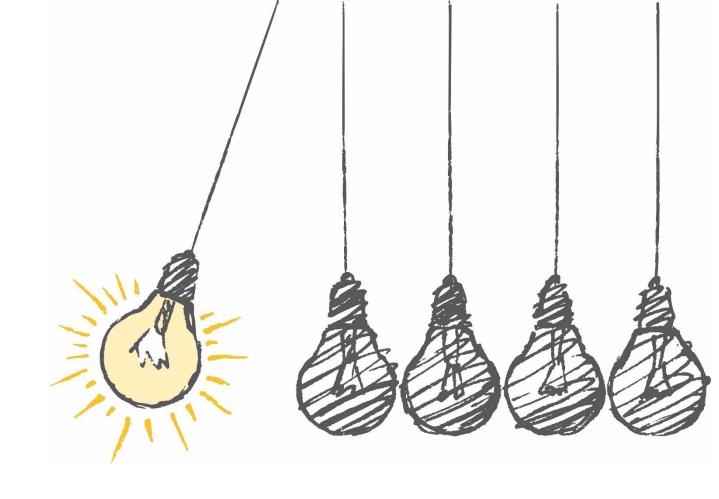
FC Continuing Education Series

SurveyCTO Basics *Programming a Survey*

Prepared by **DIME Analytics**dimeanalytics@worldbank.org

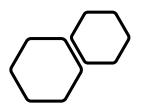
Presented by **Roshni Khincha** <u>rkhincha @worldbank.org</u>











Objectives By the end of this session you should...



HAVE A BASIC UNDERSTANDING OF SURVEYCTO



BA FAMILIAR WITH THE COMPONENTS OF SURVEYCTO (THE SERVER, COLLECT APP, DESKTOP APP)



BE FAMILIAR WITH THE LAYOUT OF AN XLS FORM USED TO DESIGN SURVEY FORMS



BE ABLE TO DESIGN A SIMPLE FORM

About <u>SurveyCTO</u>

SurveyCTO is a powerful, field-tested platform that allows you to collect high-quality data using mobile phones, tablets, or computers—even when you're offline.

- World Bank has an enterprise solution for SurveyCTO survey.wb.surveycto.com
 - Any data on this server is secure and encrypted
 - Internal server is cheaper than the commercial server
 - Quick(er) responses from the SurveyCTO support team
 - Managed by DIME Analytics
 - Upgraded to a new and improved version (v2.6) in early January

SurveyCTO Components



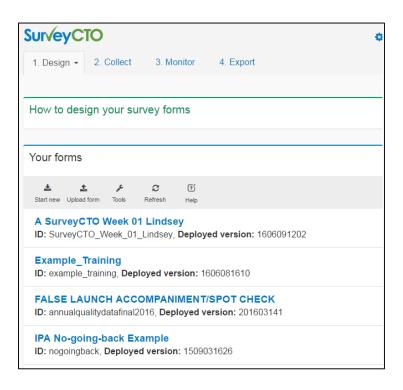


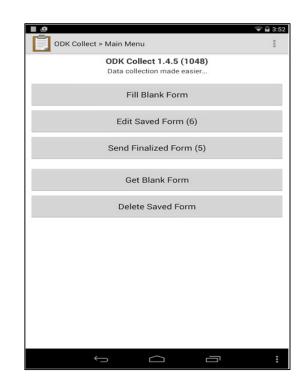


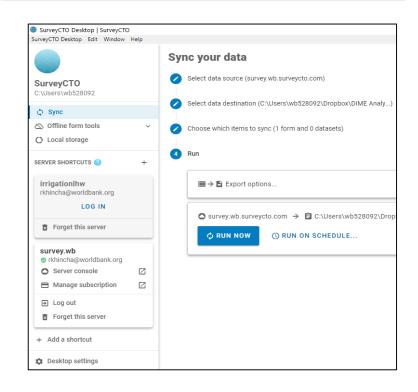
Server

SurveyCTO Collect

SurveyCTO Desktop







The Server

- The central repository where all questionnaires and data associated with a project sits
- Main purpose: Allows project team to communicate with the data and the field team to collect and upload that data
- Not as technical as it sounds
 - For our purposes it is a just like a web page on the internet
- · Features include
 - Designing and managing forms
 - Collecting data using a web browser (vs SurveyCTO Collect app)
 - Downloads (printable version, form files, do-files, data, Explorer files)
 - Documentation and administrator access



