

MEASURING QUALITY AND PERFORMANCE FOR BETTER HEALTH FINANCING

HELLO!

Hello, I'm Naïké Nembetwa

Project Manager, BlueSquare





BlueSquare technologies promote smarter allocation of resources in emerging economies - so they get to where it matters most.

> BLU SQUAR

OVERVIEW

- Introduction
- Data management with OpenRBF
- Mobile data collection: how it works
- Dimensions of quality measurement
- Discussion



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The IT revolution has transformed our ability to capture vast quantities of data on the inputs and activities of the health system and (in principle) offers a major resource for performance measurement and improvement. -WHO



RBF

RESULTS-BASED FINANCING

What it's all about...



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Results-based financing encompasses the entire range of incentive approaches on both the demand and supply sides. - PBF Toolkit

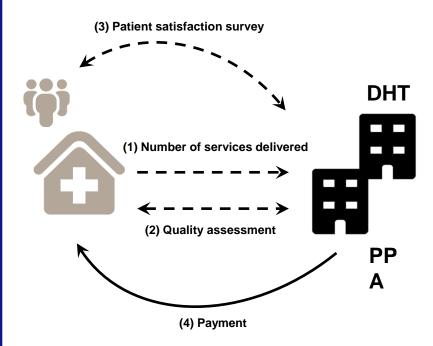


PERFORMANCE-BASED FINANCING

Seeks to lower demand-side barriers by subsidizing services (buy packages of activities) so that providers can apply user fee exemptions to the most vulnerable populations.



PBF: HOW IT WORKS



- Monthly verification of quantity of services delivered
- 2. Quarterly quality assessment
- 3. Quarterly patient satisfaction survey
- 4. Quarterly payment



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The fundamental role of performance measurement is to help hold the various agents to account by enabling stakeholders to make informed decisions. - WHO





DATA MANAGEMENT

RBF programmes generate a lot of data



DIGITAL vs. PAPER-BASED

Digital	Paper-Based
Cloud storage	Limited storage space
Automated search	Manual search
Easy to analyze	Difficult to analyze data
Safe, available on-demand	Easily damaged or lost





Let's look at QIII 2016...





4,713

Health facilities in 21 countries





5,754,708

Services provided



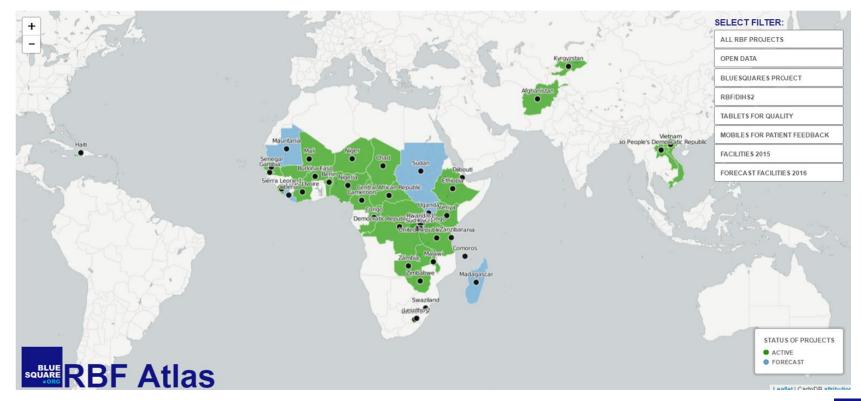


\$20,184,805

Payments received (until the end of QIII 2016)



CONNECT STAKEHOLDERS AROUND THE WORLD







DATA MANAGEMENT

OpenRBF is a web application that enables users to create:

- Purchasing systems
- Health facilities and administrative entities
- User groups
- Forms
- Invoices and reports



DATA MANAGEMENT

OpenRBF improves:

- Completeness
- □ Timeliness
- Accuracy
- Transparency
- Accessibility





MOBILE DATA COLLECT

Can be used anywhere, both online and offline.



TABLETS & PHONES







CHOOSING AN ANDROID DEVICE

BUDGET

Budgets may influence which devices projects can purchase.

