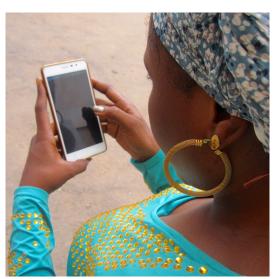
Innovations with IVR and SMS: Case Studies from West Africa, Haiti and Mozambique







Melissa Persaud Director of Partnerships Viamo

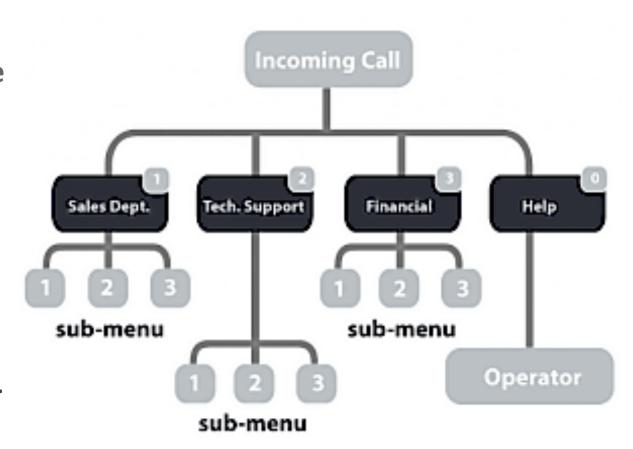
Caitlin Loehr Program Officer JHU Center for Communication Programs





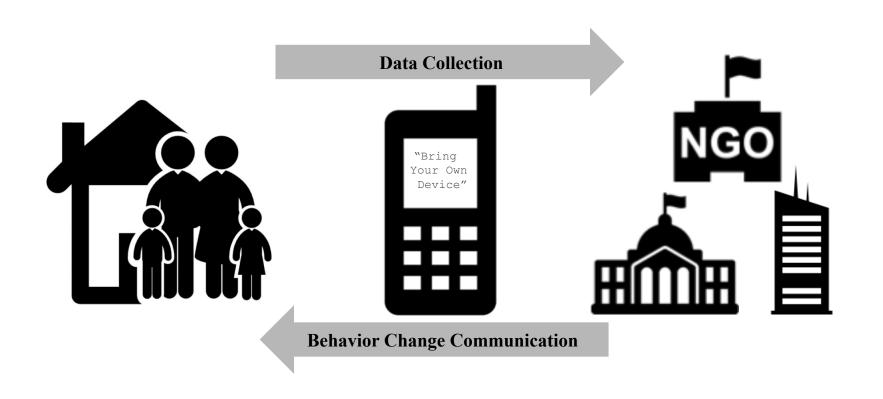
What is IVR?

Interactive Voice Response (IVR) is a technology that allows a computer to interact with humans through the use of voice and DTMF tones input via keypad.



How can you use IVR?

Enable effective connections for better decision making



PUSH vs PULL Calls



Call originates from End User

Subscribers are empowered to seek information by calling paid or toll-free hotlines to access content, take surveys, report incidents etc.



Call originates from Platform

Subscribers receive content directly to their phones in the form of a phone call. Push content can be used for Random Digit Dialing surveys, marketing or advocacy campaigns, reminders, educative messages, longitudinal data collection etc.



Smart Client and Smart Couple

IVR FOR ENTERTAINMENT-EDUCATION





Background

- Women often lack the skills and confidence to communicate their needs, concerns and desires when visiting a family planning provider
 - → Smart Client aims to help women become *informed*, *empowered* and *confident* users of FP services and methods
- Men may think that they should not be involved throughout the process of adopting and continuing to use family planning
 - → Smart Couple aims to encourage women and men to be *informed*, supportive and equally involved in making decisions and taking actions related to the use of FP services and methods.





