



SolDevelo's Case Study and Project Information

About Pathfinder

Pathfinder International's mission is to advance sexual and reproductive health and rights globally by catalyzing change locally.

In more than 25 countries, Pathfinder provides women, men, and adolescents with a range of quality health services—from contraception and maternal and neonatal health to HIV prevention and AIDS care and treatment. Pathfinder strives to strengthen access to family planning, ensure availability of safe abortion services, advocate for sound reproductive health policies, and, through all of the work, improve the rights and lives of the people served.

Introduction

Pathfinder International currently runs a program called m4change in Abuja and Nasarawa, Nigeria using mobile phone (mHealth) system based on Dimagi CommCareHQ to support various clinical and education functions at primary health care centers. The data collected from the m4change application is stored in CommCareHQ database hosted by Dimagi.

Online portal features:

- Securely Import raw patient data from CommCareHQ
- Aggregate, Summarize, and sum data for the purpose of report accessibility to various stakeholders.
- Securely Interface with a Financial Institution for mobile money payments of enrolled clients in Nigeria from identified rules.
- Generate report of payment logs for audit purpose
- Document processes to inform scale-up

About project



20 facilities

Project was formally launched in 20 health facilities in Nasarawa and Abuja states.



150 workers

Community health extension workers and midwives currently using the application.



15,000 women

Women are registered and being followed in CommCare at project health facilities.

m4Change was launched in 2012 to improve the quality of services provided by community health workers through the deployment of a mobile phone antenatal care application designed to facilitate more accurate decision-making.

Pathfinder collaborates with Dimagi, Inc and the Nigerian Government to implement the m4Change project in Nigeria. The m4Change project aims to equip community health extension workers with a CommCare, a mobile phone decision support application, in order to improve the quality of antenatal care (ANC) services, contributing to the goal of reducing maternal mortality within the framework of Nigeria's "Saving One Million Lives Initiative". In February 2013, the project was formally launched in 20 health facilities in Nasarawa and Abuja states with more than 150 community health extension workers and midwives currently using the application. To date, more than 15,000 women are registered and being followed in CommCare at project health facilities.

In order to promote data use and effective planning, Pathfinder developed an online reporting portal to allow access to a user-friendly data dashboard where key stakeholders can access data for facility and aggregate level data analysis. Pathfinder also recognizes the power of using data for improved supervision. Pathfinder has partnered with the University of Washington to explore protocol and workflow data collected in CommCare and compared across sites. This data will be shared with supervisors to understand anomalies and effect change to improve the quality of care.



Online portal

to allow access to a user-friendly data dashboard where stakeholders can access data.

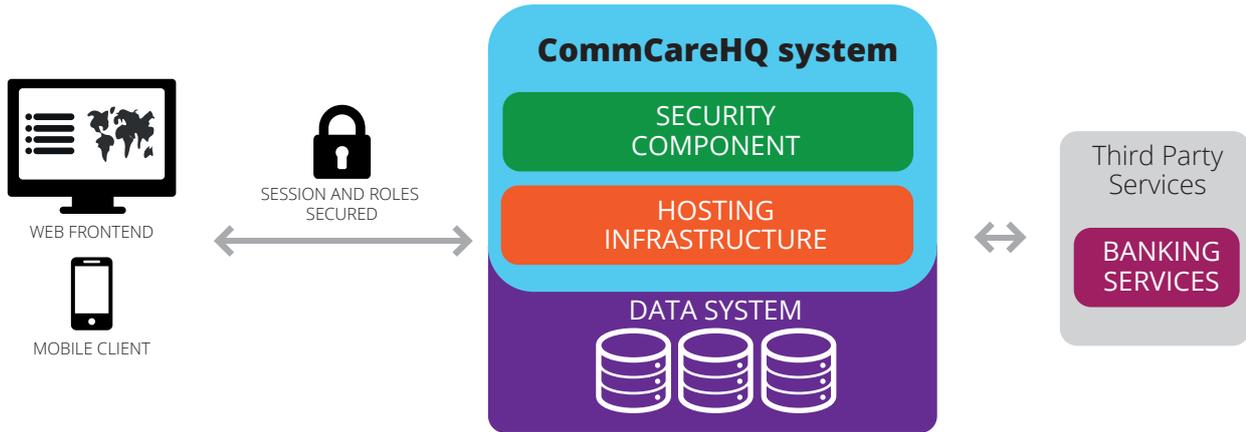
The use of SMS reminders have been shown to improve antenatal care attendance and skilled birth delivery rates in many African countries. The m4Change project leverages these findings to use SMS to notify women if they have missed an antenatal care appointment and encourage them to come back into care. SMS alerts are also sent to health workers to follow up on women for birth plans and to promote postnatal care services.



