



ABOITIZ
SCHOOL OF INNOVATION,
TECHNOLOGY, & ENTREPRENEURSHIP

Uncovering a Populist Government

Identifying PH Government's response to Covid-19 using
Clustering Analysis of Pres. Duterte's Weekly Program

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Source: Google Images

Longest in the world!¹

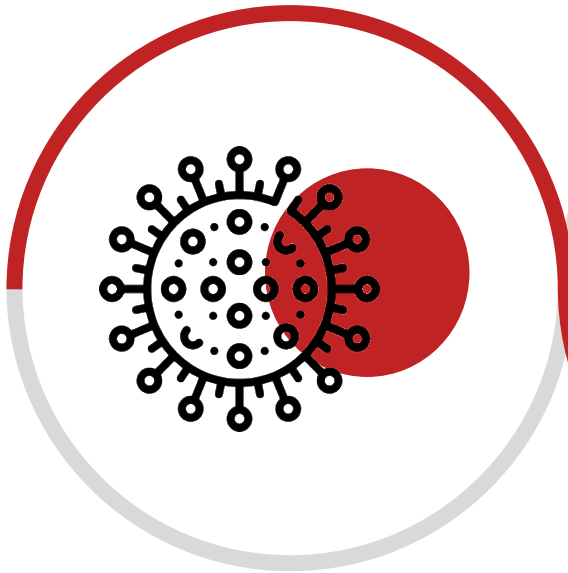
156

days
in quarantine

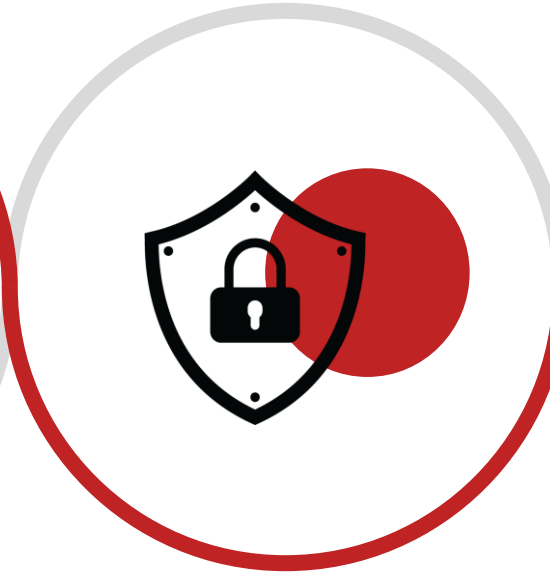
¹Castaneda, J. (2020) *Why Duterte won't lift world's longest lockdown*. Retrieved from:

² <https://asiatimes.com/2020/05/why-duterte-wont-lift-worlds-longest-lockdown/>

COVID-19 has caught all nations by surprise causing a global catastrophe



SARS-CoV-2 was discovered in Wuhan, China in November 2019¹



Resulted into a pandemic that forced countries in **lockdown**



The **global economy**² will shrink by 5.2% with per capita incomes expected to decline by 3.6%

Icons were obtained from flaticon.com

¹ Bryner, J. (2020). 1st known case of coronavirus traced back to November in China. Live Science. Accessed 17 August 2020. Retrieved from: <https://www.livescience.com/first-case-coronavirus-found.html>

² Dela Cruz, E., Morales, N. (2020) Philippines suffers first recession in 29 years braces from grim year on virus woes. Retrieved from <https://www.reuters.com/article/us-philippines-economy-gdp/philippines-suffers-first-recession-in-29-years-braces-for-grim-year-on-virus-woes-idUSKCN25208X>

In the Philippines, the scenario is not any better.



1st

in number of confirmed cases among ASEAN¹

164, 474 confirmed cases as of 08/17/20

↓ 17%

GDP growth for 2Q 2020²

Steepest contraction on record!

Figure is est. at (16.5) %

Source: Google Images

¹ Center for strategic and international studies (CSIS) Southeast Asia COVID -19 Tracker. Retrieved from: <https://www.csis.org/programs/southeast-asia-program/southeast-asia-covid-19-tracker-0/>.