Background

- Smart Client/Smart Couple developed by the Family Planning team of the Health Communication Capacity Collaborative (HC3) project
- Content was pretested and tools prototype tested in Nigeria and Cote d'Ivoire
- Separate user studies were conducted in Kaduna, Nigeria to test the effects of the tools





Design

17 calls

- 1 introduction call
- 13 "episode" calls
- 3 quiz calls (interspersed)

Episode calls: multiple segments per call - some automatic, others optional

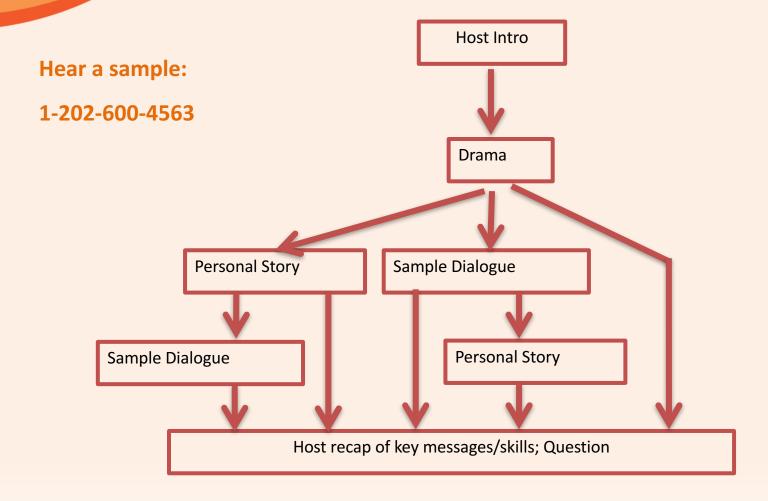
- Introduction, drama, testimonial, sample dialogue, friend-to-friend chat, quiz question
- Smart Couple included additional segments for men

Quiz calls: 3-5 questions to test knowledge of key messages/themes Supporting SMS after each episode call to reinforce key messages





Episode call structure

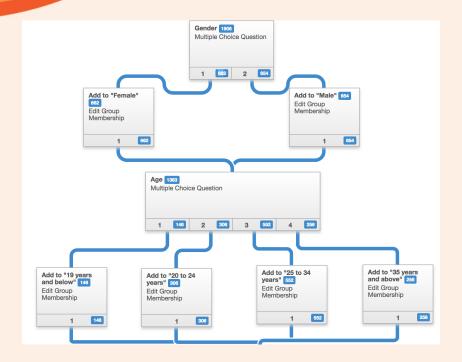






Platform







Easily built without technical knowledge

Built-in analytics and easily downloadable data

Were able to have multiple languages, multiple accounts (for each country) and multiple programs (for each tool) running at same time







Results of User Studies

Smart Client: all 7 of the ideational and behavioral indicators assessed increased significantly in the intervention group while declining or remaining unchanged in the control group.

Smart Couple: 8 out of the 9 ideational and behavioral indicators assessed increased significantly between pre- and post-intervention surveys. Overall, exposure to the tool was associated with a significant increase in the score for ideation.

Both studies: participants had very positive opinions about the content and the user experience





Lessons learned Developing content and tools

Need to provide clear instructions for recording content

Identify "clips" in scripts

Double, triple check structure with scripts

Don't be afraid to ask for features/options that are not built into out-of-box platform, but be aware of potential bugs

Test, test, test

- All features/aspects
- With users who have all different mobile operators





Lessons learned Use of tools

Length of calls

- Average listening time 4.5-6 minutes
- Some (not many) users did listen for 15+ minutes
- Most users did not make it past the drama segment were not reaching the optional segments

Non-initiation and attrition throughout series of calls

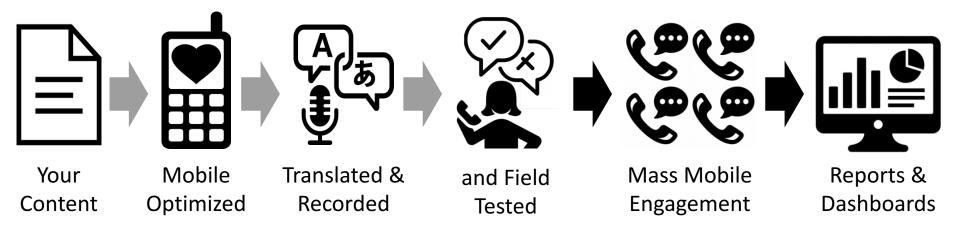
Adding surveys at the end of calls and non-completion

Language of SMS



How does it work?

