

ELECTRONIC SOLUTIONS

ELECTRONIC HEALTH MANAGEMENT INFORMATION SYSTEM (eHMIS)

eHMIS is a facility-based data aggregation system that is used for public health-related decision-making. Its main users are public policymakers, health officers, researchers, planning departments of health offices, HMIS focal persons, data entry clerks, and many others, ranging from health facility staff to federal managers.

eHMIS is designed to fulfill the need for an automated national health information management system. It helps collect, aggregate, store, analyze, and evaluate health-related data from the health facility to the federal level in an accurate and timely manner. The system also has tools for decision-makers at the federal, regional, zonal, and woreda levels.

FEATURES

- ☑ Health systems reference database (HSRD)/master facility list (MFL)
- ☑ Report status tracker
- ☑ Data entry tool
- ☑ Aggregation tool
- ☑ Performance report
- ☑ Decision support system (DSS)
- ☑ Data sync/import

ELECTRONIC INTEGRATED DISEASE SURVEILLANCE AND RESPONSE (eIDSR)/PHEM

The eIDSR system facilitates early detection of an epidemic by analyzing, organizing, and interpreting disease-related public health emergency management (PHEM) data.

The eIDSR is an integral part of the early warning system for capturing, analyzing, and reporting indicator- and event-based surveillance data. It is used at health facility, woreda, zonal, regional, and federal levels to make accurate and timely PHEM data available at every level.

FEATURES

- ☑ Timeliness and completeness
- ☑ Data entry tool
- ☑ Aggregation tool
- ☑ Weekly data view
- ☑ Dashboard
- ☑ Line list and rumor log

ELECTRONIC MEDICAL CATALOG SYSTEM (eMCS)

eMCS allows recording/registering patient's personal details and later retrieving them with advanced searching options. It is designed to reduce duplication of records and card losses by ensuring there is one medical record number for each patient record.

FEATURES

- ☑ Patient registration
- ☑ Advanced searching
- ☑ Tracer card and appointments
- ☑ Reports
- ☑ Dashboard
- ☑ Database backup and restoration

ELECTRONIC COMMUNITY HEALTH INFORMATION SYSTEM (eCHIS)

eCHIS is an electronic system that allows health extension workers to capture family folder information; manage service provision and appointments; generate various types of reports; and analyze data.

FEATURES

- ☑ Digital family folder
- ☑ Service provision
- ☑ Appointment management
- ☑ Reporting
- ☑ DSS

EMERGENCY AND REFERRAL INFORMATION SYSTEM (ERIS)

ERIS facilitates management of the national service directory, referral and bed information, and emergency service data in hospitals.

FEATURES

- ☑ National Medical Service Directory
- ☑ Referral and bed management
- ☑ Emergency data manager
- ☑ DSS
- ☑ Alert and notification system

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HMIS SCALE-UP PROJECT



USAID
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HMIS SCALE-UP IN ETHIOPIA

Health management information systems and monitoring and evaluation (HMIS/M&E) are one of the pivotal components of the Health Sector Transformation Plan (HSTP) of the Federal Ministry of Health (FMOH). Among the transformation agendas in HSTP, Information Revolution gives paramount importance to maximizing the availability, accessibility, quality, and use of health information for informed decision-making at all levels of the health system.

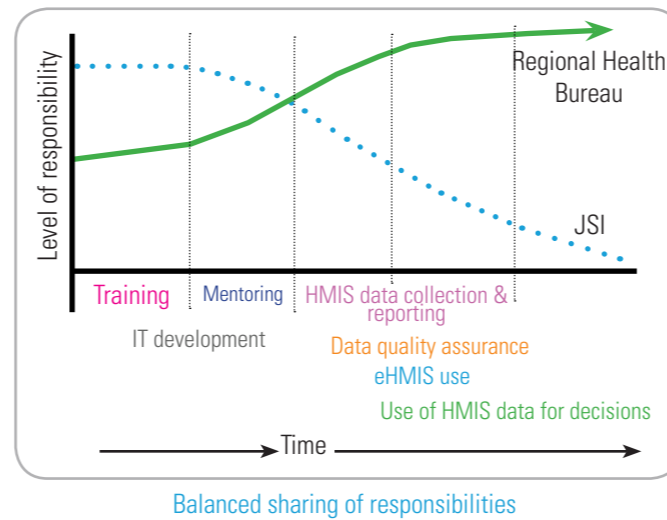
JSI Research & Training Institute, Inc. (JSI) provided technical assistance to the reformed HMIS in 2006–2007, with guiding principles of standardization, integration, and simplification.

