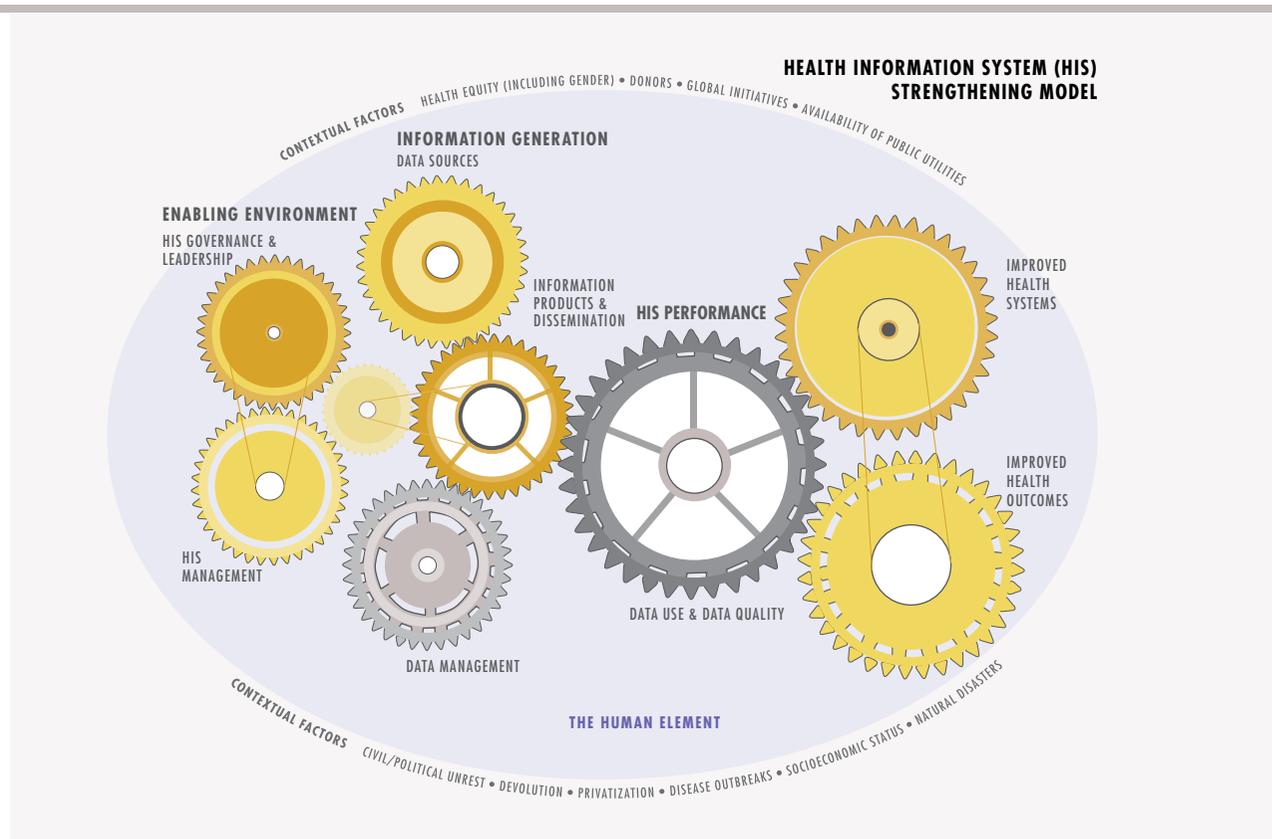


Strengthening Health Information Systems in Senegal

MEASURE Evaluation, funded by the United States Agency for International Development, worked with Senegal's Ministry of Health and Social Action (MOH) and Division of Health and Social Information System (DHSIS) from 2016–2019 to improve the quality of the country's early warning system for disease outbreaks. A main goal has been to achieve a more unified health information system (HIS)—an effort that includes the integration of community-level data and laboratory data to support a more efficient early warning system. Much of this work strengthens elements of the HIS identified in MEASURE Evaluation's [Health Information System Strengthening Model](#) (HISSM).

