









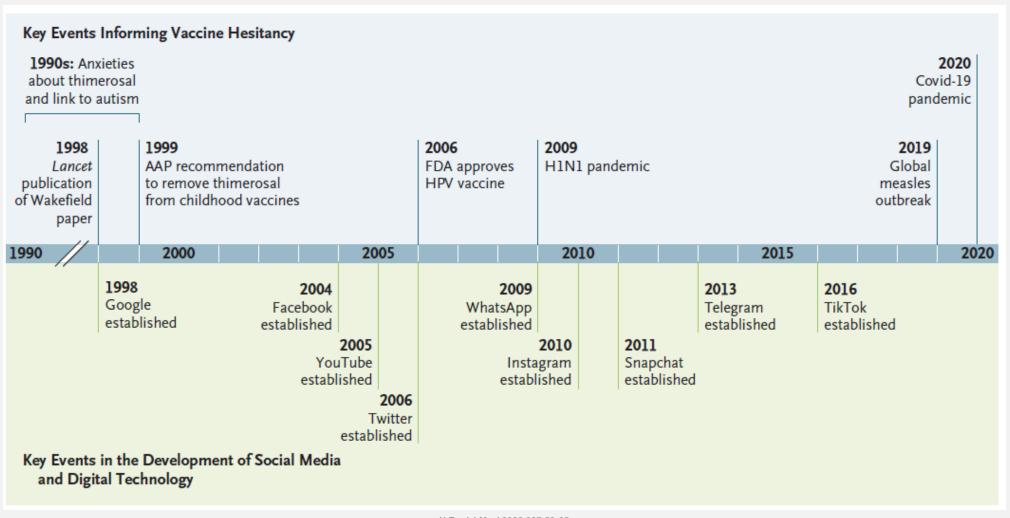


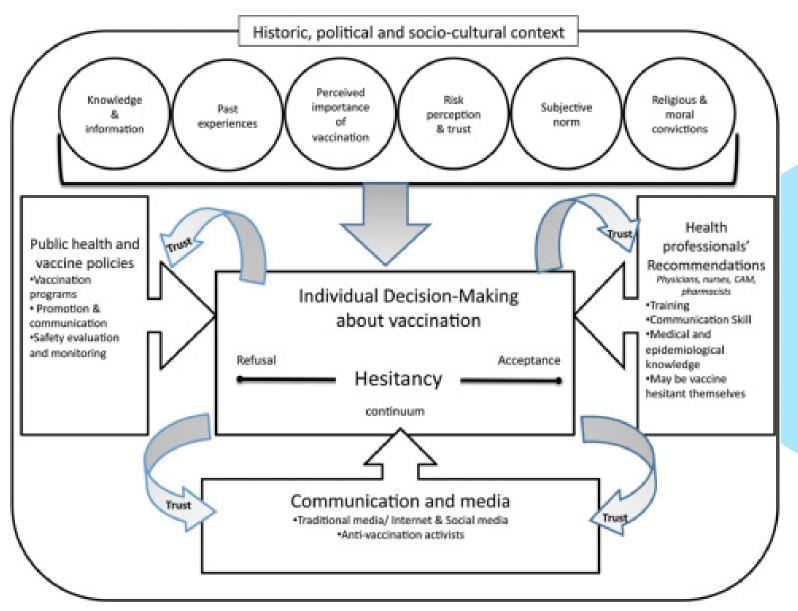


DIRGA SAKTI RAMBE

@DIRGARAMBE

Key Events Prompting Vaccine Hesitancy& The Expansion of Social Media





Increasingly Complex Decision-making Criteria



Indonesia is the world's largest archipelago and is composed of approximately 17,000 islands lying along the equator







Rupiah (IDR) 1\$ = 14,982p



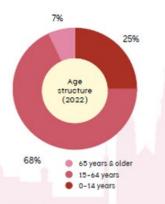






Islam

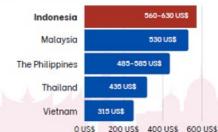
59.1% of urban population





US\$ 4,798 (2022)





Fundamental challenges in immunization program:



