



one of the most significant new democracies with electoral polarization in the last two elections (see Arifianto, 2019). In doing so, we employed natural language processing (NLP) and social network analysis (SNA) on Twitter from March to April 2020 to analyse responses toward two leaders, the Indonesian president Joko Widodo, later written as Jokowi and the governor of Indonesian capital of Jakarta Anies Baswedan, later written as Anies, in handling the crisis of Covid-19. We contend that electoral polarization contributes to the extent to which partisanship responses circulate in a crisis context. Applying NLP to analyse the pattern of conversation frequencies across time (time series analysis) and categories (clustered analysis), our findings suggest that supports and demand towards the two public figures indicate positive and negative partisanship that replicates previous electoral supports. Similarly, our SNA indicates a high degree of polarization among the thousands of accounts connected with the two leaders in response to the crisis. Extended analyses of the accounts who are the epicentres of the sentiment conversations, either positive or negative about Jokowi and Anies reveal that there are connections with their past political support.

This argument challenges ‘conventional’ rational-economic arguments on public response where analyses are mainly based on researchers’ designed questions or studies in normal realms. Related to debates on literature about public responses, similar to what Page and Shapiro (1983) argue, there is a body of literature suggesting that there is an interconnection between public response and public policy such as the relationship between public preferences and public expenditure (see Soroka & Wlezien, 2005). Some suggest that elites’ behaviour determine how citizens respond to a policy and how public opinion then is circulated (Wlezien, 2004). Yet, there has been a debate about how strong public response affects public policy, and vice versa,

how strong elites and policies influence public opinion (Burstein, 2010).

How is public response related to partisanship? It has been academically recognized that elite polarization strengthens public partisanship and, in turn, affects the way citizens respond to information, and, especially, policies (see Bullock, 2009; Druckman et al., 2013). Others suggest that partisan supports on presidential policies, in some extent, are explained by party identification such as Republicans and Democrats in the US (see Foster & Palmer, 2006). Nevertheless, the extent to which partisanship influences public responses in a context of crisis, a condition when a large majority of people are supposed to rationally consider their safety first among other things, is puzzling.

Partisanship in social media is fairly often regarded as participation. Some studies have investigated and determined that political participation is prevalent in the social media. This participation, accordingly, means that all citizens are actively engaged in conversation of public concern. In some cases, internet activities tend to create polarization regarding the pros and cons of a political figure or a policy. Others suggest that this is not the public, but the platform that creates such polarization (Jacobson et al., 2016; Lee et al., 2018). In the Indonesian context, partisanship is one of the most plausible explanations for voters’ digital behaviour in Indonesia (see, for example, Parahita, 2019). In the case of recent analyses about Covid-19’s public response on Twitter, some display descriptive data about the content of tweets (see, for example, Hosseini et al., 2020).

To explain our argument, we divide this article into three main sections. The first section will be devoted to settling concepts and frameworks on partisanship and the nature of social media. This section is followed by a portrayal of political polarization in Indonesia as a background of the argument. The methods



Lupu, 2014; Berglund et al., in Thomassen, 2005). Levendusky (2009) argues that elite polarization in the late 1990s and 2000s had paved the way for the surge of sharpening partisanship for Democrats and Republicans and that observers did not find such clear partisanship in 1970s when both parties displayed heterogenous elites.

Based on those two competing arguments on partisanship, the case of partisan response in a context of crisis management by political leaders, as this paper puts forward, arguably is pertinent to the thesis of policy polarization. The question is how then we measure the extent to which partisan response occurs. In this regard, Samuels & Zucco (2018) provides a constructive category of partisanship in analysing a Brazilian context. As shown in the Table 1. below, we employ Samuels and Zucco’s partisanship spectrum which results in four categories of partisanship: hard-core partisans, positive partisans, negative partisans, and nonpartisans.

**Table 1.**  
**Samuels and Zucco’s Partisanship Category**

		Strong identification with in-group	
		Yes	No
Strong antipathy for out-group	Yes	Hard-core partisans	Negative partisans
	No	Positive partisans	Non-partisans

Source: Samuels & Zucco (2018)

Regarding the partisanship category in a notion of individual’s affections toward a political leader, hard-core partisans are anyone who has strong identification with the political leader’s sympathizers (in-group) but at the same time has strong antipathy with other leader(s) and the related sympathizers. Negative partisans mean that individuals do not align themselves with one political leader’s supporters but oppose another leader and the supporters. Positive partisan is a reverse

concept of the negative one. Nonetheless, anyone who has no alignment with such a group means they are a nonpartisan.

