



Global Digital
Development Forum

Online Worldwide - May 9, 2021

Putting Data in Indonesia Health Workers' Pockets to Support COVID-19 Response



*Please type
into the chat
how you greet
your neighbors
at this hour of
the day!*



Discussants



**dr. Trisa
Wahjuni
Putri**

Ministry of
Health,
Indonesia



**dr. Mawari
Edy**

Ministry of
Health,
Indonesia



**Timor
Utama**

Ministry of
Health,
Indonesia



**Aditya Bayu
Sasmita**

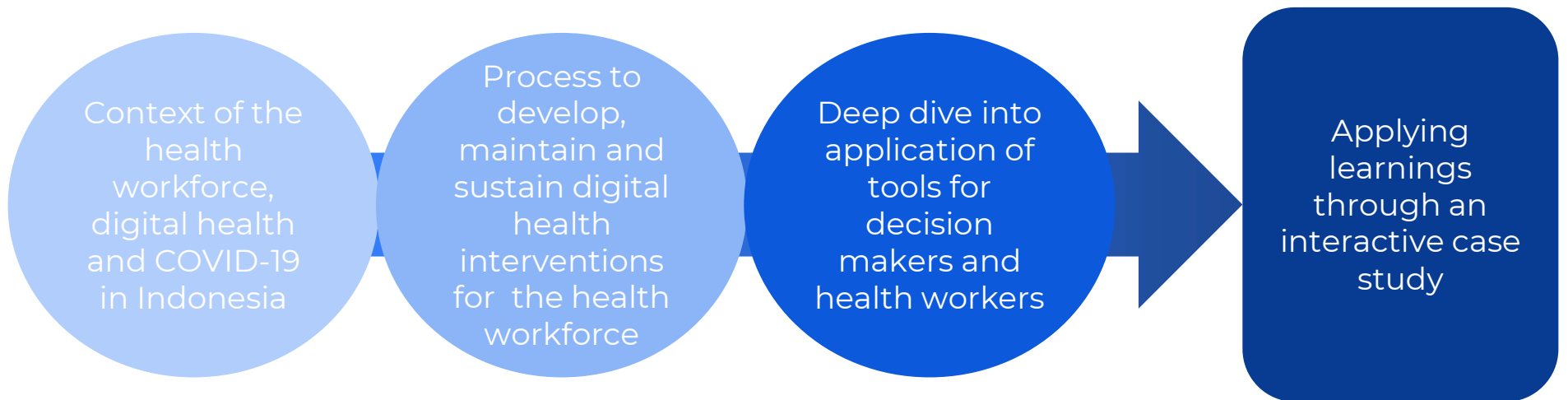
Ministry of
Health,
Indonesia



**Taufiq
Sitompul**

HRH2030
Program /
Chemomics

● What are we going to learn today?

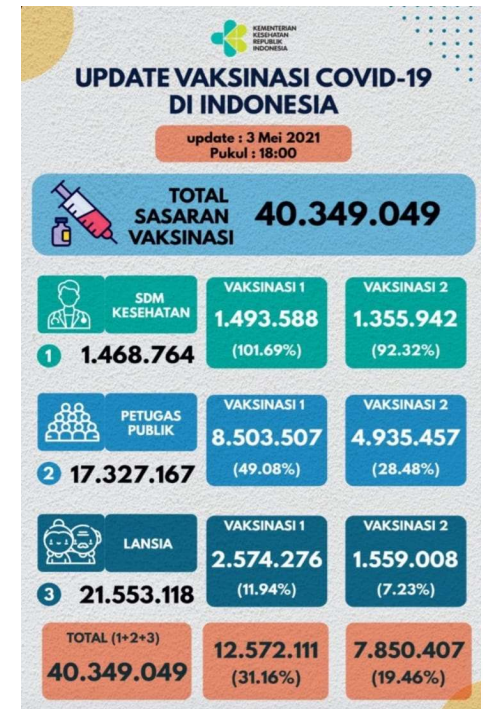
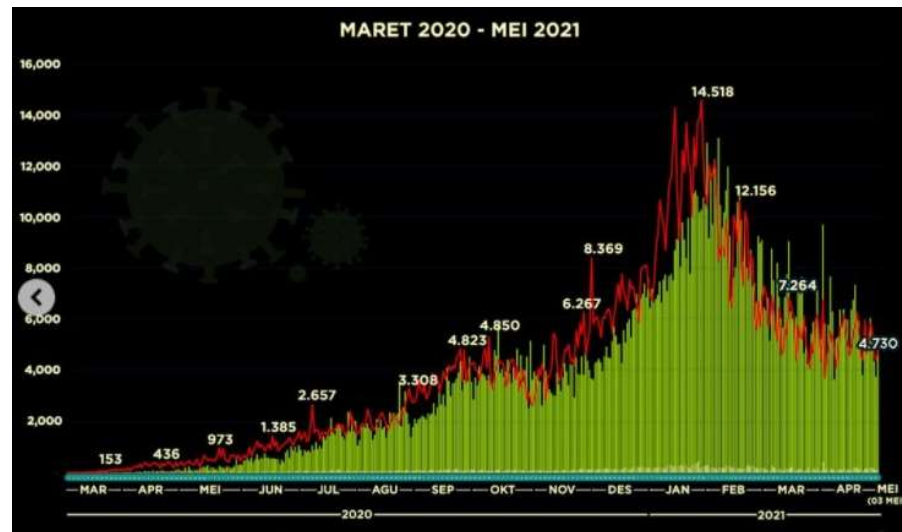
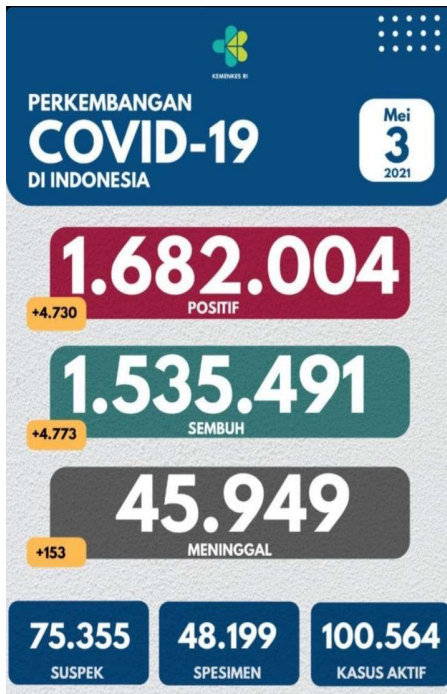


