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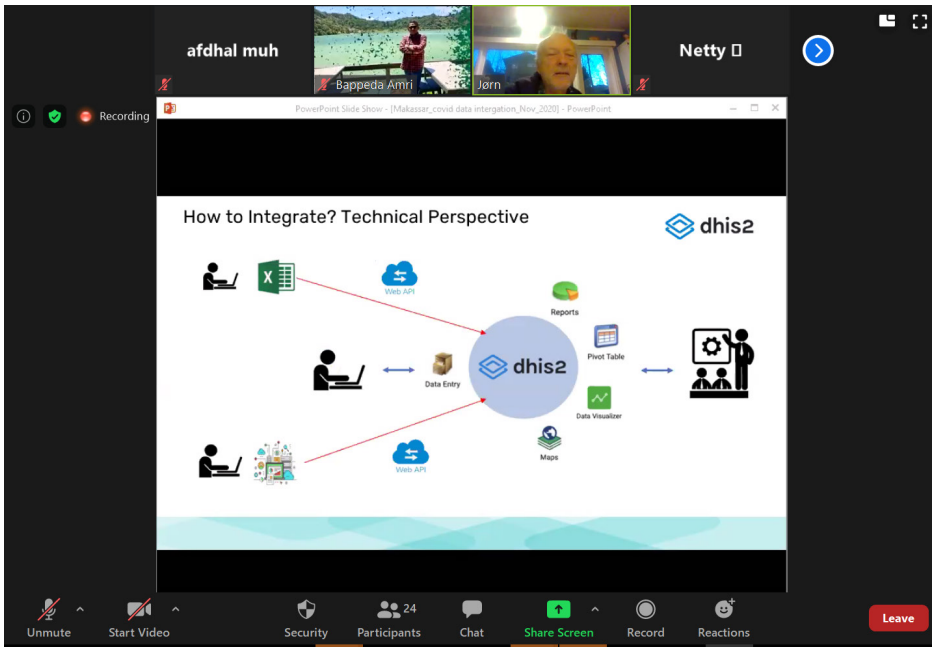
Makassar Multisector Data Integration Series: Phase 1 Summary



November 2020

THRIVE NETWORKS

International Organization for Migration (IOM)
The UN Migration Agency

URBAN INSTITUTE

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ACRONYMS

BHC	Building Healthy Cities
DHIS-2	District Health Information Software 2
IOM	International Organization for Migration
JSI	JSI Research & Training Institute, Inc.
UiO	University of Oslo
USAID	United States Agency for International Development

Building Healthy Cities

Building Healthy Cities is a five-year cooperative agreement funded by the United States Agency for International Development (USAID) under Agreement No. AID-OAA-A-17-00028, beginning September 30, 2017. Building Healthy Cities is implemented by JSI Research & Training Institute, Inc. (JSI) with partners International Organization for Migration (IOM), Thrive Networks Global, and Urban Institute, and with support from Engaging Inquiry, LLC.

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INTRODUCTION

The United States Agency for International Development (USAID)-funded Building Healthy Cities (BHC) project aims to refocus city policies, planning, and services with a health equity lens while improving data-driven decision making for Smart Cities in India, Indonesia, Nepal, and Vietnam. Planning for a Smart City is intrinsically linked to health: transportation, the environment, sanitation, education, recreation, technology, and the built environment all influence the health of an urban population. When decision-making across these areas is harmonized, people will benefit from improved access to health services, decreased environmental and lifestyle risk factors for chronic diseases, a lower burden of infectious diseases, and an increased availability of useful data for decision-making.

BHC engages with sectors that contribute, directly or indirectly, to citizens' health (particularly women's and children's health) and quality of life. This multisector engagement, the first core value of BHC, aims to provide all municipal sectors a common understanding of how they contribute to health. The second BHC core value is to strengthen community engagement in municipal decision-making, especially for those most vulnerable to health shocks. BHC's third core value is supporting use of data for planning and decision-making. Informed by these three core values, the project is working to improve healthy urban planning.

