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dhis2 logistics

# Cold Chain Equipment (CCE) Lifecycle Management Tool

*Supporting biomedical equipment lifecycle management, for cold chain, hospital, and other healthcare equipment, from installation until decommissioning.*

## Manage biomedical equipment through its entire lifecycle

The DHIS2 equipment management tool is a digital solution for managing biomedical equipment, including cold chain equipment such as freezers and refrigerators, as well as other hospital and healthcare equipment. With the equipment management tool, you can:

- **Register equipment units and relevant data** such as brand, type, location, year of installation, age/production date, maintenance status, and an overview of spare parts needed to maintain the equipment.
- **Integrate remote temperature monitoring** devices and other alarm devices, including registering each device and collecting temperature and/or alert data.
- **Give an overview of the status and location** of all types of equipment registered in the system, and send SMS messages and e-mail alerts.

## Benefits of using the DHIS2 Equipment Management Tool

- **Provides a clear overview of equipment status and age, enabling replacement of faulty equipment**
- **Tracks preventive maintenance activities and which spare parts are required**
- **Open-source tool with no licensing fees that leverages existing national DHIS2 platform, infrastructure, and capacity**
- **Configurable by national or regional consultants**
- **Can be maintained directly by the Ministry of Health, reducing costs and supporting sustainability**

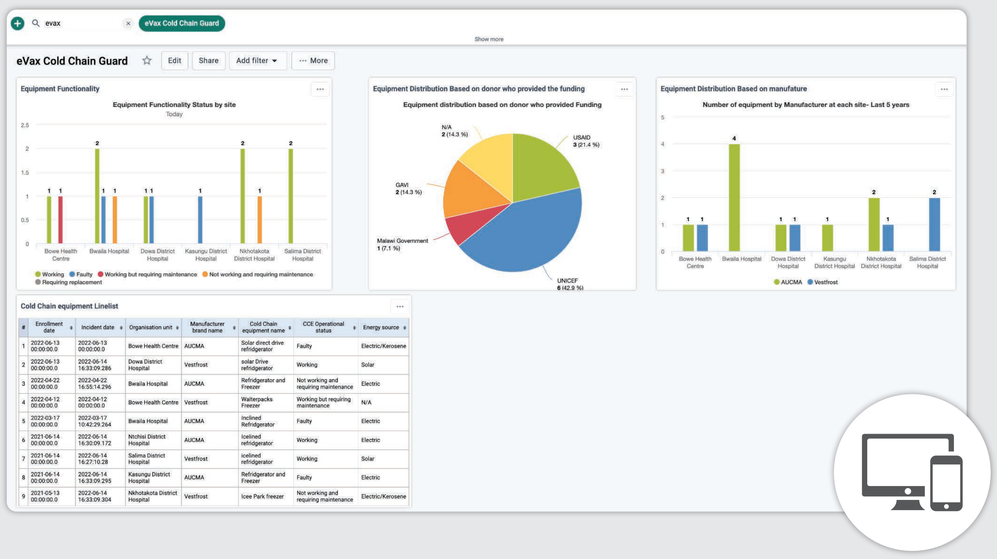
## IMPACT STORY

### Using DHIS2 for Improved Cold Chain Equipment Monitoring and Management in Malawi

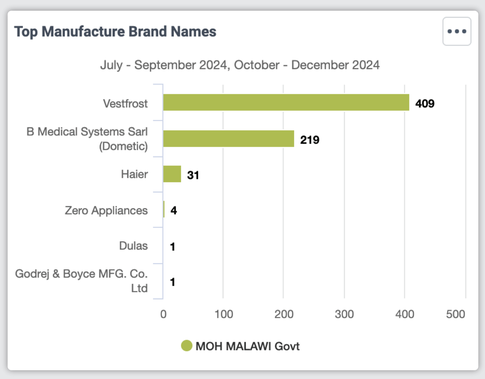
Malawi's Ministry of Health used the DHIS2 Tracker to modernize vaccine cold chain equipment (CCE) management, registering over 300 items in 20 districts within four weeks. This shift from paper and spreadsheet-based records to a digital system enabled real-time tracking of equipment status, operational needs, and maintenance.

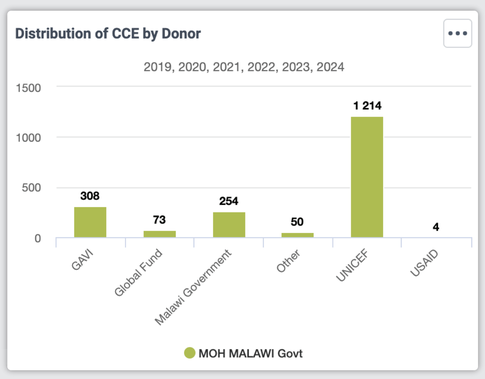
**Results**

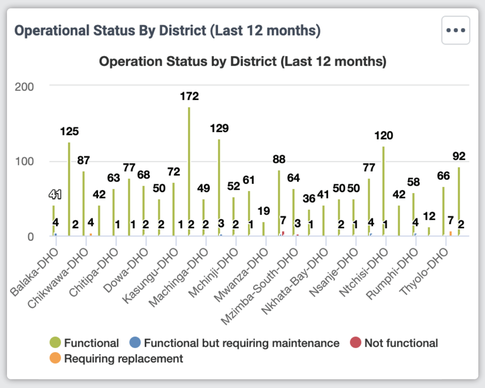
- Inventory data now available in 5 minutes vs. previous 5-year reporting cycle.
- Real-time insights on CCE functionality, capacity, and maintenance needs via DHIS2 dashboards.
- Cold chain data is now centralized, standardized, and accessible for analysis and decision-making.

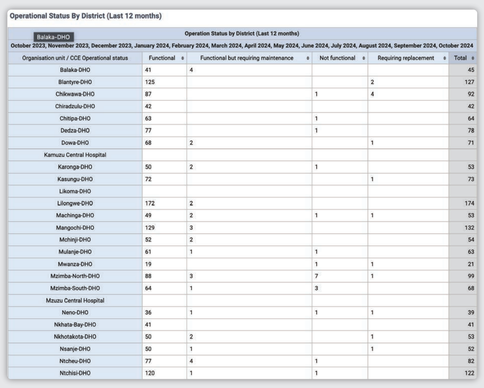



> *"The cold chain equipment management system has helped us to access the cold chain inventory, know every transaction that has happened, and help in planning the next due CCE service."*
>
> —Lucius Future Chisale, cold chain technical assistant, Central East Zone, Malawi

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