



Using mobile technology for facilitating data collection and analysis in LLIN distribution

AMP 2015 Partner's meeting

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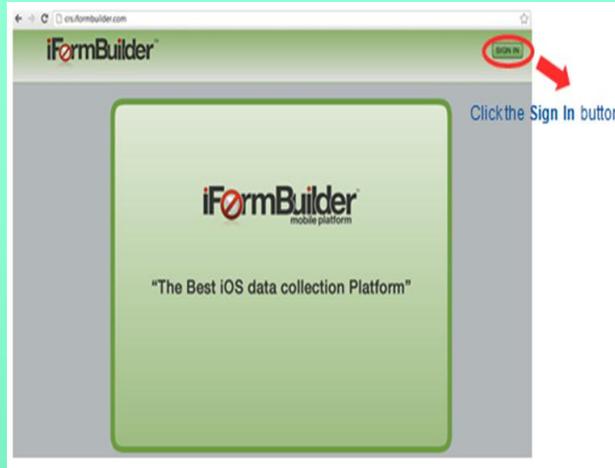
Suzanne Van Hulle, Senior Technical Advisor for Malaria

faith. action. results.

Essential trio



People



Software



Hardware



How it works – during beneficiary registration

- During the beneficiary registration, information on number of pregnant women in HH, voucher number, type of LLIN to be issued, etc. is collected on the iPad.



Voucher issued

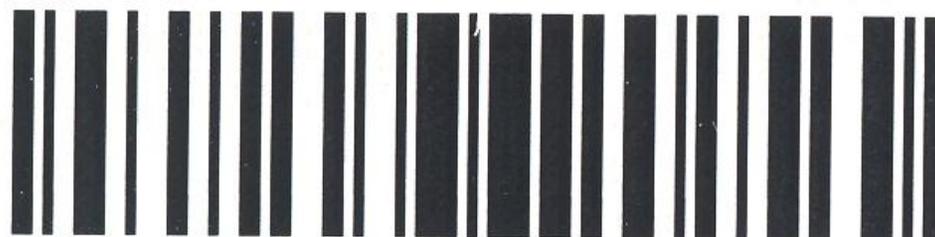


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The Global Fund
To Fight AIDS, Tuberculosis and Malaria



Mass LLIN Distribution Campaign Voucher 2014



0831942

Net Type: **Conical**

How it works – on distribution day

- Once the barcode on the voucher is scanned on the distribution day, the following reminder steps shows up on the iPad

Cancel LLIN Distribution Save

Consideration:

1. Collecte the voucher from the beneficiary
2. Scan the voucher bar code
3. Mark the voucher and keep it
4. Provide Net to beneficiary

Scan LLIN voucher number >

Done

iFormBuilder

These are the main elements of the iFormBuilder website:

