The mSupply Foundation

VACCINES and mSupply

2021

We wish to acknowledge the generous support of the Australian Government Department of Foreign Affairs and Trade and the New Zealand Ministry of Foreign Affairs and Trade

Australian Government
Department of Foreign Affairs and Trade

NEW ZEALAND
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Manatū Aorere

The mSupply Foundation

mSupply features to support vaccine programmes

mSupply Desktop

An end-to-end Logistics Management Information System designed for Health Supply Chain

mSupply Mobile

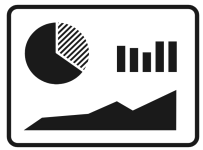
A user-friendly mobile application. Perfect to run a small health facility

Open Source

mSupply ColdChain App

Use Bluetooth Sensors to capture cold storage temperatures.

Open Source



mSupply Dashboard

Fully customizable dashboards

Open Source

mSupply Synchronisation

Offline-first architecture means occasional internet is enough.

mSupply Desktop

mSupply offers **vertical integration**: from stock management at large central warehouses through to patient dispensing in remote, small health centres: all of which can be applied to managing vaccine supply chains.

Quantification

Run a formal **tender for your vaccines and consumables** with increased speed, transparency and visibility.

Generate **suggested order quantities** based on a range of factors such as consumption rates

Replenishment

You can use mSupply to enter periodic requisitions or use it as an inventory control system to record every stock movement.

Warehouse Management

Warehouse functionality such as stocktakes and location management is fully supported.

Suitable for large central warehouses, but also for small health centers.

Patient Dispensing

Dispensing module is designed to provide full patient history, medicine labels and allow super-fast data entry.

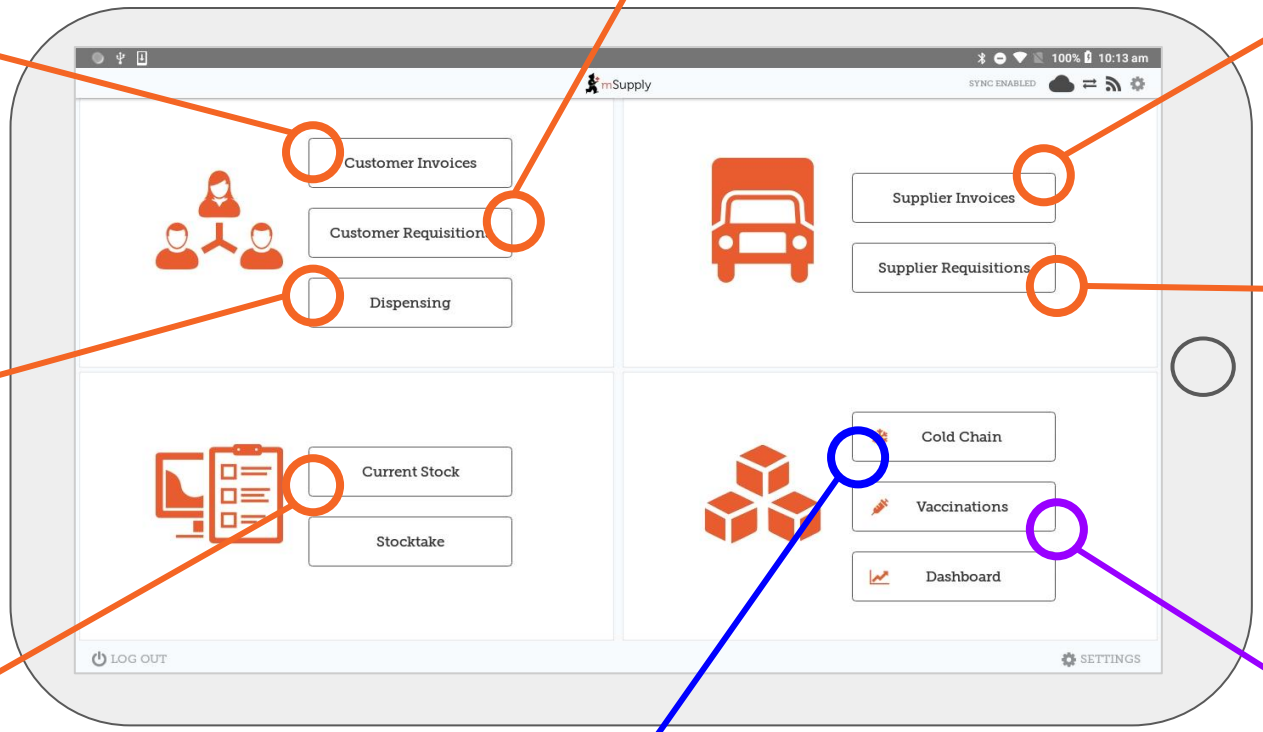
A vaccination module allows you to dispense vaccine doses and to collect patient data.

