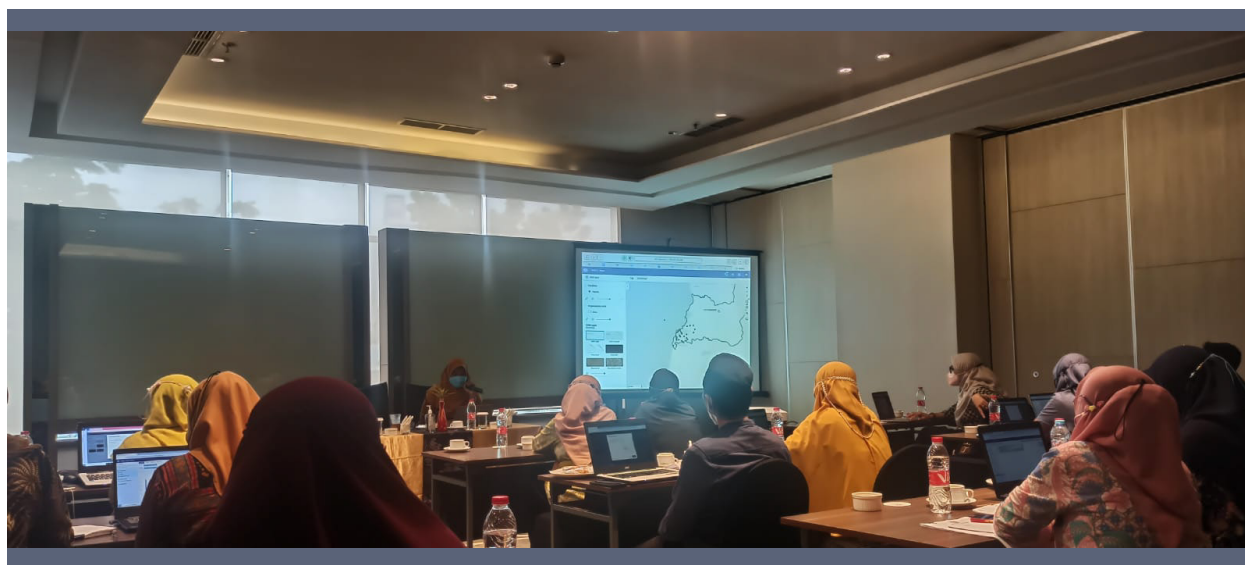


BUILDING HEALTHY CITIES



BUILDING HEALTHY CITIES

Makassar Multisector Data Integration Series: Phase 3 Summary



September – December 2021

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ACRONYMS

ASDK	One Health Data
BHC	Building Healthy Cities
DHIS-2	District Health Information Software
JSI	JSI Research & Training Institute, Inc.
SPM	minimum health standard
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.

This report is made possible by the generous support of the American people through USAID. The contents are the responsibility of Building Healthy Cities and do not necessarily reflect the views of USAID or the United States Government.

Cover Image

Training participants analyze data using maps. Image courtesy of International Organization for Migration Indonesia.

INTRODUCTION

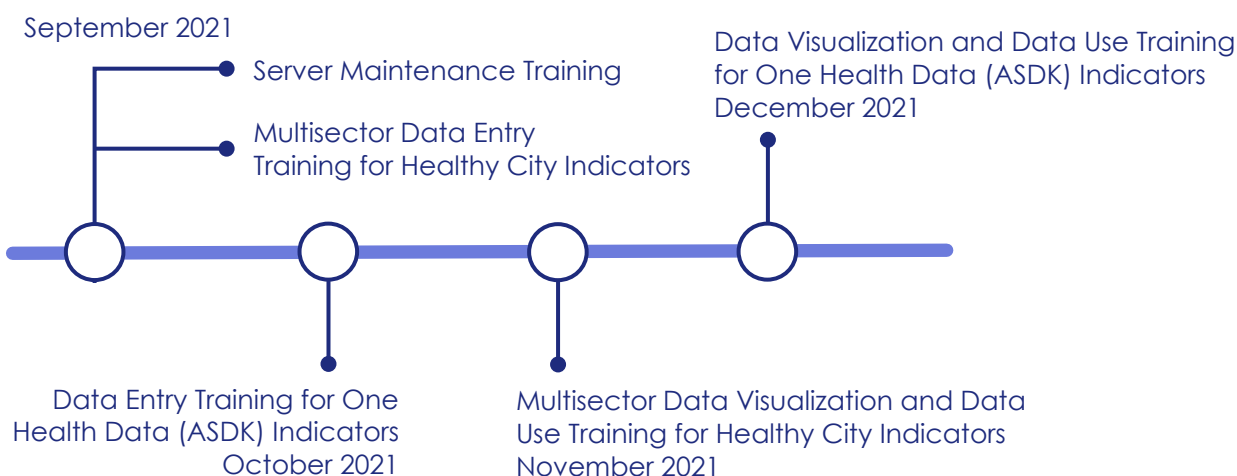
The United States Agency for International Development (USAID)-funded Building Healthy Cities (BHC) project aims to refocus city policies, planning, and services with a health equity lens while improving data-driven decision making for Smart Cities in India, Indonesia, Nepal, and Vietnam. Planning for 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.