USERS

Understanding users and context is primordial. It's best to choose easy-to-use devices with no or little onboarding.

FEATURES

Each devices has different features such as screen quality, durability, battery capacity, camera, memory, sensors, connectivity options, weight, etc.

POWER

In rural areas with limited electricity, users need devices with a long battery life and solar chargers.

FORMS

Data collection forms can be simple or complex based on the type of questions and the length of the form.

NETWORK AVAILABILITY

Dual SIM devices are appropriate in areas where network providers have incomplete coverage.



MDC: HOW IT WORKS

Let's look at how it works...



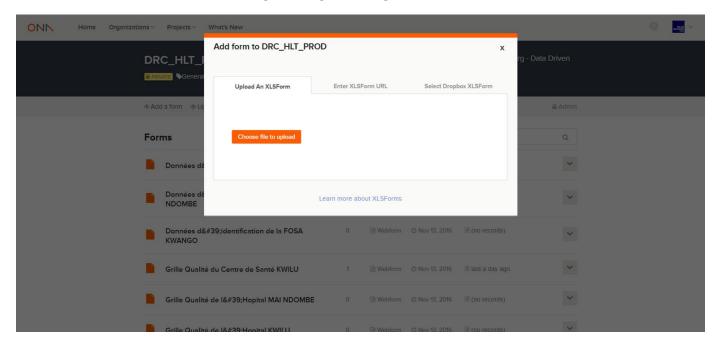
STEP ONE: SETUP A PROJECT IN MDC

13	EPI and Pre-School Consultation [max 20 points]	YES	NO
13.1	Personnel calculates correctly target for fully vaccinated children		
13.1.1	Target = population * 4.8% / 12 : asked from any medical personnel dealing with care for clients	ersonnel dealing with care for clients	
13.1.2	The target population concerns the ward population (or the defined catchment pop in case ward has more PBF primary contract holders)		
13.2	idge		
13.2.1	Presence of a fridge - temp form available, filled twice a day including the day of the visit]	
13.2.2	Temperature remains between 2 and 8C in register sheet	4	0
13.2.4	Supervisor verifies functionality of thermometer		
13.2.5	Temperature between 2 and 8C also according to the thermometer		
13.3	Chemical Temperature Indicator		
13.3.1	Presence of a chemical temperature indicator (this is a specific piece of paper different from the thermometer) which shows temperature acc to the norms	1	0
13.4	Appropriate storage of vaccines		
13.4.1	Freezing compartment: Measles	1	
13.4.2	Non-freezing compartment: BCG, Penta + HepB, TT, thinners	1	0
13.4.3	Absence of vaccines which are expired]	
13.4.4	Readable labels on all vaccines		
13.5	Appropriate stock of vaccines		
13.5.1	BCG, Penta, Polio, Yellow Fever, HBV, Measles, Tetanus] ,	

We use XLSForm a form standard created to simplify the authoring of forms in Excel. MDC is an application that allows us to generate simple XLSForms for entities and datasets in DHIS 2.



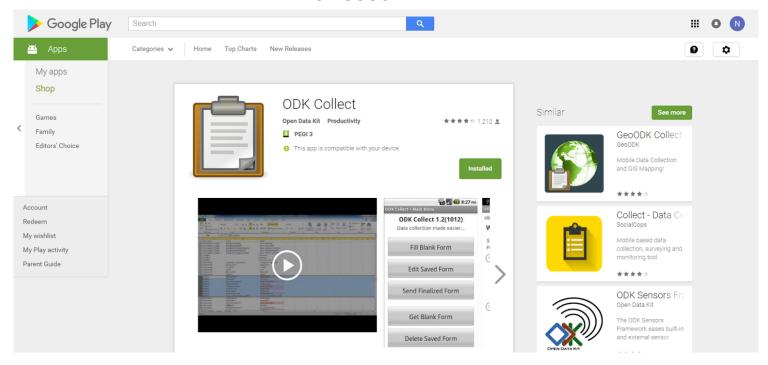
STEP TWO: UPLOAD THE FORM ON AN ONLINE SERVER



We upload the finished form to Ona. The form is then available to be downloaded on project devices.