Geographic dispersion

infrastructure, cold-chain, accessibility



Demographic diversity

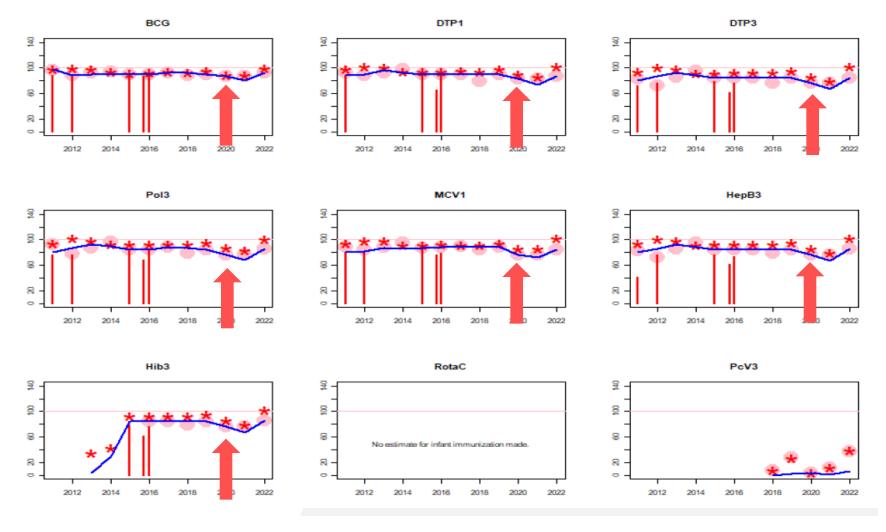
vaccine supply, awareness

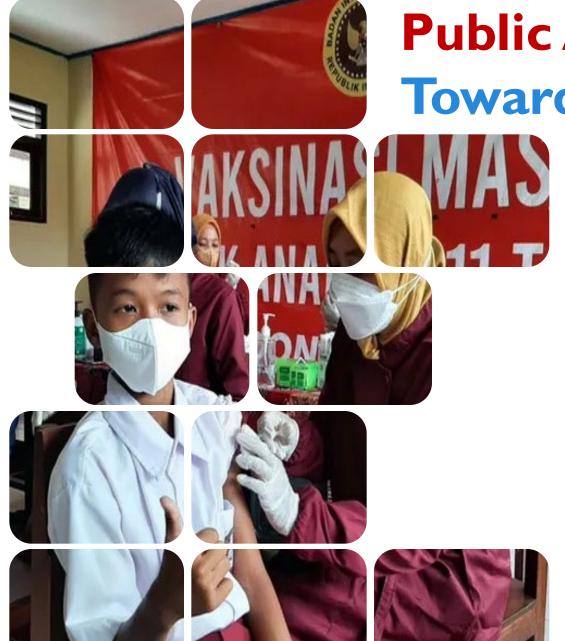


Religious & cultural beliefs

halal/haram

Immunization Coverage: Before, **During &** Post-**Pandemic**





Public Attitudes & Expectation Towards Covid-19 Vaccination

- National survey (September 2020) → 65% accept;
 28% hesitant; 7% refuse
- Early in 2021, many people were pessimistic about Indonesia's ability to achieve vaccination target
- ➤ Given the country's faltering public health management in the early days of the pandemic, many experts doubted that we would be able to vaccinate in tight timeline
- A year later, those assumptions were proven wrong...