HMIS Scale-Up Project implementation began in September 2009, by:

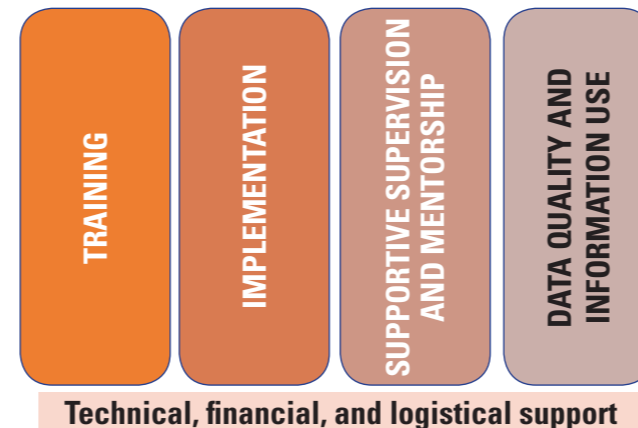
- ▶ Establishing a sustainable health information system in SNNP and Oromia regions and contributing to increased use of high-quality health services through:
 - Full implementation of HMIS in all health facilities and administrative health units to produce high-quality data and use the HMIS information for planning and managing health services.
 - Establishing a computerized HMIS/M&E data processing and reporting system.
 - Assisting the Oromia regional health bureau in scaling up community health information system (CHIS), information use, and strengthening HMIS throughout the region.
- ▶ Helping FMOH coordinate the multi-partner scaling up of the HMIS/M&E.
- ▶ Providing technical support to the Federal HIV/AIDS Prevention and Control Office in the implementation of both a paper-based and an electronic multi-sectoral response information system (MRIS).

STRATEGIES

- ▶ Introduce HMIS, CHIS, eHMIS, MRIS, and eMRIS zone by zone.
- ▶ Build capacity of the health system and encourage broad-based partnership.
- ▶ Introduce IT application and enhance its support for users.
- ▶ Respond to changing/emerging priorities of the FMOH and regional health bureaus.



APPROACHES



HMIS/CHIS IMPLEMENTATION STATUS

AHU/HFs	SNNP			OROMIA		
	Total	HMIS	CHIS	Total	HMIS	CHIS
ZHD/town	15	15 (100%)		36	36 (100%)	
Sp. woreda	4	4 (100%)		-	-	
WOHO	160	160 (100%)		334	334 (100%)	
Hospital	58	58 (100%)		84	84 (100%)	
Health center	723	723 (100%)		1374	1374 (100%)	
Health post	3893		3815 (98%)	6523		5727 (88%)

ACCOMPLISHMENTS

- ▶ Built capacity through:
 - Training on HMIS and CHIS skills
 - Training on eHMIS, eIDSR, eMCS, and MRIS/eMRIS.
- ▶ Implemented eHMIS, eIDSR, eMCS, and eMRIS.
- ▶ Provided supportive supervision through:
 - A participatory model on skills for recordkeeping and reporting using HMIS instruments, data quality assurance, and information.
 - Strengthening MRIS.
- ▶ Held performance review meetings at different levels to discuss and address HMIS gaps and experiences.
- ▶ Improved collaboration and participation through:
 - Maintaining and promoting strong communication with all levels of administrative health units and health facilities.
- ▶ Promoted ownership through:
 - Regional and zonal level sensitization workshops for senior-level health managers.