# **DECISION**TREE

## Designing interventions for data demand and use (DDU)



## **Designing interventions for DDU**

## First, we need to understand the existing barriers to using data.



## We need to align information with upcoming decisions.

#### O) How do we engage stakeholders to learn what they need?

Your tool: Stakeholder Engagement Tool

https://www.measureevaluation.org/resources/publications/ms-11-46-e

- Intended users: Program managers and directors; program management team members
  - What: Guidelines for identifying and engaging data users and data producers to improve data use initiatives by using guiding principles, suggested practices, and a matrix for recording information
  - **Investment:** A mix of implementation methods can be used to identify stakeholders and define roles, resources, and commitments. A one-day workshop can be used to convene stakeholders to review the results of initial stakeholder mapping and develop a stakeholder engagement plan.
  - Tool output: Stakeholder analysis matrix and stakeholder engagement plan

#### O2 How do we identify information needed to inform decision making?

#### Your tool: Framework for Linking Data with Action

https://www.measureevaluation.org/resources/publications/ms-11-46-b

Intended users: Decision makers, data users (e.g., program managers) and data producers (monitoring and evaluation [M&E] and health management information system [HMIS] focal persons)

- What: Identifies and strengthens the link between data and decision-making processes; facilitates data-informed decision making by identifying actions and decisions to be made, data required to inform decisions, and sources for these data
- **Investment:** A one-day participatory workshop with key stakeholders can be embedded in regular data review mechanisms or within interventions to strengthen organizational capacity to use data. The framework should be updated continually and used as a management tool.
- **Tool output:** The completed framework outlines decisions and actions to be taken, programmatic or policy questions of interest, indicators and data required to address the question, data sources, timelines for data analysis and decision making, and communication channels for data dissemination and feedback. The tool should be used to monitor progress toward data-informed decision making.

## We need to make data more accessible, available, and easier to use.

<ul> <li>Intended users: National and subnational MOH and HIS stakeholders (including implementing partners, NGOs, and donors)</li> <li>What: The tool assesses a country's digital HIS landscape and its ability to exchange data across multiple information systems so that decision makers can access complete and timely data to make decisions efficiently and effection assesses capacity, processes, and structures for key components critical to interoperability (leadership and go technology, and human resources) using a maturity model approach.</li> <li>Investment: In a one-day assessment workshop, participants complete the assessment questionnaire individually and then approach.</li> </ul>	า ′ely. It
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<b>Investment:</b> In a one-day assessment workshop, participants complete the assessment questionnaire individually and then	/ernance,
maturity model.	reach onto the
<b>Tool output:</b> Completed assessment scores mapped onto the maturity model to inform action planning and the development roadmap for strengthening HIS interoperability	ıt of a

Your tool:	System https://www.measureevaluation.org/resources/publications/sr-17-145-en
Intended users:	Researchers, health personnel involved in improving HIS, and communicators interested in science translation
What:	A slide doc presents findings and guidance for developing information products to promote the use of routine data. Recommendations for information product design, testing, and dissemination; capacity building for information produc development and use; and improving the utility of information products are included.
Investment:	Time required to use this report to inform information product design and development
Tool output:	Reference guide

### Q3 How can we visualize gaps, target programs, and improve health services?

Your tool:	Data Visualization That Works–Facilitating HIV Program Targeting: Case Examples and Considerations https://www.measureevaluation.org/resources/publications/wp-16-162
Intended users:	M&E and HIS staff, program staff, policymakers
What:	Case studies of how data visualization tools have been used to improve HIV programs and the impact they have on decision making, with lessons learned and considerations for development of data visualizations to facilitate program targeting
Investment:	Time required to use this report to inform development of data visualizations
Tool output:	Reference guide

Your tool:	Cascade Data Use Manual: To Identify Gaps in HIV and Health Services for Programme Improvement https://www.who.int/hiv/pub/toolkits/hiv-cascade-data-use-manual/en/
Intended users:	National and subnational AIDS control program managers and health workers
What:	A manual that provides guidance on data visualization for the HIV cascade of services (e.g., care and treatment) and use of these data to identify gaps and better link services for HIV/AIDS
Investment:	Time required to use this guidance document to inform development of effective HIV cascade data visualizations
Tool output:	Reference guide



Your tool:	Analysis and Use of Health Facility Data https://www.who.int/healthinfo/tools data analysis routine facility/en/
Intended users:	M&E and HIS staff, program managers, and policymakers at national and subnational levels
What:	This toolkit includes a set of resources to help managers and analysts review, analyze, and present findings from routine health facility data. The guidelines include crosscutting modules on general steps and standards for analyzing health facility data, as well as guidance on specific health program areas (including HIV/AIDS, TB, and malaria). Each module includes a description of core indicators recommended for use in routine program management, best practices for assessing data quality, suggested visualizations to inform program management, and considerations for interpretation and use of data. Standard configuration packages for District Health Information Software, version 2 (DHIS2) dashboards are included.
Investment:	Time required to use this toolkit to inform the development of facility-based data analyses and visualizations
Tool output:	Reference guide
Q4 How o	an we strengthen multidirectional data feedback mechanisms?
Your tool:	Information Use Map https://www.measureevaluation.org/resources/publications/ms-11-46-c
Intended users:	Program teams and M&E/HIS teams at all levels of the health system
What:	A flowchart framework identifies existing data reporting and feedback channels from point of collection to storage, analysis, reporting, and use. The map can be amended to describe the ideal flow of information through a system, and used to identify opportunities to improve the flow of information.
Investment:	Less than one week for informal information gathering with key stakeholders and working sessions or a formal workshop to review initial assessment findings and brainstorm recommendations for improvement
Tool output:	Final report with baseline information map, ideal information map with improvements in information flow, and planning matrix describing priorities, required resources, and actions to improve information flow
Q5 How can we use geographic data to target health programs?	
Your tool:	Using Geospatial Analysis to Inform Decision Making in Targeting Health Facility-Based Programs: A Guidance Document https://www.measureevaluation.org/resources/publications/ms-14-88
Intended users:	Program planners and managers (with basic knowledge of geographic information system terminology)
What:	Guidance document to help users identify questions that need to be answered and potential analytical approaches for using geospatial analysis to make decisions about resource allocation
Investment:	Time to use this guidance document to inform geospatial analyses
Tool output:	Reference guide