SurveyCTO Collect

- The app that is used for offline data collection
- After data has been collected, it's uploaded to the SurveyCTO server, or for more advanced offline set-ups, synchronized over local WiFi networks
- Features
 - Seamless Data Collection and Submission
 - Available on Android and iOS

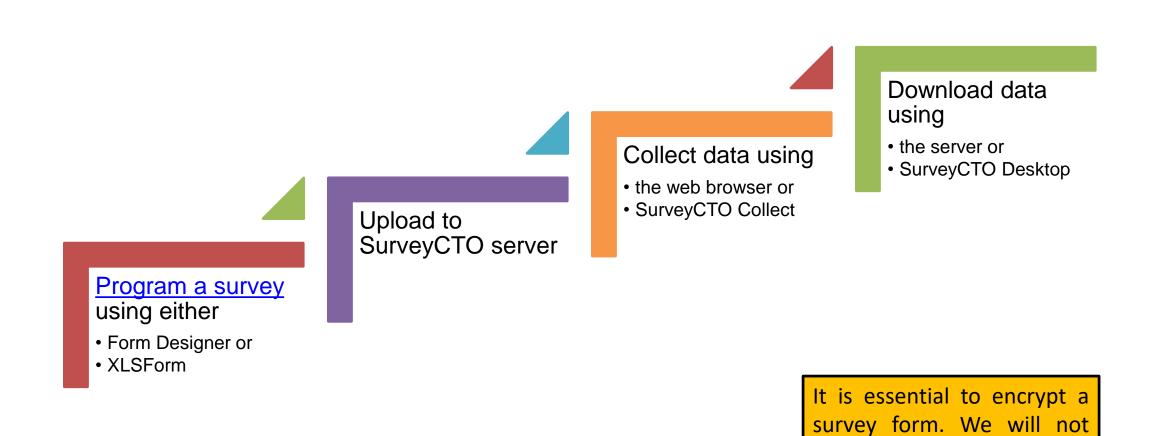


SurveyCTO Desktop

- Desktop application to centralize workflows and export data
- Features covered in detail on previous FC Continuing Education on <u>SurveyCTO within the</u> <u>World Bank</u>



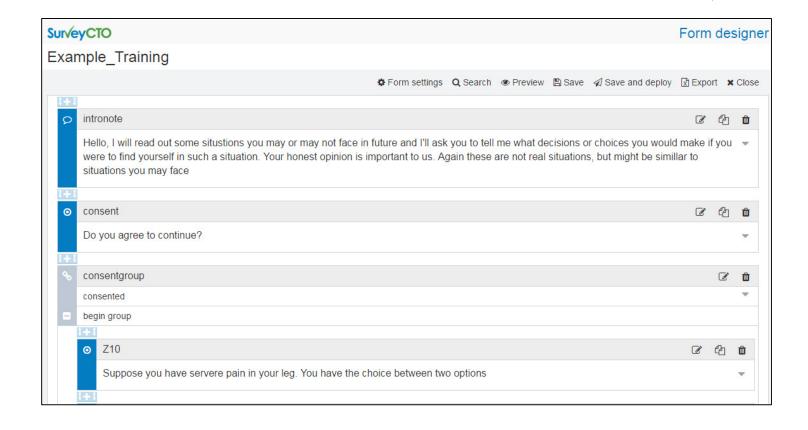
Data Collection Steps



cover this in today's session.

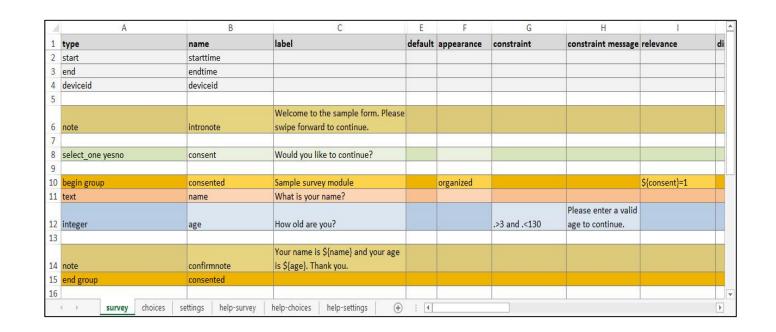
Program a survey: using Form Designer

- Found on the server
- Click & point mechanism of programing a survey
- Useful when new to SurveyCTO and still getting the hang of it
- Can be time consuming as a process
- More insights can be found on the <u>SurveyCTO Form</u> <u>Builder page</u>