Such a partisanship category and debate on partisanship are getting more viable in social media platforms where people share their thoughts and preferences. Social media platforms such as Facebook and Twitter facilitate interactions among users. Trottier & Fuchs (2014) suggest that there are three “Cs’ inside social media as forms of sociality, namely, cognition, communication, and cooperation, which individuals have certain cognitive features that they use to interact with others so that shared spaces of interaction are created”. Furthermore, Kietzmann et al. (2011) use a metaphor of honeycomb that suggests that there are six functional blocks of interdependence in social media, namely, conversations, relationships, sharing, identity, reputation, and presence.

In short, those features provided by all of the users are the source of information, and at the same time, they are active audiences. In other words, a gatekeeper theory, a concept in social groups initially introduced by a social psychologist Kurt Lewin in 1947, does not work in Twitter or probably works in a very different way. The theory refers to individuals who select, reject, or pass certain information to their group or community. In addition, some agree that echo-chamber effects generated through social media’s algorithm affect the way people use social media; and in some extent shape people’s views, preferences, and belief systems (see, for instance, Jacobson et al., 2016; Lee et al., 2018). Echo-chamber effects occurred when the algorithms manipulate the users only to see content that they frequently act on or favour. People who mostly stop by reading or watching, comment, and share contents they like, they will be fed with similar contents in their future social media activities.

Features and nature of social media platforms generate various kinds of human



regime in 1998, with five legislative elections since 1999—and four presidential elections from 2004—to the 2019 general election when legislative and presidential elections were held concurrently for the first time. Among these elections, the last two presidential elections in 2014 and 2019 resulted in political polarization with more than 150 million eligible voters across the archipelago. The rivalry between Jokowi and Prabowo Subianto—later written as Prabowo—in the last two elections has been generating two competing camps, namely, sympathizers of Joko Widodo, an elected president in 2014 and 2019, and a large chunk of people opposing Joko Widodo which most of them cast their votes to Prabowo. Based on the popular vote, Jokowi gained 53.7% and 55.5% in 2014 and 2019, respectively. It means that the rest of the votes obviously belong to his rival, Prabowo Subianto in the two elections. This neck-to-neck winning resulted in two competing partisan groups during Jokowi's administration in 2014-2019 and 2019-2024. Later, Prabowo's sympathizers in 2014 and 2019 presidential elections were shocked by Prabowo's alignment with Jokowi's second administration.

Prabowo is the only political figure that paves the way for anti-Jokowi supporters to give their support. In terms of electoral partisanship, there were tangibly conservative Islamist groups among Prabowo's supporters. Exit polls data found that urban-modern Muslims represented are prone to Prabowo's electoral base while rural-traditional Muslim voters are inclined to support Jokowi. Spatial results of 2014 and 2019 presidential elections show that villagers favour the basis of Jokowi's votes, while most of Prabowo supporters are urban inhabitants. In a broad sense, Javanese people residing in central and eastern Java are key supporters for Jokowi, while Sundanese in Western Java to the west of Indonesia, especially Sumatrans are sympathizers for Prabowo. Other provinces are a mix of the two

camp. Data of exit polls from various polling institutions in the last two elections show that rural-nationalist and Islam traditionalists were the primary source of Jokowi's voters while urban middle-class and Islam conservatives were a large proportion of Prabowo's voters.

How then did Anies—a close aide of Jokowi for the 2014 presidential race, appointed to be a Ministry of Education but fired two years later in 2015, run for and win the gubernatorial election of Indonesian capital Jakarta—and replace Prabowo to personify the anti-Jokowi camp? Shortly after he was defeated twice in the 2019 electoral combat, Jokowi's rival, Prabowo, ended up in the hands of Jokowi when he and the closest aide in his Gerindra Party, Edy Prabowo, aligned themselves with Jokowi's second administration as the ministry of defense and ministry of the fishery, respectively. Prabowo's shift had confused his loyal sympathizers, especially, groups of Islamist conservatives. In this regard, the result of the gubernatorial election of Jakarta, in 2017 created a critical turnover of anti-Jokowi camps when Prabowo was no longer a personification of anti-Jokowi sentiments.

