Public opinions on social media: how to become a trustworthy leader in times of crisis

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Public opinions on social media: how to become a trustworthy leader in times of crisis



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Abstract

Purpose – The study compares public opinions toward several heads of state in times of crisis across countries, especially during the conflict between Russia and Ukraine. Although recent studies have primarily addressed public sentiment during the COVID-19 pandemic, critical international conflicts continue to impact economic and political dynamics that need warrant examination.

Design/methodology/approach – Using social media data, this study utilizes content and sentiment analysis to assess public perceptions of leaders' actions and communication strategies.

Findings – Findings indicate that most leaders elicited predominantly negative sentiment, with only two leaders viewed favorably.

Originality/value – A notable contribution of this study is the identification of communication patterns as pivotal in shaping public trust; leaders who failed to articulate a clear shared vision faced heightened negative sentiment, as ineffective communication fostered public distrust and anxiety. Although principles of ethical political leadership were observed in some responses, this study underscores that ethical leadership alone is insufficient. Transparent and strategic communication, particularly during crises, emerges as essential to aligning public perception and fostering trust, highlighting its importance as a core component of effective leadership in international conflicts.

Keywords Trustworthy leader, Public opinion, International conflict Paper type Research paper

10

Introduction

A crisis is the perfect time to test someone's leadership and his or her ability to make decisions and take action (Goel and Sharma, 2021). When a crisis such as a disaster or an international conflict occurs, the communication pattern of leaders and society becomes a significant aspect to consider because it can form opinions and shape collective behavior in society, as well as cause massive changes in psychological conditions (Binagwaho *et al.*, 2020). The psychological changes refer to, for instance, someone's increasing anxiety as result of fear for their safety. Such conditions can be exacerbated by the widespread hoaxes that can harm those with a lack of digital literacy (Budi and Pamungkas, 2020; Pérez-Dasilva *et al.*, 2020). The problem becomes more com 29 tas the digital era allows for quick communication and information dissemination, with the use of social media platforms to share one's experience (Goel and Sharma, 2021). The fast exchange of information on social media can generate opinions in an instant. Leaders in the public sector, then, have a vital role in providing information and shaping opinions in the social media environment. Any decision made or action taken by a leader will result in a public reaction—in this case, whether a reaction is good or bad is based on the said decision or action (Fauzi and Kusumasari, 2020; Peck *et al.*, 2021).

Some existing studies have discussed public opinion and leadership in times of crisis. The study by Wheeler *et al.* (2022), for example, addressed the change of public performance to ward leaders in the Australian public sector when facing natural disasters and the COVID-19 pandemic. The study found a positive correlation between pandemic mitigation and a change



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28 IJPL

of social perception toward the leaders, and a negative correlation between natural disaster mitigation and change of social perception. Goel and Sharma's (2021) study analyzed the correlation between leadership and crisis situations, particularly in handling the COVID-19 pandemic. It studied communication patterns on Twitter and focused on public sector leaders, who were classified into four groups: health, politics, journalism, and research. However, the study barely touched on the relationship between public trust and the leaders in pandemic mitigation.

Ever since the COVID-19 pandemic broke, studies on public leadership have been concentrating on public sector leaders' ability to handle the pandemic (Woiceshyn *et al.*, 2022; Zhao, 2020). However, little research has been done to study the international conflict between Russia and Ukraine, whose impact has expanded to other countries. The conflict has caused an economic crisis (Markus, 2022). Even though COVID-19 had a significant impact on governance globally (Huang *et al.*, 2022; Kusumasari *et al.*, 2023), the conflicts that have occurred (between Ukraine and Russia) also present problems that are no less complex. The responses from government leaders of many countries toward this conflict also varied and mi 15 have brought about different societal opinions.

This study aims to determine the relationship between public opinions and the decisions or actions of nation leaders in dealing with a crisis, specifically the international conflict between Russia and Ukraine, through conversations on Twitter. The researchers collected conversations from 24 witter about state leaders and the Russia–Ukraine conflict. Then, we analyzed the data to determine the extent to which the public trusts their respective political leaders. Our study begins to fill the gap in research on comparisons of public trust toward state leaders in times of crisis.

Literature review

Ethical leadership and public opinion

Ethical leadership has become a focal point in contemporary research, as scholars examine how value-oriented approaches shape the efficacy of leadership practices (Zhou *et al.*, 2022). This perspective underscores the importance of a people-centered approach in the execution of leadership responsibilities and policy-making, challenging traditional models that may overlook this aspect (Vikaraman *et al.*, 2021; Zhou *et al.*, 2022). Those studies revealed that leaders often gave no consideration to people-orientedness as one of dimensions affecting leadership (Vikaraman *et al.*, 2021). Therefore, ethical leadership appeared as an approach that gives consideration to the human aspect in the measurement of leadership on the advership is defined broadly as the demonstration of normatively appropriate behavior through personal actions and interpersonal relationships, and the promotion of such behavior to followers through reinforcement, two-way communication and decision-mal 14, (Cortellazzo *et al.*, 2019). The primary personal characteristics of ethical leaders are integrity, honesty, trust, respect, and the ability to listen (Moon and Christensen, 2021).