The context: Digital Health to Support the Health Workforce during COVID-19

Dr. Trisa Wahjuni Putri



COVID-19 in Indonesia

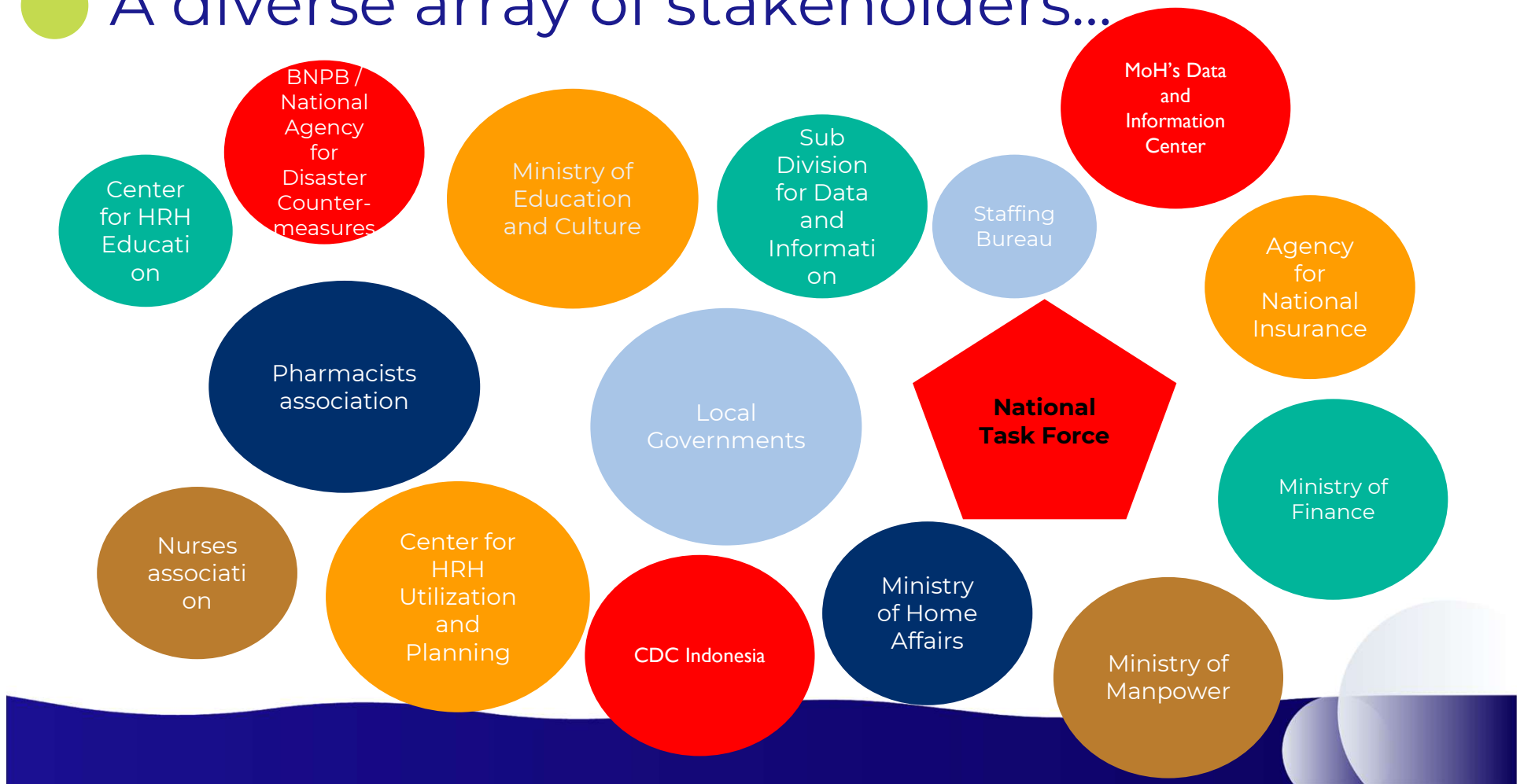


● Indonesia's Health Workforce

- **1.2 million health workers**
- 2,923 Hospitals
- 10,300 Primary health centers
- 85,000 Clinics
- 38 MoH Health Vocational Schools
- Other Facilities



● A diverse array of stakeholders...



● ...and information systems

HRIS (SI-SDMK)	MIS for Indonesia Doctors	Nusantara Sehat	Foreign Workers Permit Application		Job Exchange IS
Resident Assignment IS	Mandatory Medical Specialist Duty IS	Distance Education IS	Application of the Internal Quality Assurance System of the Ministry of Health Polytechnic	Online Learning System	Laboratory Equipment Data Collection IS
New Student Admission Selection IS	Training Needs Information System	Distance Training IS	PPDS / PPDSG Registration Application	Learning Task Registration IS	<i>Jabfung Development Information System Application</i>
