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Indonesia

Country Health Information Systems and Data Use (CHISU) Program

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Indonesia is the fourth most populous nation in the world and has the world's largest archipelago. Health care is delivered through 3,000 hospitals, more than 10,000 *Puskesmas* (public sector primary healthcare centers), and 85,000 clinics.¹

Indonesia's complex health information system (HIS) ecosystem is overseen by the Center for Data and Information (Pusdatin) in collaboration with the Digital Transformation Office (DTO). Together, they launched an enterprise architecture and digital transformation roadmap to accelerate the digitalization of the health system in Indonesia in a strategic, coordinated, and standardized manner. Through these efforts, the country's Ministry of Health (MOH), with the support of CHISU, is working to connect the ecosystem of health facilities and information systems to improve the availability of quality health data to improve health services in Indonesia.



How is CHISU supporting digital transformation in Indonesia?

CHISU aims to strengthen Indonesia's HIS to positively effect improvements in maternal and newborn health (MNH), tuberculosis (TB), interoperability and data exchange, COVID-19, and health financing outcomes through:

- Strengthened governance and enabling environment of health information systems

¹ Republic of Indonesia Health System Review 2017

Country Health Information Systems and Data Use (CHISU) is USAID's flagship data and information system program to strengthen host country capacity and leadership to manage and use health information systems to improve evidence-based decision-making. www.chisuprogram.org



- Increased availability and interoperability of quality health data and information systems
- Increased demand and use of health data and information to address health priorities, gaps, and challenges
- Strengthened organizational development of local partners for sustained health data use

Strengthening HIS and progressing digital transformation to impact MNH, TB, COVID-19 and health financing outcomes in Indonesia

Indonesia has invested in the use of digital tools to support health services for many years, but data exchange, systems data analytics, and coordination between stakeholders have not been prioritized. This has resulted in the development and use of over 400 individual information systems for health programs, contributing to a heavy burden on health workers to manage these systems.

To remedy this issue, Pusdatin and DTO initiated a digital health transformation. CHISU is supporting Pusdatin and DTO to realize this transformation through the institutionalization of best practices and processes for continuous HIS improvements at the national and subnational levels in an effort to impact MNH, TB, COVID-19, and health financing outcomes. To foster good governance, CHISU has supported the MOH to establish an HIS Technical Working Group (TWG) and assess the country's digital maturity. This HIS TWG brings together the HIS ecosystem and MNH, TB, COVID-19, and health financing stakeholders to provide input on the digital health transformation.

To realize the vision of health information exchange, CHISU is supporting the rollout of SATUSEHAT (a health information exchange and data analysis platform), including the development of MNH, TB, COVID-19, and health financing data mapping, standards, and mechanisms for interoperability to streamline information systems to reduce data entry burden on health workers and improve access to quality data. To ensure this data is used for decision making, CHISU is training and mentoring MNH, TB, COVID-19, and health financing stakeholders on use of digital tools for data analytics, working to improve data quality, and exploring use of artificial intelligence on TB drug forecasting for data-driven decision making. CHISU is also engaging a local partner for institutional transition of CHISU's technical support practices and expertise.

Based on these inputs, CHISU expects to impact quality of services by interoperating or integrating MNH, TB, COVID-19, and health financing information systems to reduce data entry burden and improve access to quality data for those on the front line of care. Soon, CHISU will be expanding these efforts to support HIV services and One Health surveillance and response, as well as the community health workforce. By ensuring facility- and community-based health workers can focus their workload on health services, and that they have access to comprehensive quality data, they will be better equipped to improve health outcomes for Indonesians.



Representatives from the Digital Transformation Office visit a community health center in Malang District to better understand processes and challenges in management of health services data. August 2022.



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