Covid-19 Vaccination Program in Indonesia





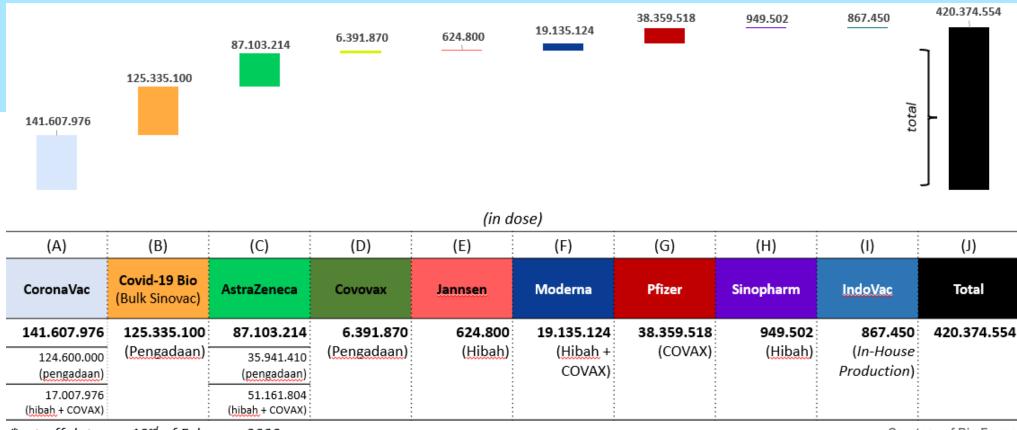
Kick off in January 2021

13 approved vaccines:

Sinovac, Pfizer, Moderna, Astra-Zeneca, Novavax, Zivifax, Walvax, CanSino, Sinopharm, Janssen, Sputnik V, Indovac, Inavac

- Free for everyone (aged >6 y.o.) → 2 primary + 2 booster doses
- Achieved high coverage for the first two of vaccine doses
- Declining interest in vaccination → low booster dose coverage

Bio Farma Has Distributed More Than 400 Million Doses to All Regions in Indonesia