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. This activity was accomplished in 3 phases: stakeholder engagement; data aggregation and preparation; and training and capacity building. This report summarizes the series of workshops and activities conducted as part of Phase 3: Training and Capacity Building, between September and December 2021.

Figure 1. Phase 3 Timeline, September - December 2021



WORKSHOP SUMMARIES

Server Maintenance Training

BHC, in collaboration with the University of Oslo (UiO) District Health Information Software 2 (DHIS-2) team, organized a series of trainings between September-December 2021 to improve the capacity of city officers to use the multisectoral data system for monitoring and program planning. On September 1-2, 2021, in collaboration with Kominfo, BHC and UiO conducted a DHIS-2 application server maintenance training for Kominfo officers. This training aimed to ensure the sustainability of the system, and specifically addressed any technical issues. Participants practiced how to run, install, and address potential issues related to the system. The training was conducted online, and included 15 Operation Room Officers from Kominfo.

Table 1: Agenda for Server Maintenance Training

Time	Discussion Topic	Attendees
Day 1: September 1, 2021		
09:00-09:10	Welcome Speech by Sonha Dinh Program Coordinator, IOM Eastern Region	Kominfo (15 people) BHC (5 People) UiO (3 people)
09:10-09:20	Opening by Head of Kominfo	
09:20-11:00	Session 1: Training for Installation	
11:00-13:00	Session 2: Training for Troubleshooting	
Day 2: September 2, 2021		
09:00-10:00	Session 3: Training for Server Maintenance	Kominfo (15 people) BHC (5 People) UiO (3 people)
10:00-13:00	Session 4: Practicing Installation, Troubleshooting, and Server Maintenance	

```

root@bhc01:~# sudo apt-get update
Reading state information... Done
The following additional packages will be installed:
  libaspell-0.60-2 libaspell-0.60-2-java libaspell-0.60-2-locale
Suggested packages:
  libaspell-0.60-2-doc libaspell-0.60-2-locale-all
The following NEW packages will be installed:
  libaspell-0.60-2 libaspell-0.60-2-java libaspell-0.60-2-locale
0 upgraded, 3 newly installed, 0 to remove and 0 not upgraded.
Need to get 10.1 MB of archives.
After this operation, 16.1 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://archive.ubuntu.com/ubuntu focal/main amd64 libaspell-0.60-2-java all 0.60.2-1ubuntu1 [14.37 kB]
Get:2 http://archive.ubuntu.com/ubuntu focal/main amd64 libaspell-0.60-2-java all 0.60.2-1ubuntu1 [14.37 kB]
Get:3 http://archive.ubuntu.com/ubuntu focal/main amd64 libaspell-0.60-2-locale all 0.60.2-1ubuntu1 [14.37 kB]
Fetched 10.1 MB in 1s (7,544 kB/s)
Selecting previously unselected package libaspell-0.60-2-java.
(Reading database ... 1000 files and directories currently installed.)
Preparing to unpack .../libaspell-0.60-2-java_0.60.2-1ubuntu1_10.1.deb ...
Unpacking libaspell-0.60-2-java (0.60.2-1ubuntu1) ...
Selecting previously unselected package libaspell-0.60-2-locale.
Preparing to unpack .../libaspell-0.60-2-locale_0.60.2-1ubuntu1_10.1.deb ...
Unpacking libaspell-0.60-2-locale (0.60.2-1ubuntu1) ...
Preparing to unpack .../libaspell-0.60-2_0.60.2-1ubuntu1_10.1.deb ...
Unpacking libaspell-0.60-2 (0.60.2-1ubuntu1) ...
Preparing to unpack .../libaspell-0.60-2_0.60.2-1ubuntu1_10.1.deb ...
Unpacking libaspell-0.60-2 (0.60.2-1ubuntu1) ...
Preparing to unpack .../libaspell-0.60-2_0.60.2-1ubuntu1_10.1.deb ...
Unpacking libaspell-0.60-2 (0.60.2-1ubuntu1) ...
Setting up libaspell-0.60-2-java (0.60.2-1ubuntu1) ...
Setting up libaspell-0.60-2-locale (0.60.2-1ubuntu1) ...
Setting up libaspell-0.60-2 (0.60.2-1ubuntu1) ...
Processing triggers for libc-bin (2.31-0ubuntu1) ...
root@bhc01:~# sudo apt-get install dhisp2
Reading state information... Done
The following additional packages will be installed:
  libaspell-0.60-2 libaspell-0.60-2-java libaspell-0.60-2-locale
Suggested packages:
  libaspell-0.60-2-doc libaspell-0.60-2-locale-all
The following NEW packages will be installed:
  dhisp2
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
Need to get 10.1 MB of archives.
After this operation, 16.1 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://archive.ubuntu.com/ubuntu focal/main amd64 dhisp2 amd64 0.60.2-1ubuntu1 [10.1 MB]
Fetched 10.1 MB in 1s (7,544 kB/s)
Selecting previously unselected package dhisp2.
(Reading database ... 1000 files and directories currently installed.)
Preparing to unpack .../dhisp2_0.60.2-1ubuntu1_10.1.deb ...
Unpacking dhisp2 (0.60.2-1ubuntu1) ...
Setting up dhisp2 (0.60.2-1ubuntu1) ...
Processing triggers for libc-bin (2.31-0ubuntu1) ...
root@bhc01:~#