Mozumder (2022) found that ethical leadership has rarely been discussed in political and governmental contexts even though some aspects of ethical leadership, such as peopleorientedness, has been closely related to political leaders. A political leader is defined as a democratically chosen leader who represents a group of people, works in a governmental framework, and has influence over the constitutional and legal framework (Mozumder, 2022; Smith, 2021). Studies on public leadership have begun to find the correlation between the practice of value-based leadership (which ethical leadership is part of) and its effect on public behavior and trust (Vikaraman *et al.*, 2021). The pattern of public behavior is likely to shift in response to a leader's policies and attitudes, indicating a direct correlation between ethical political leadership and public trust.

There are at least three pilla 11 h ethical leadership to take into consideration: the code of ethics (related to regulations), being a moral person, and being a moral leader (Mozumder,

2022). The three pillars of ethical leadership focus on how the leader takes into account the moral/ethical aspect in performing his or her duties, as well as the effect of any behavior and policy being issued to the people. In the case of ethical political leadership, there were two important contexts to note, namely public interest and public trust (Zhou et al., 2022). Examining public opinions is regarded as an effective way to evaluate omeone's morals/ ethics as a human being and leader as well as to assess the fulfillment of the public interest and public trust (Goel and Sharma, 2021; Stravinskiene et al., 2020). Public opinions refer to various expressions by individuals/groups on their surroundings (Nisbet and Kamenchuk, 2021). Public opinions are considered as one of the effective parameters in observing the public interest and also viewing the extent to which the public trusts its leaders (Wheeler et al., 2022). Generally, public opinions could be observed based on what being felt by the public through a mediu 21 because most people know nothing about the leaders' decision-making **26** cess (Tsaniya *et al.*, 2021; Wheeler *et al.*, 2022). This study analyzes public opinions on social media. The use of social media as a platform to evaluate public opinions would show how far a leader fulfills the three fundamental pillars in ethical leadership and two contexts (public interest and trust) to consider in ethical political leadership.

Leadership and trustworthy governance

Trustworthy governance relates to the measurement of trust in government performance (Carnevale, 1995). This measurement comes from public opinion or expression, that is to say what the public feels about the policies the government has implemented. Trustworthy governance then can be used to develop a model regarding how governments can gain and retain the public's trust (Tangcharoensathien *et al.*, 2020).

The idea of measuring trust in leaders is also offered by this concept. This notion measures a number of factors, including essentiality and veracity (Carnevale, 1995). In essence, the metrics for this concept are similar to those for ethical leadership. However, there is one aspect that must be considered with respect to the concept of trustworthy governance, which is called the "shared vision" (Tangcharoensathien *et al.*, 2020). One persistent theme of trustworthy governance is the importance of shared vision, where the leaders of ho cannot communicate their vision clearly will have trouble generating trust (Kawtrakul *et al.*, 2021).

The intersection between ethical leadership and public trust forms a critical area of exploration, particularly within governance contexts. Understanding how leaders' value-driven behaviors influence public perceptions and societal trust sheds light on the effectiveness of governance strategies (Tsaniya *et al.*, 2021; Wheeler *et al.*, 2022). This connection also underpins the concept of trustworthy governance, which emphasizes the importance of a shared vision—a crucial element that enables leaders to align their policies and goals with public expectations. Leaders who effectively communicate and embody a shared vision foster greater trust, as it reassures the public that the government's direction and decisions are transparent and collectively beneficial (Kawtrakul *et al.*, 2021). Ultimately, this shared vision bridges the gap between leadership intentions and public trust, reinforcing the necessity of ethical and transparent governance practices (Tangcharoensathien *et al.*, 2020; Kawtrakul *et al.*, 2021).

Public emotions on social media

Enhancing our understanding of how ethical leadership and trustworthy governance influence public trust requires examining the role of public emotions on social media. Analyzing these emotions offers valuable insights into how leaders' actions and communications impact public perception and trust. Various empirical studies have developed research on evaluating the level of public trust towards leaders based on the perspective or each individual's emotion when the leaders communicate (Hameleers *et al.*, 2021). Emotions produce different effects—much of the previous research has linked negative emotions like anger and fear to the level of public trust in leaders by looking at people's communication patterns when talking about authoritarian or problematic leaders (Beauregard, 2022; Perlstein and Verboord, 2021).

