month**

**Unlimited Projects**

[Sign in](#)[Create an account](#)

## Humanitarian server

An unlimited server hosted by UN-OCHA for all [humanitarian organizations](#). If you belong to a humanitarian organization, please sign in with your organization's email

**Unlimited Submissions**

**Unlimited Data Storage**

**Unlimited Projects**

[Sign in](#)[Create an account](#)

## Create an account

Name

Organization name

Username \*

E-mail \*

Sector

Country

Gender

☐ Male ☐ Female ☐ Other

Password \*

Password strength

Use a few words, avoid common phrases

No need for symbols, digits, or uppercase letters

Password confirmation \*

Enter the same password as above, for verification.

Create Account

or login



KoBoToolbox is an integrated set of tools for building forms and collecting interview responses. It is built by the Harvard Humanitarian Initiative for easy and reliable use in difficult field settings, such as humanitarian emergencies or post-conflict environments.

This installation of KoBoToolbox may only be used for small survey deployments, which means less than 10,000 submissions as well as 5GB file uploads per user per month. If you require more, please [contact us](#).

If you are a organization providing humanitarian assistance, please [use OCHA's KoBoToolbox installation instead](#), which provides an unlimited number of submissions.

[Terms of Service](#) | [Privacy Policy](#)

# ផ្ទាំងការងារ - Dashboard

The screenshot displays the KoBoToolbox dashboard interface. At the top, there is a dark header bar with the KoBoToolbox logo on the left, a search bar labeled 'Search Projects' in the center, and a user profile icon with the letter 'U' on the right. Below the header, the dashboard is divided into two main sections: 'Deployed' and 'Draft'. On the left side of the 'Deployed' section, there is a sidebar with a 'NEW' button and three filter options: 'Deployed' (7 items), 'Draft' (8 items), and 'Archived' (5 items). The 'Deployed' section contains a table with the following data:

Name	Shared by	Created	Last Modified	Submissions
Kiosk - BEST Application Form A GPS and Photo form.		November 24, 2017	Today at 4:42 PM	0
PSI nepal testing		May 1, 2018	Today at 4:42 PM	0
Uganda Nationwide Survey (uga_14_v6)		November 22, 2014	Today at 4:42 PM	2091
Morning Form		November 22, 2014	Yesterday at 1:17 PM	545
Literacy Test Tests		December 6, 2017	December 6, 2017	0
Tom Kiosk 4		November 24, 2017	November 24, 2017	0
Partner survey		November 15, 2017	November 15, 2017	3

Below the 'Deployed' section is the 'Draft' section, which also contains a table with the following data:

Name	Shared by	Created	Last Modified	Submissions
Age and politician questionnaire		December 4, 2017	December 4, 2017	0
IMPACT		November 24, 2017	November 24, 2017	0

# ផ្ទាំងបង្កើតសំណួរ

project sample

SAVE

Add from Library

Layout & Settings

	Record your current location <i>Question hint</i>	
123	* How many girls in your school? <i>Question hint</i>	
123	* How many boys in your school? <i>Question hint</i>	
1+1	\${boys}+\${girls}	
	Total student = \${total_student} <i>Question hint</i>	