```

Server Maintenance Training,
September 1-2, 2021.

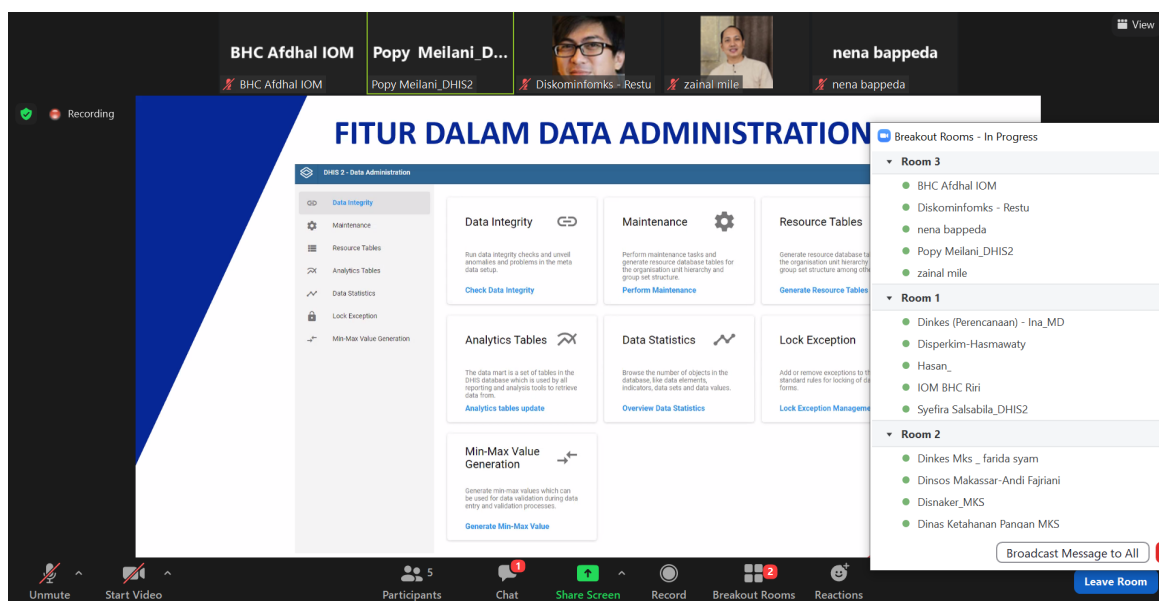
Multisector Data Entry Training for Healthy City Indicators