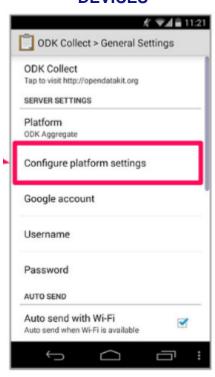
STEP THREE: DOWNLOAD ODK ON GOOGLE PLAY



Verifiers and surveyors download ODK Collect from Google Play on their devices. ODK is a free open source application that allows you to collect data offline



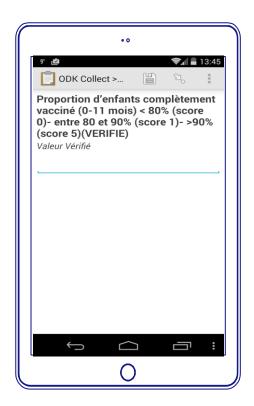
STEP FOUR: CONFIGURE THE PLATFORM SETTING ON DEVICES



Verifiers and surveyors configure platform settings on their tablets and phones.



STEP FIVE: COLLECT DATA

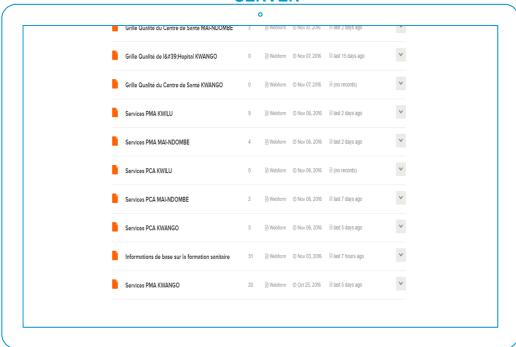






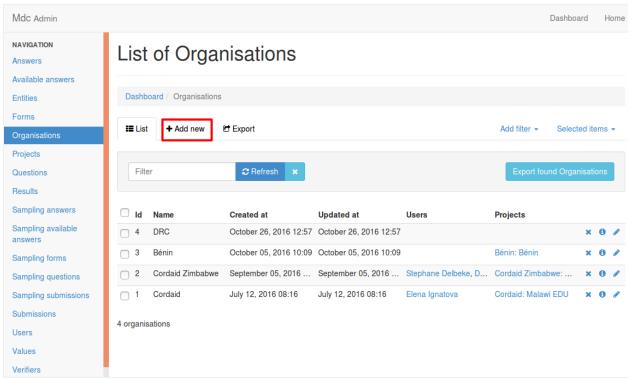
They can start collecting data online or offline.

STEP SIX: SEND THE DATA TO THE ONLINE SERVER





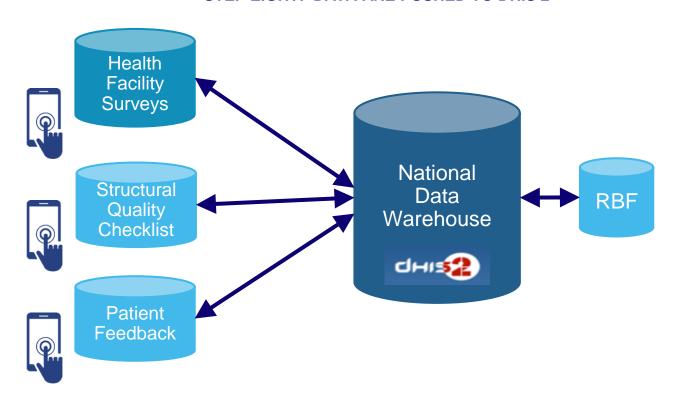
STEP SEVEN: DATA ARE PUSHED TO MDC



MDC is the bridge between XLSForms, ona.io, DHIS 2 and the front-end.



STEP EIGHT: DATA ARE PUSHED TO DHIS 2





?

MEASURING PERFORMANCE

How can technology help measure performance?



