**Integrated RMNCH Dashboard**  
Linking HMIS and LMIS data to improve supply chain performance

The Supply Chain Technical Resource Team (TRT) is working to demonstrate the benefits and challenges of linking HMIS and LMIS data to improve supply chain performance. Data management and data visibility are important components of any supply chain strengthening effort. Routine logistics data are often siloed from health service delivery data and can be difficult for programmatic decision-makers within the ministry of health to access. Routine logistics and health service data are rarely linked, making it difficult to use the two data sets for ongoing decision-making to improve access to and utilization of life-saving commodities. Centralized dashboards can help to address this problem by creating an integrated source of information that displays key logistics and service delivery information to all stakeholders in one place.

**Project Overview**

The purpose of this activity is to improve supply chain data management and visibility by developing a standard RMNCH dashboard to gather and publish routine data across LMIS and HMIS systems that tracks key supply chain management performance indicators. Tanzania was chosen as the pilot location for the implementation of this dashboard. However, the overall intent of the project is to create a model that can be deployed in other countries, and funding is available for adapting and deploying integrated dashboards in two other pathfinder countries.

Stakeholders in Tanzania, including the Ministry of Health and Social Welfare, have expressed that a useful LMIS/HMIS dashboard should provide decision-makers with actionable information to inform and improve the design and development of RMNCH interventions, specifically:

- availability of each of the commodities during last month
- stock status for the next three months
- number of clients who received the commodities during last month.

This information would be disaggregated by intervention/program, specifically family planning, antenatal care, labor and delivery, post-natal care, prevention of mother to child transmission of HIV.

**Benefits of an Integrated Dashboard**

→ Improve the functionality of the logistics system by linking, correlating, and analyzing combined data
→ Improve service delivery by providing making actionable, combined LMIS and HMIS data available to managers
→ Allow for cross-validation of data in both systems
→ Reduce the data collection burden and minimize collection of duplicate data
→ Provide essential data elements for monitoring and evaluation of health programs

**Intended Users**

Reproductive, maternal, and child health national, regional, and district program staff
Pharmaceutical services departments
National and district health leadership
M&E or HMIS managers
Indicators of Interest

Stakeholders in Tanzania and members of the Supply Chain TRT are currently finalizing a list of indicators that capitalize on the benefits of integrating LMIS and HMIS datasets to inform decision-making. The dashboard will visualize indicators that capture information including:

- Demand for commodities
  
  *Ex. Number of cases or eclampsia complications (severe eclampsia or pre-eclampsia) reported in the HMIS compared to quantities of Magnesium Sulphate dispensed in the LMIS reports.*

- Availability of commodities
  
  *Ex. Proportion of facilities where amoxicillin was available in the last month*

- Data validation
  
  *Ex. Number of women receiving emergency contraceptives reported in the HMIS compared to quantities of emergency contraceptives dispensed per the LMIS reports*

- Reporting Rates
  
  *LMIS and HMIS reporting rates by facility to identify data gaps and reporting differences*

The dashboard also provides an opportunity to link to additional data sets and data sources. For example, the dashboard could also pull in data regarding the locations of healthcare workers trained in RMNCH to map service delivery, human resource, and logistics data together. These additional linkages will be explored as part of the dashboard development and deployment in additional countries.

Learnings from Developing an Integrated Dashboard

The process of developing an integrated dashboard in Tanzania has provided the team with an opportunity to work through a number of issues and challenges, and find solutions that can inform the development of dashboards in other countries, such as:

- Lack of a common facility list or common facility standards that can be used to easily link facility data between the two systems
- Differences in product lists and labeling standards in the two systems
- Incongruent reporting periods for the two systems (for example, monthly vs. quarterly)
- Incomplete understanding of the most useful ways to visualize and interpret the data on the dashboard, so that it is actionable for decision-makers

Timeline

**April-June 2015:** Finalize indicators to visualize in Tanzania dashboard

**August 2015:** Launch integrated dashboard in Tanzania

**Fall 2015:** Disseminate lessons learned and best practices; develop dashboard for additional countries

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