Full Reporting Suite

mSupply comes with dozens of pre-configured reports and a configurable dashboard. Whether you are looking for information on stock, transactions, customers or KPIs, mSupply has got you covered.

mSupply Mobile

mSupply Mobile is a user-friendly mobile application. It includes the basic functionality of **mSupply Desktop**.



mSupply Mobile is able to track stock between facilities as well as handle standard warehousing functionality. **mSupply Mobile** also has patient dispensing functionality - including vaccine dispensing.

mSupply Mobile

Stock Management

Track and manage the VVM Status

Capture the number of doses

ITEM NAME AstraZeneca COVID-19 Vaccine

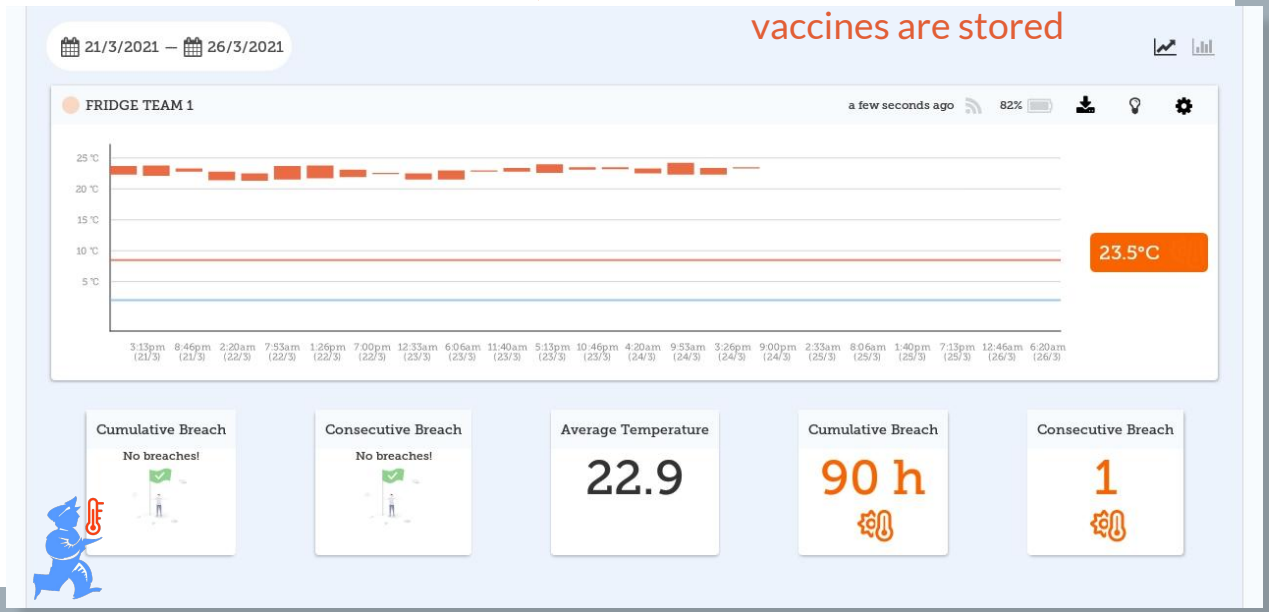
Add Batch

BATCH NAME	LOCATION	VVM STATUS	EXPIRY	SNAPSHOT QUANTITY	ACTUAL QUANTITY	DOSES	BREACH	DIFFERENCE
ABC123	Fridge Te...	VVM Sta...	02/2022	99.50	100	1000	⚠	0.50
GHI789	Fridge Te...	VVM Sta...	09/2022	2000	2000	20000		0
DEF456	Fridge Te...	VVM Sta...	05/2022	600	6000	60000		5400