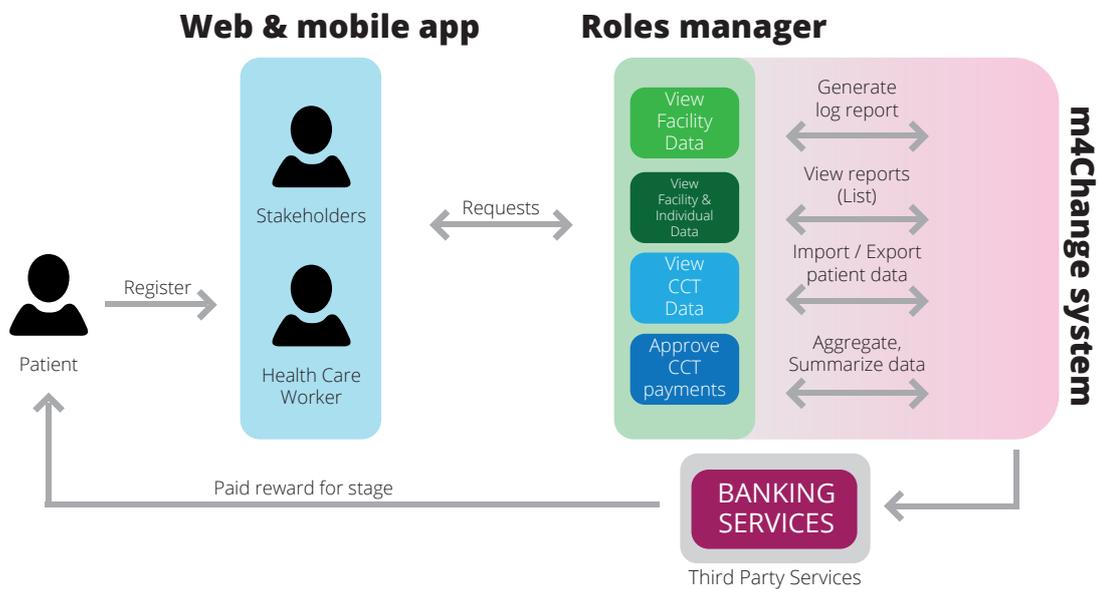
SMS reminder

m4Change send SMS messages to patients and health workers to improve care services.

System Architecture



System Diagram



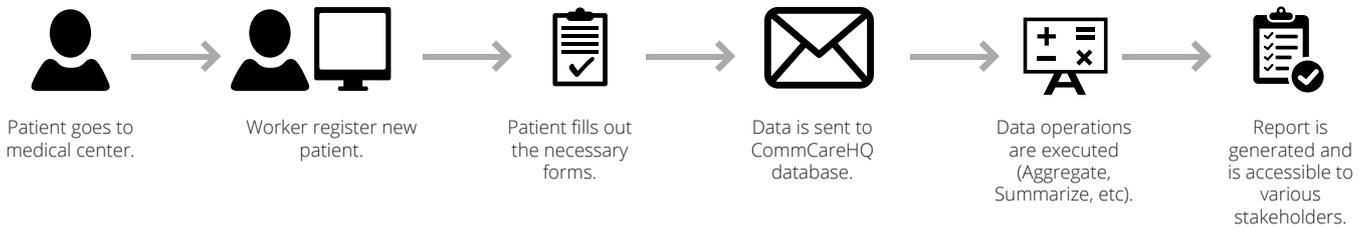
Our Involvement

Our SolDevelo team was responsible for developing Dashboard for Report Views, data extraction from CommCare Databases and also communication with Third-Party Bank System. Report Views we created:

- Facility ANC HMIS Report
- Facility L&D HMIS Report
- Facility Immunization HMIS Report
- Facility ALL HMIS Report
- Project Indicators Report
- Aggregate Facility Web HMIS Report
- mCCT Beneficiary Approval Page
- mCCT Beneficiary Payment Page
- mCCT Paid Beneficiary Page
- mCCT Rejected Beneficiary Page
- mCCT Beneficiary Log Page
- mCCT Monthly Aggregate Report