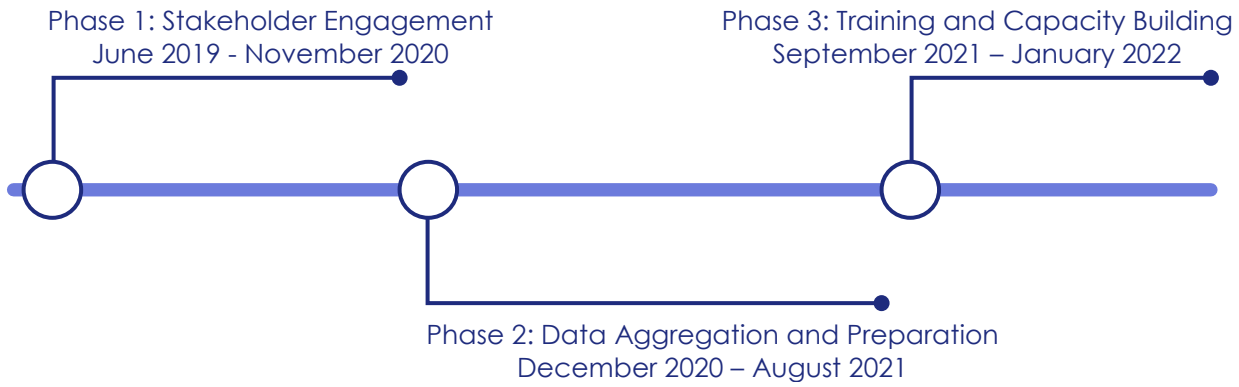
In Makassar, Indonesia, BHC works with Bappeda, Kominfo, and other key stakeholders to support the city's long-term goal to become a world class city that is healthy and livable for all. BHC works in partnership with Smart City initiatives and urban health coordination structures to define and implement actions to achieve this goal via health, infrastructure, and information and communication technology projects; enhance interoperability of data systems; and increase efficiency of multisector urban spending.

Not all city government departments in Makassar have had access to the same data. By integrating available data and enabling analysis across sectors, departments could capture real and comprehensive conditions across the city, facilitate improved outcomes through data-driven decision making, and effectively target and distribute resources. This goal requires a consistent and user-friendly data sharing platform as well as training and the right technology. If implemented correctly, a data-sharing platform would increase the quality, accessibility, and timeliness of data for decision making. Similarly, improving the ease with which quality data is shared would encourage new pathways for cross sector collaboration and reduce the negative impacts of a highly siloed system.

BHC is supporting data integration across sectors to improve data-driven decision making in Makassar, and worked with the city to adapt existing and familiar platforms. One such platform is District Health Information Software 2 (DHIS-2), an open source, web-based health management information system. The core DHIS-2 software development is managed by the Health Information Systems Program at the University of Oslo (UiO). While generally used for health data, this platform may also integrate other data from a variety of sectors.

This activity was accomplished in 3 phases: stakeholder engagement; data aggregation and preparation; and training and capacity building. Phase 1: Stakeholder Engagement kicked off a series of workshops to connect departments across sectors to sustain data integration in Makassar. This report summarizes the first Multisectoral Data Integration Workshop organized by BHC and Bappeda, held virtually on November 26, 2020.

Figure 1. Activity Timeline, 2019-2022



WORKSHOP SUMMARY

Workshop Series Design

The purpose of the workshop series is to:

- Encourage sectors in Makassar to integrate their data.
- Initiate data integration using DHIS-2 platform.
- Encourage integration of Healthy City indicators into DHIS-2 platform.
- Initiate teamwork for data integration in Makassar City.

Specific objectives of this first virtual workshop were to:

- Identify the best strategies to encourage multisector data integration through DHIS-2 platform.
- Initiate teamwork responsible for data integration in Makassar and to ensure integration sustainability.

Expected outcomes included:

- Data integration teamwork formed.
- Action plan drafted.

Multisectoral Data Integration Workshop

Twenty-five participants attended the Multisectoral Data Integration virtual workshop from BHC, Bappeda, Kominfo, Health Office, University of Oslo, and Hasanuddin University.