Select One

Select Many

abc Text

123 Number

1.0 Decimal

Date

Time

Date & time

Point

Photo

Audio

Video

Line

Note

Barcode / QR Code

Acknowledge

Area

Rating

Question Matrix

Ranking

1+1 Calculate

Hidden

File

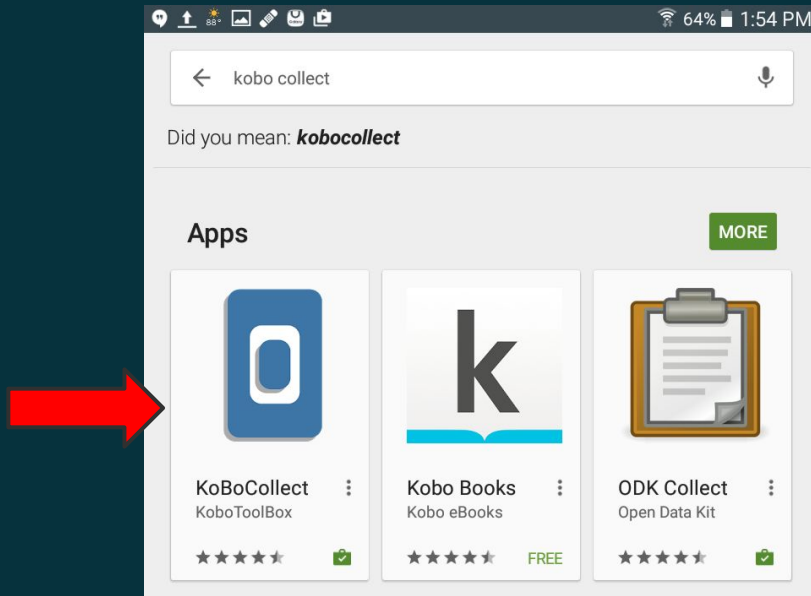
1..1 Range

External XML

# KoBo App for Android Devices

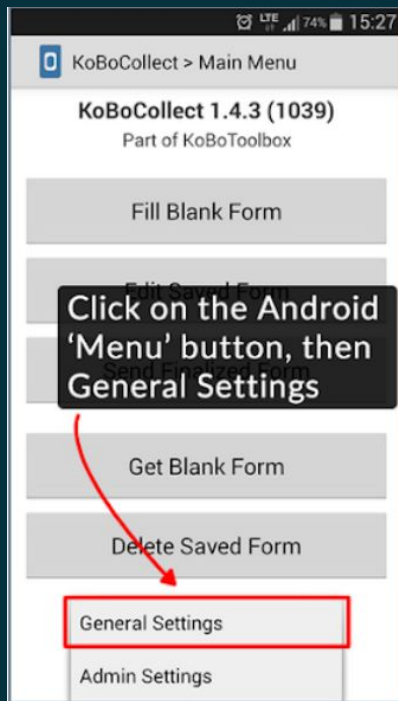
# Download KoBo App

Download KoBo Collect from Android Play Store  
Install on your Android device



# Account Settings on a Phone

នៅលើ Android device, បើកកម្មវិធី KoBoCollect ហើយចូលទៅកាន់ General Setting



# Enter username, password

KoBoCollect > General Settings

KoBoCollect  
Part of KoBoToolbox (kobotoolbox.org)  
KoBoCollect is based on the OpenDataKit.

**SERVER SETTINGS**

URL  
https://kc.kobotoolbox.org/

Username  
riverdoctor

Password  
\*\*\*\*\*

Google account  
cynthia.annett@gmail.com

Platform  
KoBoToolbox or ODK Aggregate

Form list path  
/formList

Submission path  
/submission

**AUTO SEND**

Auto send with Wi-Fi  
Auto send when Wi-Fi is available ☒

Auto send with network  
Auto send when network is available ☒

**USER INTERFACE**

Constraint processing behavior  
Validate upon forward swipe

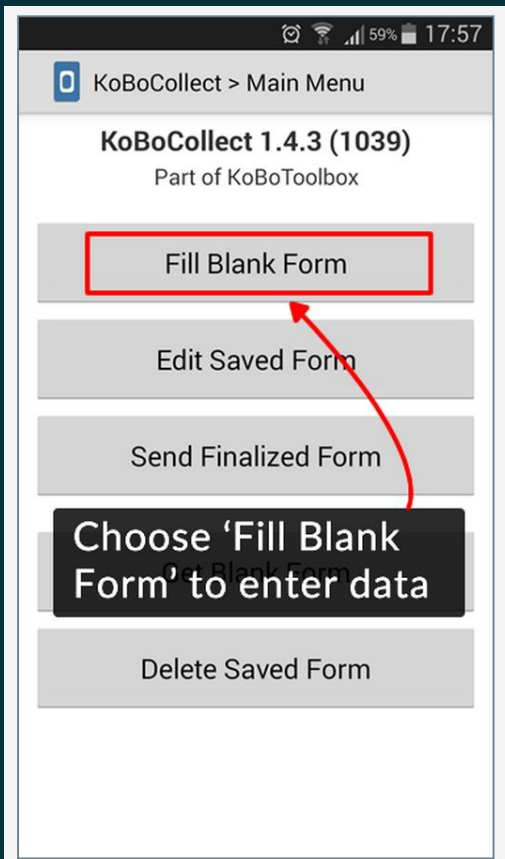
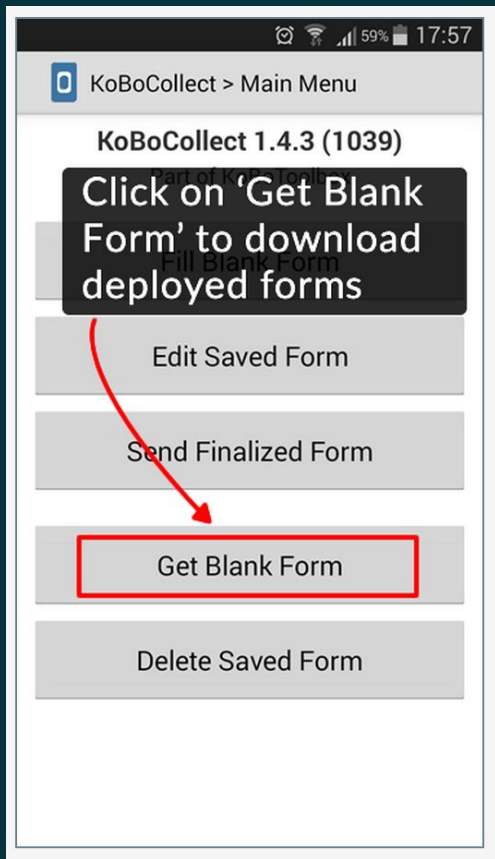
Navigation

