

SILVYA

Community based
Early Warning and Surveillance
System using mobile phones.



Save the Children®

Volunteers needed:

Please send your email and
cellular phone number to

selvyn.fuentes@savethechildren.org

Why SILVYA in Guatemala?

A community health worker identifies a newborn with complications (*could be a newborn, a case of malnutrition, acute resp. infection, etc*) in a remote village.

What if the CHW can not persuade the family to evacuate the child to a Treatment/ Recovery Center?

Then....

- Health providers will not know about this case.
- Child will not receive proper treatment
- Nobody at the MOH main offices will know
- Data can not be used for planning and /or management.

Sistema **L**ocal de **V**igilancia **y** **A**lerta

Local Surveillance and Alert system

selvyn.fuentes@savethechildren.org



SILVYA

- ❑ Community health workers can alert **24/7** on emergencies at the community level .
- ❑ Enables triggering a **response**.
- ❑ Supervision: **Communicates emergency at all levels** (MOH providers, supervisors, etc).
- ❑ Emergencies are recorded so **data** can be used for **analysis and decision making**.



SILVYA: how it works.

Health worker
identifies a case of
acute malnutrition,
ARI, diarrhea,
labor complication,
etc



SILVYA: how it works.

Health worker
identifies a case of
acute malnutrition,
ARI, diarrhea,
labor complication,
etc



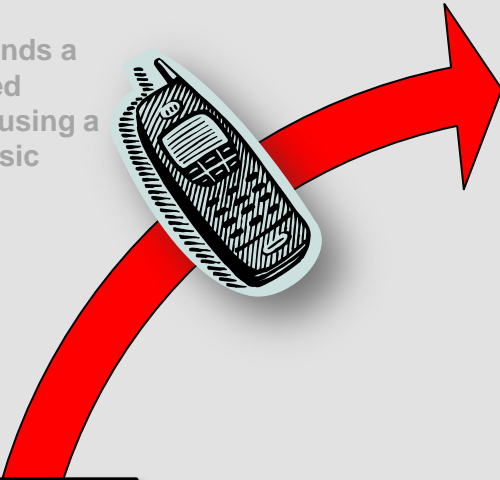
She/he sends a
TXT coded
message using a
cheap, basic
cellphone



Health worker
identifies a case of
acute malnutrition,
ARI, diarrhea,
labor complication,
etc



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cheap, basic
cellphone



Modem + Servidor

SC software has a caller ID that identifies phone number, who is calling and location where the call is originated.

Software then “decodes” TXT and knows type of emergency.

Database links phone number + location to Long and Latitude to create a Web based map used for reports and analysis

Health worker
identifies a case of
acute malnutrition,
ARI, diarrhea,
labor complication,
etc





2

4028-5468

3

Caller ID identifies who is calling and from where (location)



1



	Name of CHW	Municipality	Community	CH Worker
5000 4606	BERTA VAZQUEZ	30	2001	1
3789 2378	ROSALINA ZACARIAS	30	2012	2
4478 2390	LEONELA FELIPE NAVAS	2	2002	4
4389 2222	MARIA DE LA CRUZ FELIPE	2	2002	5
4919 2345	ANIBAL PEREZ PEREZ	7	2006	30
4287 5672	FRANCISCA ASMUN	59	2026	31

Examples of Codes for SILVYA

2



4028-5468

4

TXT Message:

002

1



- 001 **Moderate Malnutrition**
- 002 Acute Malnutrition w
- 003 Acute malnutrition v
- 004 Obstetric Emergenc
- 005 Labor Complications
- 006 Newborn Complicati
- 007 Acute Respiratory In
- 008 Severe Diarrhea



ns

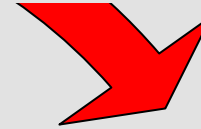
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Once the application IDs location and
TXT message, SILVYA searches in
database and identifies which Health
Center and who from the MOH is
responsible for that community.



SILVYA matches the Next, SILVYA looks for the cell phone and is originated with the email of the provider responsible geographic area

