



# Vaccination Management Solution

Vaccination Management Solution (VMS) is a mobile enabled solution that support providers of primary health services to increase coverage of their immunization programme.

# How The Vaccination Management Solution Works

The World Health Organisation (WHO) initiated the Expanded Program on Immunization (EPI) in May 1974 with the objective to vaccinate children throughout the world. This program has assisted in delivering vaccines to many children, especially in the developing countries of Africa. However, 20% of children remain at risk, that is 1 out of 5 lives too many.

mVacciNation was developed to extend immunization to “the fifth child” as a partnership between Vodafone, GSK, USAID, GAVI, UNICEF and the Ministry of Health of Mozambique.

mVacciNation allows nurses administering vaccinations at clinics to capture an individual record for each child, as well as the overall stock levels of a particular vaccine, in a smartphone application. This data synchronizes with the cloud in real time in order to improve supply chain planning and demand management by sending mothers SMS reminders of scheduled vaccinations.

# Vaccination Management Solution– An Overview

## Problem

Optimizing the distribution and dispensing of vaccines have been identified as one of the most cost-effective ways to reduce the burden of disease in the developing world.

Most vaccination programmes are, however, hampered by persistent stock-outs and poor record-keeping at health facility level. In the last mile, where the challenge is the greatest, traditional information and communication technologies and fixed line internet connectivity are difficult to sustain, forcing managers to rely on inaccurate paper trails.

## Solution

The mVacciNation mobile application to administrate vaccine delivery in the field:

- Capture vaccination records per individual child through a smartphone application at facility level.
- Report on stock levels in the fridges to improve supply chain optimization.
- Stimulate demand for vaccinations by educating mothers and sending direct reminders according to an official schedule via SMS.
- Record fridge temperatures with exception reports to ensure the safe storage of vaccines.

## Benefits

mVacciNation empowers all stakeholders within the immunization network with digital communications:

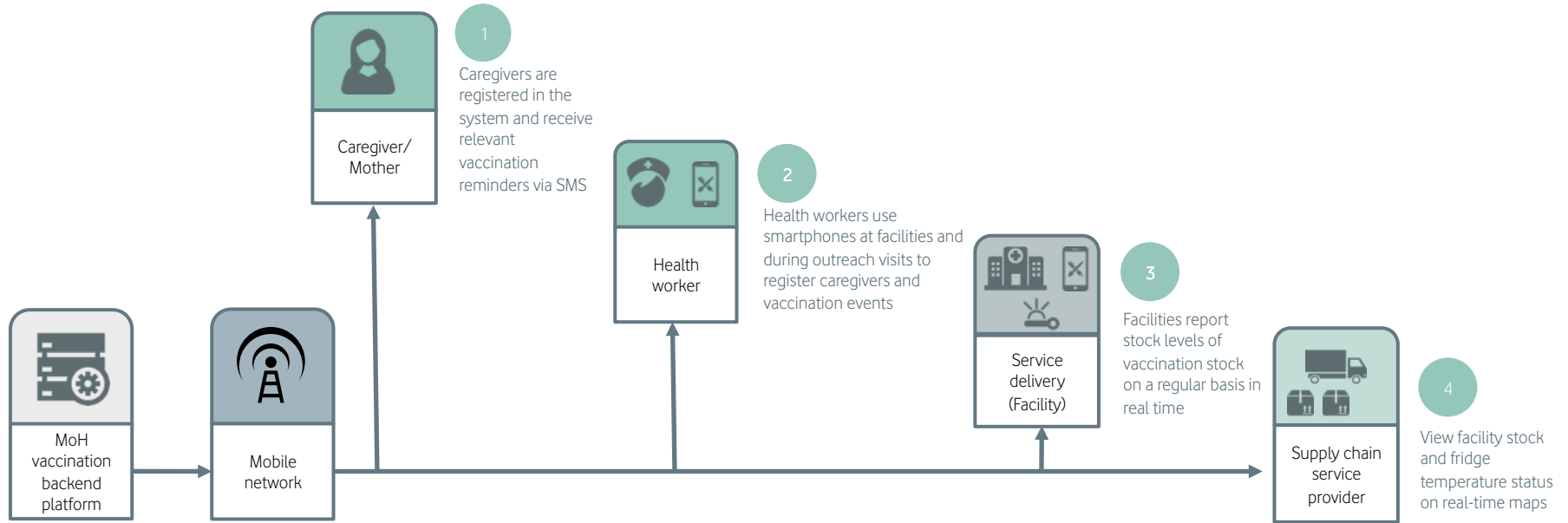
- Mothers receive reminder messages.
- Nurses receive stock through “informed push” rather than “emergency pull” planning.
- Fridge breakdowns can be addressed as soon as they occur.
- Vaccination coverage is calculated instead of estimated.

