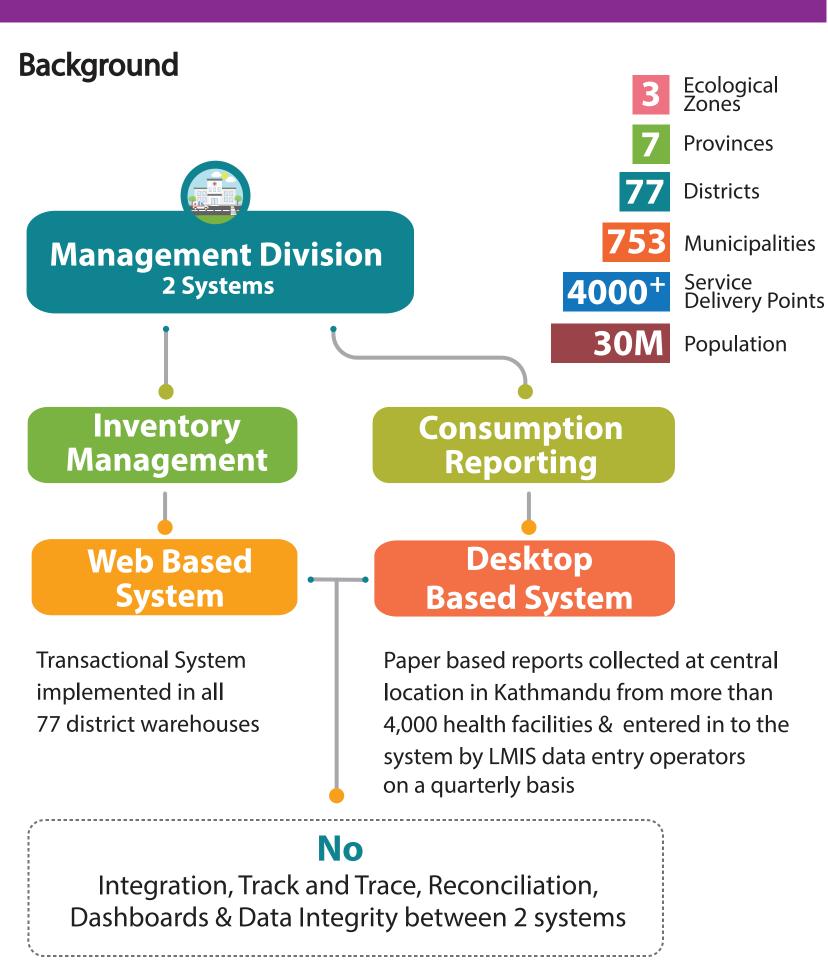
ENHANCED SUPPLY CHAIN MANAGEMENT FOR IMPROVED HEALTH OUTCOMES AND DEPLOYMENT OF ELMIS IN NEPAL

bileeta

Sanji De Silva, Sanka Weerasinghe, Hemaka Wijegunasekara, Dhanushka Kavindu Ministry of Health & Population - Nepal, USAID, GHSC-PSM & Bileeta (Pvt) Ltd

For more information, contact: Name: Hemaka Wijegunasekara E-mail: hemaka.anuruddha@bileeta.com

PROJECT SUMMARY



Interrupted electricity and internet in Service **Delivery Points**

Objectives

- Reduce health commodity stockouts and strengthen health systems, infrastructure, human resource management, procurement, supply chain management, and health information management.
- To strengthen logistics information systems to increase access to data.
- To improve the capacity of GON's (Government of Nepal) supply chain management professionals and local institutions.
- To optimize the supply improvements to medical stores, chain of health commodities through forecasting, quantification, distribution, procurement and other aspects of the supply chain.
- Improve data integrity and visibility of the supply chain.

Major Activities and Findings

- The poor level of skill and knowledge of logistics and supply chain functions at the District level creates a functional break down in the overall supply chain.
- The time lag from data collection to analysis leads to increased inaccuracy in forecasts, and the inability to understand demand / stock levels in-country.
- Highly manual processes create an error prone and difficult system for the current staffing levels to maintain.

MAIN CHALLENGES AND KEY FEATURES

Stock of Medicine at Optimum Level

Quick indications on expiry, stock outs, low stocks and over

Entire country's data in One System
Covering whole country's data using Online, Offline, Mobile applications and eLMIS data entry form



Legacy Data Migration

Migration of legacy data from LMIS system.



Interrupted Electricity and Internet

Deployment of Offline and Mobile Applications which can automatically synchronize data with the internet availability.



Interoperability

Built with secured web API layer and already integrated with 3 applications.