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Anger refers to the feeling of disappointment caused by detrimental and dangerous behaviors of the leader, while fear refers to negative emotions vaguely related to public behavior itself (Binsar and Mauritsius, 2020; Kothari *et al.*, 2021; Morisi and Wagner, 2021). Fear makes someone more careful, but anger makes someone more aggressive and confident (Morisi and Wagner, 2021). Past studies on public opinions revealed that out of all the negative emotions, fear and anger appeared the most in social media conversations (Aljameel *et al.*, 2021; Perlstein and Verboord, 2021).

Apart from fear and anger, some emotions such as trust, joy, anticipation, sadness, surprise, and disgust have bee 20 requently used in the existing studies discussing public opinions and leadership on many social media platforms (Goel and Sharma, 2021; Kothari *et al.*, 2021). Public behavior is influenced by information and interactions on media platforms. Differences in public opinion often arise due to different conditions and responses in different nations during a crisis (Kusumasari *et al.*, 2023; Zhu and Park, 2021). However, social media allows for rapid information exchange and easier communication, allowing researchers to categorize emotions in a more detailed and precise way during a crisis that impacts different countries (Alwakid *et al.*, 2022; Zhu and Park, 2021). This categorization of emotions can reveal the dominant public preferences and behaviors in responding to an issue, along with the factors that influence these responses (Chapkovski and Schaub, 2022; Morisi and Wagner, 2021; Nisbet and Kamenchuk, 2021; Tully *et al.*, 2020). This study also observes public emotions on social media, particularly related to public opinions on leaders amid the conflict between Russia and Ukraine. Some emotions noted above appear in this study to reveal public tendencies in responding to any action and policy of the nation's leader.

As noted in Table 1, the reseat 22 rs would show emotions and sentiments of the public towards several state leaders during the conflict between Russia and the Ukraine. The decision to choose those leaders was based on their active involvement in public discussions in that conflict. The analysis of public emotions and sentiments was conducted on social media and intended to reveal the public opinions on each leader. We believed that the analysis on public emotions and sentiments would enable us to evaluate the ethics/norms of each leader and how these leaders gained trust from the public in any of the actions they took or policies they made. Finally, we will show how a political leader fulfilled each pillar in ethical leadership and how a political leader in the public sector obtained trust from members of society in the middle of the crisis.

Method

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The data was collected in this study using Twitter Streaming Application Programming Interface (API) and Python to view responses and patterns of public communication toward

No	State leader	Position	Case of crisis	Sentiment	Emotions
1	Vladimir Vladimirovich Putin	President of Russia	Russia- Ukraine War	Positive or Negative	Anger Fear
2	Volodymyr Zelenskyy	President of Ukraine		0	Sadness
3	Joseph Robinette Biden Jr (Joe Biden)	President of the United States			Trust Joy
4	Emmanuel Macron	President of France			Anticipation
5	Justin Pierre James Trudeau	Prime Minister of Canada			Disgust Surprise
6	Recep Tayyip Erdogan	President of Turkey			
7	Joko Widodo (Jokowi)	President of Indonesia			

Table 1. Public emotions analysis

7 y action taken or policy made by the state leader in the Russia-Ukraine conflict. Twitter is a social media platform categorized as a microblogging site, in which users are able to share messages, photos, videos, and external links to their followers (Binsar and Mauritsius, 2020; Goel and Sharma, 2021; Rasyid *et al.*, 2021). Several studies reveal that social media, like Twitter become platform where public can communicate their emotions naturally (Goel and Sharma, 2021; Kothari *et al.*, 2021). Various online platforms (including Twitter) have provided API as a medium of il 7 raction between developers and users through access to large quantities of systematic data. API is a tool that bridges the interaction between a computer program and web services, and it is able to help collect data in real time by tracking public activities on the platform (Goel and Sharma, 2021). Therefore, Twitter streaming API was used in this study to observe public opinions or conversations about state leaders during the conflict between Russia and the Ukraine.

The author used a Python package called *tweepy* and Twitter Streaming API to scrape conversations (tweets) in English on state leaders in relation to the conflict happening between Russia and the Ukraine. We received permission from Twitter using the following link: https:// developer.x.com/en/docs/twitter-api. Once approved, the researchers began the data scraping process. Keywords used in this study were the names of the state leaders (e.g. "Biden"), along with "Russia" and "Ukraine". We collected conversation data from 1 June 2022 to 11 July 2022, the period in which the conflict escalated. The researchers took several state leaders 13 samples, including Vladimir Putin (Russia), Volodymyr Zelenskyy (U13) ne), Joe Biden (the United States), Emmanuel Macron (France), Justin Trudeau (Canada), Recep Tayyip Erdogan (Turkey), and Joko Widodo (Indonesia). The collected data was saved in the JSON format as it would be easier than other formats to parse and analyze. We then conducted data cleaning to delete some data forms (e.g. URLs, and hashtags), which were going to be excluded from the analysis (see Figure 1).