Assign your batch to the location where it is stored (e.g. a fridge)

An alert icon will be visible if a temperature breach occurred

Click on it to display the temperature records of the location where the vaccines are stored



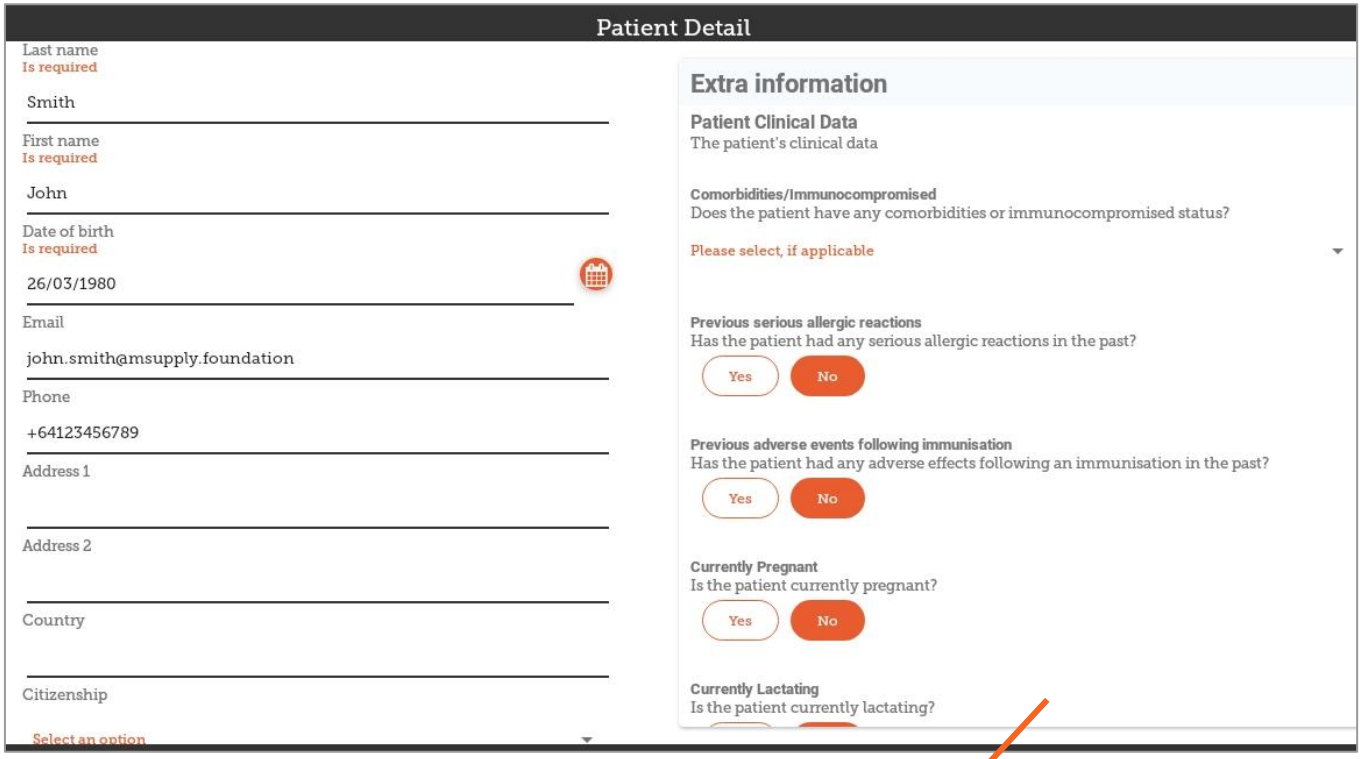
Temperature records can be accessed on the mobile device even when there is no internet (via Bluetooth sensors).