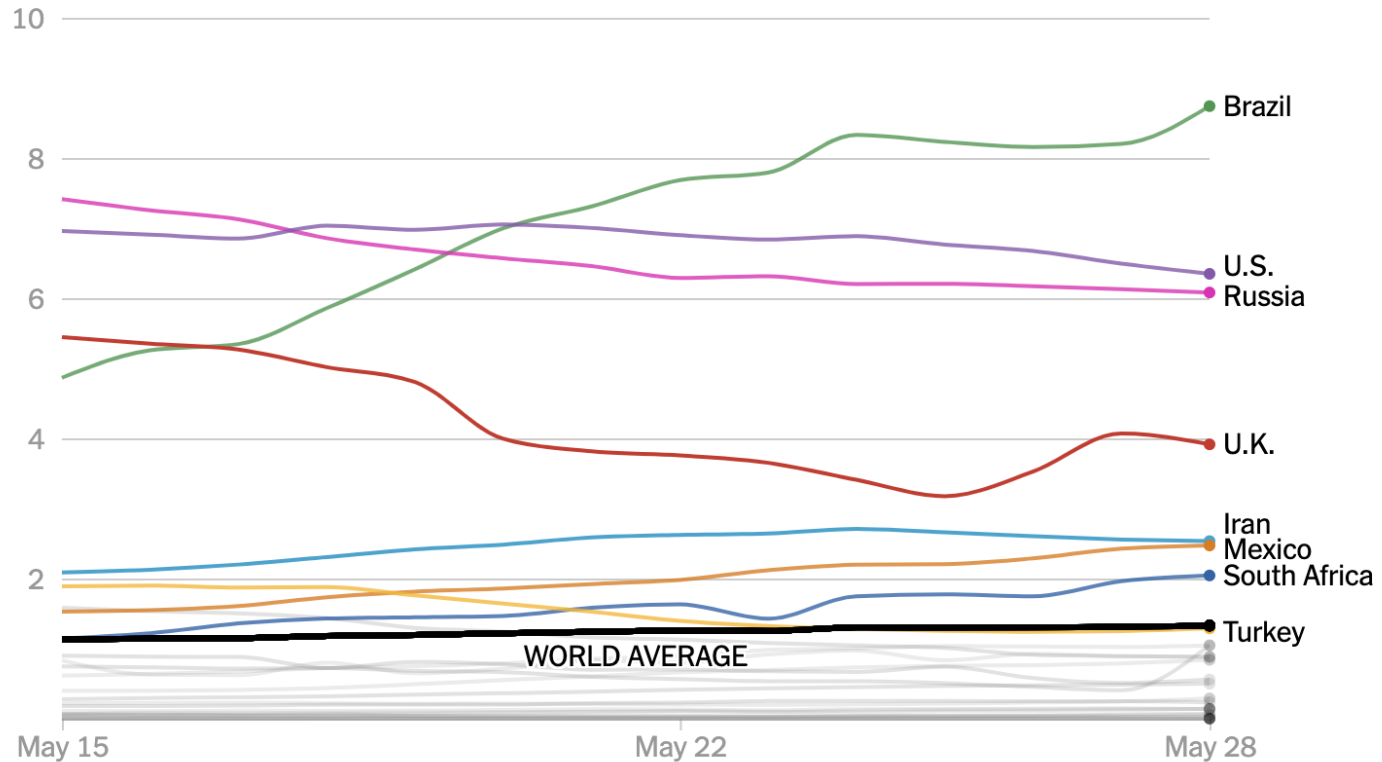
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Where the Virus is Growing Most: Countries with “Illiberal Populist” Leaders

(Leonhardt & Leatherby, 2020)

Where the Outbreak Is Worst Now

New cases per 100,000 in countries with more than 50 million people



By The New York Times ■ Seven-day moving average of new cases per 100,000 in the 28 most populous countries. Sources: Local governments, Johns Hopkins University, World Health Organization



covid under a

pop·u·list

leader.

**“ Is the
government
focusing on
issues **critical**
to addressing
the pandemic?
”**



Pres. Duterte's Weekly Broadcast: "Kumusta Po Mahal Kong Kababayan?"