High quality step-by-step process



Data Collection:

Field Data Collection (activity reports, stock inventory, etc.)	MSI (Zambia)	No more paper
Surveillance Systems (diseases, corruption, poaching, GBV, etc.)	CDC (Niger)	 No loss of data Increased data accuracy Increased frequency Whole-of-population reach Real-time analysis
National Statistics (market study, project & policy design, etc.)	Facebook (10 countries)	
Monitoring and Evaluation (baseline & endline, longitudinal study, etc.)	World Bank (6 countries)	

Behavior Change:

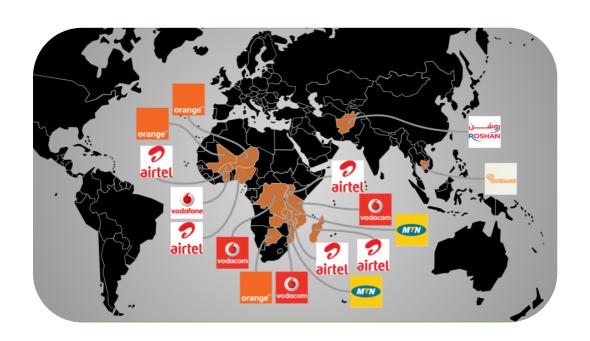
Staff Training (basic training, on-going training, knowledge retention)	NDI (Zambia)	Push & Pull modes
Population Awareness Campaigns (health, agriculture, human rights, gender norms, etc.)	3-2-1 Service example	Individualised experienceInteractive content
Subscription Services (farmer calendars, maternal health information, etc.)	UNOPS (Ghana)	Share information & moneyReal-time analysis
Adherence (reminders, vouchers, incentives, etc.)	TextDirect (Sierra Leone)	Version testing

The 3-2-1 Service

Strategic partnership with a mobile network operator to offer information:

- On-demand
- National reach
- Multi-topic
- Free to listeners

"On-Demand Information" where there is no internet

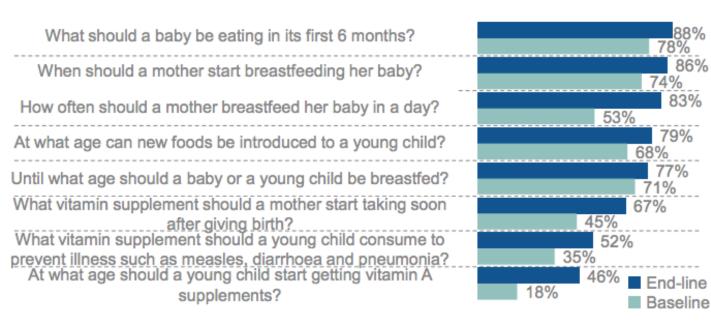


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Nutritional Knowledge: End-line vs baseline

Could you please answer the following questions for me?

N=End-line: 381, Baseline: 422- trial & repeat users only - % of right answer

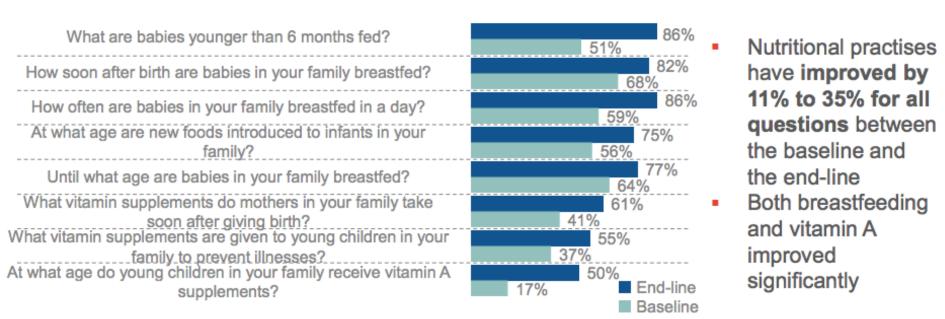


- Knowledge improved by 6% to 28% for all questions in the end-line vs the baseline
- Knowledge on vitamin A improved the most

Nutritional Practices: End-line vs baseline

Can you tell me about nutritional practices in your house?

N=End-line: 381, Baseline: 422 - trial & repeat users only - % apply the right practices



Nutritional Practices: Knowledge vs Practice

Could you please answer the following questions for me? (End-line)

N=381 - trial & repeat users only - % of right answer/application of the right practices