An active connection is only required to share the data with other mSupply devices in your organisation and with the **mSupply Dashboard**.

mSupply Mobile

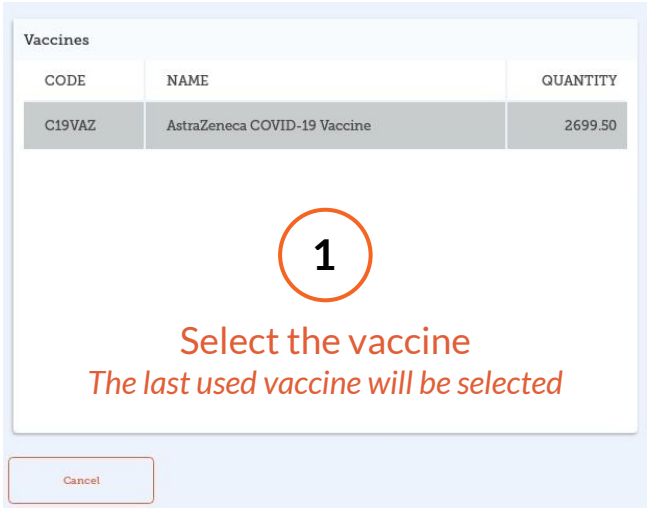
Dispensing Vaccines

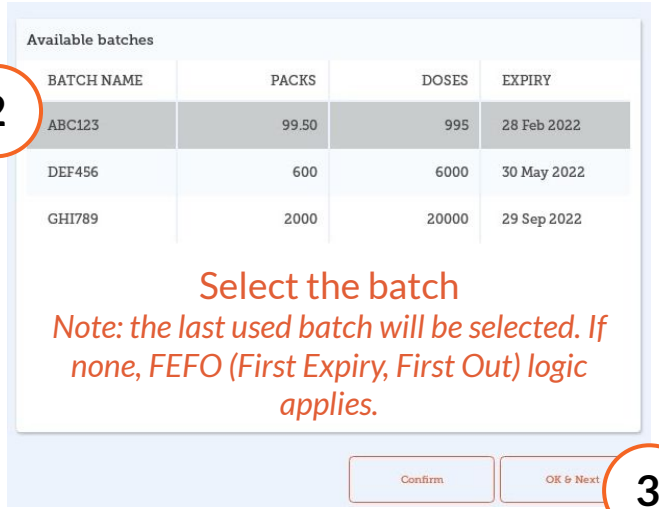
Select the patient and collect data:



A highly-customisable form enables the collection of vaccine-specific data. This allows the capture of information such as guardian details for children or patient clinical data.

Dispense vaccines in three steps:

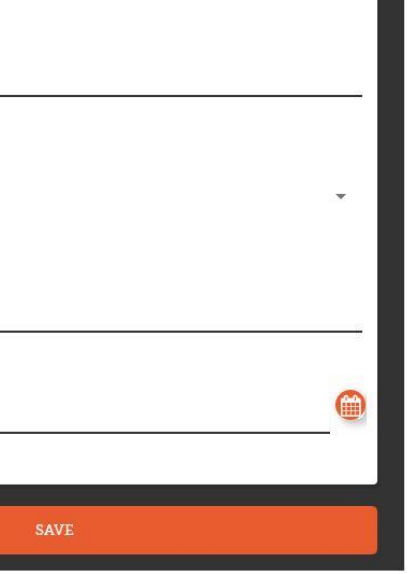




Click on “OK & Next” and you are ready to dispense to another patient

mSupply Mobile

Report Adverse Drug Reaction events



Using mSupply Mobile

Capture all the information you need in the case of an ADR event using a dedicated form in mSupply.

Again, the data captured is easily customizable.