MEASURE Evaluation's work to support HIS strengthening in Senegal happened both in the enabling environment for the HIS and information generation—both areas outlined in the HISSM. For example, in the enabling environment, MEASURE Evaluation supported stakeholder coordination for planning meetings and built infrastructure for community data collection by supplying mobile devices and sharing reporting guidelines. In the information generation area, MEASURE Evaluation strengthened management practices and improved data quality by training district managers in data quality assurance and best practices for data use.

The graphic to the right depicts MEASURE Evaluation's activities in the enabling environment

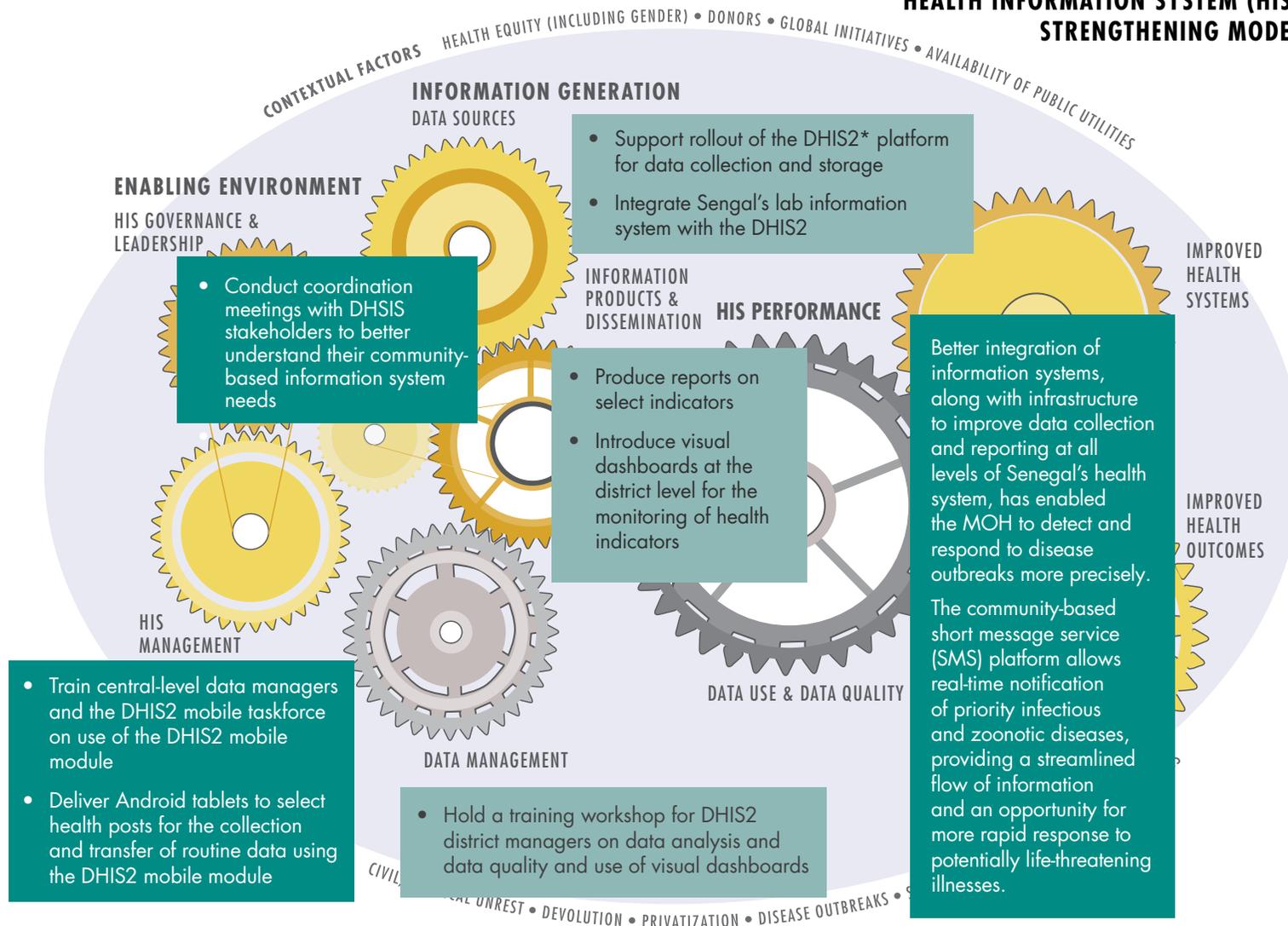


and information generation areas to support the linking of previously siloed information systems to integrate Senegal's HIS. By displaying interventions across the model, we see their strategic interaction and how this combination of interventions works together to strengthen data quality and data use at all levels of the health system. The table below lists

additional MEASURE Evaluation activities that have supported HIS strengthening. Because of these interventions, we expect improvements in the quality of the data collected and an increase in the use of HIS data to generate health indicators and statistics and to inform decision making.

MEASURE Evaluation’s Work to Support Better Detection of Disease Outbreak

HEALTH INFORMATION SYSTEM (HIS) STRENGTHENING MODEL



* DHIS2: District Health Information Software, version 2

MEASURE Evaluation’s Other Health Information System Strengthening Work in Senegal					
HISSM areas	HISSM subareas (gears)	Health information system strengthening activities			
		2016	2017	2018	2019
Enabling environment	HIS governance and leadership		<ul style="list-style-type: none"> Convene stakeholders to develop community surveillance indicators 	<ul style="list-style-type: none"> Establish a national high council to define the strategic directions of the Global Health Security Agenda 	
	HIS management	<ul style="list-style-type: none"> Develop a user guide for the DHIS2 mobile module 	<ul style="list-style-type: none"> Supply additional mobile devices to the MOH for community-level surveillance Establish a user support system at the district and regional levels Provide technical assistance for the development of an SMS platform for the collection of surveillance data at the community level 	<ul style="list-style-type: none"> Conduct data analysis and data quality review trainings for district health managers Hold a community-surveillance training of trainers for district health management teams and health post nurses across four