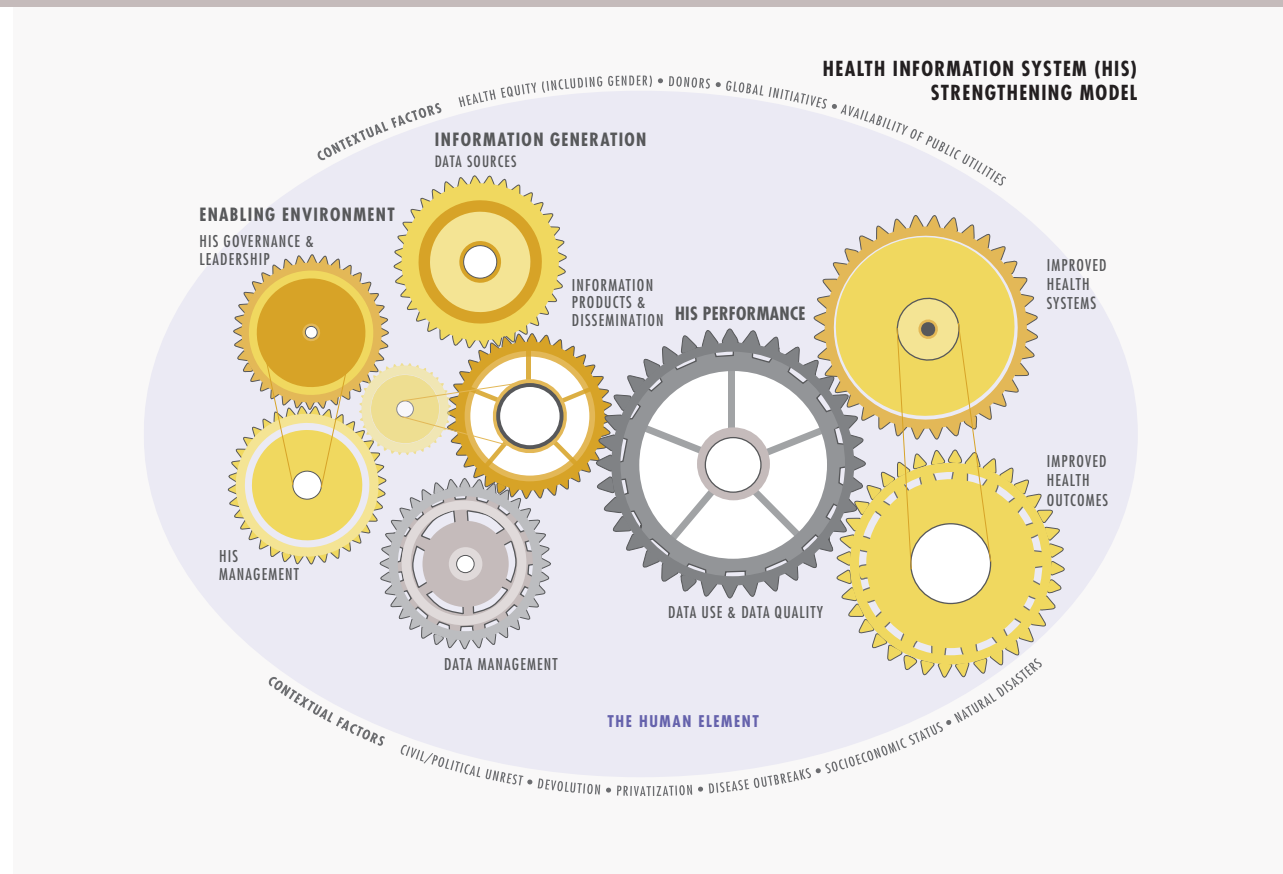


# Strengthening Health Information Systems in Mali

MEASURE Evaluation, which is funded by the United States Agency for International Development, has been supporting Mali's Ministry of Health and Public Hygiene (MOH)—especially the National Malaria Control Program (NMCP) and the National Directorate of Health (DNS)—in the unification of Mali's health information system (HIS). The goal of this unification is for the HIS to yield better-quality data for effective health system planning and timely response to disease outbreak. Mali's HIS comprises a system for local (site-based) health information, the hospital information system, and the epidemiological surveillance system. These systems are managed by different governing bodies and were previously housed on a variety of platforms that were not able to communicate or share data. The local HIS had limitations preventing it from producing malaria-specific information or aiding in the detection of an Ebola outbreak. These limitations led to the creation of additional parallel information systems. These multiple reporting systems and duplicative indicators have resulted in a heavy burden of data collection for healthcare providers.