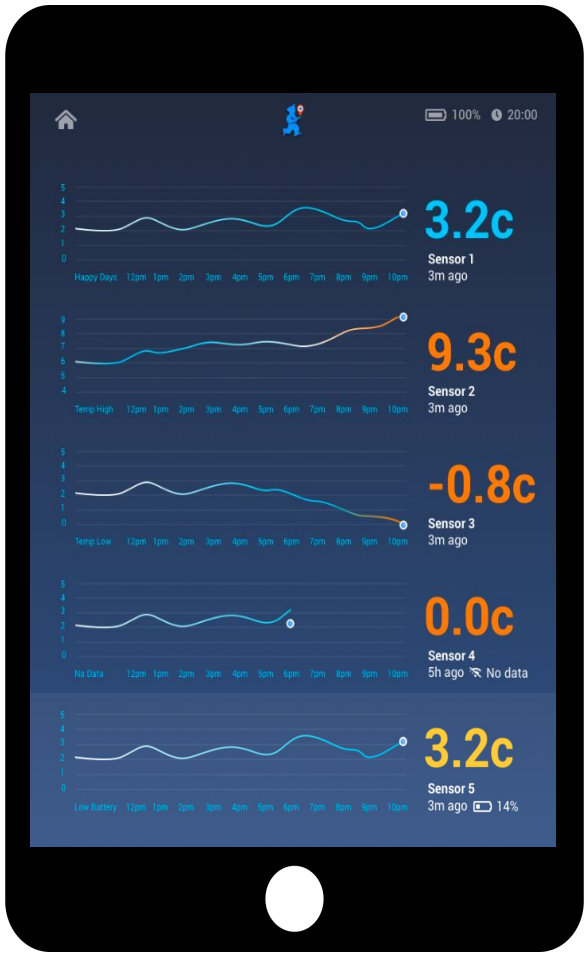
Web Forms

For patient data collection and to report ADR

You can collect patient data and report an ADR without a mobile device using our web form accessible from any browser on desktop devices or a phone.

Web forms are identical to the ones available in **mSupply Mobile**.

mSupply
ColdChain App



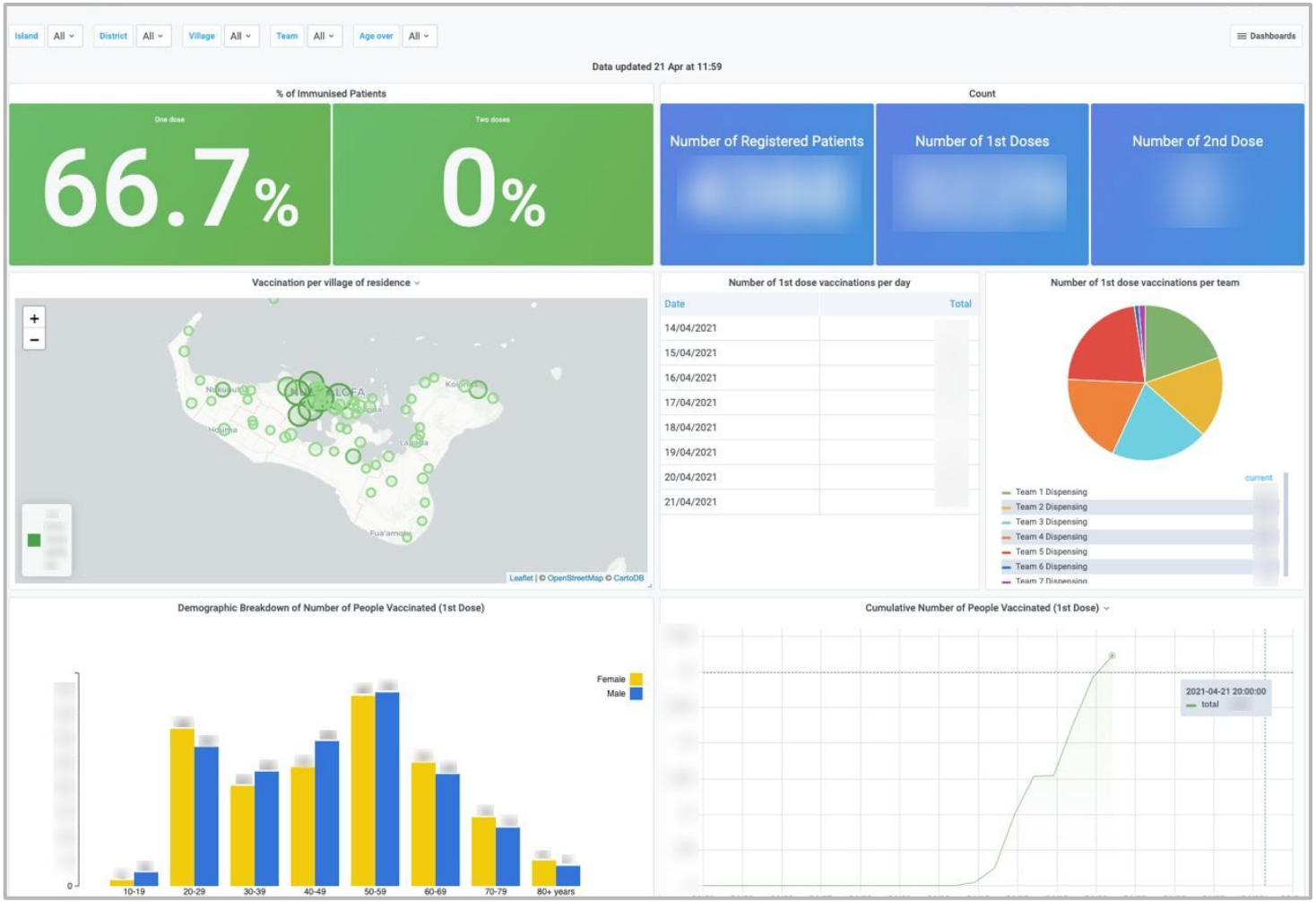
mSupply ColdChain is a separate application that allows facilities to use Bluetooth sensors to capture real-time cool-storage temperatures. These sensors can be used in cool stores, or even portable cold storage boxes and bags, to track storage temperatures.

