



# Technology in Ethiopia for Healthcare Supply Chain Management

Improving decision making by making quality data accessible in real time

**THE CHALLENGE:** Major gains have been made with the development and use of technology as a business enabler within Ethiopia's Pharmaceuticals Fund and Supply Agency (PFSA). Despite innovative improvements to supply chain operations, however, remote communities are still experiencing stockouts at the lower levels because PFSA lacks data visibility into facility and warehouse inventory levels and stock movements across the country.

**POTENTIAL IMPACT:** By taking these technologies to scale, decision makers across the system will have visibility into where commodities and related supplies are stored, requested, and urgently needed. This visibility ensures PFSA can have the right product at the right place at the right time to ensure equitable access to health services for all of Ethiopia.

## i-Register

- A public domain, web-based management information system developed for the Food, Medicine and Health Care Administration and Control Authority of Ethiopia that automates medical product registration, application submission, screening, review, and market authorization processes.

- It is fully functional for:



FMHACA

- Used by more than 100 local applicants importing medicines to Ethiopia.

## i-Import

- A software application developed for the Food, Medicine and HealthCare Administration and Control Authority of Ethiopia which allows importers to apply for and receive permits to import medicines online and FMHACA staff to manage these applications online.

- It is fully functional for:



FMHACA



PFSA Center

- Over 100 local agents importing medicines to Ethiopia.

## FANOS

- A web-based dashboard that displays Vitas data to guide supply chain performance monitoring.
- Sample metrics monitored include: stock on hand, months of stock, average monthly consumption, expiries, and pipeline. Fanos is also available as an Android application.

- It is fully functional in:



PFSA Center



18 hubs

## Vitas

- A warehouse and logistics management information system which manages: demand and procurement planning, costing, financial management, requisition fulfilment, warehouse management, and inventory control.
- It is fully functional in:



PFSA Center



18 hubs

## mBran

- A mobile software platform designed to control vaccine inventory –from receipt to issue– in woreda facilities. It is fully integrated with Vitas at central and regional/hub levels providing visibility into stock status all the way down to woredas as well as into the quantities of vaccines issued to health facilities.

- It is fully functional in:



137 sites nationally, served by 4 hubs

## Dogu

- An inventory and logistics management information system which manages store-based transactions (requisition and issue fulfilment) and allows facilities to generate commodity requests to hubs.

- It is fully functional in:



more than 750 facilities, representing about 75% by value of health commodities distributed

## LEGEND



Directory Services



Printed paper reports are keyed into Vitas