Similar to the rise of Jokowi when he won the gubernatorial election in Jakarta in 2012. This 'provincial' election in 2017 soon was to gain national attention due to its vast publication around the archipelago. Initially contested by three candidates in a pair, the Jakarta election had been a proxy of three major patrons with their sympathizers. Contending the incumbent Basuki "Ahok" Tjahaja Purnama—Jokowi's vice governor in the 2012 capital election—backed with Jokowi and PDIP, Agus Harimurti Yudhoyono came to the race as the retired Susilo Bambang Yudhoyono's elder son while Anies Baswedan and his vice gubernatorial candidate Sandiaga Uno were viewed as Prabowo Subianto's protégé. In the first round, Agus was eliminated with only 17% of share of votes while Ahok and Anies who gained 40 and 43% electoral supports, respectively,



remove noisy data and perform advanced analytics such as opinion mining, sentiment analysis, topic modeling, social network analysis, and trend analysis. Lastly, present means that we need to summarize and evaluate the findings from the stage of understanding and present the findings.

This research uses Twitter as a data source. By using crawling data from Twitter, this article employs text and social network sources that can be analysed based on Fan and Gordon's social data analysis method. Data is gathered using Twitter API for Python by using two different methods. The first method is by gathering data that contains general keywords related to the issue, and the second one is by gathering tweets from accounts of predefined main actors. Relevant corpus and corpora (keywords) for our NLP analysis are defined as follows: corona, coronavirus, covid19. covid-19, korona, koronavirus.

Focusing on the case of conversations related to Jokowi and Anies as public leaders, we specifically analyse types of Twitter accounts related to the two figures: the personal and affiliated accounts. We do not take into account whether or not both leaders' accounts may be operated by a team for social media management or be managed by the two individuals. All their posts must be under the leaders' knowledge. Predefined main actors are based on Anies' and Jokowi's main official accounts and other official accounts associated with them. Tweets are captured from @jokowi and @PDI\_Perjuangan as Jokowi's personal and affiliated accounts, respectively. As such, @aniesbaswedan and @DKIJakarta are Anies' personal and affiliated accounts. Both Twitter data capture methods are done on the same set of dates between March 2, 2020, and April 17, 2020. March 2 is chosen as the beginning of data capturing because that was the date when the first case of COVID-19 in Indonesia was announced. Initially, both groups of data are being analysed separately to gain initial information.

Each account will be traced to its statements related to the handling and responses of the Covid-19 pandemic posted during the Covid-19 outbreak in March 2020. These statements obviously contain political decisions, positions, and policies taken in response to the pandemic. Afterward, kinds of responses of the corpus and corpora about Covid-19 we define previously towards the two chief executives' leadership and their Twitter accounts are examined through two types of analyses.: NLP and SNA.

Firstly, to get into the more analytical investigation, we employ Natural Language Processing (NLP) in order to dig into the social media user's sentiments, divided largely into positive, neutral, and negative. We then accordingly trace the accounts owning such sentiments based on the groupings and categories. Then, spatial analysis is employed to link and match the maps of sentiments, namely, positive-map and negative-map about the two chief executives. The maps of average electoral supports of the two camps are based on the last two elections in 2019 and 2014 on the basis of the provincial level.

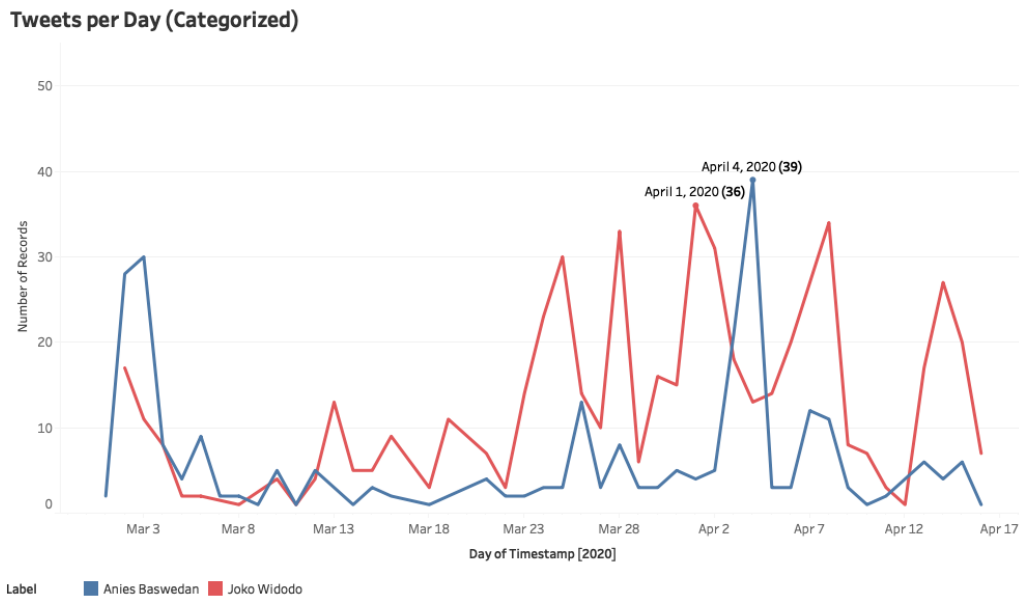
The technical procedures of NLP's data collection and analysis are as follows. Data preprocessing is done by cleaning stop words and text stemming. Both steps are preceded by tokenization or splitting the sentences into words. Stop words are not relevant in observing the main idea of a tweet or sentence; hence, stop word removal is an important step to get cleaner data. Stemming is a process of removing the prefix and suffix of a word to gain the base form of the word itself (Müller & Guido, 2016). It is done to avoid possible duplicates in finding words that represent the main ideas of the data.