mSupply ColdChain is particularly useful for a warehouse with multiple cold storage areas. Alerts are displayed on the linked mobile device even if no internet is available.

Temperature data can be shared with mSupply devices across the organisation and the **mSupply Dashboard** to identify stock affected by a temperature breach.

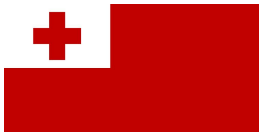
mSupply Dashboard

mSupply Dashboard offers an open-source web interface allowing you to drill down by geographic region or by vaccine type. Unlimited dashboards can be built with multiple pages and widgets showing specific data for defined user groups.

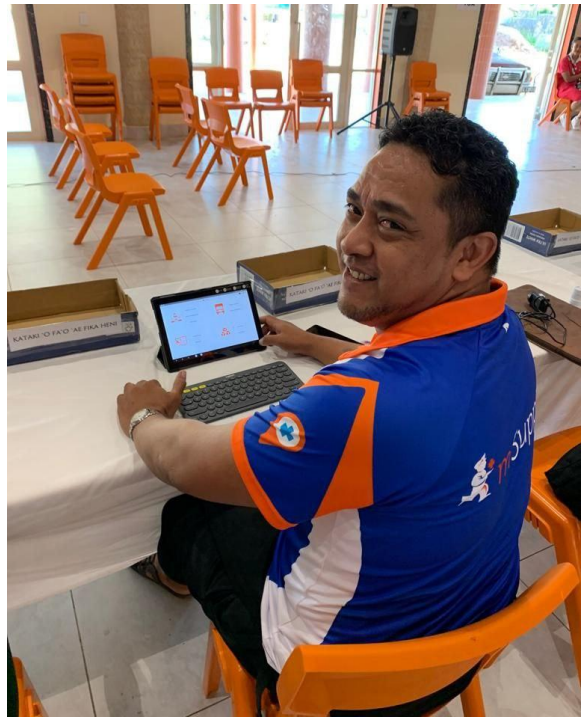


Vaccine data that can be configured includes; number of vaccines dispensed against targets, current vaccine stock levels, adverse events, temperature breaches, batch VVM status, patients due for second dose, refusals, and more. Data is updated as soon as an internet connection is available, providing up-to-date, accurate reports to support decision making.

mSupply Dashboard can be accessed from a phone or tablet as well as desktop devices.



mSupply in Tonga



Together with our friends and partner Beyond Essentials (BES), we are proud to have supported Tonga's Ministry of Health for their COVID-19 vaccine rollout.

Patients were invited to register for a vaccine using the mSupply online form while the MOH field teams were able to use **mSupply Mobile** to manage their inventory and capture doses being dispensed to the patients.

A tailor-made dashboard was designed in collaboration with the MOH to help monitor the progress of the vaccine rollout in real time.

Vaccine ColdChain in Rarotonga

For the upcoming vaccine rollout in the Cook Islands, long-time mSupply users at the Rarotonga Hospital have implemented **mSupply ColdChain** to monitor the temperature of their COVID-19 stock.

mSupply ColdChain allows users to check the temperature of their cold storage facilities in real time using small, reliable Bluetooth sensors. When a temperature breach is detected a text or email can be sent to the user to prompt immediate remedial action.