During Phase 2 (December 2020-August 2021) of this multisector data integration activity, BHC successfully developed and uploaded metadata to the server for all Healthy City indicators. To follow this up, BHC conducted three days of online training (September 8-10, 2021) in collaboration with Bappeda, on how to enter Healthy City indicator data into the DHIS-2 system. The training was attended by five participants from BHC, five participants representing the UiO DHIS-2 team, and 26 participants from different sectors including: Bappeda, Kominfo, housing, labor, environment, public works, health, education, social, and small enterprise. After this training, data from multiple sectors has been routinely entered into the system. To conclude the training, Bappeda announced that they would provide an official letter to encourage all sectors to routinely enter their data into the system.

Table 2. Agenda for Multisectoral Data Entry Training for Healthy City Indicators

Time	Discussion Topic	Resource Persons
Day 1: September 8, 2021		
08:30-09:00	Registration	
09:00-09:10	Welcome Speech	Sonha Dinh, Program Coordinator IOM Eastern Region
09:10-09:20	Opening	Head of Bappeda
09:20-09:30	Introduction	BHC
09:30-10:45	Session 1: Introduction of DHIS-2 - About DHIS-2 - Healthy City indicators and metadata - Questions and answers	UiO DHIS-2 team
10:45-12:00	Session 2 - Data elements (type of data, text, number, etc.) - Aggregate data	UiO DHIS-2 team
12:00-13:15	Break	
13:15-14:30	Session 3: DHIS-2 Menu - Indicators and data sets - Legends	UiO DHIS-2 team
14:30	Closing	
Day 2: September 9, 2021		
08:30-09:00	Registration	
09:00-09:30	Session 4: Review Day 1	UiO DHIS-2 team
09:30-10:30	Session 5 Login and data entry	

10:30-12:00	Session 6 Entering aggregate data	UiO DHIS-2 team
12:00-13:15	Break	
13:15-15:00	Session 7 - Menu entry - Demonstration of data entry - Practice entering data variable 1 (participants divided into 3 breakout rooms)	UiO DHIS-2 team
15:00	Closing	
Day 3: September 10, 2021		
08:30-09:00	Registration	
09:00-10:30	Session 8 - Practice entering data variable 2 (breakout rooms 1 and 2) - Specific instructions for Kominfo, Bappeda, and Health (breakout room 3) - Data administration (all breakout rooms)	UiO DHIS-2 team
10:30-12:00	Session 9 - Practice entering data variable 3 (breakout rooms 1 and 2) - Specific instructions for Kominfo, Bappeda, and Health (breakout room 3) - Data administration (all breakout rooms)	UiO DHIS-2 team
12:00-13:15	Break	
13:15-15:00	Session 10 Practice entering data variable 4	UiO DHIS-2 team
15:00	Closing	



Participants divided into three breakout rooms to practice data administration.

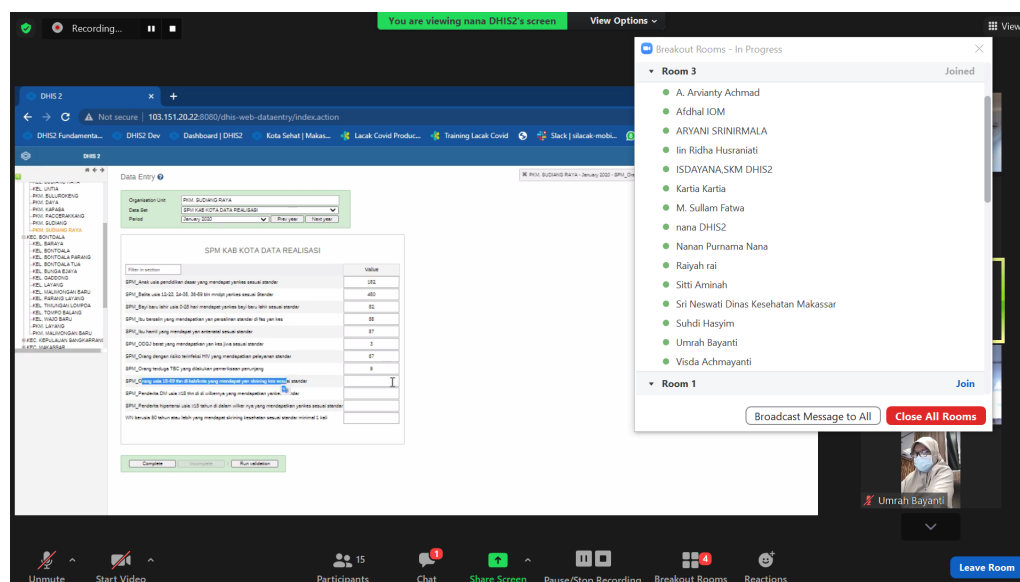
Data Entry Training for One Health Data (ASDK) Indicators

