

Global Digital Health Resources and Maturity Models: A Summary

Overview

This matrix describes six digital health resources and maturity models that MEASURE Evaluation—funded by the United States Agency for International Development (USAID)—considers essential tools in the global effort to strengthen health data systems.

Resource	Purpose	Method for use	Uses of the results	HIS level	Notes
<p>Digital Health Investment Review Tool (https://www.mcspprogram.org/resource/digital-health-investment-review-tool/)</p> <p>Developed by USAID and Maternal Child Survival Program (MCSP), with the Health Data Collaborative (HDC)</p>	<p>Provides guidance for strategic investments in digital technologies to support public health, based on best practice, such as the Principles for Digital Development.</p> <p>Primary audience is funders; secondary is implementers looking for guidance on how to integrate best practices. May include national or subnational government bodies, donors, and implementers.</p>	<p>Uses quantitative scoring based on a review of a proposal or workplan. Could also support a process to arrive at a best and final offer or final presentation.</p>	<p>The tool helps:</p> <ul style="list-style-type: none"> • Structure requests for proposals or procurements • Inform the language of grants and contracts • Support procurement officers' decisions on digital health proposals or proposals with a digital health component 	<p>National or subnational, depending on the level of the system or project being evaluated</p>	
<p>Global Digital Health Index (GDHI) and Maturity Model</p> <p>(https://www.digitalhealthindex.org/)</p> <p>Developed as a multistakeholder initiative led by the Global Development Incubator and HealthEnabled</p>	<p>An interactive digital resource to assess, monitor, and improve the environment for effective use of digital health technology, to strengthen health systems and improve health outcomes</p> <p>Provides a maturity model with five levels to set a baseline, generate a scorecard and a benchmark against global averages, and learn from other countries to inform and target investments in digital health at the country, regional, and global levels</p>	<p>Data collection through a web-based survey, in collaboration with the ministry of health or country digital health agency. Results are validated through document review and expert consultation, and then shared, once approved by the health ministry or other authorized government agency.</p>	<p>Three objectives:</p> <ul style="list-style-type: none"> • Empower health ministries, funders, policymakers, and industry to make informed, strategic decisions on resource allocation • Evaluate countries against standard digital health criteria and provide a roadmap for maturing • Motivate and track progress in national digital health systems and targeted national and global investments 	<p>Maturity of systems at national and global levels</p>	<p>This tool is modeled after the World Health Organization (WHO)-International Telecommunication Union (ITU) National eHealth Strategy Toolkit and was developed over two years through consultation, engagement, and testing by representatives from country health ministries, international agencies, donors, and the private sector.</p>
<p>Health Information System Stages of Continuous Improvement Toolkit</p> <p>(https://www.measureevaluation.org/resources/publications/tl-17-04a)</p>	<p>Answers these questions:</p> <ol style="list-style-type: none"> 1. What are the stages of HIS development? 2. How can we assess and continuously improve the maturity of our HIS, to achieve better health? 	<p>Quantitative data collection and group consultations to agree on HIS stages and future directions, and plan improvements. Data from a desk review; interviews; and a workshop with policymakers,</p>	<ul style="list-style-type: none"> • Describe the status of HIS components • Identify HIS improvement goals and milestones 	<p>National, potentially subnational, and facilities, depending on the purpose of</p>	<p>This tool is informed by the WHO- ITU National eHealth Strategy Toolkit, WHO's Health Metrics Network Framework, and MEASURE Evaluation's</p>