This study applied the content and sentiment analysis method to analyze the collected data in depth. Content analysis was performed to classify each communication pattern—an approach usually applied to classify data such as conversations for a deep analysis (Kothari *et al.*, 2021). Moreover, analysis sentiment was adopted to strengthen the researchers' analysis. The analysis sentiment was a form of *opinion mining* as public opinions, sentiments, evaluation, behaviors, and emotions were analyzed through a text (Matsuoka and Gonzales Rocha, 2021; Raj and Balachandran, 2020). Thus, each conversation collected was parsed to be groups of words and classified based on the sentiment of each word (see Table 2). In order to collect sentiments, we used RStudio and leveraged the narrative fiction corpus (NFC) library. NFC is a large collection of literary texts that have been annotated with information about their structure and content, such as the characters, even 1 and themes that are present in the text. NFC is used as a resource for researchers studying the structure and meaning of literary texts,

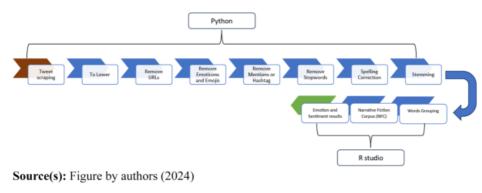


Figure 1. Tweets preprocessing

Emotions	Original meaning	Contextual meaning
Anger	Resentment caused by deliberately negative behavior	Disappointment or resentment toward leade
Sadness	Emotional condition that include disappointment, grief, and hopelessness	Grieving and feeling hopeless when public se the negative effects of leader behavior/
Joy	1 Happiness, satisfaction, and compatibility feeling with an event or other people's	1 ponse to the crisis An individual's sense of happiness, satisfaction, and compatibility with the
Anticipation	1 ponse to what they expected Feeling of anxious suspense when unsure whether the outcome of a particular event will	1 pected leader response Feeling of anxious suspense when unsure whether the outcome of the leader response
Fear	<mark>1</mark> cur as expected The feeling of being threatened or persecuted	1 play out as expected Pessimistic expectations about the possible outcomes of a leader behaviour/response, or the belief that the leader will bring adverse
	1	effects to beneficiaries
Surprise	Positive or negative emotional state after an 1 expected event	Astonish 1 nt at the leader behaviour or 1 sponse in a positive or negative manner
Disgust	Intense emotion that causes a feeling of repulsion	A sense of exclusion/alienation from a policy's benefits, leading to a lack of interest
Trust	Set of values, beliefs, or experiences that foster a sense of belonging	in the leader A sense of sulfaction with leader behaviou or response, either at the decision-making

and it can also be used to develop computational models for analyzing and understanding the narrative elements of a text.

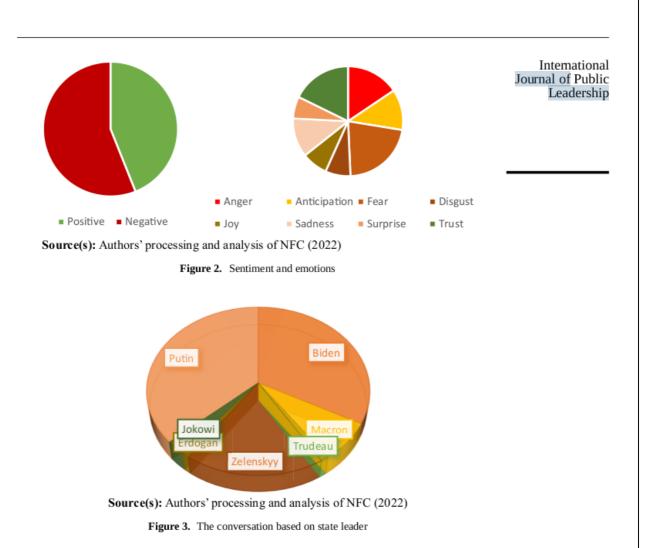
This study revealed a total of 108,486 *direct tweets* and 1,912,643 *indirect tweets* discussing the chosen state leaders amid the conflict between Russia and the Ukraine. Of the direct tweets collected, 1,771,654 words were used in the study. After data cleaning, the collected conversation were analyzed using NFC, the data constrained based on sentiments and emotions from each v12 l. In this study, emotions are divided based on Plutchik's (2003) wheel of emotions. There are eight basic emotions: anger, anticipation, disgust, fear, joy, sadness, surprise, and trust. Sentiments are divided into two categories: positive and negative.

Results and discussion

Findings

Figure 2 shows that negative sentiments (56%) outnumber the positive ones (44%) by a thin margin. The grouping of emotions shown in the chart (right side) show the dominance of fear (22%) compared to the other emotions. On the other hand, the social trust toward state leaders amid the conflict is quite high, as seen from trust (18%). The following emotions in order are anger (16%), anticipation (12%), sadness (11%), joy (8%), disgust (7%) and surprise (6%). However, the number of sentiments and emotions in general has not represented public sentiments about specific state leaders. There are significant differences in sentiments across the sample state leaders. Most conversations collected in this study (see Figure 3) revolve around three state leaders: Putin (about 37%), Biden (about 33%), and Zelenskyy (18%).