During Phase 2 (December 2020-August 2021) of this multisector data integration activity, BHC successfully developed and uploaded metadata to the server for all One Health Data (ASDK) indicators, including 12 minimum health standard (SPM) indicators. To follow this up, BHC conducted two days of online training (October 21-22, 2021) for 47 puskesmas, in collaboration with the Health Department, on how to enter ASDK data into the DHIS-2 system. The training was attended by three trainers from the UiO DHIS-2 team, four participants from BHC, 47 puskesmas officers, and 10 participants from the Health Department. After this training, data from the puskesmas has been routinely entered into the system. The costs of the training were shared between BHC, the Health Department, and the UiO DHIS-2 team.

Table 3: Agenda for Data Entry Training for One Health Data (ASDK) Indicators

Time	Discussion Topic	Resource Persons
Day 1: October 21, 2021		
08:30-09:00	Registration	
09:10-09:20	Opening	Head of Health Department
09:20-09:30	Introduction	BHC
09:30-10:20	Session 1: Introduction of DHIS-2 - About DHIS-2 - ASDK and SPM indicators and metadata - Questions and answers	UiO DHIS-2 team
10:20-11:30	Session 2 - Data elements (type of data, text, number, etc.) - Aggregate data	UiO DHIS-2 team
11:30-12:00	Session 3: DHIS-2 Menu - Indicators and data sets - Legends	UiO DHIS-2 team
12:00-12:30	Session 4 - Login and data entry - Entering aggregate data	UiO DHIS-2 team
12:30	Closing	
Day 2: October 22, 2021		
08:30-09:00	Registration	
09:00-09:30	Review Day 1	UiO DHIS-2 team
09:30-10:45	Session 5 - Menu entry - Practice entering SPM indicators 1-6 (participants divided into 3 breakout rooms)	UiO DHIS-2 team

10:45-12:00	Session 6 Practice entering SPM indicators 7-12 (participants divided into 3 breakout rooms)	UiO DHIS-2 team
12:00	Closing	



Participants divided into three breakout rooms to practice data entry.

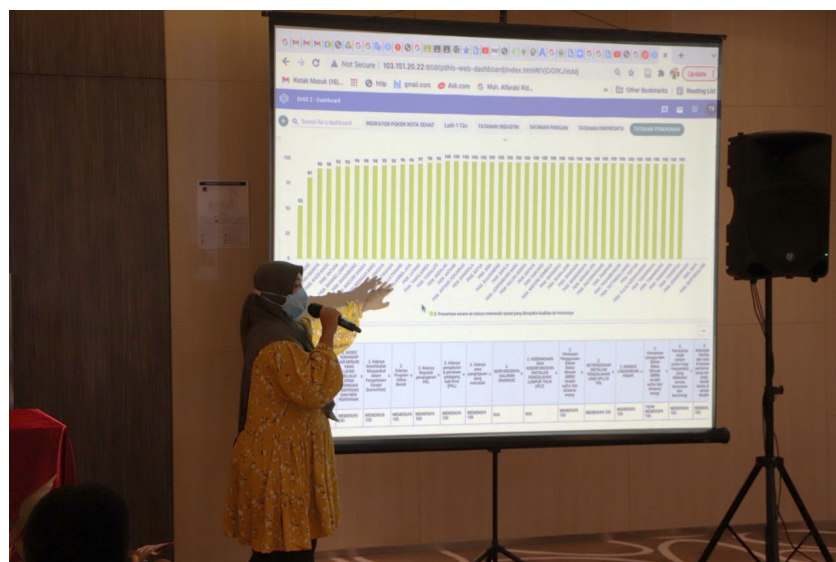
Multisector Data Visualization and Data Use Training for Healthy City Indicators

On November 4-5, 2021, BHC, in collaboration with Bappeda, conducted two days of in person training for multisector data visualization and data use. The training was attended by seven participants from BHC, three participants representing the UiO DHIS-2 team, and 26 participants from different sectors including: Bappeda, Kominfo, housing, labor, environment, public works, health, education, social, and small enterprise.