Multi Language & Multi Calendar Support All 3 applications support English and Nepali languages and

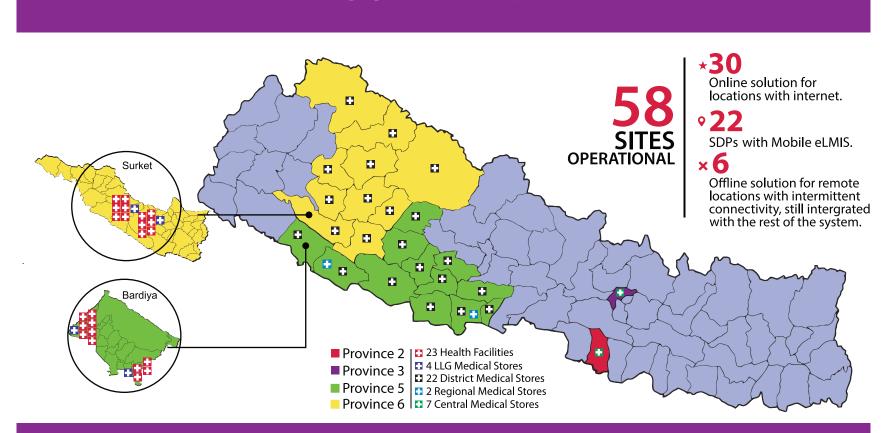
both AD and BS calendars.



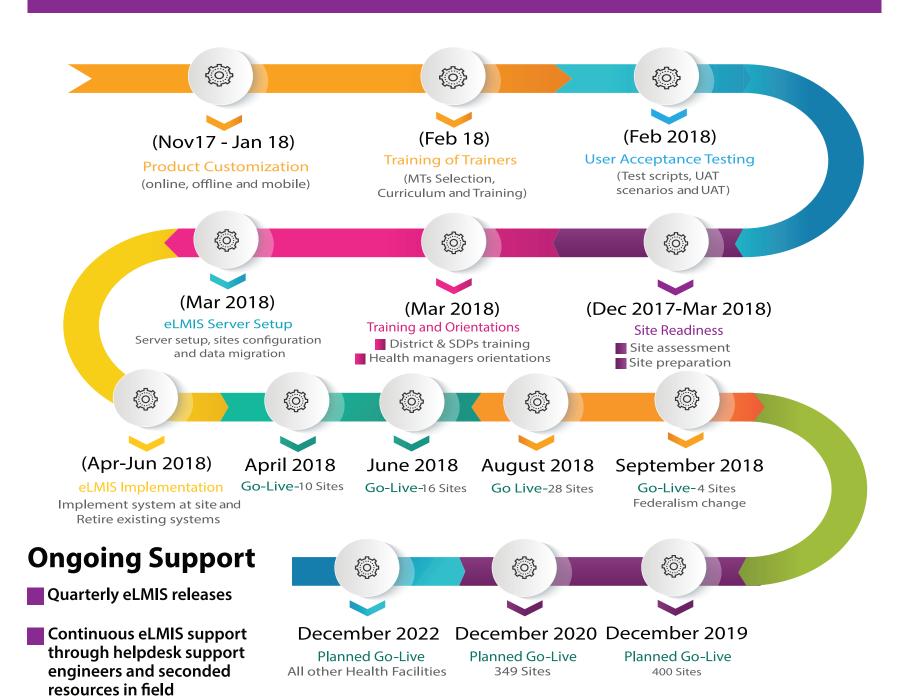
Training and Capacity Building

Local Partnership, Training of Trainer (TOT), User manuals, TOT Manuals, Participant Guides for all 3 applications in both English & Nepali languages.

COVERAGE



ROAD MAP



Key Features



Inventory & location management, Purchase orders, shipments

Pipeline Monitoring

Data Processing Reports and Dashboar Analytical reports and availability and expiry

Operate in low (512 Kbps) bandwidth eLMIS solution can be operated in low bandwidth, as low as 512 Kbps

Greater Control

Expiry management, Advance shipment notifications, Reorder

levels, Delivery planning and

Efficient and effective

Facilitates an efficient and

effective logistics planning and

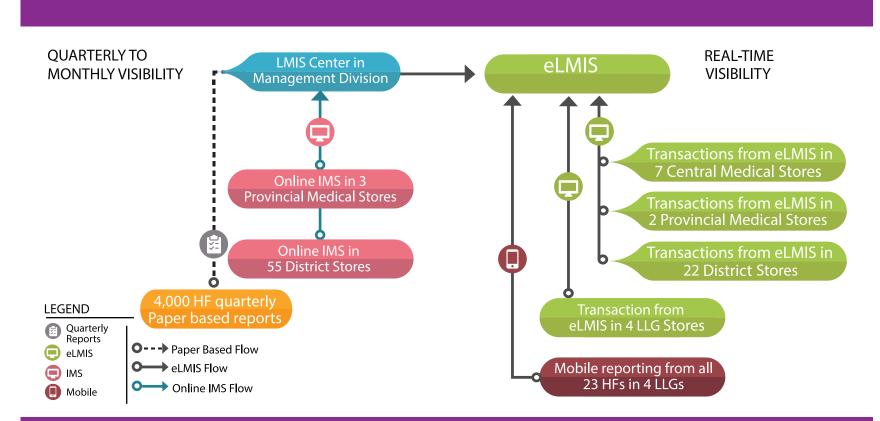
management across all levels of

the supply chain.