Then, tweets were categorized into three different groups based on mentioned actors: Anies Baswedan and Joko Widodo. Tweets that contain words such as anies, baswedan, abw, gubernur dki and joko, widodo, Jokowi, jkw, presiden are separated





**Figure 1. NLP's Time Series Analysis Comparison Between Jokowi's and Anies' Partisan Response**



Source: Obtained and analysed from primary data on Twitter, March 2 - April 17, 2020.

Note: Total tweets per day color-coded by topics in which the blue-colored line belongs to Anies Baswedan and red-colored line belongs to Joko Widodo.

separate process, whereas tweets from both accounts were specifically gathered. However, in the other SNA that shows the two-leader connection, we are able to gain insight into how both sides are interconnected. More relatively big clusters talked about Joko Widodo than Anies Baswedan. Meanwhile, @jokowi, Joko Widodo's official Twitter account, is visibly on a distant connection with other nodes, while smaller Joko Widodo clusters spread near smaller Anies Baswedan clusters.

Importantly, statistics of the SNA analysis as shown in the Table 2 below results in a modularity value 0.707 which means close to 1.0, a maximum value of polarization among the accounts who are connected with the topic. This modularity value indicates a polarized pattern towards two major categories. Furthermore, the network has 6321 nodes that constitute the number of Twitter accounts connected in the topic of Covid-19 in regard to Jokowi and Anies leadership. The edges or connections

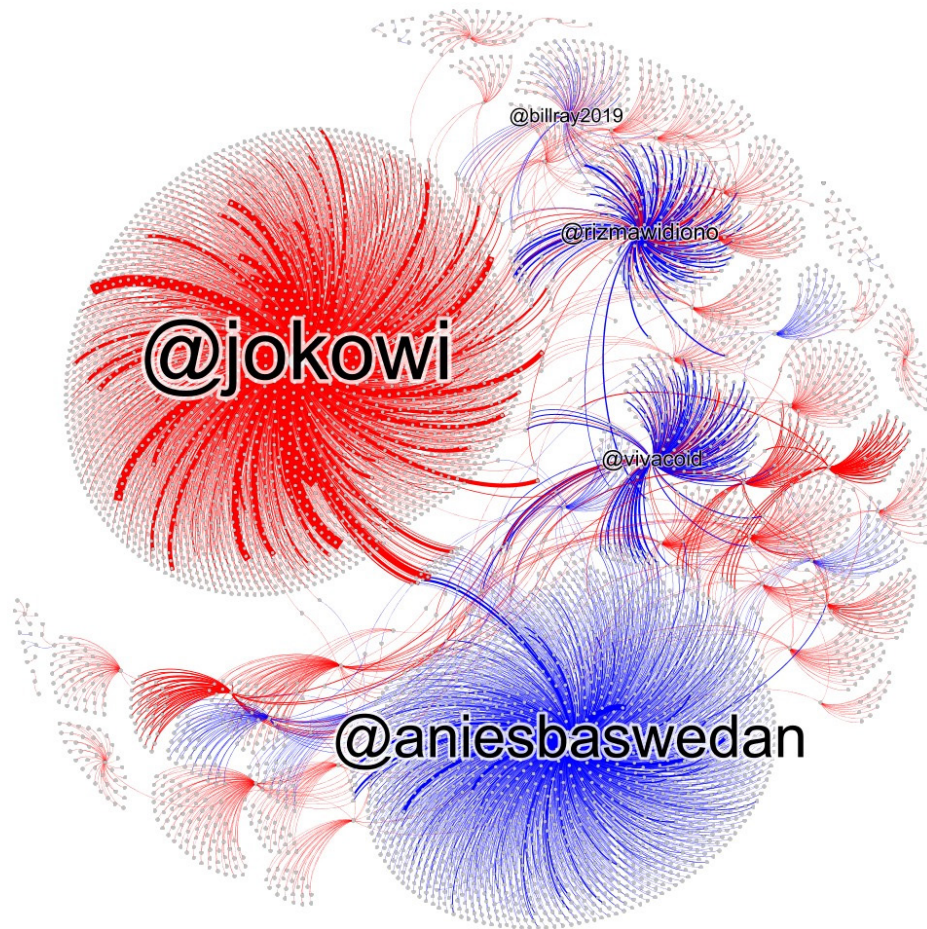
(line in visualization) among the nodes are 6699 meaning that there a few accounts who have multiple interactions, indicated with the average degree of 1.06. In addition, the value of network diameter is only 4.0, meaning that there are four maximum accounts for content to travel. In short, such a polarization indicated by modularity value is quite high while still depicting close proximity between the clusters and even relatively distant individual nodes.