Admin. Usuarios Maestros Region Geografica Web					
Responsables					
Search	Nombre	Zona Geografica	Telefono	Celular	Correo
Clear	Sorted By: Nombre ascending, Código ascending				
	<input type="radio"/> Alan Alvarez	30		50181818	alan.alvarez@banrural.com.gt
	<input type="radio"/> Attaullah	50		00923215573706	attaullah.ishaq@savethechildren.org
	<input type="radio"/> Carlos Cardenas		22224444	50004606	carlos.cardenas@savethechildren.org
	<input type="radio"/> Gabriela Muralles	12		49705278	dmuralles@savechildren.org
	<input type="radio"/> Gilda Walter	50		55310628	gwalter@fews.net
	<input type="radio"/> Kenneth Vasquez			40439986	kenneth.vasquez@savethechildren.org
	<input type="radio"/> Luis Marroquin	40		57678367	lmarroquin@savechildren.org
	<input type="radio"/> Macarena de Molina	50		52000772	macacorlazzoli@gmail.com
	<input type="radio"/> Manuel Torres	30			
	<input type="radio"/> Mario Rodriguez	20		53679686	mrodriguez@fews.net
	<input checked="" type="radio"/> Muhammad	15		00923008567021	muhammad.asghar@savethechildren.org
	<input type="radio"/> Qudsia	50		00923028556802	Qudsia.uzma@savethechildren.org
	<input type="radio"/> Selvyn Fuentes			50052280	selvyn.fuentes@savethechildren.org

1

0 record changed Page: 1 of 1 Records: 13

Esta página fue diseñada y desarrollada por Save the Children, con el soporte de Corporación Avanzada, S.A.
 (502) 22224444 | 1a. Calle 21-19 zona 15 Vista Hermosa II, Ciudad de Guatemala, 01015, Guatemala, C.A.
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She/he sends a TXT coded message using a cheap, basic cellphone

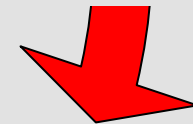


Modem + Servidor

SC software "decodes" TXT and identifies location, type of emergency, who is reporting. Software also identifies GPS location to create Web based maps used for reports and analysis

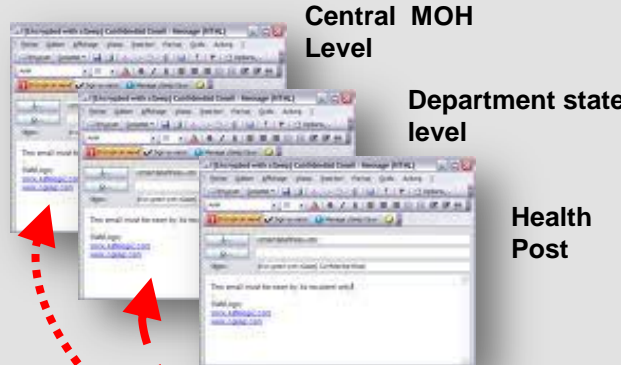


Once the application IDs location where TXT message comes from, Software searches in database and identifies which Health Center and who from the MOH is responsible for that location.



Health Post

System sends emails and TXT messages to cell phones of those individuals identified, informing the type of emergency, location and who is reporting. That same message is sent to the provider's supervisor, and province level, and even central level if needed.



Central MOH Level

Department state level

Health worker identifies a case of acute malnutrition, ARI, diarrhea, labor complication, etc



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Central MOH Level

Department state level

Health Post

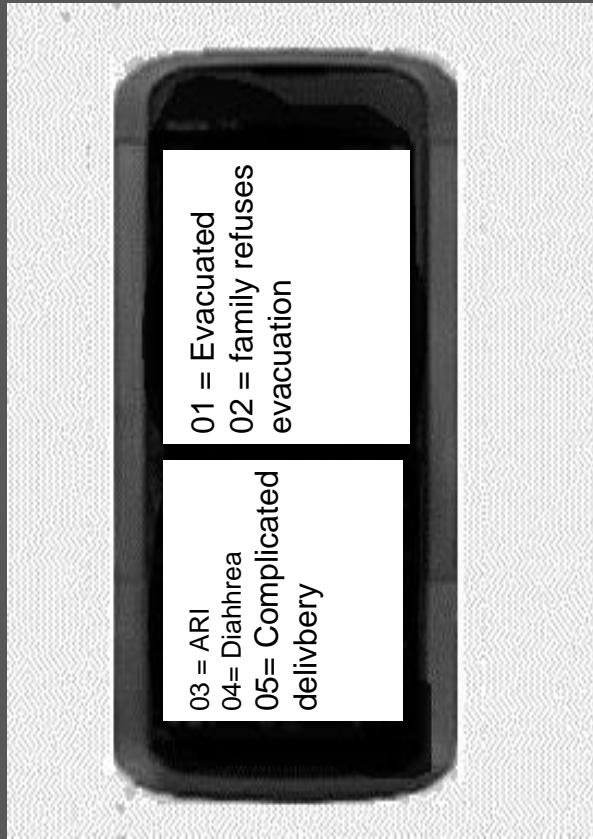
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TXT message sent to CHW confirming her/his message has been received.