Table 1. Multisectoral Data Integration Agenda

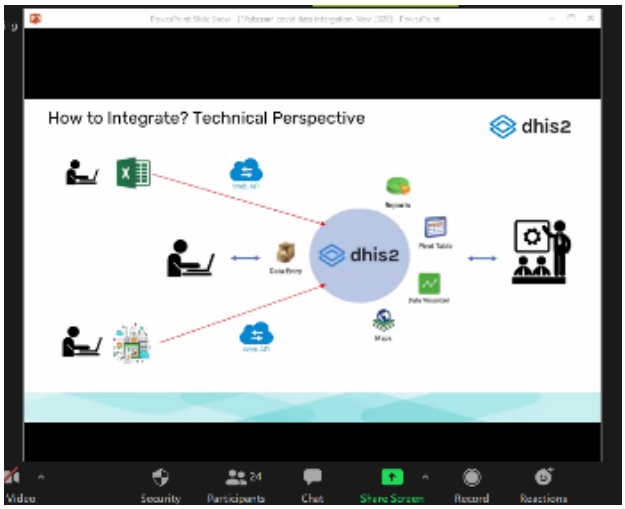
Time	Discussion Topic
13:30-14:00	**Registration**
14:00-14:10	**Welcoming Speech** Resource person: Son Ha Dinh (Program Coordinator IOM Eastern Region) Moderator: Bappeda
14:10-14:25	**Opening** Dr. Andi Hadijah Iriani, Sp. THT-KL, Head of Bappeda
14:25-14:45	**Meeting Objective** BHC
14:45-15:15	**Multisectoral Data Based on Healthy City Indicators** Healthy City Forum
15:15-15:45	**Current Situation on Multisectoral Data Integration in Makassar City** Resource person: Kominfo Moderator: Bappeda
15:45-16:15	**Multisectoral Data Integration Using DHIS-2** University of Oslo
16:15-16:30	**Discussion for Action Plan**
16:30	**Closing**

The workshop was opened by the Head of Bappeda, Dr. Andi Hadijah Iriani, Sp. THT-KL. She stated that this virtual workshop can be a good initiative for data integration during the pandemic.

In the opening ceremony, Mr. Son Ha Dinh, IOM Indonesia's Eastern Indonesia Program Coordinator, expressed his appreciation to Makassar City for their collaboration and support to BHC, emphasizing the city's efforts to encourage data integration for decision making.

The workshop continued with presentations from the chief of Healthy City Forum, Dr. Noer Bachri Noor. The discussion focused on the benefits of integrating healthy city data, including being able to tabulate and analyze data from multiple sectors. Data integration would also allow for easy monitoring of healthy city achievements.

The next presentation was given by the head of Kominfo, Dr. Ismail Hajiali. He presented on national regulations on One Data and the importance of data for decision making. He also explained how data integration can support implementation of e-government for transparent and accountable governance.



The last presentation was from Professor Jorn Braa, Health Information Systems Programme Department of Informatics, University of Oslo. He expressed excitement that Makassar is the first city in Indonesia trying to integrate data from multiple sectors using DHIS-2 as a data warehouse. He also emphasized that DHIS-2 has been successfully used for data integration in other countries.

The workshop closed with a discussion of an action plan. Bappeda was expected to lead data integration, as the leading sector for the Healthy City Forum. With support from BHC, Bappeda will work with Kominfo and the Health Department to coordinate sectors/departments for data integration purposes.

PARTICIPANTS

	Name	Organization
1.	Zainal Mile	Bappeda
2.	Ulfah Ichwani Achmad	Bappeda
3.	S. Fatimah	Bappeda
4.	Muh. Amri Akbar	Bappeda
5.	Nena Ishak	Bappeda
6.	A. Ririn Yani Sidik	Bappeda
7.	Andi Hadijah Iriani Ridwan	Bappeda
8.	Rosdiana Umarella	Bappeda
9.	Rizti Nadirah	Bappeda
10.	Nila Mandica	Bappeda
11.	Prof. Sukri Palatturi	FKM Unhas
12.	Taufiq Sitompul	HRH2030 Indonesia and University of Oslo
13.	Son Ha Dinh	IOM/BHC
14.	Ismail Hajiali	Kominfo
15.	Adam	Kominfo
16.	Netty	Kominfo
17.	Syefira Salsabila	Universitas Esa Unggul
18.	Jørn Braa	University of Oslo
19.	Poppy Meilani	University of Oslo
20.	Noer Bachri Noor	Healthy City Forum
21.	Ekhe Supomo	Not listed
22.	Indrabayu Amirullah	Not listed
23.	Irawati Sahrir	Not listed
24.	M. Akbal	Not listed
25.	Sulha Kuba	Not listed

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