

# VillageReach®

*Going the last mile...*

## SolDevelo's Case Study and Project Information

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### About Project

VillageReach's mission is to improve access to quality healthcare for the most unserved communities in the developing world. They partner with governments, for-profit businesses, and other nonprofit organizations to improve both the reliability and performance of healthcare systems, particularly in relatively inaccessible and isolated communities.



## \$3.4 trillion

has been spent to help developing nations



## 5% to 70%

vaccinations rates increase in low-income nations by immunization programs

In the past 40 years, more than \$3.4 trillion has been spent to address the critical diseases and poverty of developing nations. In the early 1970s, immunization programs increased vaccination rates in low-income nations from as low as 5% to as high as 70%. But these averages disguise major disparities. Countries with limited infrastructure saw vaccine coverage peak and then decline as these programs concluded.



## 2.4 million

children are killed annually by diseases

Sub-Saharan Africa accounts for a disproportionate share of the worldwide deaths for vaccine-preventable diseases. These diseases continue to kill 2.4 million children annually and leave millions more permanently impaired. For remote communities in Africa and worldwide, the limited supporting infrastructure results in a lack of confidence and use of government healthcare.

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## Our Involvement

VillageReach recently worked with Global Good, supporting their international testing of a new passive vaccine storage device that will improve the distribution and storage of life-saving vaccines for remote communities. VillageReach partnered with SolDevelo to develop a secure web application that is used to manage the field testing of these vaccine storage devices.

We created and deployed the web application which enables tracking the location and current status of storage devices operating in several countries. The system utilizes SMS messages from each device, forwarded through central gateway to the webserver. Detailed data logs from devices can also be uploaded to the server.

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### Main features

- User authentication
- Statistics on all devices
- Color-coded indicators of alarm
- Pop-up data snapshots
- Near-alarm conditions
- Geolocation-driven maps with preview of each device location
- Color-coded status indicators

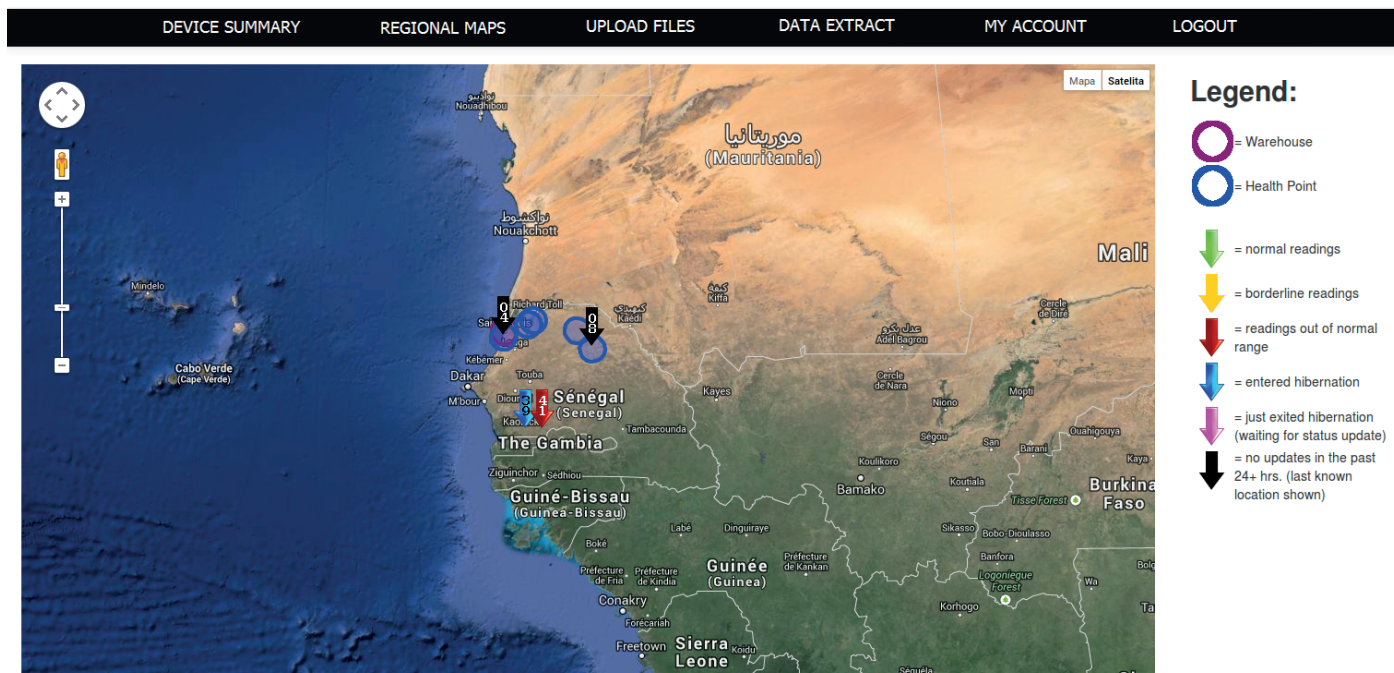
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### Technologies used



# Application Screens

<div> <div>DEVICE SUMMARY</div> <div>REGIONAL MAPS</div> <div>UPLOAD FILES</div> <div>DATA EXTRACT</div> <div>MY ACCOUNT</div> <div>LOGOUT</div> </div>											
<div> <div>(1 of 3)</div> <div> <div>1</div> <div>2</div> <div>3</div> </div> <div>10</div> </div>											
Serial #	Status	Days since ice Load	Location Health Point Field Warehouse	Δ Distance km since prior SMS update*	Avg Int. Temp °C	Int. Temp °C Top: min / max Bot : min / max	Ext. Temp °C min / max	Σ Openings in the last 24 hours	Σ Time Open (minutes) in the last 24 hours	Battery Level	Latest SMS Update
002		0	WH - PRA	---	0.0	0 0	0	0	0	50%	03-Sep
003		20	FLD	9.5	2.5	0.0 / 4.2 -1.4 / 3.0	17.6 / 24.7	9	17.3	89%	03-Sep
005		42	FLD	6.8	2.5	0.0 / 4.2 -1.4 / 3.0	17.6 / 24.7	9	17.3	8%	03-Sep
006		50 ?	HP - Nam	---	7.7	7.9 / 7.9 7.4 / 7.4	36.0 / 36.0	2	187.5	73%	17-Aug
009		98	FLD	---	0.5	0.7 / 0.7 0.3 / 0.3	25.6 / 25.6	1	14	92%	03-Sep
013		5	FLD	0.0	20.1	19.5 / 20.5 19.4 / 20.4	18.8 / 26.0	0	0	94%	03-Sep
015		28	FLD	0.0	0.2	0.3 / 0.3 0.1 / 0.1	15.0 / 15.1	0	0	61%	03-Sep
017		4	FLD	0.0	16.9	21.8 / 22.4 21.9 / 22.5	23.0 / 24.5	0	0	78%	03-Sep
018		0	FLD	---	0.0	0 0	0	0	0	96%	02-Sep
019		29	FLD	---	4.7	21.5 / 22.6 21.6 / 22.6	16.8 / 24.0	0	0	88%	03-Sep
<div> <div>(1 of 3)</div> <div> <div>1</div> <div>2</div> <div>3</div> </div> <div>10</div> </div>											



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