Meanwhile, other state leaders did not appear as frequently in the conversations: Macron (France) appears in 7% of the tweets, Jokowi (Indonesia) 3%, and Trudeau (Canada) and Erdogan (Turkey) about 1% respectively. The top three state leaders indeed are the main actors



in the Russia-Ukraine conflict—Putin, Biden and Zelenskyy, the presidents of Russia, the United States and the Ukraine respectively. However, conversations on each state leader had their own tendencies. There were some significant differences on the sentiments on each state leader because of the leaders' different behaviors (as reflected by their policies, responses, and actions). Moreover, these differences of public opinions can be seen in conversations with

the numbers of conversations on each state leader in detail, are presented in Table 3. As stated previously, the different sentiments regarding the state leaders can been seen through the differences of emotions in the conversations people responded to the most. In the case of Biden, the conversations with more responses tend to imply trust, as most people believe that the economic recession is not related to Biden's unsatisfactory performance; rather, it was fueled by the conflict when Russia attacked the Ukraine. In the case of Macron, the sentiments gravitated towards fear, as the conversations with most responses are concerned with Macron's statement that the war is unlikely to stop soon, and that each party must be prepared to deal with the effects from the possibility of a long-term conflict.

more responses (most liked tweets) about each state leader. The opinion differences, including

The case of Trudeau leaned towards disgust, triggered by Canada's involvement in the conflict. In Zelenskyy's case, based on the conversations that gained the most responses, the dominant emotion was sadness because the state leader and the state are considered threatened

Leader	Total direct tweet	Percentage (%)	Most liked tweet	Total likes	Total retweets	Author ID
Biden (US)	35,513	32.74	Reminder that inflation is high in EVERY advanced economy, not just in America. Blame Covid and Russia's invasion of Ukraine. It has nothing to do with Biden, and anyone who says otherwise is either	33,751	10,148	15801906
Macron (France)	8,107	7.47	9 Jorant or lying Macron says, once again, that he does not want to "humiliate" Putin. But unless Putin loses - and fully understands that he has lost- the war will not end	11,512	2,467	297100174
Trudeau (Canada)	1,153	1.06	Russia needs a functioning Nord Stream 1 in order to finance its genocidal war against Ukraine. To do that it needs a turbine under repair in Canada to go to Germany. The Scholz government is strong-arming the Trudeau government to violate Canadian sanctions and betray Ukraine 3	6,253	1,648	2415072836
Zelenskyy (Ukraine)	20,133	18.56	Zelenskyy admits Russia now holds one-fifth of Ukraine, the largest country entirely within Europe. What he didn't acknowledge is that Russia controls Ukraine's industrial heartland, 90% of its energy resources (including all of offshore oil), and its critical ports and shipping	22,568	6,093	19329136
						(continued

Table 3. Continued

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Leadership

Leader	Total direct tweet	Percentage (%)	Most liked tweet	Total likes	Total retweets	Author ID	Leadership
Erdogan Turkey)	1,117	1.03	5 Erdogan says Ukraine, Russia close on grain deal. "Negotiations are going ahead so that this grain, and sunflower oil, everything can reach the world "Turkish President Erdogan said. Italian Prime Minister Draghi said that Turkey had "a central role" in the plan 4	2,192	398	146254897736735	
lokowi [Indonesia]	2,782	2.56	Ms. Iriana, wife of #Indonesian President #Jokowi, visits wounded victims of #Russia's invasion of #Ukraine in #Kyiv. She is simply amazing, probably the first wife of a head of state to accompany her husband to war- torn #Ukraine. # 2-spect	4,205	1,079	822024131784810000	
Putin Russia)	39,681	36.58	#Ukraine Vice President of the state-owned Gazprombank Igor Volobuev has fled Russia in a protest against Putin. He joined the Freedom of Russia Legion. He was born in Ukraine but was not a citizen. When the Soviet Union collapsed, he received Russian citizenship	12,835	2,394	720139699	

in the war and the public was still unable to predict the potential for long-term loss that the Ukraine would suffer. The case of Erdogan showed anticipation, as the conversations revolve mostly around the possibility of a future treaty and the president's involvement in the treaty. The case of Jokowi, meanwhile, showed joy because of the bravery of the president and his wife for making a visit to the Ukraine and Russia amid the heated conflict. Finally, for Putin, the state leader that is the leading actor in the conflict, most tweets displayed anger.

The emotion could be seen in conversations about the attitude of a Russian government official who is against Putin's policy of launching the attack on the Ukraine. The researchers then analyzed the emotions and sentiments more deeply to show what aspects contributed to weak trust of the public in a leader.