districts Adapt the mInfoSanté* platform to include zoonotic diseases and adapt the platform for expanded geographic scope and surveillance Create a data review meeting SOP 	<ul style="list-style-type: none"> Create a training guide on community-based surveillance of priority and zoonotic diseases for nurses, livestock officers, and community health volunteers Conduct a qualitative study to identify the motivating and disincentive factors for community health actors and to make recommendations on how to strengthen their motivation in community-based monitoring activities
	Data sources		<ul style="list-style-type: none"> Implement the DHIS2 mobile module for data collection without Internet connectivity 	<ul style="list-style-type: none"> Introduce the mInfoSanté platform for SMS-based alerts in six districts 	
	Information products and dissemination			<ul style="list-style-type: none"> Develop community surveillance assessment reports 	

* mInfoSanté is a mobile phone-based system at the facility level for disease surveillance and communication between and from health workers.

MEASURE Evaluation’s Other Health Information System Strengthening Work in Senegal					
HISSM areas	HISSM subareas (gears)	Health information system strengthening activities			
		2016	2017	2018	2019
Information generation	Data management	<ul style="list-style-type: none"> Support the training of health post managers and nurses on the use of Android tablets for routine data collection and transfer 	<ul style="list-style-type: none"> Develop standard operating procedures (SOP) for routine data quality audits (RDQA) Organize supervision visits to support implementation of SOPs, including the use of RDQA tools Provide technical support for RDQA cascade trainings for district managers to provide trainings for facility health workers Train community health workers to use the SMS platform to transfer epidemiological surveillance data in real time to their head nurse 	<ul style="list-style-type: none"> Conduct supervision visits to district health management teams Support data review meetings for district health management teams Continue to support data review meetings 	<ul style="list-style-type: none"> Complete supervision visits with district health management teams and the livestock service Hold data review meetings with district health management teams and the livestock service Collaborate with the Institute of Health and Development to hold a surveillance, monitoring, and evaluation workshop for participants from 19 health districts Train 3,377 community health volunteers, 150 nurses, 32 livestock officers, 6 environmental agents, and 5 veterinarians in community-based surveillance

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