5 DIMENSIONS OF PERFORMANCE MEASUREMENT



Inputs

Service Delivery Population Coverage

Clinical Quality

Responsiveness



5 DIMENSIONS OF PERFORMANCE MEASUREMENT

We will specifically look at:

- □ Patient satisfaction
- Clinical quality
- Structural quality (checklists)



PATIENT SATISFACTION

COMMUNITY VERIFICATION AND SATISFACTION



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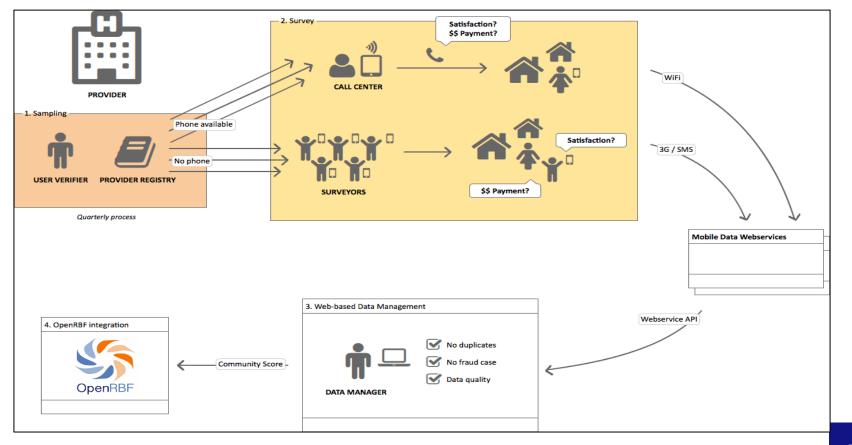
Patient satisfaction is a commonly used indicator for measuring the quality in healthcare





Patient interviews are used to measure patient satisfaction and pay providers a quality bonus.







- Which consultation did they attend?
- ⊡How much did they pay?

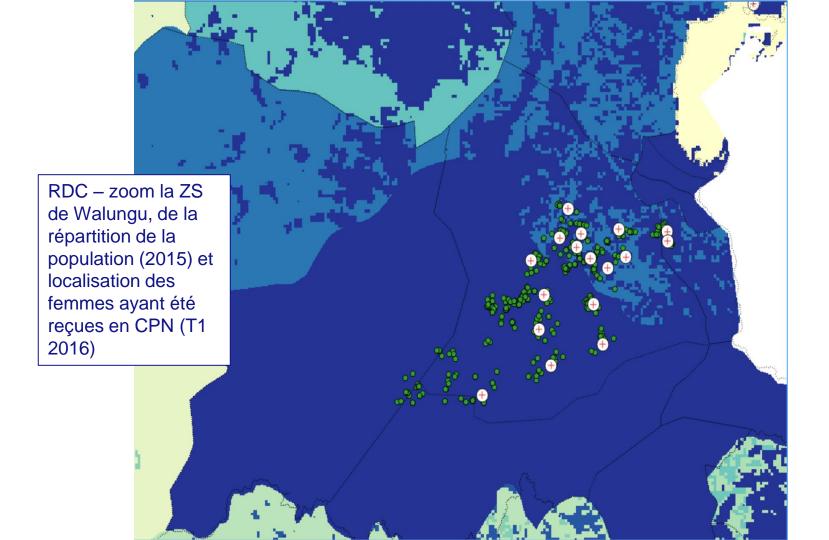


- ∴What is the type of floor of your house?
- Does your household have: a radio, electricity, a fridge, a mobile phone, a non-mobile phone, a bicycle, a television, a car?
- Do you sleep under a mosquito net? (only for pregnant women − questionnaire ANC)
- □Geo-code of the interview