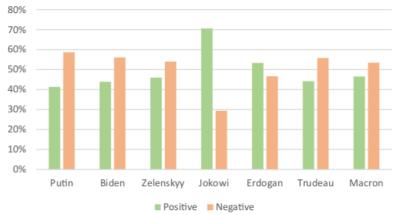
Sentiments and emotions on every leader

In line with the analysis of sentiments and emotions conducted on conversations on each leader, a significant difference appears in each case. As previously stated, negative sentiments are very dominant in conversations related to state leaders and the Russia-Ukraine conflict. The author used NRC to classify sentiments on each state leader and the results show that the conversations gravitated towards negative sentiments rather than positive sentiments. As described in Figure 4, positive sentiments are more dominant only in regard to two state leaders' response/ policy/action pertaining to the conflict between Russia and the Ukraine.

The results above show that most state leaders received negative sentiments instead of positive ones. Conversations dominated by positive sentiments only appear in the case of Jokowi and Erdogan even though only about 4% of all conversations discuss the two presidents. Jokowi's percentage of positive sentiments is about 71% of total conversation discussing him and the Russia-Ukraine conflict. On the other hand, Erdogan's proportions of positive and negative sentiments show no significant difference, with positive sentiments at about 53% and negative sentiments about 47%. The high percentage of positive sentiments in Jokowi's case resulted from the leader's attitude from his direct visit to the conflict area. Some conversations, as described in Table 1, show that the attitude leads to positive public opinion on the state leader in time of an ongoing conflict.

The state leaders who received more negative than positive sentiments included Zelenskyy, whose country has suffered substantial losses as a result of the war. The war has caused environmental damage, depletion of energy resources, and the loss of life. Some public opinions expressed regret over the Zelenskyy's lack of sternness. The percentage of negative sentiments towards Zelenskyy are about 54%. Putin, on the other hand, has the lowest percentage of positive sentiments (41% of all conversations).

For Putin, there is a quite sizable gap between the percentages of positive and negative sentiments: about 18%. This outcome largely stems from public opposition to Putin's policy on the Ukraine conflict and heightened attention to civilian casualties. Following Putin, Biden ranks second among state leaders with a high percentage (56%) of negative sentiment. Many



Source(s): Authors' processing and analysis of NFC (2022)

Figure 4. The classification of sentiment based on the state leaders

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conversations about the potential vested interest behind the war, as well as those about the effect of the war on other countries, are believed to be the reason for the high negative sentiments that were expressed. Moreover, the dominance of negative sentiments on several state leaders have a strong correlation to the emotions contained in each public conversation on Twitter. The result of the emotion analysis shows the differences that support the findings of the sentiment analysis (see Figure 5). Some emotions, such as trust, anger, fear, and sadness, appear to be quite dominant on each state leader.

As previously explained, anger refers to public disappointment as result of a leader's detrimental or dangerous behavior, whereas fear is a negative emotion vaguely related to the behavior of the people themselves in a certain condition (Binsar and Mauritsius, 2020; Kothari *et al.*, 2021; Morisi and Wagner, 2021). In conversations about Trudeau and Macron, the percentage for anger is 17% respectively, while Putin and Zelenskyy follow suit with 16% each. In Macron's case, the word "humiliate" frequently appears (1,123 times), reflecting the public's anger (see Table 4). Meanwhile, in Trudeau's case, the word "TrumpWarRoom" also appeared frequently as a representation of anger. The anger dominating conversations about Putin was, of course, as a result of public disappointment on his policy to attack Ukraine. Several words such as "standwithUkraine" (3,470) and "stop" (2,742) often appeared in the conversations discussing Putin and the Russia-Ukraine conflict. These words appear as the form of public 25 ger toward Putin's decision that seemed to ignore the condition of Ukraine's civilians and the impact of the war globally. Then, in the case of Ukraine, the word that frequently appears, namely "territory" (1,291 times), represents the public's disappointment with Zelenskyy's lack of firm behavior in facing the attack from Russia.

Based on previous research, fear tends to promote caution, whereas anger often results in increased aggression and confidence (Morisi and Wagner, 2021). In the context of public sentiment toward certain state leaders, fear emerges as a more dominant emotion than anger. Among the three state leaders most frequently discussed on Twitter, fear is expressed at the highest rates: 23% for Putin and 22% for both Biden and Zelenskyy. For Putin, the term "invasion" appears 2,369 times, while for Biden, the term "weapon" occurs 1,905 times. These fear-related terms suggest that the public views each adverse event during the Russia-Ukraine war with heightened caution. Notably, this caution associated with fear differs from the caution

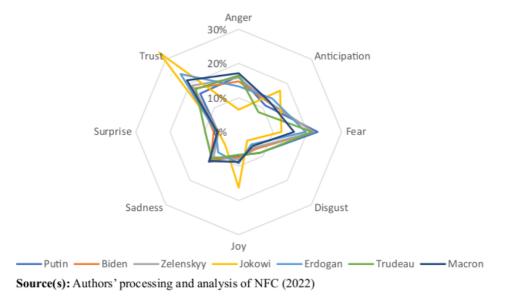


Figure 5. The dominant emotions of every leader

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Table 4. The top 30 words on every leader