Table 4: Agenda for Multisector Data Visualization and Data Use Training for Healthy City Indicators

Time	Discussion Topic	Resource Persons
Day 1: November 4, 2021		
08:30-09:00	Registration	
09:00-09:20	Opening	Head of Bappeda
09:20-09:30	Introduction	BHC
09:30-12:00	Session 1 - Why visualization? - Visualization menus - Type, dimension, display	UiO DHIS-2 team

12:00-13:15	Break	
13:15-15:00	Session 2 • Create and customize visualization tables • Edit tables • Save menu, share, and download tables	UiO DHIS-2 team
15:00	Closing	
Day 2: November 5, 2021		
08:30-09:00	Registration	
09:00-09:30	Review Day 1	
09:30-12:00	Session 3 • Create and customize visualization graphs • Edit graphs • Save menu, share, and download graphs • Create and customize visualization maps • Edit maps • Save menu, share, and download maps	UiO DHIS-2 team
12:00-13:15	Break	
13:15-15:00	Session 4 • Create dashboard • Edit and remove dashboard • Interpretation	UiO DHIS-2 team
15:00	Closing	



Participants practiced data visualization.

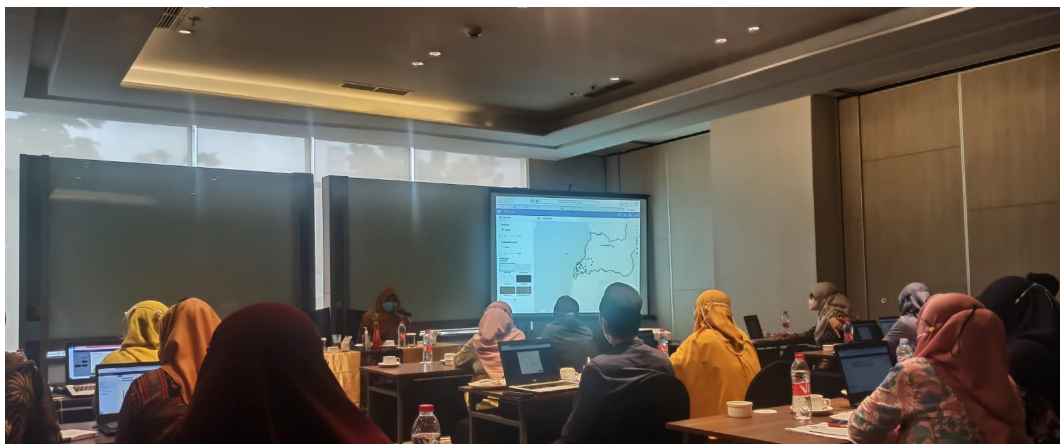
Data Visualization and Data Use Training for One Health Data (ASDK) Indicators

On December 22-23, 2021, BHC, in collaboration with the Health Department, conducted a two-day in person training for the puskesmas on ASDK and SPM data visualization and data use. The training was attended by seven participants from BHC, three participants from the UiO DHIS-2 team, six Health Department officers, and 43 puskesmas officers. Participants were divided into 3 rooms, each of which was facilitated by one Health Officer and one UiO DHIS-2 team trainer.

Table 4: Agenda for Data Visualization and Data Use Training for ASDK and SPM Indicators

Time	Discussion Topic	Resource Persons
Day 1: December 22, 2021		
08:30-09:00	Registration	
09:00-09:20	Opening	Head of Health Department
09:20-09:30	Introduction	BHC
09:30-12:00	Session 1 • Why visualization? • Visualization menus • Type, dimension, display	UiO DHIS-2 team
12:00-13:15	Break	
13:15-15:00	Session 2 • Create and customize visualization tables • Edit tables • Save menu, share, and download tables	UiO DHIS-2 team
15:00	Closing	
Day 2: December 23, 2021		
08:30-09:00	Registration	
09:00-09:30	Review Day 1	UiO DHIS-2 team
09:30-12:00	Session 3 • Create and customize visualization graphs • Edit graphs • Save menu, share, and download graphs • Create and customize visualization maps • Edit maps • Save menu, share, and download maps	
12:00-13:15	Break	

13:15-15:00	Session 4 • Create dashboard • Edit and remove dashboard • Interpretation	UiO DHIS-2 team
15:00	Closing	



Participants analyzed data using maps.