<i>Health Worker Registration Information System Application (STR Online)</i>	Training Accreditation IS	Functional Application IS	HW COVID-19 Incentive Application	HW COVID- 19 Vaccination Application

- While this complex environment has challenges, there is an enabling policy environment

HRH Challenges

- HRH Maldistribution and mal-alignment in production and utilization of HRH
- Lack of coordination from diverse roles and responsibilities within HRH stakeholders
- Increased workload with limited additional resources
- Maintaining motivation and good mental health

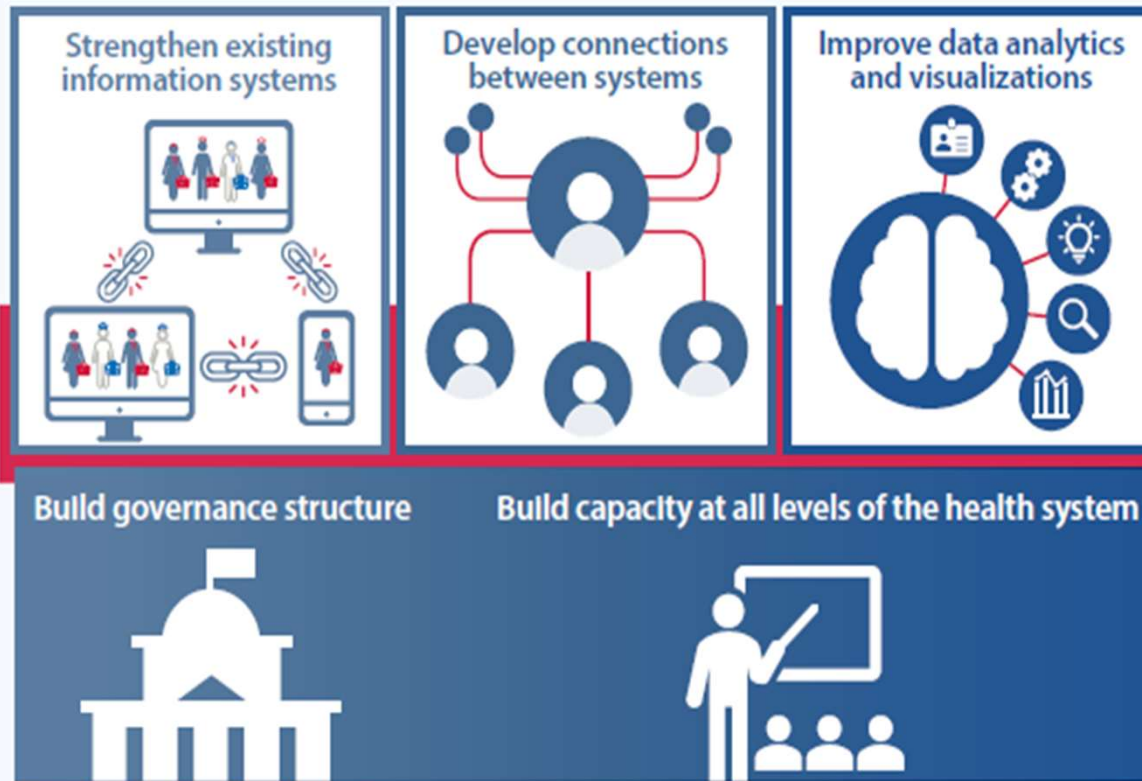
HRH Data Challenges

- Issues with completeness and updated data to better manage the workforce understand skills mix distribution
- Lacking integration/interoperability of information systems
- Lacking integration of data on workload
- Poor presentation, analysis and reporting