No	Keywords Biden	Total words	Keywords Macron	6	Total words	Key words Trudeau	-	otal ords	Keyword		To wo
INO	Biden		Macron		words	Trudeau			Zelensky	у	
1	putin	6,596	france		2,372	canada		9 0	putin		3,8
2	president	4,582	putin		2,318	putin	42	27	president		З,
3	trump	4,360	scholz		1,739	trump	20	66	ukrainiar	ı	З,
4	price	4,182	russian		1,541	covid	26	51	russian		3,0
5	china	4,092	president		1,248	vaccine	24	46	nato		2,
6	nato	3,608	humiliate		1,213	tuckercarlso	on 24	44	biden		1,
7	russian	3,259	germany		1,157	catalinalauf	24	44	country		1,
8	like	3,050	poland		1,121	karilake	24	44	donbas		1,4
9	inflation	2,905	french		1,007	kimkbaltim		44	people		1,
10	world	2,523	ukrainewa	ar	948	repmtg		43	territory		1,
11	invasion	2,515	ukrainerus		891	tedcruz		43	weapon		1,2
12	american	2,409	italy	ssiawai	859	seanhannity		43	news		1,2
12		1,986	emmanue		840	donaldjtrum		+3 41			1,
	country			L				25	peace		
14	weapon	1,905	kiev		833	virus			world		1,0
15	hunter	1,850	people		800	mandate		21	attack		98
16	america	1,837	invite		791	ottawa		74	support		97
17	money	1,828	blog		789	truck		55	control		94
18	sanction	1,792	zelenskyy		783	leader		37	leader		93
19	invaded	1,705	kyiv		770	biden		34	invasion		92
20	billion	1,700	mariupol		756	trumpwarro	om 12	22	live		90
21	people	1,693	draghi		737	would	11	19	military		90
22	administration	1,686	must		705	summit	10	09	nazi		87
23	military	1,634	want		674	look	99	Э	time		85
24	energy	1,557	politics		667	invasion	98		west		84
25	high	1,537	humiliated	1	655	canadian	95		kyiv		82
26	europe	1,509	world		586	like	95		need		81
27	long	1,501	said		579	disgusting	89		like		81
28	time	1,475	ukrainian		529	western	85				75
20 29		,	leader		510	world	81		europe force		74
29 30	stop ukrainian	1,469 1,453			495	russian	81				71
50	ukrannan	1,455	peace		433	TUSSIAII	0.		give		/1
	Keywords		Total	Keywo	rds	Total				Tota	
No	Erdogan		words	Jokowi		words	Keywo	ords P	utin	wor	rds
1	turkey		630	preside	nt	1,330	russian	n		7,38	88
2	nato		417	indones	sia	879	nato			4,51	16
3	putin		300	peace		812	stand			3,97	74
4	president		234	putin		655	world			3,95	54
5	grain		202	visit		545	standw	ithuk	raine	3,47	
6	finland		181	indones	sian	436	countr			2,93	
7	sweden		176	food		352	biden	·		2,79	
8	turkish		172	mission		289	ukraini	ian		2,74	
9	syria		126	kyiv		285	invade			2,54	
10	russian		99	russian		205	people			2,38	
10			89	global		240	invasio			2,30	
	recep			-				11			
12	tayyip		89	leader		238	west			2,35	
13	biden		81	crisis		225	preside	ent		2,27	
14	ukrainian		78	country		225	nazi			2,25	
15	world		77	moscov		222	state			2,24	
	export		74	zelensk	у	199	stop			2,10	
16			70	meeting	ĩ	184	like			2,04	44
16 17	deal		72	meeting	5	101				2,0-	
16	deal need		68	world	5	165	think			1,98	

No	Keywords Erdogan	Total words	Key words Jokowi	Total words	Keywords Putin	Total words	Leadersh
20	greece	66	please	153	land	1,865	
21	europe	64	export	151	military	1,824	
22	country	63	meet	148	support	1,794	
23	invasion	63	ukrainian	136	weapon	1,786	
24	talk	61	summit	133	sanction	1,644	
25	leader	60	help	122	europe	1,639	
26	want	58	first	107	news	1,626	
27	ankara	57	germany	107	trump	1,601	
28	rkiye	57	wheat	106	lost	1,593	
29	like	57	thank	106	war	1,432	
30	peace	55	ukraina	102	take	1,426	

linked with anticipation; while fear-driven caution arises from a negative causal context, anticipation-driven caution involves predicting the broader impacts of the war (Binsar and Mauritsius, 2020; Morisi and Wagner, 2021). Some recurring words that indicate anticipation are "price" and "inflation", which appear 4,182 and 2,905 times in Biden's case.