URL: https://kc.kobotoolbox.org

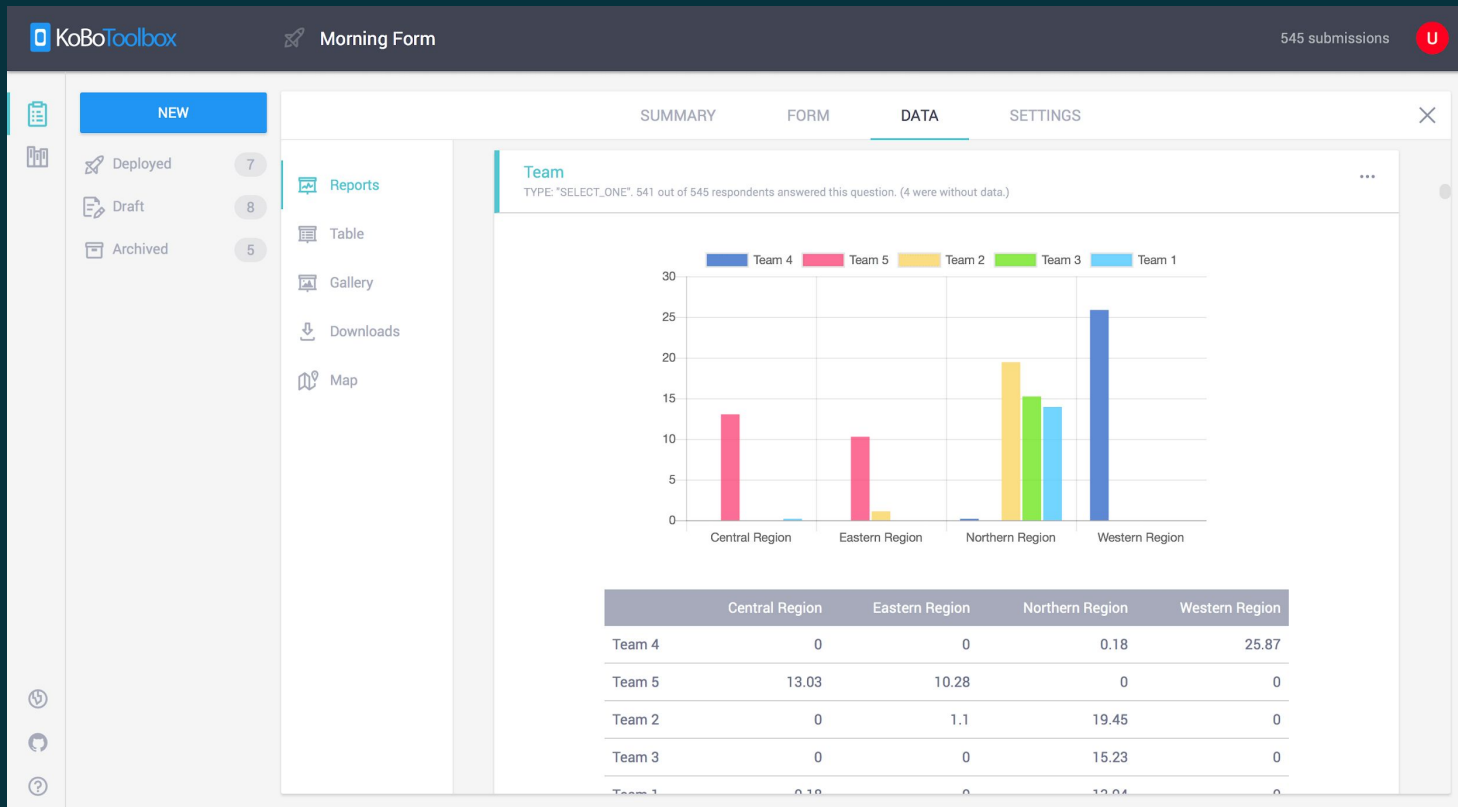
KoBo account password

# Data Collection: KoBo Form Hands-on

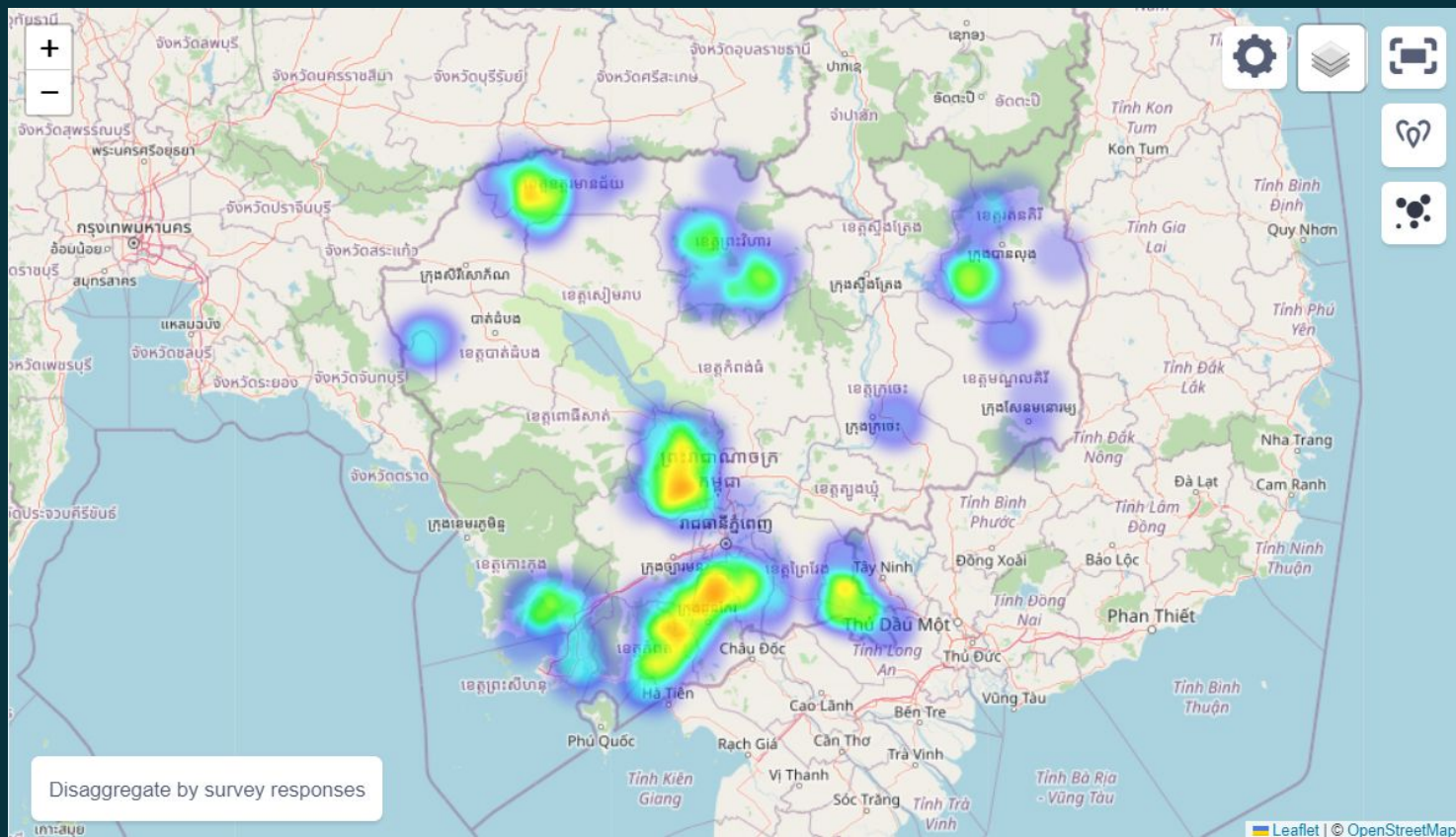
# Get Form, Fill Blank Form, Send Finalized Form



# ផ្ទាំងរបាយការណ៍សង្ខេប



# ផ្ទាំងបង្ហាញទិន្នន័យលើផែនទី



# ផ្ទាំងពិនិត្យ និងទាញយកទិន្នន័យ

NEW

Deployed 4

Draft 3

Archived 0

Downloads

Map

SUMMARY

FORM

DATA

SETTINGS

Table

Reports

Gallery

Downloads

Map

Downloads

Select export type  
XLS

Value and header format  
XML values and headers

Advanced options

Apply saved export settings  
Latest unsaved settings

EXPORT

Exports

Type	Created	Language	Include Groups	Multiple Versions	
XLS	October 25, 2022	XML values and headers	No	Yes	<div>Download</div> <div></div>

ការបង្ហាញផ្ទាល់លើឧបករណ៍

<https://www.kobotoolbox.org/>



[https://www.youtube.com/playlist?list=PLvEBaAA6n-RqwKWU  
WOghQA\\_50MzzfdUrr](https://www.youtube.com/playlist?list=PLvEBaAA6n-RqwKWUWOghQA_50MzzfdUrr)





សូមអរគុណ

**អង្គការទិន្នន័យអំពីការអភិវឌ្ឍ**