Enabling Policy Environment

- Mid-Term National Development Plan (2020-2024): focus on **HRH strengthening**
- Government Regulation No 46/2014 on **Health Information Systems**
- Presidential Decree on **One Data** focusing on ensuring data is accurate, up to date, integrated, shared and sustained

Overview of our approach



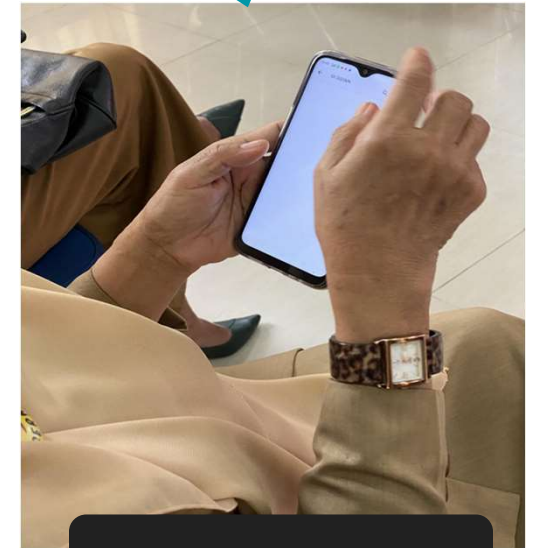
**Increase in use
of data by
stakeholders to
support the
health workforce**

Real time decision making to support health workers

Decision Makers



Empowering decision makers and health workers with data using digital technologies was key to ensuring COVID-19 rapid response and maintaining essential services.



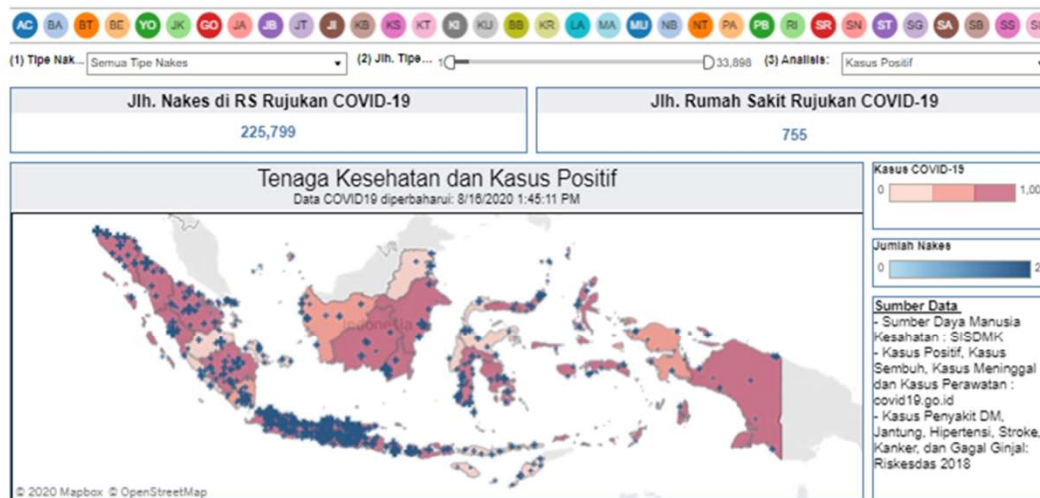
Health Workers

Ability to own data to improve quality of data



Impact on Health Workers

National health workforce and COVID-19 dashboards



Vaccination program reaching 1.4 million+ of health workers



Incentive program reaching 303,000+ of health workers

Terima Kasih





The approach: Operationalizing digital health interventions for the health workforce

Dr. Mawari Edy &
Taufiq Sitompul

Q1: What approaches did you take to develop digital health interventions for the health workforce?

Q2: How did you engage stakeholders such as decision makers and health workers?

Q3: Do you have any advice for our participants? What should they know from your experience?