Resource	Purpose	Method for use	Uses of the results	HIS level	Notes
Developed by United States Centers for Disease Control and Prevention (CDC) and MEASURE Evaluation, in partnership with HDC	Offers five precoded responses to measure improvement in five HIS domains and 39 associated subcomponents, a data collection tool, and a user guide	program managers, and public health leaders. One-day workshop with stakeholders to review findings and develop a roadmap from components and subcomponents of HIS, health system levels, and relevant nonhealth stakeholders (e.g., information technology [IT], finance, and human resources [HR])	<ul style="list-style-type: none"> Develop a plan, timeline, and needed resources Analyze investments to improve data quality and use for HIS strategic planning, service delivery, and management 	the HIS being assessed	HIS Strengthening Model . The tool seeks to enhance country capacity to review HIS progress and performance and enable data use for policy, as envisioned by the SCORE package.
HIS Interoperability Maturity Toolkit (https://www.measureevaluation.org/resources/tools/health-information-systems-interoperability-toolkit) Developed by MEASURE Evaluation with HDC	Comprises a maturity model, HIS interoperability assessment tool, and a user guide. This toolkit identifies major components of interoperability for HIS and lays out a path to meet goals in leadership and governance, human resources, and information technology to support digital health.	A two- to three-day workshop for stakeholders in the domains of digital health and interoperability to assess HIS interoperability capabilities, review the assessment results, and reach a consensus on the system's maturity level	Develop a roadmap to strengthen interoperability of health information systems, identify resources to support the process, and set timelines to achieve a strong, interoperable HIS that produces high-quality data and promotes their use	National and subnational	The tool can be adapted to suit country needs. Several countries have used the assessment tool to develop their own digital health and interoperability roadmaps.
Global Good Maturity Model https://wiki.digitalsquare.io/index.php/What_are_Global_Goods#Maturity_Model Developed by Digital Square, in partnership with the Digital Health and Interoperability Working Group of the HDC	The Global Good Maturity Model for digital health tools helps to identify areas in which investment is needed in global goods. The model specifies common metrics for understanding how advanced a digital health tool is so that we can compare global goods and prioritize the most promising ones for investment. The model assesses a tool's maturity as low, medium, or high across three dimensions: global utility, community support, and software maturity.	Stakeholders complete the Global Good Maturity Assessment tool, providing a "low," "medium," or "high" rating based on predetermined criteria.	The Global Good Maturity Model provides at-a-glance ratings of potential global goods. The Maturity Model is used to prioritize investments and identify the digital health tools with the most potential for scaling, adaptation, and sustainability.	Maturity of systems at the global level	
Digital Health Atlas www.digitalhealthatlas.org	The Digital Health Atlas (DHA) is a WHO global technology registry platform aiming to strengthen the value and impact of digital health investments, improve coordination, and facilitate institutionalization and scale.	Stakeholders, including ministries of health, investors, and implementing partners, register their projects in the DHA. For each project, information is recorded in relation to its health focus area, geographic scope, and	The DHA is an open-source web platform designed to help governments, technologists, implementers, and	National and subnational levels	A standard global questionnaire is completed by all projects. In addition, health ministries and investment partners

Resource	Purpose	Method for use	Uses of the results	HIS level	Notes
		<p>the details of the software system(s) deployed.</p> <p>In addition, the DHA has a curated resource repository where the WHO uploads trusted reference resources. Users are also able to upload resources.</p> <p>A project owner can complete the mHealth Assessment for Planning and Scale (MAPS) toolkit to assess the project's maturity. This self-assessment can be completed over time, and the data are stored and linked to the project, allowing the health ministry team to see how the project progresses. These scores can then be used to identify which projects are ready for scale.</p>	<p>donors coordinate digital health activities globally. This platform offers users the information needed to improve the planning, coordination, and use of digital health information systems. In addition, the DHA helps implementers to assess the maturity of their digital health projects and gain access to global resources on current best practices in digital health.</p>		<p>may add customized questions for projects to answer. This information helps align the outputs of the DHA with informational needs from a wide range of partners.</p>

This publication was produced with the support of the United States Agency for International Development (USAID) under the terms of MEASURE Evaluation cooperative agreement AID-OAA-L-14-00004. MEASURE Evaluation is implemented by the Carolina Population Center, University of North Carolina at Chapel Hill in partnership with ICF International; John Snow, Inc.; Management Sciences for Health; Palladium; and Tulane University. Views expressed are not necessarily those of USAID or the United States government. FS-18-305