24 Transcripts

From March 24 to August 11, 2020



4,974 words
(average) per transcript

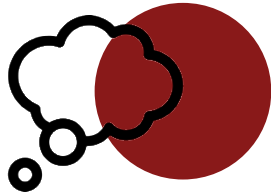


40 avg. length
Based on 125-150 wpm



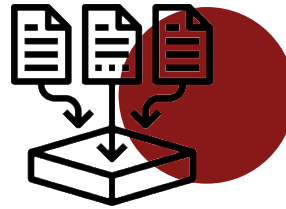
Data Science Method and Pres. Duterte's "Kumusta Po Mahal Kong Kababayan?"

Problem Statement



How is the government responding to the pandemic

Data Collection



24 transcripts 3000+ paragraphs
8000+ sentences 10,000+ words

Data Exploration



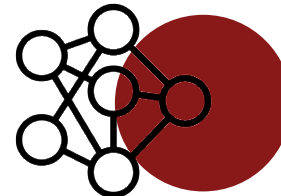
frequencies, trends, n-grams
keyword search

Data Cleaning and Processing



Stop words & punctuations removal,
lowercasing, Vectorization, TF-IDF,
Latent Semantic Analysis

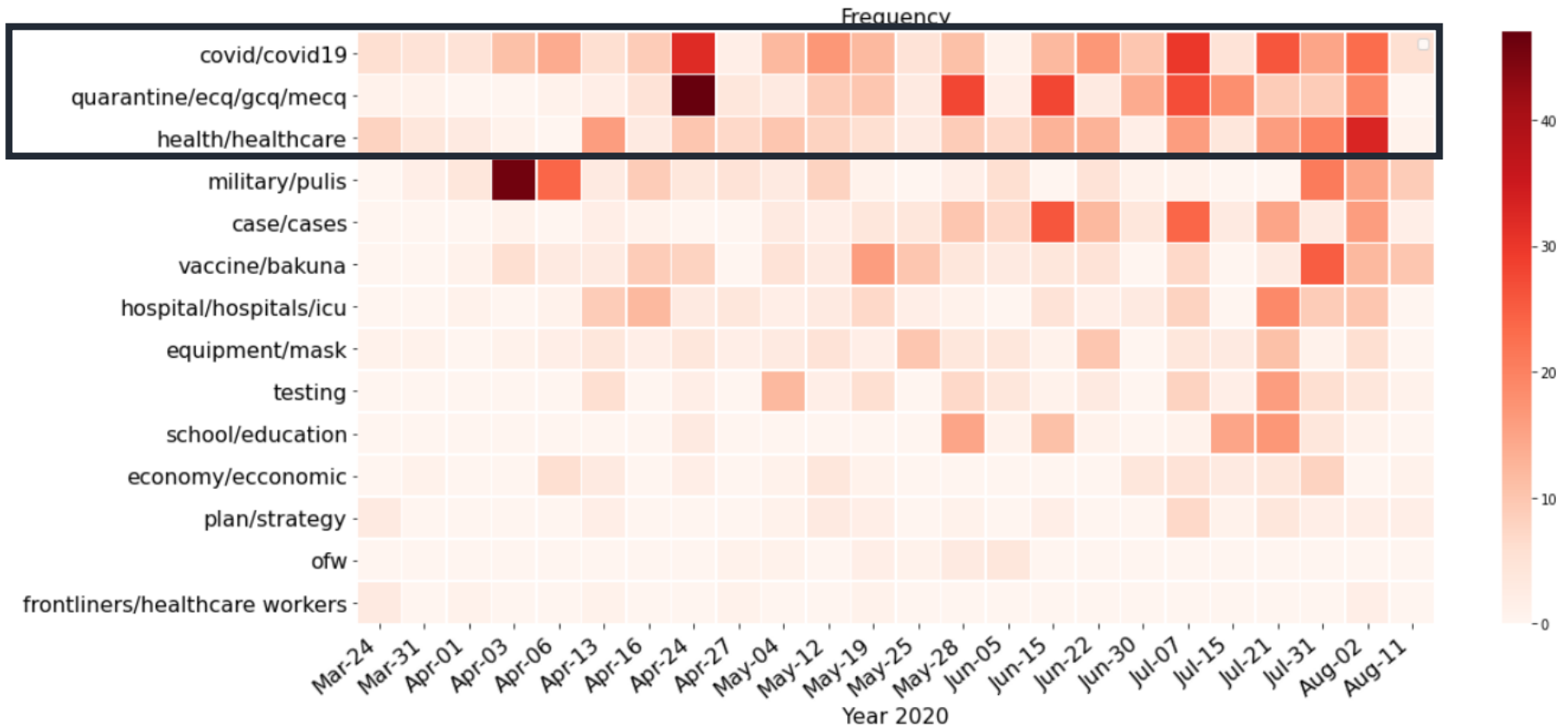
Clustering Analysis



kMeans Clustering

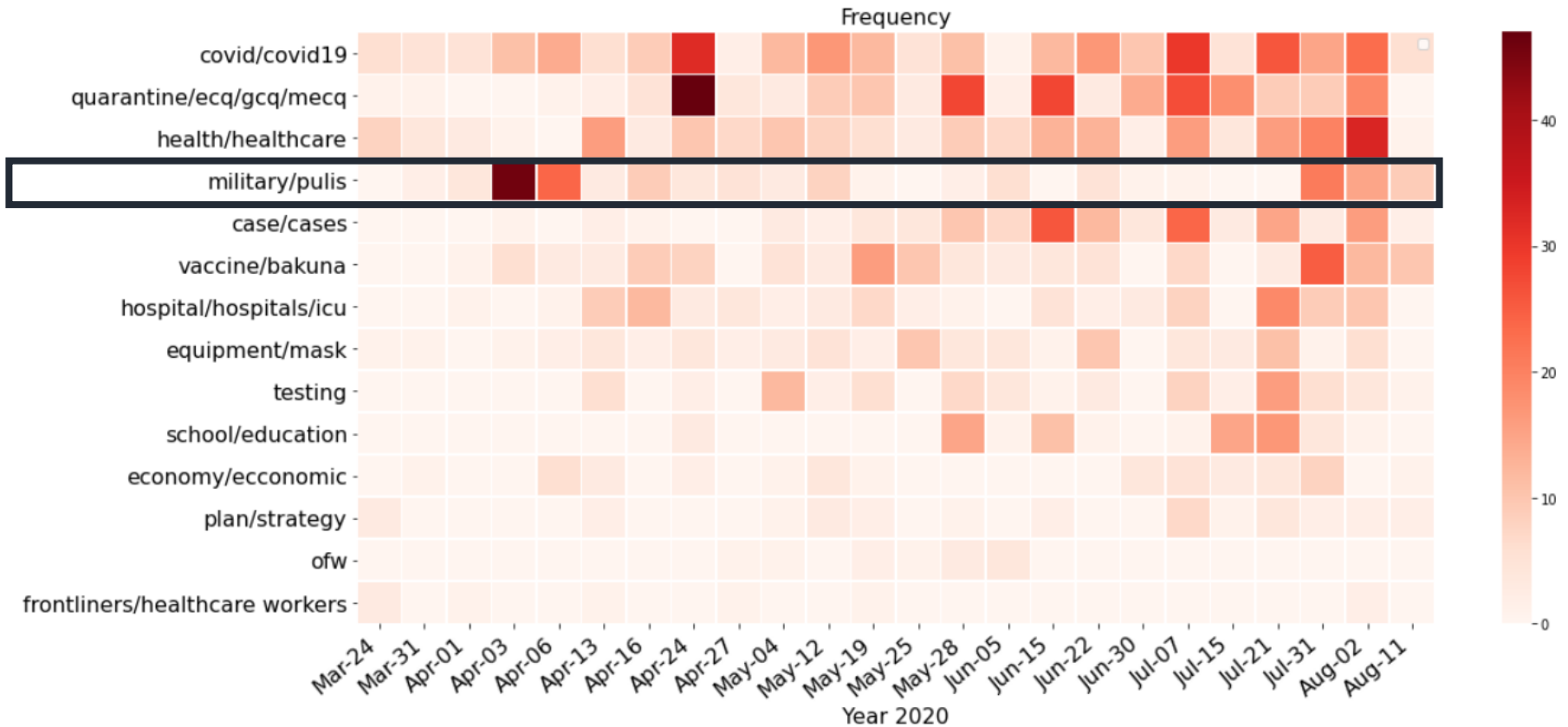
Relevant keywords that emerged at the onset of the pandemic