Main Menu

Username

Profile ID

Logout

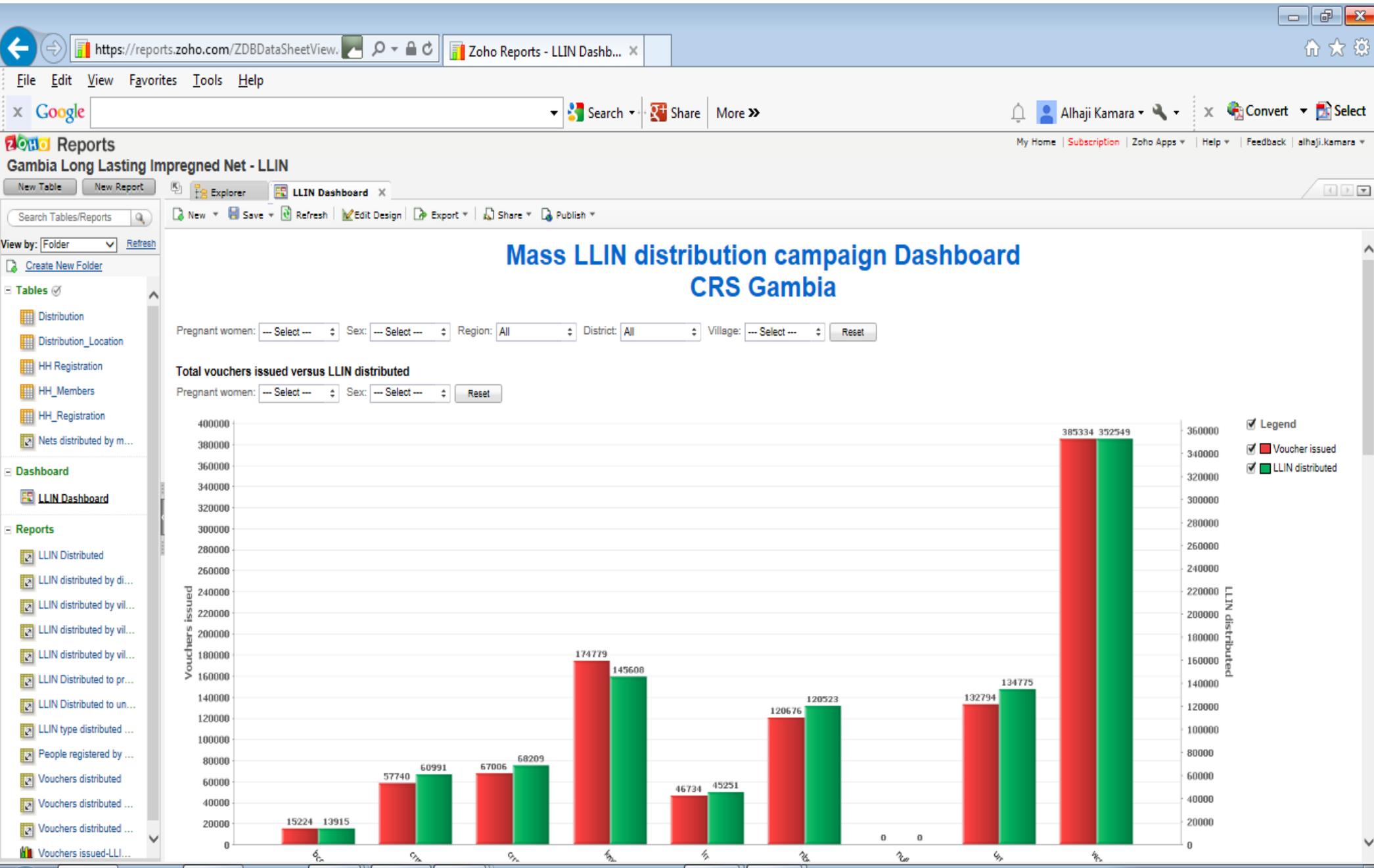
Knowledge Base

Data Grid

The screenshot shows the iFormBuilder website interface. At the top, the logo 'iFormBuilder™' is visible. Below it is a navigation bar with buttons for 'Data', 'Forms', 'Users', 'Company', and 'Support'. To the right of the navigation bar, the user is logged in as 'ognendtp' with a profile ID of '11354', and a 'Logout' button is present. A large red oval highlights the 'Data Grid' section, which contains a table with columns: 'Filtered?', 'Form Label', 'Table Name', 'Last Modified Date', and 'Data Record Count'. The table lists various forms and their associated table names and record counts. Below the table is a search bar with a 'Find' input field, a 'Table Name' dropdown, and 'Search' and 'Reset' buttons. At the bottom, there are pagination controls showing 'Page 1' and 'Displaying 1 to 10 of 90 items'. Red arrows point from the text labels to the corresponding elements in the screenshot.

Filtered?	Form Label	Table Name	Last Modified Date	Data Record Count
	10973 CRS Office Location	crs_office_location_copy	2012-08-14 12:38:40	1
	10974 Project Registration	project_registration_main_form_copy	2012-08-14 12:37:10	2
	10975 Project Registration	project_registration_copy	2012-08-14 12:52:46	6
	10976 Multi_Country_Project_S	multi_country_project_subform_copy	2012-07-31 15:19:17	15
	10977 Partner_program_areas_subform	partner_program_areas_subform_copy	2012-07-31 15:19:44	47
	10978 Donor Subform	donor_subform_copy	2012-07-31 15:19:33	7
	10979 Partner Registration	partner_registration_copy	2012-08-15 09:13:49	6

From Iform to Zoho reports!