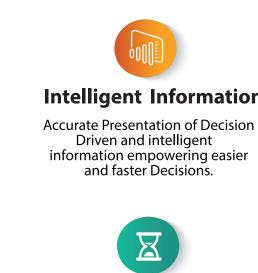
Seamless Integration

Capacity management.

DATA VISIBILITY



ADVANTAGES



Real time Information

Support the real-time

management of the Health

Commodities throughout the

supply chain.

360 View of Inventory

Greater Visibility of key performance

indicators to empower the operations;

Geographical Stock Consumption Levels,

Stock Outs, Stock Availability, Forecast

Accuracy, Order Accuracy, On-Time Delivery,

Order Fulfillment Cycle Time, Order Fill Rate,

Inventory Accuracy, Inventory Turnover and

Remaining Shelf Life.

Operational Optimization Optimize the flow of health commodity supply chain through forecasting, quantification,

procuring and distribution.



Greater Visibility on KPIs It enables 360 view of the inventory status in the country/organization.

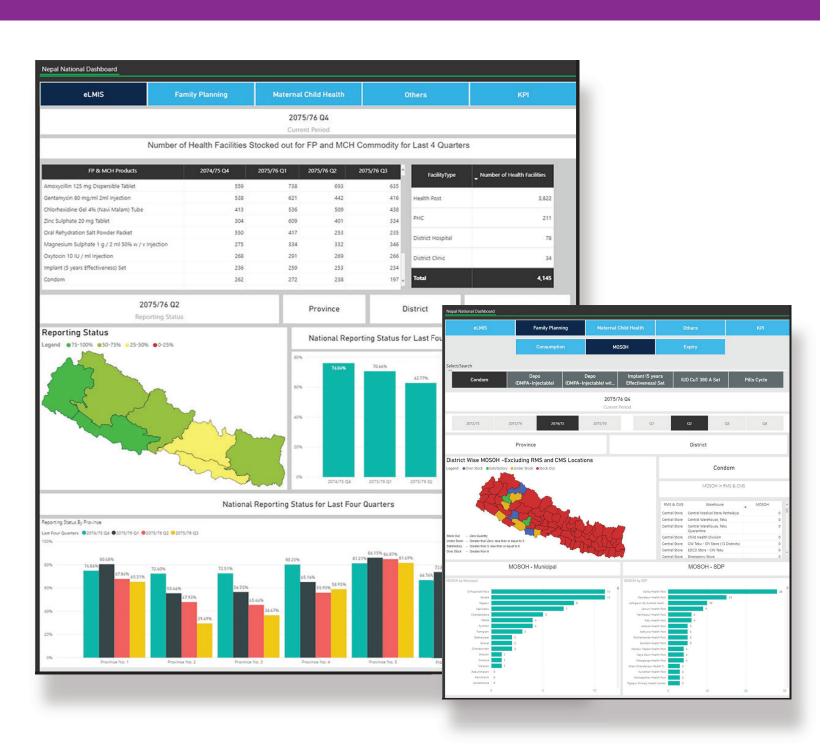


Flexibility & Adaptability Flexible Solution with greater adaptability to country specific supply

across the world.

Seamless Integration with other Information Systems (Enterprise Resource Planning Systems, Health chain and logistics requirements, which could effectively support the unique Information Systems, Ordering Systems, etc.) requirements of health ministries

DASHBOARD & ANALYTICS



- Entution Vesta together with PowerBI, provides advanced Business Intelligence (BI) for real-time data analytics and greater visibility through Dashboards, GIS Maps and KPIs.
- Current eLMIS performance dashboard mainly visualizes the Stockouts, Reporting status and Main transaction trends of the overall supply chain.
- Programme wise dashboards mainly focus on the Consumption, Month of Stock on Hand (MOSOH) and Expiry of the Family Planning & Maternal Child Health.
- KPIs mainly focuses on Order Fill Rate, Wastage Rate, Lead Time, Local vs Foreign Procurement, Funding Source wise Procurement, Stock out rate, etc.

CONCLUSIONS & CONTRIBUTIONS

- It has helped in strengthening the Health Facilities of Nepal under MOH.
- Fully automated & cost-effective Logistics Management of Health Commodities across Nepal.
- Reducing the lead time of exchanging health commodity data across the warehouses.
- Quick data analytics using Reports and BI tools which enable quick decision making.
- Forecasting of required commodities based on historical data and improved stock out visibility.
- Operability of Offline & Mobile applications under interrupted internet connectivity.
- High data security over all three platforms (Online, Offline &
- It has helped strengthening work of health care commodities and services focusing on key public health priorities especially HIV/AIDS, Malaria, Family Planning, Maternal Child Health and other basic health commodities.