Sample Use Cases

#1 Collect data forms and generate reports



#2 Mobile money payments



Screens

Facility L&D HMIS report screen:

HMIS code	Data Point	Total
19	Deliveries - Total	68
20	Deliveries - SVD	67
21	Deliveries - Assisted	0
22	Deliveries caesarean section	1
23	Deliveries - Complications	0
24	Deliveries - Preterm	1
25	Deliveries - HIV positive women	1
26	LiveBirth - HIV positive women	1
27	Deliveries - HIV positive booked women	1
28	Deliveries - HIV positive unbooked women	0
29	Deliveries - Monitored using Partograph	0
30	Deliveries taken by skilled birth attendant	0
31	TT1	0
32	TT2	0
36	Live Births(Male, Female, < 2.5kg, >= 2.5k g)	68
36.1	Male, < 2.5kg	3
36.2	Male, >= 2.5kg	37
36.3	Female, < 2.5kg	3
36.4	Female, >= 2.5kg	25
37	Still Births total	2
38.1	Fresh Still Births	2
38.2	Other still Births	0
39.1	Abortion Induced	0
39.2	Other Abortions	0
40	Total Abortions	0

mCCT Beneficiary list view screen:

Report Filters

Location: All

Date Range: 2014-07-01 to 2014-10-28 This report's timezone is Africa/Lagos.

Case Search:

Service type: All

Apply Favorites Save...

Hide Filter Options Export to Excel

mCCT Beneficiary list view

Review Cancel Reject Reason: None

Date of service	Beneficiary Name	Service Type	Health Facility	Card No.	LGA	Phone No.	Amount	Visits	Status/Action
2014-07-03	agr1	delivery with immunization	AggregateTestFacility	12312	SanityTestDistrict	12312312312	3000	1	<input checked="" type="checkbox"/>
2014-07-03	agr3	delivery with immunization	TestFacility1	12312	SanityTestDistrict		3000	0	<input type="checkbox"/>
2014-07-07	Test1 July	registration	DOBI_PHC	11111	GWAGWALADA Area Council	08065523232	1000	1	<input type="checkbox"/>
2014-07-07	Test2 okid	registration	DOBI_PHC	22222	GWAGWALADA Area Council	08911111111	1000	1	<input type="checkbox"/>
2014-07-07	Dgu	delivery with immunization	DOBI_PHC	65555	GWAGWALADA Area Council	56696656559	3300	2	<input type="checkbox"/>
2014-08-25	Test Immu	delivery with immunization	TestFacility1	12312	SanityTestDistrict	12312312312	3000	0	<input type="checkbox"/>
2014-10-08	test2	immunization	TestFacility1	---	SanityTestDistrict	12312312312	5000	---	<input type="checkbox"/>
2014-10-10	booked still1	registration	TestState1	12312	---	12312312312	1000	1	<input type="checkbox"/>
2014-10-10	booked still2	registration	TestState1	12312	---	12312312312	1000	1	<input type="checkbox"/>
2014-10-10	booked still3	registration	TestState1	12312	---	12312312312	1000	1	<input type="checkbox"/>

m4Change calendar widget screen:

Report Filters

Location: All

Date Range: 2011-01-01 to 2013-12-31 This report's timezone is Africa/Lagos.

Case Search:

Service type:

Year to Date
 Last Month
 Last Quarter
 Last Two Quarters
 Last Three Quarters
 Last Year
 Last Two Years
 Last Three Years
 Last Four Years
 Custom Range

FROM: 2013-09-04 TO: 2014-10-29

Apply Cancel

m4Change calendar widget screen

Review Cancel Reject Reason: None

Date of service	Beneficiary Name	Service Type	Health Facility	Card No.	LGA	Phone No.	Amount	Visits	Status/Action
2014-07-03	agr1	delivery with immunization	AggregateTestFacility	12312	SanityTestDistrict	12312312312	3000	1	<input checked="" type="checkbox"/>
2014-07-03	agr3	delivery with immunization	TestFacility1	12312	SanityTestDistrict		3000	0	<input type="checkbox"/>
2014-07-07	Test1 July	registration	DOBI_PHC	11111	GWAGWALADA Area Council	08065523232	1000	1	<input type="checkbox"/>



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