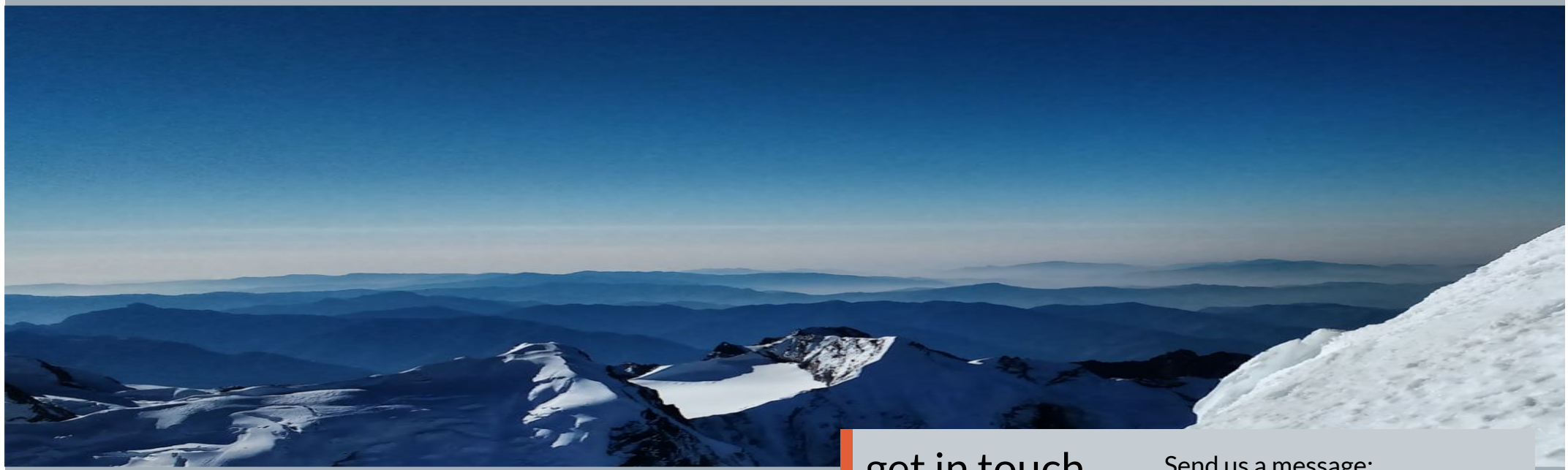
mSupply capabilities

	mSupply Mobile	mSupply Desktop
Sync – allowing operations with intermittent internet connections	✔	✔
User authorisations and management		✔
Notifications /reminders	✔	✔
Choice of UI language (English, French, Portuguese, etc.)	✔	✔
Goods receiving		
Partial or full receipt against purchase orders and ad-hoc orders	✔	✔
Handling of batch and expiry dates	✔	✔
Donor management (irrespective of supplier)		✔
Goods issuing		
Customer requisitions handling	✔	✔
First expiry first out (FEFO) allocation	✔	✔
Request and requisition management		
Requisition forms based on standards used in most countries	✔	✔
Periodic request and requisition management and program-based requisitions	✔	✔
Use of average monthly consumption across all facilities to calculate stock requirements	✔	✔
Integration between requisitions and stock management system	✔	✔
Stock and warehouse management		
Location management		✔
Mobile phone based stock management		✔
Full and partial stocktakes, including reasons for adjustments.	✔	✔
VVM status monitoring and open/closed vial wastage management	✔	**coming soon (v5.2)**
Real-time dashboards with actionable notifications	✔	✔
Cold Chain		
Bluetooth sensors (do not require internet connectivity)	✔	✔
Link stock data to cold-chain temperature data	✔	✔
Alerts for cold-chain temperature breaches	✔	✔
Dispensing		
Per-patient dispensing	✔	✔
Prescriber management	✔	✔
Label and receipt printing		✔
Dispensing pricing	✔	✔
Drug interaction alerts		✔
Patient medication records		✔
Customisable vaccine form	✔	
Adverse event capture and alert	✔	

Please note: The above is not a full list of mSupply Desktop and mSupply Mobile functionality but rather a summary of functionality that may be of interest to vaccine programs. Please contact us if you are interested in other features.

Contact us

We are a friendly team and are excited to partner with others in our quest to do as much good in the world as we can. We recognise the importance of vaccines for public health around the world and we want to see mSupply installed where it will make a real difference. We look forward to hearing from you.



The mSupply Foundation

Thank you

get in touch with us

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