PARTICIPANTS

	Name	Organization	Server Maintenance Training	Multisector Data Entry Training for Healthy City Indicators	Data Entry Training for ASDK Indicators	Multisector Data Visualization and Data Use Training for Healthy City Indicators	Data Visualization and Data Use Training for ASDK Indicators
1.	Zainal Mille	Bappeda		X		X	
2.	Ulfah Ichwani Ahmad	Bappeda		X		X	
3.	Muh. Amri Akbar	Bappeda		X		X	
4.	Waode Nuraini	Bappeda		X			
5.	Nena Ishak	Bappeda		X		X	
6.	Hasanuddin	Bappeda		X			
7.	Moh. Sukri	Bappeda		X			
8.	A. Fajriani	DINSOS		X		X	
9.	Hasmawati	DISPERKIM		X			
10.	Poppy Meilani	UiO DHIS-2 Team	X	X		X	
11.	M. Akbal	Kominfo		X			
12.	Andi Mariani	Health Department		X			
13.	Neny Nuryani	DISNAKER		X			
14.	Farida Syam	Health Department		X			
15.	Ina Mutmainnah Dahlan	Health Department		X	X		X
16.	Dyan Ardianty	DINSOS		X			
17.	Restu Iman Bachtiar	Kominfo	X	X			
18.	Lian	UiO DHIS-2 Team	X	X			

19.	Satryanto	Bappeda		X		X	
20.	Ratnasari	UiO		X	X		X
21.	Suhartini	UiO		X	X	X	X
22.	Muh. Nurul ma'ruf	Dinas Lingkungan Hidup		X			
23.	Arga Praditya Putra	Dinas Koperasi & UMKM		X			
24.	Zulfidah	Dinas Ketenagakerjaan		X			
25.	Fajri	Dinas Ketenagakerjaan		X			
26.	Iqbal Abadi	Health Department		X	X	X	X
27.	Yuliana Eka	Puskesmas Tabaringan			X		X
28.	Asnidar	Puskesmas Barrang Lompo			X		X
29.	Nurpratiwi	Puskesmas P. Kodingareng			X		X
30.	Irawati	Puskesmas Jumpandang Baru			X		X
31.	Andi Batari	Puskesmas Rapokalling			X		X
32.	Martini	Puskesmas Kaluku Bododa			X		X
33.	St. Aminah	Puskesmas Layang			X		X
34.	Mujidah	Puskesmas Malimongan Baru			X		X
35.	Suryadi	Puskesmas Antara			X		X
36.	Irma Afriyanti	Puskesmas Andalas			X		X
37.	Syachrah	Puskesmas Maccini Sawah			X		X
38.	Andi. Avrianty A	Puskesmas Mamajang			X		X
39.	Rahmawati	Puskesmas Cendarawasih			X		X
40.	Ilham	Puskesmas Dahlia			X		X

41.	Risma	Puskesmas Pertiwi			X		X
42.	Suhdi Hasyim	Puskesmas Panambungan			X		X
43.	Ery Rahmawaty	Puskesmas Jongaya			X		X
44.	Raiyah	Puskesmas Barombong			X		X
45.	Kartia	Puskesmas Kassi-Kassi			X		X
46.	Aryani Srinirmala	Puskesmas Minasa Upa			X		X
47.	Irmawati	Puskesmas Mangasa			X		X
48.	Nanan Purnama	Puskesmas Balla Parang			X		X
49.	Umrah	Puskesmas Batua			X		X
50.	Agnes Ratih	Puskesmas Pampang			X		X
51.	Marthina Lili	Puskesmas Karuwisi			X		X
52.	M.sullam	Puskesmas Antang			X		X
53.	Ni Nyoman	Puskesmas Antang Perumnas			X		X
54.	Isdayana	Puskesmas Tamangapa			X		X
55.	Megawati	Puskesmas Bangkala			X		X
56.	Iin Ridha	Puskesmas Bulurokeng			X		X
57.	Fatima Pailu	Puskesma Sudiang Raya			X		X
58.	Wahida	Puskesmas Paccerakkang			X		X
59.	Rina S	Puskesmas Tamalanrea			X		X
60.	Fatmawati	Puskesmas Tamalanrea Jaya			X		X
61.	Shandra	Puskesmas Bira			X		X
62.	Hj. Irma	Puskesmas Kapasa			X		
63.	Noviana Eka Pasa	Puskesmas Tamamaung			X		
64.	Visda Achmayanti	Puskesmas Jumpandang Baru			X		