MEASURE Evaluation's work to support the MOH has strengthened both the “enabling environment” and “information generation” areas of the HIS identified in MEASURE Evaluation's [Health Information System Strengthening Model](#) (HISSM) shown above:



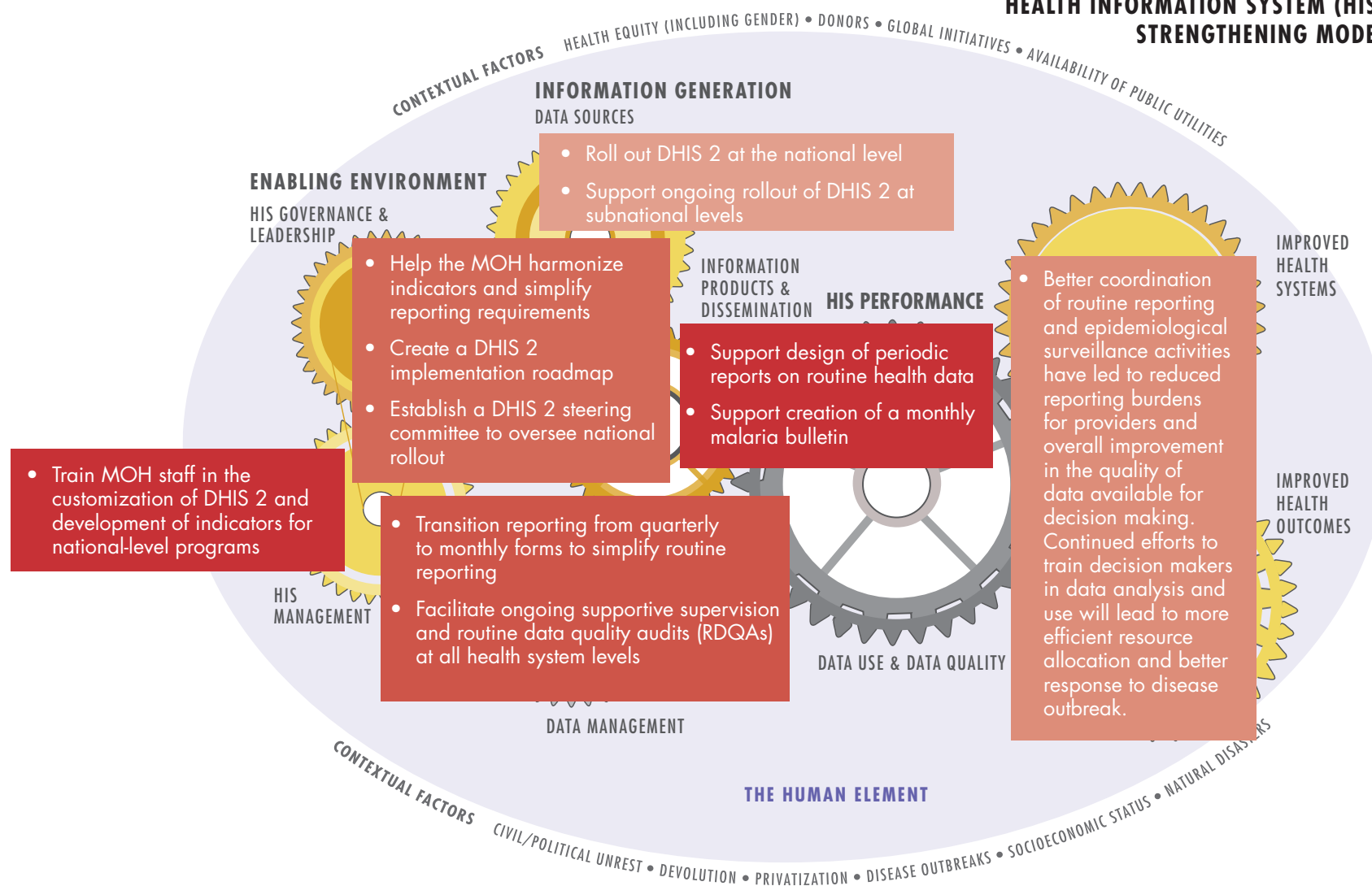
For example, our work to support the MOH in the harmonization of its indicators and development of a roadmap to implement the DHIS 2 platform has contributed to the country's enabling environment for a strong HIS. The rollout of the DHIS 2 platform

nationally, along with the streamlining of reporting requirements and improvements to data quality assurance practices, have strengthened the information generation areas of Mali's HIS.