**Table 2.**  
**Statistics of SNA about Public Responses Toward Jokowi and Anies Leaderships During Covid-19 Crisis**

Attribute	Value
Nodes (accounts)	6321
Edges (connections)	6699
Average degree (interactions)	1.06
Network diameter (longest distance between nodes)	4.0
Modularity (heterogeneity/cluster level)	0.707

Source: Obtained and analysed from primary data on Twitter, March 2 - April 17, 2020.

**Figure 2.**  
**SNA about Public Responses Toward Jokowi and Anies During Covid-19**



Source: Obtained and analysed from primary data on Twitter, March 2 - April 17, 2020.  
Note: color-coded network visualization: red for Jokowi and blue for Anies.

A more careful assessment shows that more nodes gravitate towards @aniesbaswedan rather than @jokowi, although more interactions are Jokowi-related. This is described in Table 4 as closeness and betweenness centrality value. Closeness centrality shows how influential a node is due to its proximity or closeness to other nodes with a high amount of connectivity. Meanwhile, betweenness centrality identifies a node that serves as a bridge between one cluster and another (Cherven et al., 2015).

It is shown in betweenness centrality value that the @aniesbaswedan account has more importance in generating connections

between one node and another that is not directly interconnected. It is also visible in how different categories and sentiments of connections gravitated more towards the @aniesbaswedan account. In terms of closeness centrality, non-official accounts tend to have a smaller number which show less proximity to other highly-connected nodes.

Analysis of the SNA statistics above has driven our argument that the extent to which partisanship response is quite high with less than 0.5 means low, around 0.5 is medium, and 1.0 is the highest polarized network referring to the value of modularity while considering

**Table 3.**  
**Network Nodes Closeness, Harmonic Closeness, and Betweenness Centrality Attributes**

Account	Closeness	Harmonic Closeness	Betweenness
@aniesbaswedan	1.0	1.0	18560
@jokowi	1.0	1.0	3058
@rizmawidiono	0.67	0.75	670
@mas_piyuuu	0.52	0.54	451
@vivacoid	1.0	1.0	446

Source: Obtained and analysed from primary data on Twitter, March 2 - April 17, 2020.

the number of nodes and edges. A more in-depth analysis is needed to investigate further how then the partisan responses work and are distributed between the two competing camps. In this regard, as shown in Figure 3 below, a combined network analysis on sentiments, which are, in turn, indicated as partisanship are presented. To be sure that all tweets coming from @aniesbaswedan and @jokowi are considered neutral. On the sentiment-based network, we can see that only a small portion of connections are polarized between positive or negative. The rest of the edges show neutral tendencies, as also described in Table 5. Many positive and negative sentiment connections about Jokowi are closely tied with connections about Anies or the @aniesbaswedan account. Meanwhile, @jokowi is in its own cluster with several connections also with big clusters of connection related to Anies. This shows that most accounts have single category-sentiment connection, but several others use both figures in showing partisanship tendencies.

Those accounts led all the centrality numbers, most noticeably in degree centrality that simply shows the number of interactions in and out of those accounts to the others. Another official account with high degree centrality number is @vivacoid, which is an online news account. It garnered various interaction in terms of category in sentiment but dominated by

Anies Baswedan related topics. @rizmawidiono garnered more diverse interaction categories and sentiments, whereas @billray2019's interactions are mostly categorized as Anies-negative and Jokowi-positive. Other than that, many nodes show a singular category and sentiment only.