65.	Fatmawati	Puskesmas Maccini Sombala			X		
66.	Hamzah	Puskesmas Sudiang			X		
67.	Muhtar Rajab	Puskesmas Bara-Baraya			X		
68.	Roslina	Puskesmas Daya			X		
69.	Nuraida	Puskesmas Tamalate			X		
70.	Hasni	Puskesmas Maradekaya			X		
71.	Aarmi Purnamasari	Puskesmas Sudiang			X		
72.	Suryadi HS Rahim	Puskesmas Todopuli			X		
73.	St. Aminah	Puskesmas Pattingalloang			X		
74.	Irsal	Health Department			X		
75.	Muh. Nashrullah Ilham	Health Department			X		
76.	Andi Husmiati	Health Department			X		
77.	Hasnawati	Health Department			X		
78.	St. Fatimah	Bappeda				X	
79.	Son Ha Dinh	IOM	X	X		X	X
80.	Syefira Salsabila	UiO	X	X	X	X	X
81.	Yamlikh Azikin	Kominfo	X			X	
82.	Sulfiani Karim	Kominfo				X	
83.	Hasmawati	DPU Kota Makassar				X	
84.	Ayub Kusumaningrum	IOM	X	X	X	X	X
85.	Andi Alam	IOM	X	X	X	X	X
86.	Muh. Haykal	IOM				X	X
87.	Muh Afdhal	IOM	X	X	X	X	X
88.	Kezia Dwi Wiranggani	IOM				X	X

89.	Achmad Yani	Health Department			X	X	
90.	Ahmad Isa	IOM	X	X	X	X	X
91.	Faried	DInas Koperasi & UMKM				X	
92.	St. Farida	Health Department				X	
93.	Muhammad Yusuf	Dinas Ketahanan Pangan				X	
94.	Ismitasari Takbir	Kominfo				X	
95.	Fajar Ariansyah	Kominfo				X	
96.	Andi Baso Toto	DInas Ketahanan Pangan				X	
97.	Nurhan	Dinas Pendidikan				X	
98.	Fajar Istiqmah	DInas Pehubungan				X	
99.	Rahman	Dinas Pendidikan				X	
100.	Alder	Dinas Koperasi & UMKM				X	
101.	Gusriyani H	Health Department				X	
102.	Helmy Budiman	Bappeda				X	
103.	St. Musafira nisa	Bappeda				X	
104.	Sri Neswati Risamin	Health Department			X		X
105.	Dr. Nursaidah	Health Department			X		X
106.	Diyah Fajarwati	Health Department			X		X
107.	Dr. Hj. Irma Haddadde	Health Department					X
108.	Faradiba	Puskesmas Bara-Baraya					X
109.	Drg. Sitti Hamsiah	Puskesmas Tamalate					X
110.	Faizal M	Puskesmas Makassar					X
111.	Rina Kasrni	Puskesmas Todopuli					X
112.	Hayyidin	Puskesmas Tamamaung					X
113.	Nenni Yuliati	Puskesmas Sudiang					X

114.	Mutmainnah	Puskesmas Daya					X
115.	Muh. Irwan	Puskesmas Tarakan					X
116.	Denny Hidayat	Kominfo	X				
117.	Muh. Ode Dwi Setyo	Kominfo	X				
118.	Almusahwir	Kominfo	X				
119.	Fikri Haekal Wardhana	Kominfo	X				
120.	Reski Susrini	Kominfo	X				
121.	A. Qadri Rum	Kominfo	X				
122.	Muhammad Alfiyan Loleh	Kominfo	X				
123.	Muh. Ismail Ilyas	Kominfo	X				
124.	Muhtar	Kominfo	X				
125.	Agriani Gobel	Kominfo	X				
126.	Saiful Rozaq	Kominfo	X				
127.	Andi Jayanti Oktaviani	Kominfo	X				
128.	Muhammad Fashli, S.KOM.	Kominfo	X				

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BUILDING HEALTHY CITIES