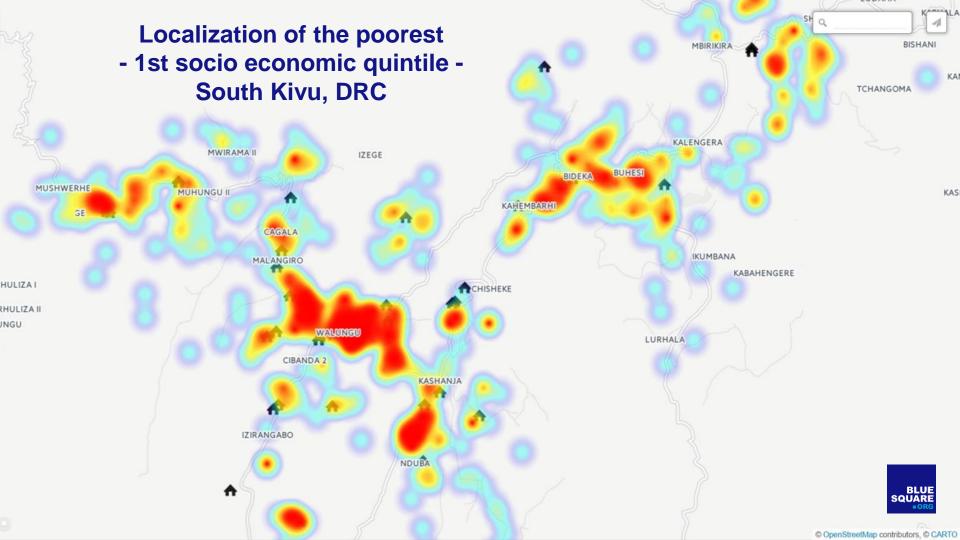


- Improve data quality
- Share data
- Collect metadata and additional questions









- Improve provider accountability
- Manage cases of fraud
- Improve data quality
- Share data
- Collect metadata and additional questions

- Give providers feedback



VIGNETTES CLINICAL VIGNETTES



CLINICAL VIGNETTES



Vignettes are short scenarios that measure what doctors and nurses know.



CLINICAL VIGNETTES

ENFANT - DIARHEE

Module 3 : Simulations de cas Section B: Patient 1								
	<i>tient lit :</i> Bonjour, docteur. Je suis iarrhée.	la mère d'un petit garçon d	l'un an. S	Son nom est Baraka. Il				
(Si le	clinicien pose des questions, d	'autres informations sero	nt fourr	nies !)				
	Question posée	Réponse de l'enquêteur	Oui=1 Non=2 Après= 3	Remarques/autres questions				
Duré	e de la simulation							
Q1.	Heure de début de la simulation	[-	h .					
Anté	cédents médicaux [25 points]							
Q2.	Autres symptômes	Quel genre de symptôme ?	II					
Q3.	Durée de la diarrhée	Deux jours [2 points]	ii	1				
Q4.	Sang dans les selles	Non [2 points]	ii	1				
Q5.	Consistance des selles	Elles sont liquides et mucoïdes. [0.5 points]	11					
Q6.	Fréquence de la diarrhée	Il a la diarrhée juste après avoir mangé. Plus de 3 fois par jour [1.5 points]						
Q7.	Vomissements	Oui, il vomit à chaque repas. Donc plus de	,,					

Each vignette measures how doctors and nurses take patient history, conduct physical exams, order laboratory and image tests, diagnose patients, choose a treatment course and advise them



CLINICAL VIGNETTES VIGNETTES HIGH LEVEL FLOW CHART Create vignette forms Download application on mobile device ves no Search Go to health Select staff Log into Select Already Administer Save in staff in done? Internet? facilities in register the app facility registered? vignette phone register no no yes Generate report on Create tablet profile continue Do role verification play no See results Calculate quality Generate Verification on OpenRBF bonus for health Send all data quarterly done? dashboard invoice facilities on ORBF yes



VIGNETTES

- Measure performance to pay quality bonuses
- Educate doctors and nurses on recommended clinical protocols
- Track individual and facility performance overtime