The illustration below superimposes on the HISSM depictions of MEASURE Evaluation's activities in the enabling environment and information generation areas to support better coordination of Mali's HIS subsystems. By displaying key interventions across the model, we see their strategic interaction and how this combination of interventions works together to strengthen data quality and data use at all levels of the health system. The table below lists additional MEASURE Evaluation activities that support HIS strengthening.

### MEASURE Evaluation's Work to Harmonize Reporting and Improve Data Quality in Mali

#### HEALTH INFORMATION SYSTEM (HIS) STRENGTHENING MODEL



The table lists additional MEASURE Evaluation activities that support HIS strengthening in Mali. We expect all of these interventions to improve the quality of the HIS data collected and increase the use of those data to generate health indicators and statistics, identify trends, and expand data-informed decision making.

MEASURE Evaluation's Other HIS Strengthening Work in Mali				
HISSM areas	HISSM subareas (gears)	Health information system strengthening activities		
		2015	2016	2017
Enabling environment	<b>HIS governance and leadership</b>	<ul style="list-style-type: none"> <li>Convene national HIS governing bodies in weekly meetings</li> </ul>	<ul style="list-style-type: none"> <li>Finalize the DHIS 2 governance document</li> <li>Draft an information flow improvement plan</li> <li>Create an HIS stakeholder mapping report</li> <li>Conduct a situational analysis of disease surveillance systems</li> </ul>	<ul style="list-style-type: none"> <li>Develop Ebola indicators and standardize data collection forms for disease surveillance</li> <li>Establish a national stakeholder technical working group to coordinate Ebola surveillance data quality</li> <li>Finalize an action plan to strengthen the disease surveillance system</li> <li>Design DHIS 2 standards</li> </ul>
	<b>HIS management</b>	<ul style="list-style-type: none"> <li>Train NMCP staff at the national and subnational level to use mobile phones for data transmission</li> <li>Train data managers on the malaria surveillance database</li> <li>Assist the MOH in the development of supervision tools and revision of the data management procedures manual</li> <li>Hold supportive supervision training of trainers (TOT) at the national level</li> </ul>	<ul style="list-style-type: none"> <li>Hold national level TOT on the Ebola Surveillance System</li> <li>Train MOH staff on standard operating procedures for data management</li> <li>Support training of NMCP's malaria monitoring and evaluation (M&amp;E) lead</li> <li>Support provision of reporting forms, laptops, and guidance documents at national and subnational levels</li> </ul>	<ul style="list-style-type: none"> <li>Hold workshops on the use of routine and surveillance data in decision making (national and subnational levels)</li> <li>Implement a national competition and seminar on data analysis and use, to share best practices</li> <li>Organize a regional malaria M&amp;E training workshop</li> <li>Plan TOTs on data analysis and DHIS 2 surveillance modules</li> <li>Conduct an M&amp;E capacity assessment of the NMCP at national and subnational levels using the Monitoring and Evaluation Capacity Assessment Toolkit</li> </ul>

MEASURE Evaluation's Other HIS Strengthening Work in Mali				
HISSM areas	HISSM subareas (gears)	Health information system strengthening activities		
		2015	2016	2017
Information Generation	Data sources		<ul style="list-style-type: none"> <li>Unify multiple, parallel subsystems for disease surveillance: HIV, NMCP, and family planning information using the DHIS 2 platform</li> </ul>	
	Information products and dissemination		<ul style="list-style-type: none"> <li>Report on a 2014 evaluation of a mobile reporting system for routine malaria data for the NMCP</li> </ul>	<ul style="list-style-type: none"> <li>Disseminate Mali's updated NMCP 2016–2018 strategic plan</li> <li>Support compilation and dissemination of the 2016 NMCP annual report</li> <li>Standardize DHIS 2 surveillance data reports</li> </ul>
	Data management	<ul style="list-style-type: none"> <li>Equip health centers with mobile phones and facilitated Internet access</li> <li>Collaborate with stakeholders to develop supportive supervision tools</li> <li>Train NMCP regional and district staff on supervision tools</li> <li>Train regional and district staff in data analysis, use, and dissemination</li> </ul>	<ul style="list-style-type: none"> <li>Train staff at the subregional level on data use specifically for malaria surveillance</li> <li>Monitor data quality in DHIS 2 and at the site level on an ongoing basis</li> <li>Help the NMCP and DNS complete RDQAs as part of supportive supervision visits</li> </ul>	<ul style="list-style-type: none"> <li>Develop standard operating procedures for Ebola data</li> <li>Support NMCP and DNS to conduct ongoing RDQAs during supportive supervision visits</li> <li>Support ongoing data quality assurance practices for DHIS 2 data</li> <li>Hold a routine health data use competition</li> </ul>