**Table 4.**  
**Network Nodes Degree Centrality Attributes (Activity of Accounts)**

Account	In-Degree (received from other accounts)	Out-Degree (given to other accounts)	Total Degree
@jokowi	2723	1	2724
@aniesbaswedan	1777	10	1787
@rizmawidiono	275	1	276
@vivacoid	223	2	225
@billray2019	128	1	129

Source: Obtained and analysed from primary data on Twitter, March 2 - April 17, 2020.

Further contextual explanation based on the sentiment network analysis reveals more evident hints regarding partisan response. To be sure, neutral edges (connections) toward Jokowi and Anies are similarly enormous in spite of differences in number, namely, 6242 neutral edges for Jokowi and 3417 neutral edges for Anies. However, a closer look at the number of sentiment networks (edges) connected among the accounts as in Table 4, negative edges toward the two leaders are quite similar with 978 and 983 edges for Jokowi and Anies, respectively. Referring to Samuels and Zucco's (2018) category of partisanship we have presented in the framework section above. This means that there are negative partisans of the two camps. Positive edges, on the other hand, show different results where positive connections toward Jokowi are far more extensive with 1200 positive edges compared to Anies' with only 42 positive edges.

Based on Samuels & Zucco's (2018) partisanship category, this means that positive



**Table 5.**  
**Partisan Response Based on Combined SNA with Edge (Connection) Attributes**

		Strong identification with in-group	
		Yes	No
Strong antipathy for out-group	Yes	Hard-core partisans (numerous positive and negative edges) **Jokowi	Negative partisans (only numerous negative edges) ***Jokowi (978 edges) ***Anies (978 edges)
	No	Positive partisans (only numerous positive edges) ***Jokowi (1200 edges) *Anies (42 edges)	Nonpartisans (neutral edges) **Jokowi's 6243 edges **Anies' 3417 edges

Source: Authors' analysis based on Samuels & Zucco (2018) partisanship framework.

Note: \*\*\* firmly confirmed, \*\* possibly confirmed, \*weakly confirmed.

findings of the natural language process to analyse the pattern of conversation frequencies across time (time series analysis) and categories (clustered analysis) suggest that supports and demand towards the two public figures indicate positive and negative partisanship that replicates previous electoral supports. Meanwhile, our combined social network analysis indicates a high degree of polarization among the thousands of accounts connected with the two leaders in response to the crisis. Extended analyses of the accounts who are the epicentres of the sentiment conversations, either positive or negative about Jokowi and Anies, uncover connections with their past political support. While positive and negative partisans—supporters and haters—towards Jokowi are relatively strong, Anies' positive partisans are firmly weak, but the negative partisans towards him are similar to Jokowi.

These findings contribute to the debate of public response during a context of crisis where people presumably prioritise their safety over other things. Instead, though there are a larger number of people (Twitter users) categorized as

nonpartisan, partisan-based response towards the way of how political leaders handle a crisis challenges a rational-economic argument. The rational-economic thesis suggests that people's responses toward policies and leaders are based on their rational evaluation—cost and benefit consideration. Furthermore, our findings conform to polarization thesis of partisanship, arguing that the extent to which partisanship pertains depends on the degree of political/policy polarization.

Indeed, partisans in a time of crisis signify a high degree of polarization. Yet, it does not mean that partisanship weakens Indonesian democracy. Partisanship, and the polarization that the competing partisan loyalties engendered, nevertheless, affect the ways of how people perceive political realm in a democratic setting. In the case of Jokowi and Anies rivalry in Indonesia, we argue that such partisan bias is temporary since partisanship toward political leaders is believed to be about short-lived loyalties. The breadth and depth of Indonesian elite-based partisan loyalty found in this study, instead of partisan identification with political parties, might be explained by both the weak institutionalization of political parties and the fragile party systems.

Lastly, given the fact that the Covid-19 Pandemic is arguably a prolonged crisis, the data and analysis we have presented obviously may have changed. In addition, scholarly articles agreed that partisanship toward individuals, such as public officials and political elites, are unstable relative to a political party or other ideological institutions. Thus, further investigation for an extended time frame about this topic is needed.

### Acknowledgement

The authors thank Vendi Ardianto Nugroho and Miftah Farid Mahardika, data engineers at the Laboratory of Big Data Analytics, Department of Politics and Government, Universitas Gadjah Mada, for

their support and efforts. The authors also appreciate Amalinda Savirani, Nanang Indra Kurniawan, and the late Cornelis Lay for their supports in conducting research in the laboratory,

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