QUALITY CHECKLISTS

QUALITY CHECKLISTS



QUALITY CHECKLISTS

GRILLE DE VERIFICATION DE LA QUALITE DANS LES CAL/HCR

SYNTHESE D'EVALUATION

ENSEMBLE DES COMPOSANTES	QUELLE IS	POINTS disponibles	POINTS gagnés	%
Indicateurs généraux	TOUS	10		
2. Plan de business	TOUS	10		
Recettes, dépenses de fonctionnement, prime de performance – indice	TOUS	10		7
4. Hygiène & stérilisation	TOUS	20		
5. Consultation Externe / Urgence	TOUS	25		
6. Planification Familiale	TOUS	25		
7. Laboratoire	TOUS	10		
Gestion de médicaments	TOUS	10		
9. Médicaments traceurs	TOUS	15		
10. Salle d'hébergement	TOUS	10		
11. Maternité	Sauf pour certains CAL	25		
12. Tuberculose	Sauf pour certains CAL	10		
13. Vaccination	TOUS	15		
14. Consultation prénatale	TOUS	10		
TOTAL	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	205		





South Kivu: Stock-outs in Health Centers

The map displays information on the stock-outs on essential drugs, basic eqipment, and vaccines in the South Kivu region, Democratic Republic of the Congo. The data presented is for **February 2016**.

Click on each dot to see entity related information.

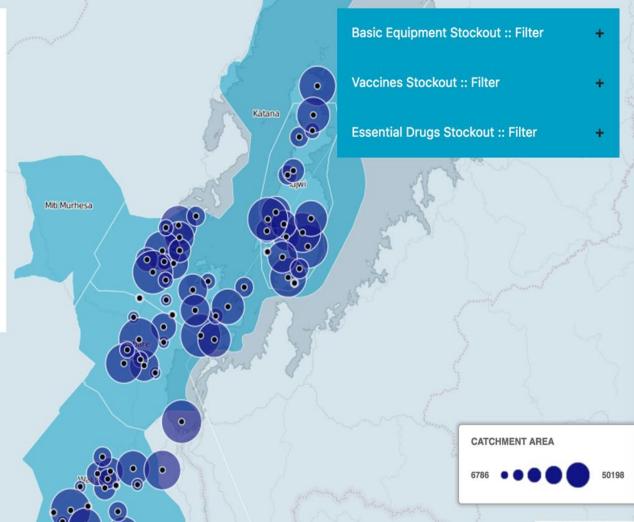
More information on the covered health facilities, can be seen on the RBF portal: health.pbfsudkivu.org

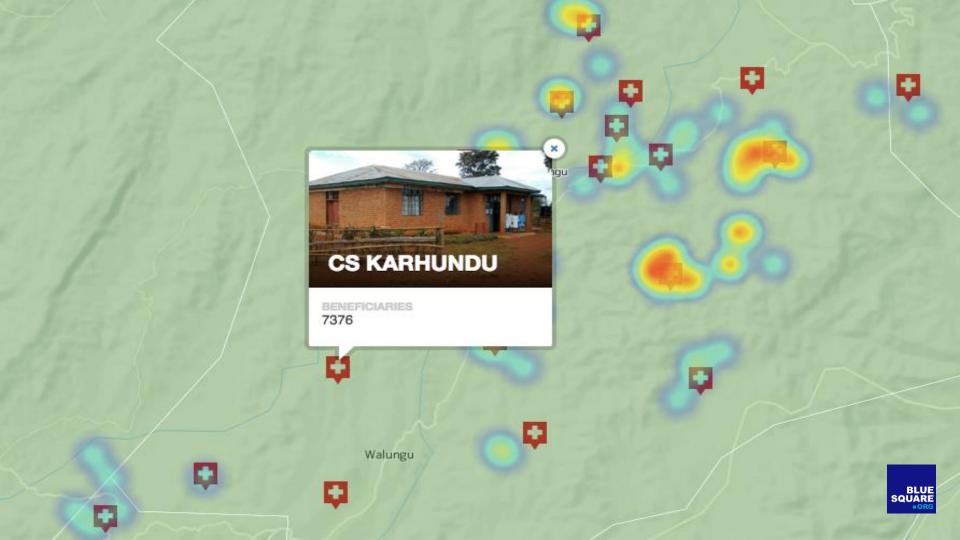
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THANKS!

Any questions?

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