## And we need to ensure that decision makers have confidence in our data.

Q1 How	do we assess if data are of high quality?
Your tool:	We have many strategies for data quality assessments. Select from our Menu of Tools for data quality assessment and review. https://www.measureevaluation.org/resources/publications/tl-19-26
Intended users:	Program teams, supervisors, M&E/HIS teams at all levels of the health system, as well as donors and other stakeholders
What:	Menu of options to provide guidance on the most appropriate data quality assessment approach to implement, given the data and system to be assessed
Investment:	Depends on tool selected and purpose of the assessment; ranges from one week to six months
Tool output:	Depends on tool selected; can include assessments of various dimensions of data quality including accuracy, completeness, reliability, timeliness, confidentiality, precision, and integrity

## Now that we have the data, let's build individual capacity to use them.

Q1 Do you want to build capacity in data analysis and use?	
Your tool:	Data Demand and Use Curriculum—Facilitator's Guide https://www.measureevaluation.org/resources/publications/ms-18-135
Intended users:	Data users (program teams, policymakers, and health decision makers) and data producers (M&E specialists, data clerks, HIS officers)
What:	A training tool kit aims to increase conceptual understanding of DDU. The course covers the role of data in decision making, the context of decision making, the determinants of data use, and the importance of data sharing and feedback, and it builds skills for applying and using tools for DDU.
Investment:	Three-day training workshop
Tool output:	Training curriculum
Your tool:	DHIS2 Functions and Data Use for Health Information System Strengthening Training Manual: Facilitators' Guide https://www.measureevaluation.org/resources/publications/ms-17-123a
Intended users:	Subnational health management team members
What:	This curriculum and facilitator's guide was developed in Tanzania with the Ministry of Health, Community Development, Gender, Elderly and Children. The course aims to augment capacity and skills to use the advanced functions and features of DHIS2 and build competencies to improve the quality, analysis, and use of routinely collected DHIS2 data for effective health program monitoring, planning, and decision making.
Investment:	Five-day training workshop
Tool output:	Training curriculum
Your tool:	Introduction to Basic Data Analysis and Interpretation for Health Programs: A Training Tool Kit https://www.measureevaluation.org/resources/training/capacity-building-resources/basic-data-analysis-for-health- programs
Intended users:	M&E/HIS officers and program staff
What:	Training tool kit aiming to improve understanding of statistical and M&E concepts in data analysis, build skills in basic data analysis (including target setting and calculating program coverage), and enhance skills in data interpretation
Investment:	One-day training is recommended, but modules can be separated to supplement other existing materials.
Tool output:	Training curriculum
Q2 Do you want to build capacity among leaders?	
Your tool:	Building Leadership for Data Demand and Use https://www.measureevaluation.org/resources/training/capacity-building-resources/building-leadership-in-data- demand-and-use-a-facilitators-guide
Intended users:	M&E/HIS officers and program staff
What:	This training tool kit guides the learning process for leading data use within an organization or program. The curriculum aims to raise awareness of the importance of data in decision making, define the role of leadership in promoting data use, build individual and team capacity for data use, promote and sustain capacity through strong leadership, and develop and implement specific plans to overcome barriers to data use.
Investment:	Three- to four-day training workshop
Tool output:	Training curriculum

### We also need to strengthen organizational structures and processes for data use.



### Once we are using data, how do we measure that?

Q1 How can I monitor the results of DDU interventions?		
Your tool:	Conceptualizing and Measuring Data Use: A Review of Assessments and Tools https://www.measureevaluation.org/resources/publications/wp-18-214	
Intended users:	Global and country-level HIS managers and program teams interested in assessing, monitoring, and evaluating data use interventions	
What:	A review of DDU concepts and definitions, indicators that have been used to measure the process and outputs of data use, and a summary of assessments that measure varying dimensions of data use	
Investment:	Time to use this resource guide to inform the monitoring of data use interventions	
Tool output:	Resource guide	
How can we document DDU successes and share lessons? Through case studies, fact sheets, and publications, such as Strengthening Data Demand and Use in Three African Your tool: Countries: Lessons Legand from the Associate Awards in Konya, South Africa, and Tanzania		
	https://www.measureevaluation.org/resources/publications/wp-18-222	
Intended users:	Program teams, supervisors, M&E/HIS teams at all levels of the health system, and donors and other stakeholders	
What:	A report highlighting the results of DDU interventions in Kenya, South Africa, and Tanzania and lessons learned about factors contributing to successful data use in country HIS	
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**Investment:** Time to use this resource guide to inform the design of data use interventions

Tool output: Resource guide

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