Program a survey: using XLSForm

- Excel file where the survey can be programmed
- Efficient compared to Form Designer
- Easier to read than code
- Basic template can be found here
- Tip: Create a basic form using the Form Designer and download to XLSForm



Program a survey: using XLSForm

- We will spend the rest of the session programming a simple a survey using the XLS form
- Download materials here: <u>https://bit.ly/dime-fc-ce-surveycto</u>
- Folder contains
 - Paper version of survey: Survey Instrument (paper).pdf
 - XLSForm template: *empty_instrument.xlsx*



Layout of the XLSForm

- Open the XLSForm template <u>empty_instrument.xlsx</u>
- The XLSForm template has multiple tabs
 - survey
 - choices
 - settings
 - some help tabs
- Each tab is required and plays it's own role
- We will go through these in detail as we program the paper survey
- Let us review the paper survey Survey Instrument (paper).pdf before getting started



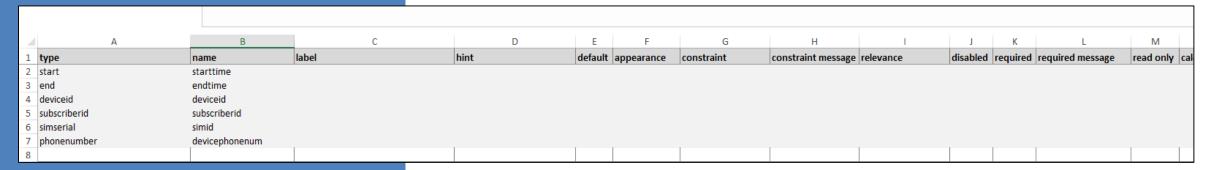
XLSForm: Setting tab

- In the settings tab we will update
 - form_title
 - the name of the survey form
 - form_id
 - the name of the survey form for the machine to read
 - can only contain words, numbers, and underscores
 - version

A	В	С	D	E	F
form_title	form_id	version	public_key	submission_url	default_language
		2004012224			english

XLSForm: Survey tab

- Has multiple variables defined
- Each row corresponds to a question
- help-survey tab provides details of each column
- Important columns for this session
 - type: question type
 - name: variable name
 - label: variable label
 - hint: additional information about question
 - required: indicates if a question
 - constraint: validate response/ensure it's in a given range
 - relevance: skip patterns



XLSForm: Question types

Question TypeDescriptiontextText input

integer (i.e., whole number) input

decimal Decimal input

select_one [options] Multiple choice question; only one answer can be selected

select_multiple [options] Multiple choice question; multiple answers can be selected note

Display a note on the screen, takes no input

geopoint Collect GPS coordinates

date Date input

datetime Date and a time input calculate Perform a calculation begin group Start a group of questions end group End a group of questions

begin repeat Start a group of repeated questions (eg: roster)

end repeat End a group of repeated questions



XLSForm: Choices tab

- Include options for select_one and select_multiple question types
 - E.g.: yes no
- Important columns
 - list_name: name to match with the option list on survey tab
 - value: coded value of each category
 - label: value label of each category

	Α	В	С	D
1	list_name	value	label	image
2	yesno	1	Yes	
3	yesno	0	No	
4				
5				

Program a survey

- Let us now program the paper survey
- Useful to remember:
 - Refer value from previous question using \${varname}
 - Follow good <u>variable naming conventions</u>
 - Add hints where possible
 - Standardize values for common responses such as Don't know and Refuse to Answer

Some tips

Test survey by uploading to a server (Survey will not upload if there are errors)

Use **ietestform** to test the form for best practices

We have covered the very basic features of a SurveyCTO survey. SurveyCTO has the ability to code complex elements in a survey including

- Adding calculations audio, video, gps, barcodes
- Including audio audits
- Randomizing survey elements
- Pre-loading data into a form Using server





DIME WIKI



SURVEYCTO DOCUMENTATION



SURVEYCTO WEBINARS

Thank you!