Zoho reports – various formats

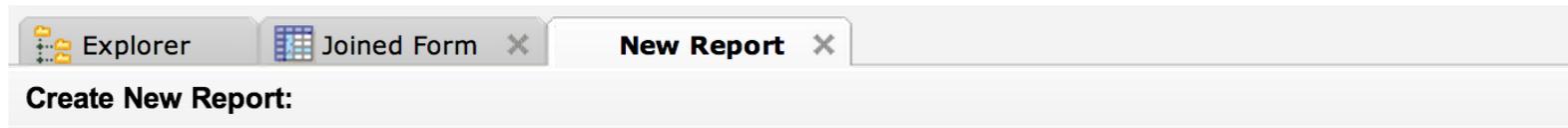
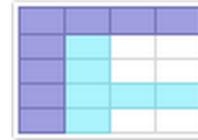


Chart View

Chart View allows you to create a graphical view using different types of charts.



Tabular View

Tabular View provides you a way to list your values in a simple tabular format.



Pivot View (Matrix View)

Pivot View allows you to view data summarized in a grid both in horizontal and vertical columns.



Summary View

Summary View allows you to view data with grouping and subtotals.



Dashboard

Dashboard allows you to combine multiple reports in a single page for a quick overview

Auto Generate Reports:



Similar to Another Table

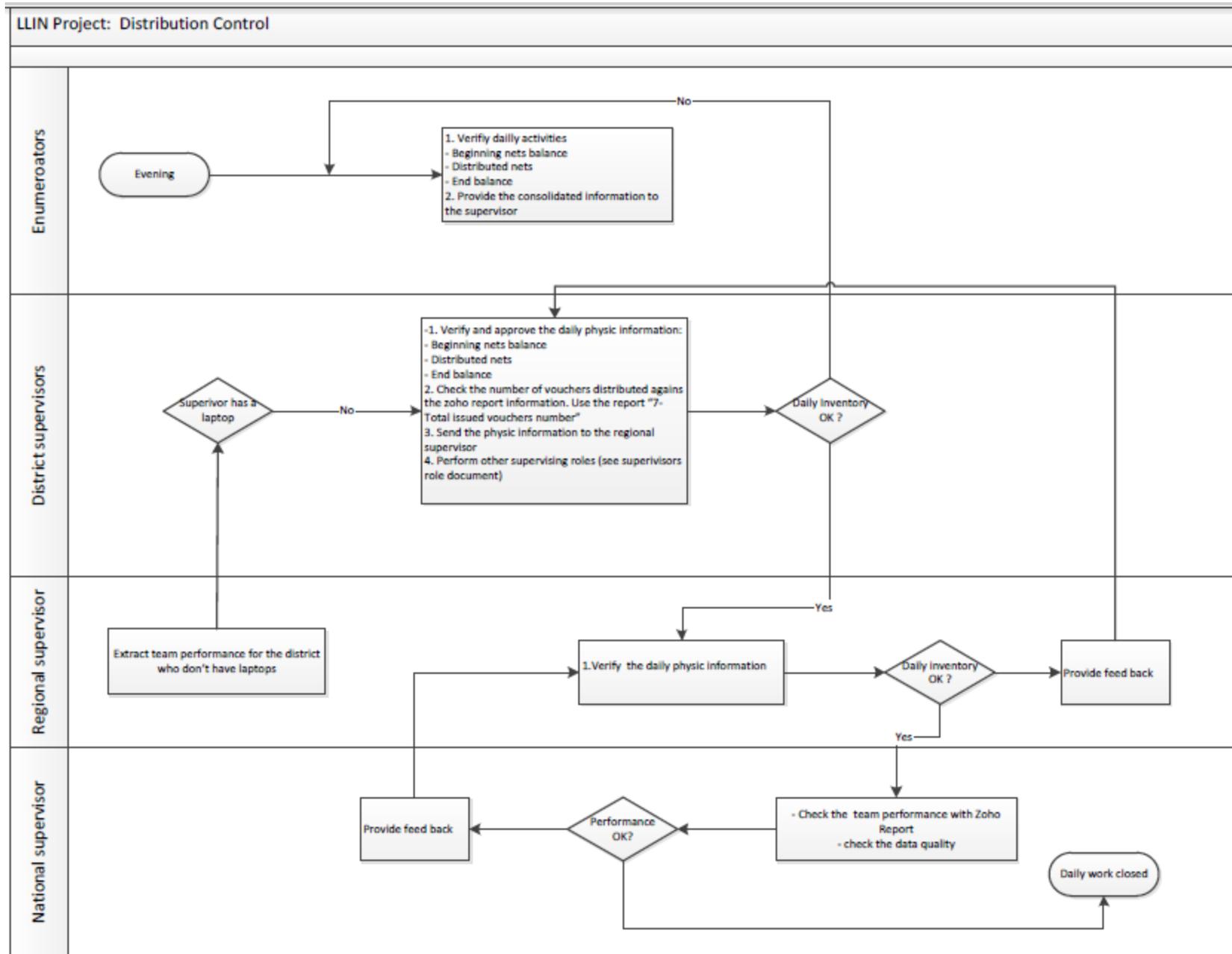
Will generate reports for the selected table, similar to what is available for another table in this database.