Terima Kasih



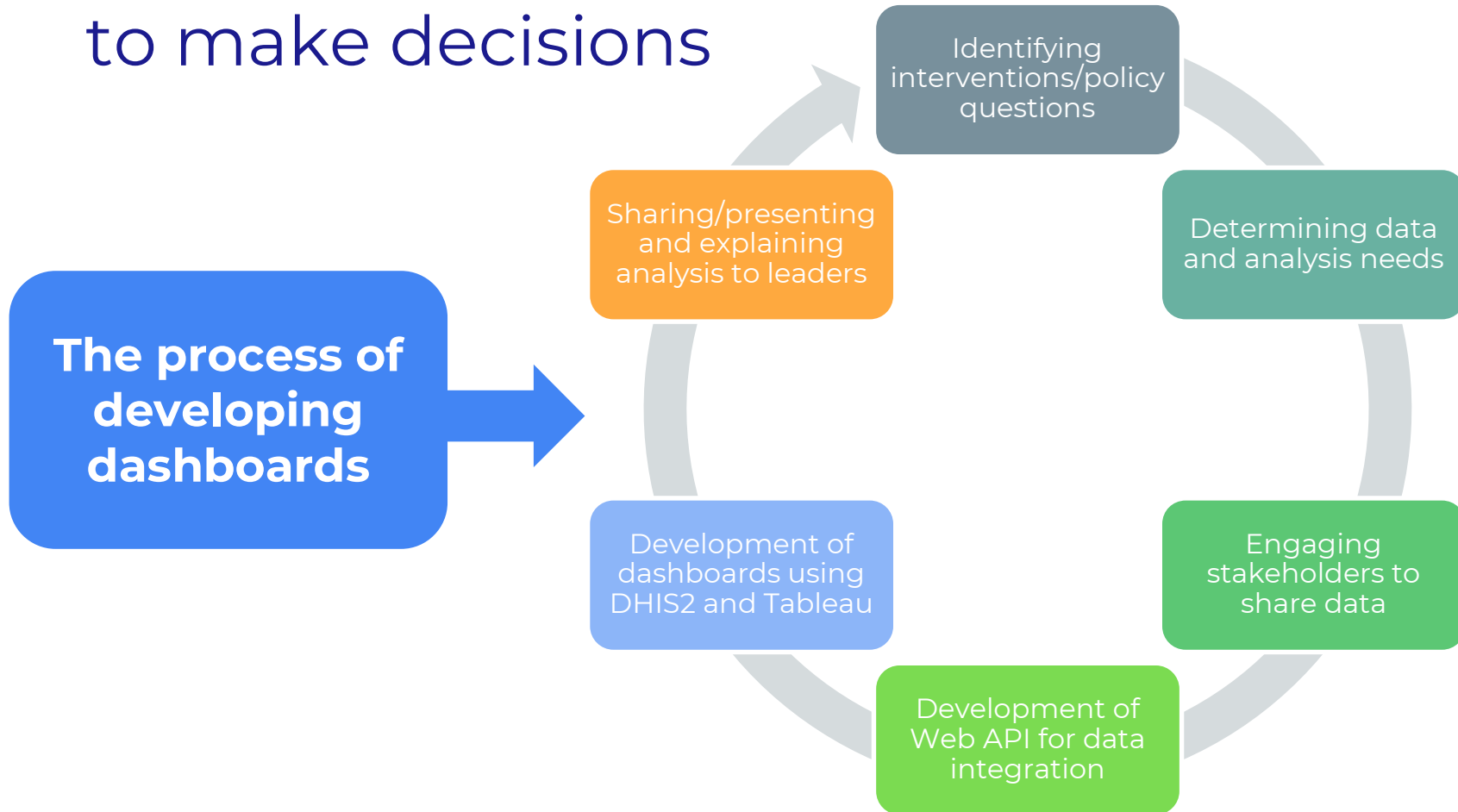
Deep Dive #1

Engaging Decisions Makers: HRH Dashboards for COVID-19 Response

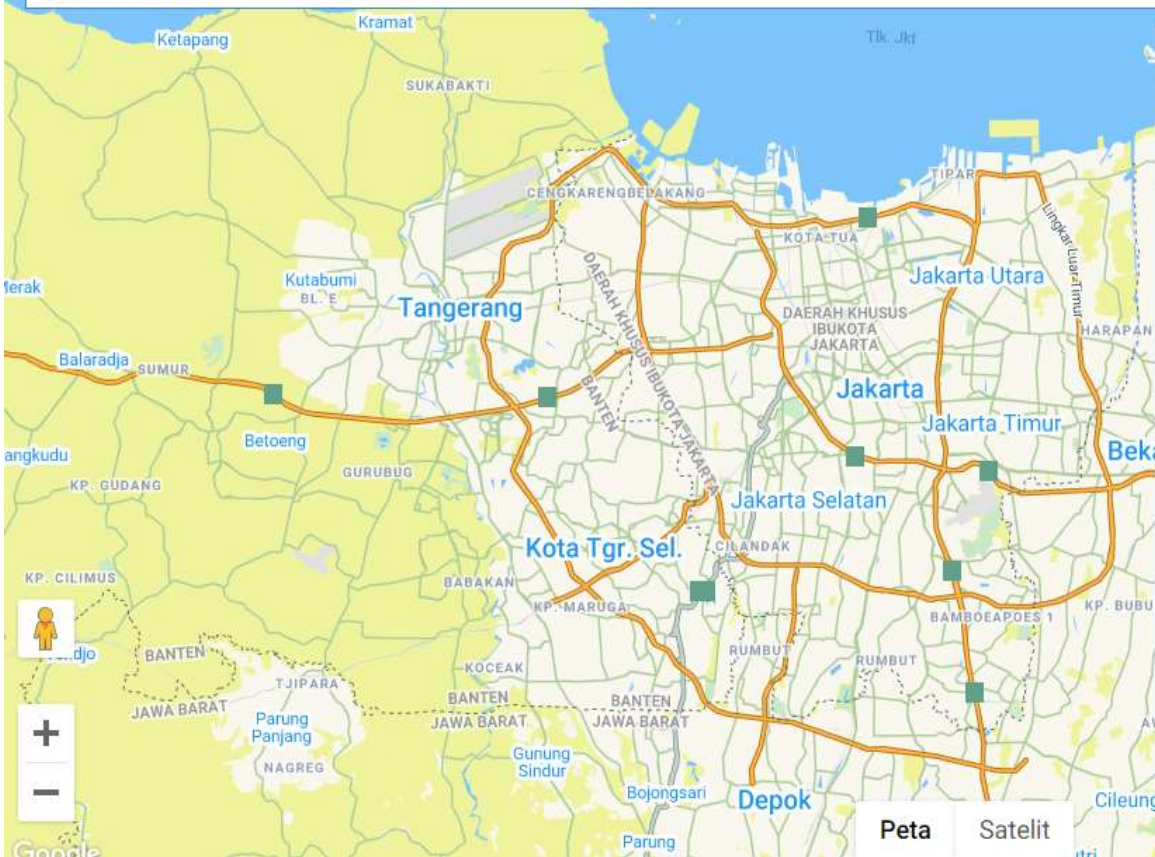
Aditya Bayu Sasmita



● Getting stakeholders the data they need to make decisions



Dashboard Demo



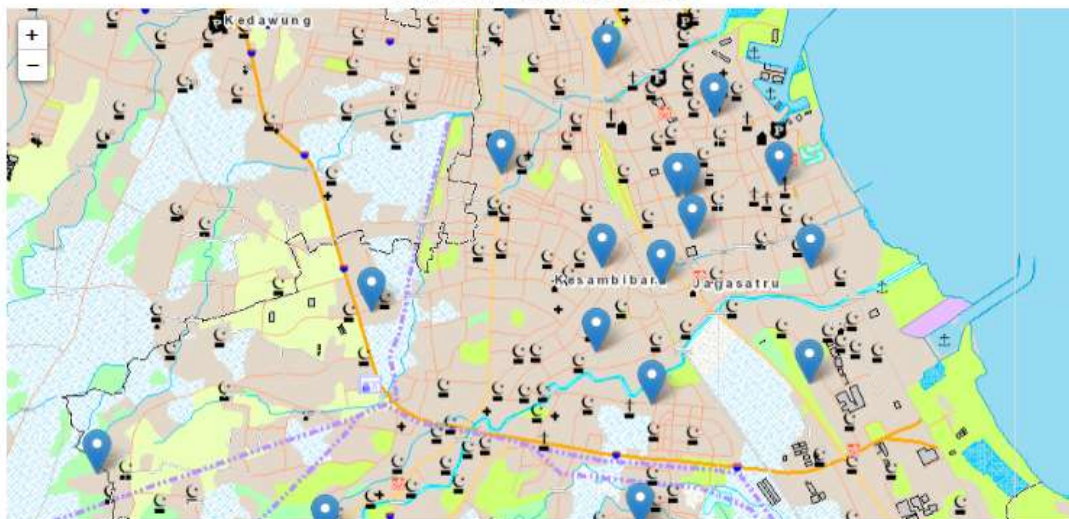
- BUMD Provinsi DKI Jakarta
- CCTV Online
- Dinas Bina Marga
- Dinas Ketahanan Pangan, Kelautan dan Pertanian
- Dinas Kependudukan & Catatan Sipil
- Dinas Kesehatan
 - Rumah Sakit Umum (0)
 - Rumah Sakit Khusus (0)
 - Puskesmas (0)
 - RS Rujukan COVID-19/Tenaga Kesehatan (0)
 - Program Ketuk Pintu Layani Dengan Hati
 - 10 Penyakit Terbesar
 - Sistem Penjadwalan Rujukan Online
 - Lokasi Ambulans
 - Surveilans Penyakit
 - Campak(0)
 - TBC(0)

● What are we going to learn today?

DATA KESEHATAN

Data yang ditampilkan dihalaman ini merupakan kerjasama antara Dinas Kesehatan Kota Cirebon, Dinas Komunikasi Informatika dan Statistik Kota Cirebon dan BPSDMK Kementerian Kesehatan Republik Indonesia sebagai Sumber Data melalui Metode Berbagi Pakai Data.

PETA PKM KOTA CIREBON





HRH Indonesia's Data Warehouse
HRH Indonesia's Data
Warehouse



Sign in

adithctu2009

Login using two factor authentication

Sign in

Forgot password?