^{*}cut-off data per 13rd of February 2023

DIGITAL TRANSFORMATION

OF VACCINE DISTRIBUTION & MONITORING/EVALUATION SYSTEM



01 Digitalization

Digitalization Vaccine distribution process

© February 2023 | Biofarma Group | Confidential & Proprietary



02 Real-time distribution monitoring

Displaying Realtime monitoring vaccine distribution

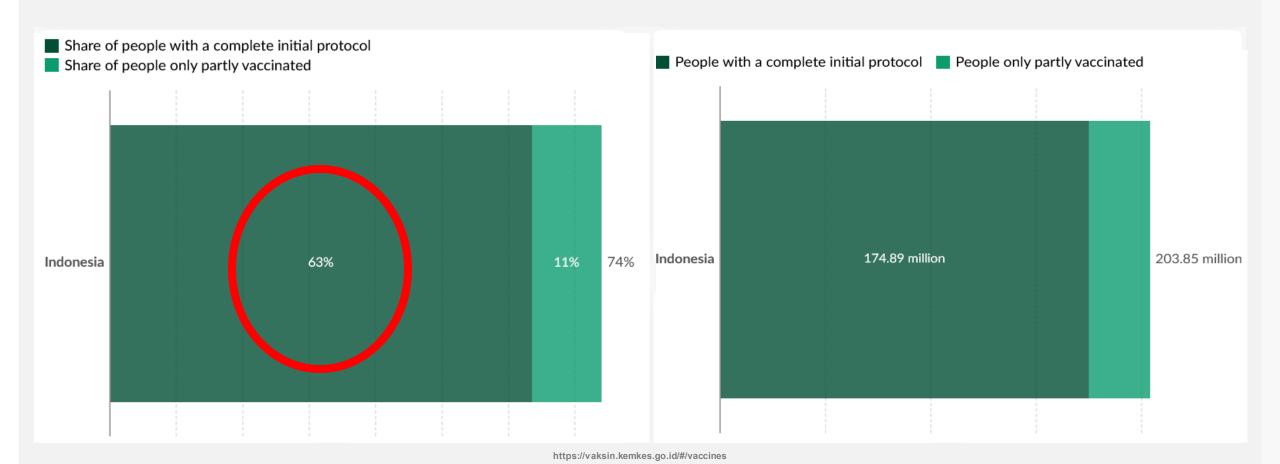


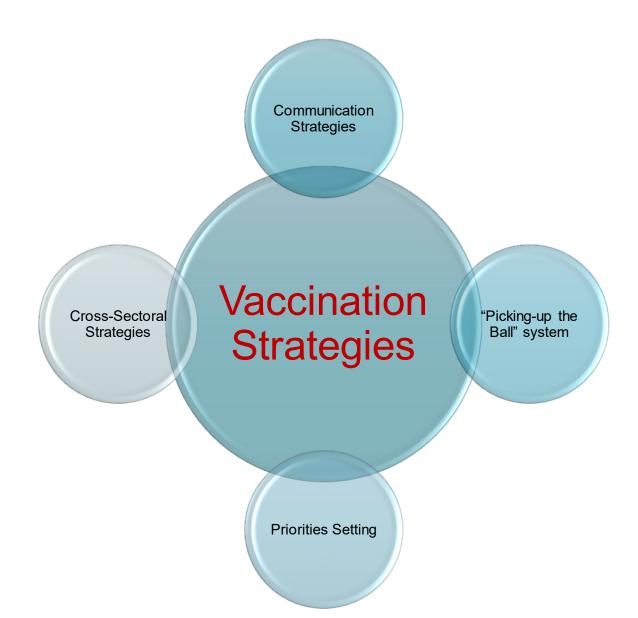
03 Monitoring & Evaluation

To Improve accuracy for monitoring and evaluating vaccine distribution

COVID-19 VACCINATION COVERAGE

PER 22ND OCT 2023





COMMUNICATION

evidence-based, cultural-based, e-communication

CROSS SECTORAL

coordinated by special body (KPCPEN), digitalization

"PICKING UP THE BALL"

the use of existing primary health centers, home visit, school

SETTING-UP PRIORITIES

mandatory vs optional vaccination, vaccine availability, population target, distribution



PRESIDENT JOKOWI GETS SINOVAC SHOT TO KICK OFF MASS COVID-19 VACCINATION

(13TH JANUARY 2021)

Mandatory vaccinations (2 first doses + 1 booster) for citizens as required by law

At the beginning, vaccination rate was **LOW**



If you are not fully vaccinated, you are not allowed to go to:

(1) shopping malls

(2) public transportation

(3) "homecoming" (annual 'mudik' tradition during Idul Fitri)



Vaccination rate speeding up

Mandatory Vaccination: Legal, Justified & **Effective?**

2

Perception of

"Chinese Vaccine": The Case of Sinovac

- The first country outside China to issue EUA for Sinovac (CoronaVac) vaccine
- ➤ "Vaccine diplomacy" → Government's policy to secure million doses of Sinovac is the part of successful management of Covid-19
- Indonesia: The biggest user of Sinovac (>250 mio doses)
- First few months: Sinovac was the only vaccine available
- ➤ Effectiveness was questioned → studies: still effective to prevent severe cases
- ➤ When the other vaccines (esp. mRNA vaccines) available → more people doubted it

- Indonesia: world's largest moslem population
- Halal/Haram issue always causes significant influences on immunization programs
- One of the main factors contributing to vaccine hesitancy in Indonesia

- ➤ Halal law → also applied to vaccine
- Not all Covid-19 vaccines are halal-certified

- ➤ Indonesian Ulama Council: In emergency situation → not halalcertified vaccines are permissible
- Educative persuasion involving religious leaders (+ scientists)

Halal/Haram Status of Covid-19 Vaccines

GOVERNMENT **Policy** change function **PUBLIC EXPERT** information Voice of the lifeworld Voice of the medicine uncertainty explanation

Yudarwati et al., Cogent Social Sciences (2023), 9: 2221594

4 Government Communication Strategies

- ➤ Effective communication strategy is the key of vaccine acceptance → should emphasize importance, risk & benefit of vaccination
- Science-based Vs Fear-based communication
- Problems: low trust in government, hoax in social media, low literacy, heterogeneous society
- Extensive collaborative efforts to combat misinformation/disinformation
- Communication channels: spokesperson, official website, social media



Community Collaboration Vaccination Model in Bali

- ➤ Bali: Main tourism destination; highest deaths at beginning of pandemic
- Accelerated vaccination program (part of integrative approach) for "Bali Reborn" initiative
- ➤ Target: 100% coverage in priority areas → re-opening tourism
- ➤ Approach: Village-based vaccination (involving local community leaders)
- > Target successfully surpassed

LESSONS LEARNED

- Effective vaccination program requires a robust health system, resilient communities & effective risk communication strategies
- 2. "The best vaccine is the vaccine in your arm"
- 3. Vaccine acceptance is influenced by many individual, social & structural determinants
- 4. Countering vaccine hesitancy (as a major global public health threat) requires multifaceted approaches & should reflect the local context