Frequently mentioned keywords include **COVID-19**, **quarantine** and **healthcare system**, but **plans**, **economic condition**, and **healthcare workers** were rarely mentioned



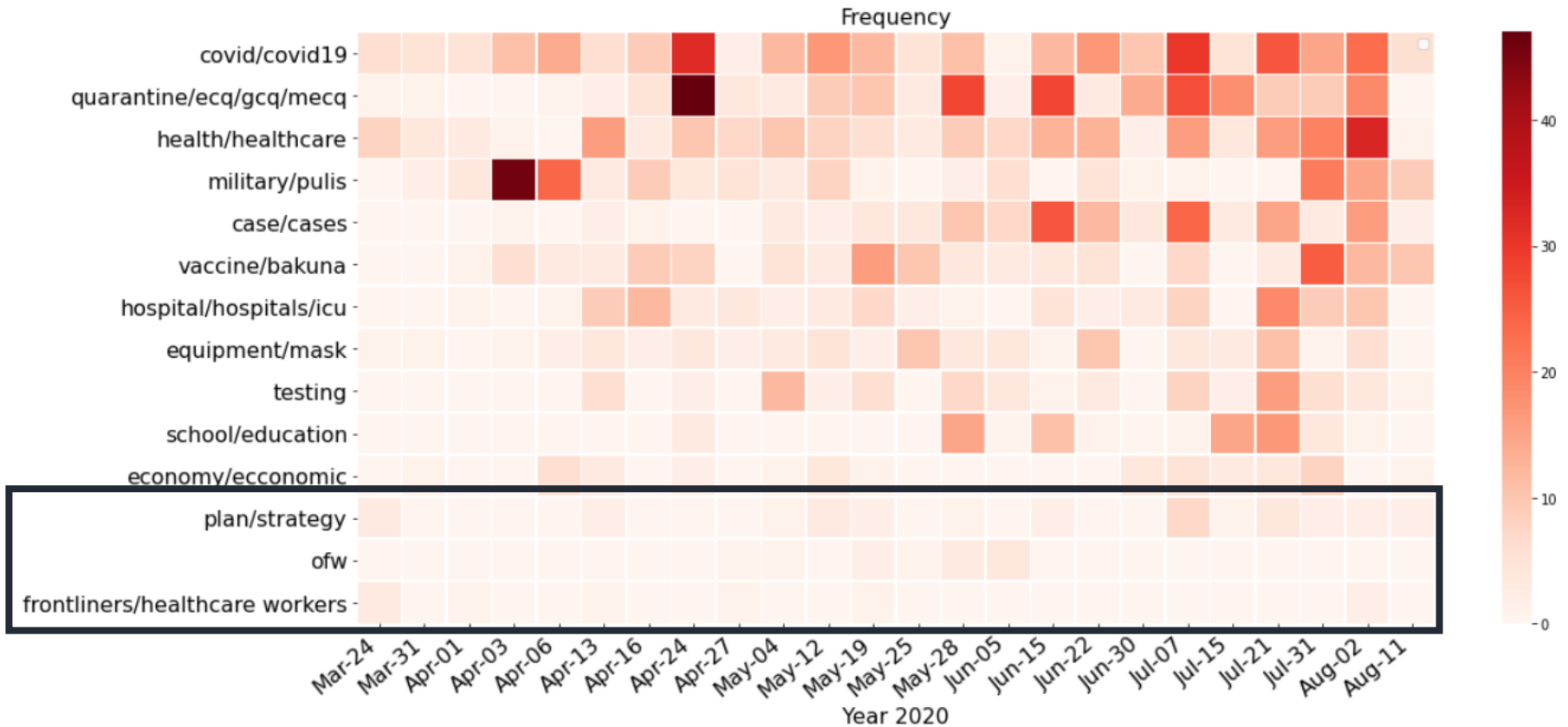
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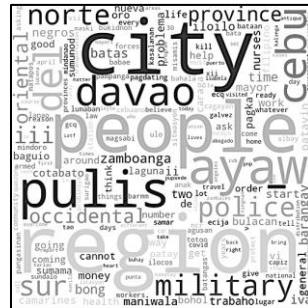