PROSANO

SILVYA



Community health worker dials a
phone number: 5034-3467

Types numeric TXT: **03 05**

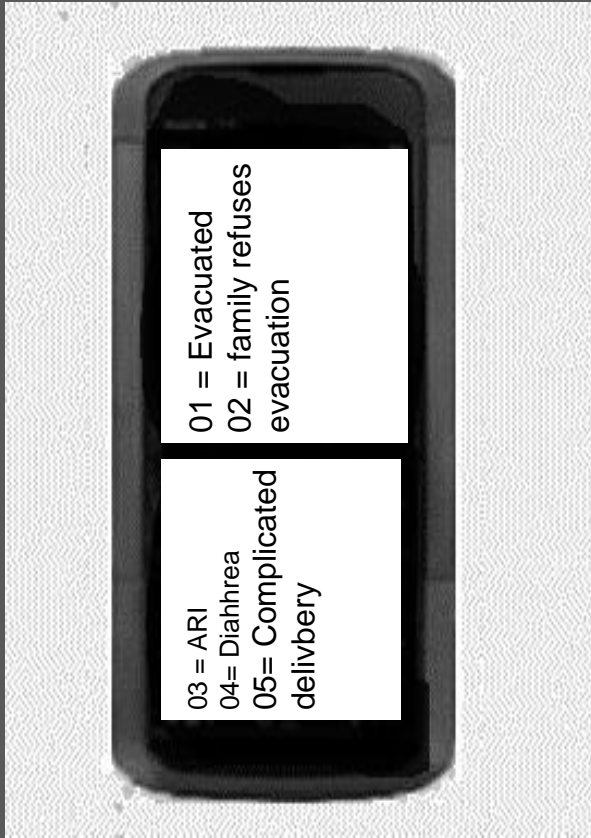
03 = Acute respiratory infection

05 = Family will not evacuate



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SILVYA



Dials phone number: 5034-3467

Types numeric TXT: **03 05 09**

03 = Labor & Delivery Emergency

05 = Obstructed labor

**09=Patient is on her way to Health
Center**



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PROSANO

SILVYA



Dials phone number: 5034-3467

Types numeric TXT: **04 08**

04 = Case of Acute Malnutrition

08 = Child is on it's way to Recovery Center.



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SILVYA can be “tailored “

SILVYA

Dials phone number: 5034-3467

Types numeric TXT: **04 1.64**

04 = Price per pound of onions
Price per pound is \$1.64



**To report
ag. produce
prices at
farmers
level**



Save the Children®

SILVYA can be “tailored “

SILVYA



**To report
disaster
information**

Dials phone number: 5034-3467

Types numeric TXT: **04 08**

04 = Earthquake

08 = Number of people injured



Save the Children®

SAMI REPORTS

SYLVIA
software



Software also
generate a Web
based Reporting
/Mapping System



Save the Children®

SAMI REPORTS

SILVYA
Sistema Local de Vigilancia Y Alerta

Who We Are | What We Do | Where We Work | Photo Gallery | Contact/Help | About Save the children

Delivery of domestic fowl, Clementino Perez Najera, comunidad El Durazno, Chiquimula

Local System Monitoring and Alert SILVYA (acronym in Spanish Sistema Local de Vigilancia Y Alerta)

WHO WE ARE
About SILVYA

HOW DOES SILVYA WORK?
Health And Nutrition
Food Distribution
Livelihoods

WHERE WE WORK

PHOTO GALLERY
Images
Videos

CONTACT/HELP
About This Site

ABOUT SAVE THE CHILDREN

This page was designed and developed by Save the Children. with support of **Corporación Avanzada, S.A.**
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Click on "Map"

SAMI REPORTS

SILVYA
Sistema Local de Vigilancia Y Alerta

Who We Are | What We Do | Where We Work | Photo Gallery | Contact/Help | About Save the children

Reports

- Map
- Main indicators
- Emergencies reported
- Narrative reports

Recent News | Next Events | Links

Map Georeferred: Emergency
Year: All, Department: All, Municipality: All

Map | Satellite | Hybrid

Summary
Communities: 105
Received emergency: 1460

Year: All
Department: All
Municipality: All
Type of Emergency: All
Refresh

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ABOUT SAVE THE CHILDREN

Click on any SC icon to see details of emergency

Click link to open Web reporting

<http://201.216.167.10/silvya>



Save the Children®

SC USA in Guatemala has designed and developed a suite of applications all of which can be used for Food Security as well as Education, Health, Local Governance, Emergency Response, Social Auditing, etc and include:

SAMI

project
monitoring
software

Monitor project activities using **fingerprint** scanning, **GPS** and **photographs** to ID beneficiaries.

SAMI

web
application

Web based **reporting/mapping** system for on line reports

SILVYA

software + web
application

Early warning and response system with a web based reporting & mapping

LOLA

Web application

Coordination tool used by several organizations that reports: **“who is doing what and where”**