With Auto Analysis

Will auto generate reports for the selected table, by analyzing & applying advanced rules on the data in the table.

Business Processes ...



What does it cost?

1.5 ICT4D Budget for Malaria Phase 2 LLIN Mass Distribution Campaign - May 2014				
Hardware and Licenses	Comments	Unit Cost	Quantity	Total Cost (US\$)
iPad mini WiFi + 3G With Protective Case	Data collection device	479	100	47,900
Barcode Scanner	Provides the ability to scan barcodes in IDs	280	100	28,000
Voltaics Amp Solar Charger	To recharge devices when electricity is not available	100	50	5,000
iFormBuilder Licenses	License per user per year. Both (# of users and # of years)	50	100	5,000
Barcode Software	Provides the ability to issue IDs with barcodes	300	1	300
Zoho Reporting	Per month/per user (12 Months)	72	3	216
SIM Card	For use with the iPad mini for data uploads	1.5	100	150
3G or GPRS data cost	Country-specific cost of using a data package	64	100	6,400
Sub-Total				92,966
Labor	Comments	Unit Cost	Quantity	Total Cost
Form Desing and Build	Includes services from GKIM	350	5	1,750
Report Desing & Build	Includes services from GKIM	350	5	1,750
Geospatial Analysis Design & Build	Includes services from GKIM	350	5	1,750
Training	Includes services from GKIM	350	15	5,250
Sub-Total				10,500
Onsite Training	Comments	Unit Cost	Quantity	Total Cost
Airfare to and from	Dependent on destination	2,000	1	2,000
Accomodation	Dependent on destination & number of days	120	15	1,800
Per Diem	Dependent on destination & number of days	41	240	9,840
Incidentals & Others	Visa fees, vaccinations, etc.	500	1	500
Sub-Total				14,140
TOTAL COST				117,606

Main challenges encountered...

Challenges	Recommendations
In-built batteries in Apple devices can run out after a few hours	Purchase one solar charger per iPad
Connection between Zoho Reports & iFormBuilder	Pre-test with larger data in iFormBuilder
Failure of barcode scanners to connect to their iPads	More time required for training to address issues like troubleshooting
Limited mobile coverage in the remote settlements affected timely uploading of data	Note books can be provided

Main advantages of using mobile technology for monitoring LLINs

- Decreased need for many monitoring teams with real-time data availability
 - Ability to know exactly what is going on in real-time
 - Timely decision-making during campaign
 - Easy to provide periodic feedback to teams
- Reduced costs for storage of and retrieval from the field of paper forms
- Reduced recording errors
- Faster compilation, analysis, and reporting of data