Identified topics¹ show consistent discussion on Health, Quarantine, and Assurances, among others

Health System and workers' support



Quarantine Enforcement



Government Assurances



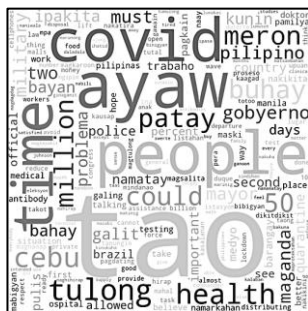
Hospital conditions and COVID Cases



Government Budgetary Status



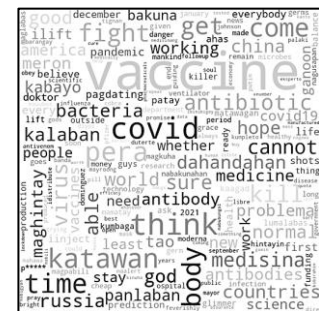
Response to critics



Military Generals leading the response



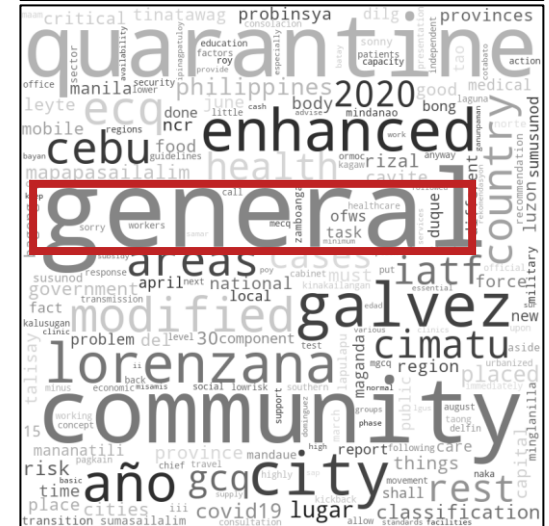
Vaccine



¹Topics are arranged based on decreasing size i.e. "Health Systems and Workers' Support" are most talked about while "Vaccine" is the least talked about topic

²Topics names are determined based on the team's interpretations of the sentences and paragraphs in each topic group

More stringent health standards, longer quarantines, and improved rapid testing despite overloaded health systems is the norm until a vaccine arrives



Topics in clockwise direction: "Health Systems and Workers' Support", "Hospital Conditions and COVID Cases," and "Vaccine"

Topics "Quarantine Enforcement" (top), "Military Generals leading the response" (bottom)

Despite challenges in execution, governance, and budget, President Duterte managed to find time responding to critics and comforting supporters

“May pera tayo...”

“I cannot give food and money to people anymore”

“We are marshalling... resources of government to provide health workers...”

“eh p* tapos sabihin naman ng mga tao g*** itong duterte na ito hindi niya kaya yung covid”**

“nalilito yung tao dahil naririnig siguro sa media na may ilan na nagsasabi”

“tumulong kayo sa kapwa tao natin”

“huhubaran kita diyan sa harap ng tao our country comes first to us”

The government continues to discuss critical issues related to the pandemic – at least in the context of Pres. Duterte’s weekly program

YES

(at least in the context of the weekly programs)



Revealed the government’s initiatives in battling the pandemic



Highlighted challenges encountered over the period



Initiatives failed to translate in an improvement in COVID-19 cases



Government should consider adopting best practices from other countries



There is comfort when broadcasts emphasize on necessary and relevant issues



Healthy

Safe

Informed





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Thank You!

Join our Parallel Session:

Zoom ID: 959 559 16122

Password: 132 284

Link: <https://bit.ly/GandangGabiDigong>