# Key Features

## **mVacciNation includes the following offering:**

- Create an individual health record for every child through a smartphone application.
- Capture contact details as well as age, vaccine visit type and actual vaccine stock received.
- Capture stock levels per vaccine stock on a daily basis to support “informed push” supply chain interventions where stock at clinics is automatically topped up instead of the clinic ordering the stock.
- Send reminders to mothers to alert them of upcoming vaccinations.
- Receive automated SMS and e-mail reports on facility reporting status, stock levels and aggregated vaccination totals.
- Identify individuals who were not fully immunised through cross-referencing vaccination visit schedules with actual vaccinations dispensed.
- Track planned and actual mobile brigade or vaccination outreach visits per facility and area.
- Capture fridge temperatures daily and receive automated alerts as well as recorded explanations for out-of-range temperatures.

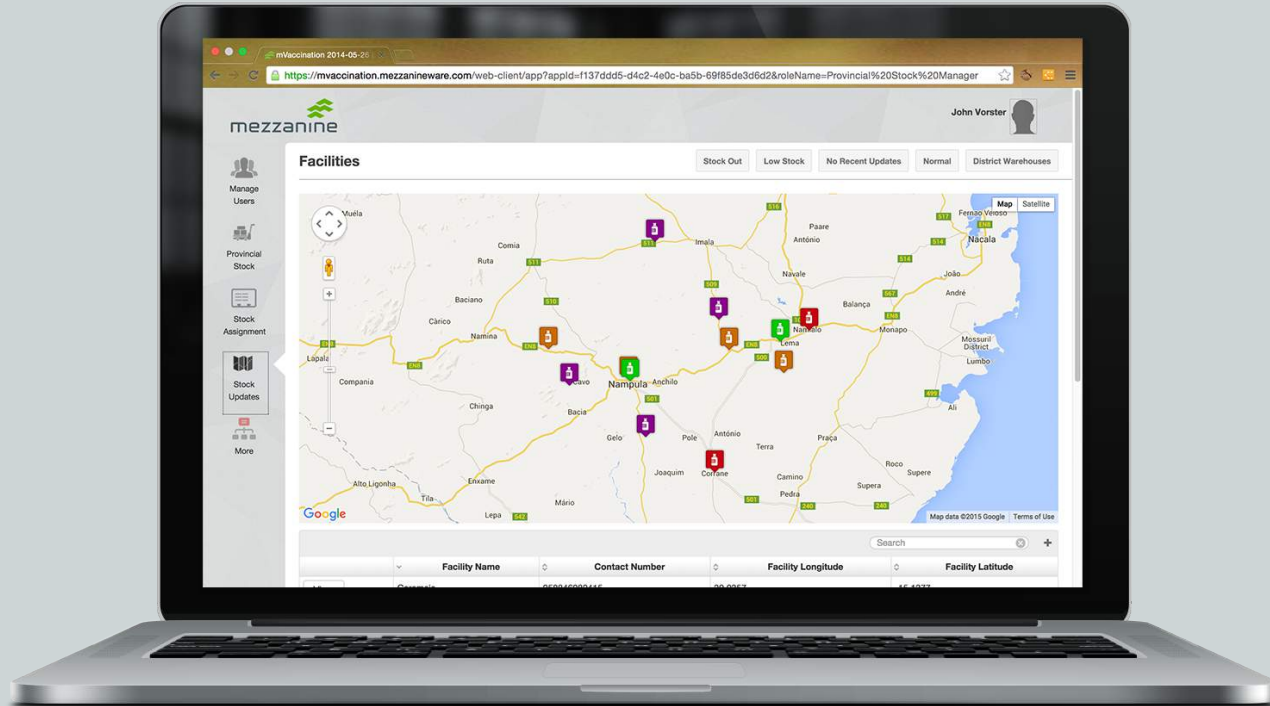
# VMS Ecosystem



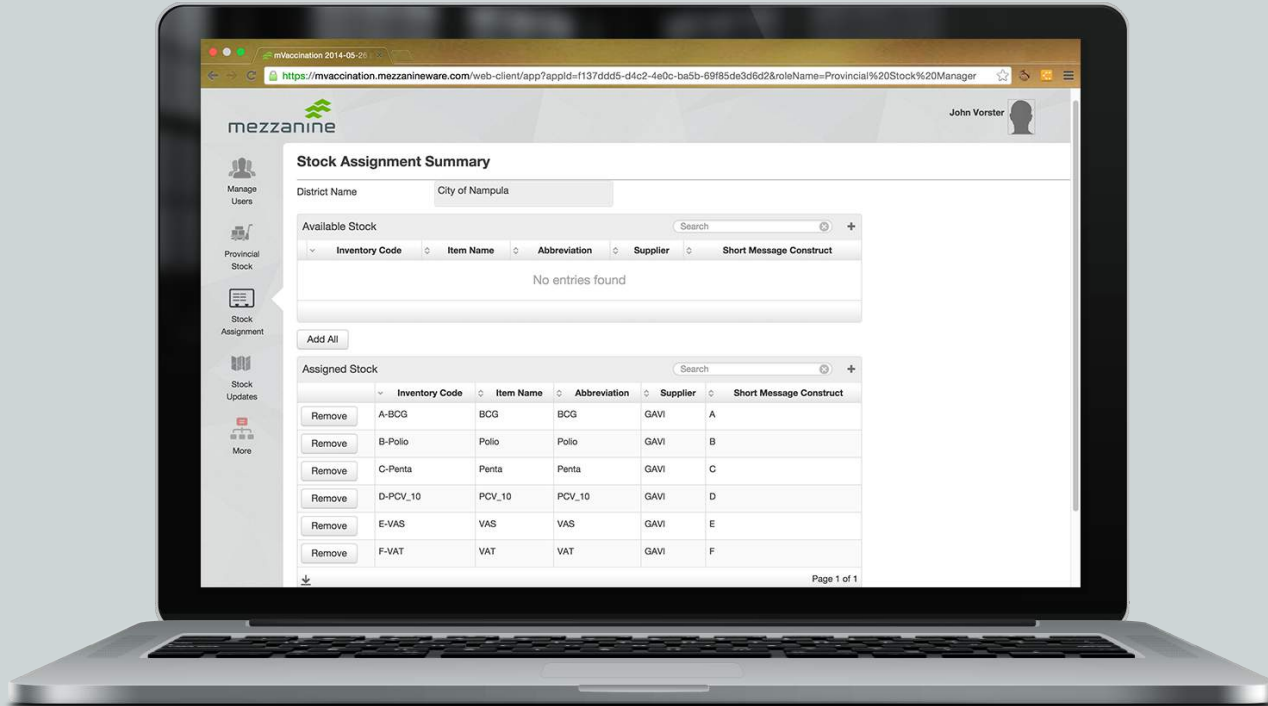
# VMS Mobile Application View



# VMS Web Application View



# VMS Web Application View





“We need to know the stock level in every facility. We need to know the drop off rates. And we need this information every day.” Provincial Ministry of Health, Mozambique.

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