HRH Indonesia's Data Warehouse

<http://sisdmk.kemkes.go.id:8104/dhis-web-commons-security/login.action>

+ Add layer

[dr Umum]
2019

- 1 - 9.33 (46)
- 9.33 - 17.67 (5)
- 17.67 - 26 (3)

Facilities

Rumah Sakit

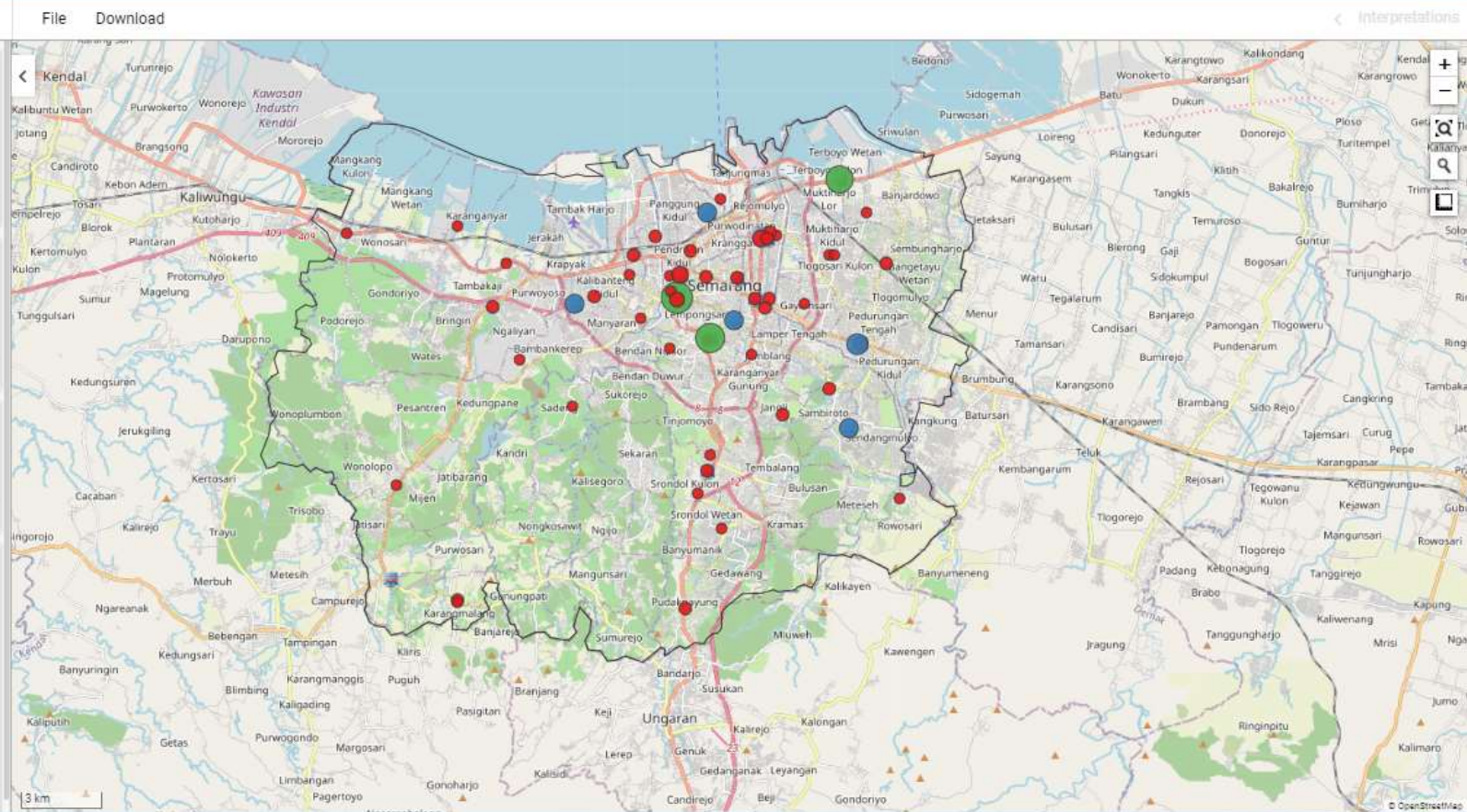
- FASKES : Rumah Sakit

Boundaries

- Kab/Kota

OSM Detailed Basemap

- OSM Light
- OSM Detailed
- Google Streets
- Google Hybrid



Terima Kasih



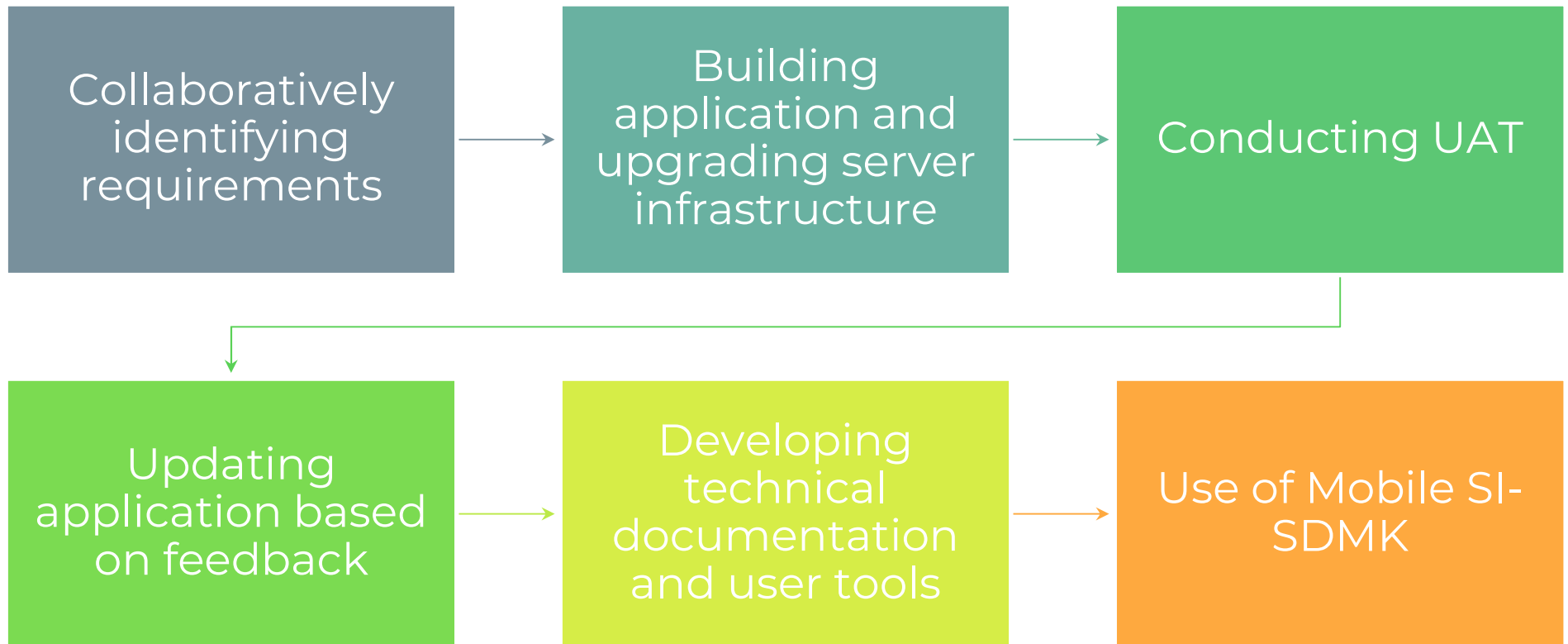


Deep Dive #2

Supporting Health Workers: HRIS Mobile Application

Timor Utama

- Empowering health workers to manage their data and developing a direct line of communication



M-SISDMK Demo

Terima Kasih



Time for Case Study!

Fourteen months after the first case of COVID-19 in the Durian Republic, **cases are continuing to rise** again though **COVID-19 vaccination is underway** for health workers and elderly people. Health facilities are being **overwhelmed** with COVID-19 patients and between COVID-19 testing, and vaccination efforts, **essential services such as antenatal care are not being offered regularly**. In addition, there is a **clear burn out among health workers**, many of whom have been on the front lines since the beginning of the pandemic.

We need to **provide the Durian Republic with advice on how to use data and evidence to make decisions and take action to support the health workforce to maintain essential services while managing COVID-19 response.**



Question 1

What data does the Durian Republic need to support health workers to maintain essential services during COVID-19 response?

(select one)

- a. Data from the human resource information system on the location, type and educational background of health workers per facility throughout the country.
- b. Data from health workers on their level of motivation and burn out collected via a survey from the mobile app.
- c. Data from the central MOH health management information system on COVID-19 cases and other essential services throughout the country.
- d. Other- explain more in the discussion forum!

Question 2

What data analysis does the Durian Republic need to conduct to better understand how to take action?

(select one)

- a. Dashboards that include maps of health workers by type and education background as compared to population to understand health worker density to population.
- b. Charts that demonstrate trends in health worker motivation and burn out by location as compared to COVID-19 cases to understand impact of COVID-19 on health workers mental health.
- c. Line graphs on historical trends comparing COVID-19 cases and other essential services by region to understand population health needs.
- d. Other- explain more in the discussion forum!

Question 3

How should the Durian Republic use the data to take action to support the health workforce to maintain essential services in COVID-19 response?

(select one)

- a. Work with local governments to rapidly redistribute the health workers using maps on health worker density to population to optimize COVID-19 response and essential services workload.
- b. Deploy volunteers and enact incentive programs to provide health workers with workload support and motivation in provision of COVID-19 and essential services.
- c. Develop a long term strategic health workforce plan that sets staffing standards based on population health trends per region.
- d. Other- explain more in the discussion forum!



Any Questions?



Thank you ! Terima Kasih !