Previous studies discovered that fear is usually related to sadness (Goel and Sharma, 2021), and this study shows the same result. The percentage of sadness was around 10–12% in conversations on the state leaders, but it was lower in the case of Jokowi and Erdogan (5% and 8% each). The words that frequently appeared to represent sadness are "Ukrainian" and "people", describing the public sadness toward the impact felt by the people of Ukraine. As for surprise, anticipation, and sadness in this study, their percentage of occurrences is less than 10% respectively. The same is the case with joy, which is only high in the case of Jokowi (about 16%).

The high percentage in the Jokowi case was proportional to the high percentage on trust (33%). Such results are not only associated with his visit, but his statement that he was ready to be a mediator between Russia and the Ukraine in the peace mission. Other leaders with a high percentage of trust are Erdogan and Macron with 24% and 21% each. Trust is represented by the word "peace" that often appeared in conversations on almost all state leaders, yet it is undeniable that this word showed up the most in conversations about these three leaders.

Discussion

Ethical leadership by a nation's leader

As stated in the literature review, effective leadership requires a people-oriented approach, where leaders demonstrate responsibility and consideration for the public when enacting policies (Vikaraman *et al.*, 2021). This concept of people-orientation is essential for building trust and establishing strong relationships with the public (Mozumder, 2022). Our study measured public sentiment and emotional responses to national leaders using sentiment analysis, providing insights into the public's trust and percer 19 nof these leaders. While some leaders, such as Jokowi and Erdogan, exhibited consistently positive sentiment, it is important to note that even leaders with lower overall positive sentiment, receives significant public trust. This can be seen in conversations mentioning his diplomatic visit to Ukraine alongside leaders from Germany, Italy, and Romania, where public sentiment is generally favorable. Words associated with Macron, such as "Germany" and "Romania," highlight the public's appreciation for his leadership in international relations, demonstrating that trust can coexist

with mixed sentiments. The findings show that positive sentiment toward a leader does not always correlate directly with trust, as illustrated by Macron's case. Although some words reflecting negative sentiment, such as "humiliate," suggested a misunderstanding of his previous statements, his overall trust rating of 21% reflects a nuanced public perception. This suggests that the public acknowledged his efforts to clarify his stance and represent national interests.

Furthermore, our analysis of the public discourse surrounding leaders like Trudeau highlights how perceptions of political responsiveness—especially regarding issues such as the Russia-Ukraine conflict—can influence public trust. In the case of Canada, some Twitter discussions criticized Trudeau's handling of the conflict, with some accusing the Canadian government of lacking assertiveness. This reflects how global issues can impact domestic perceptions of leadership, further demonstrating the complex relationship between sentiment and trust. By incorporating sentiment analysis into the evaluation of leadership qualities, this study provides valuable insights into how public trust is shaped not only by the leaders' actions but also by the emotions and sentiments expressed by the public in response to those actions.

Moreover, Biden and Zelenskyy, the two state leaders most frequently discussed in this study, have managed to retain public trust amid the ongoing conflict. Biden articulated a firm position on the war, characterizing the invasion of Ukraine as a crime and asserting that those responsible for the decision should resign. This statement attracted considerable positive attention from the public on Twitter, as indicated by a trust percentage of 18%, which ranks second among the emotions associated with Biden. However, fear has emerged in response to inflation and the potential for a prolonged crisis, resulting in a heightened level of negative sentiment toward Biden. Additionally, Biden's stance on the invasion has fostered fear among the public, as evidenced by his most liked tweet (see Table 3), which encapsulates this emotion.

In the case of Zelenskyy, prolonged fear resulted in a high negative sentiment, whereby many conversations expressed public demand to stop provoking Russia about cooperation with European countries or the United States, and the demand to immediately start peace negotiations. Then, in the case of Putin, it was undeniable that public trust is proven to be quite low (16%)—the lowest percentage compared with other leaders. "Putin" was always one of the top 5 words that appeared in conversations on each state leader, but there is negative statement in each instance. This happened as result of his policy or decision that led to losses for many countries, including, of course, the Ukraine. The invasion also brought about other effects, such as global inflation, so Putin received high negative sentiment and trust.

Trustworthy leader in a time of crisis

Previous literature has developed the concept of trustworthy governance to show how political leaders earn trust, both globally and on a national scale (Kawtrakul *et al.*, 2021; Tangcharoensathien *et al.*, 2020). The concept is presented as the measurement of trust in governance and especially the leader (Camevale, 1995). Fundamentally, this concept has measurements that are similar to the concept of ethical leadership. However, there is one aspect that must be considered but has not been used by the concept of ethical leadership before, which is where the communication pattern is to achieve "shared vision". One persistent theme in studies of leadership is the importance of shared vision, where the leaders who cannot communicate their vision clearly 23 ve trouble with trust (Carnevale, 1995).

This study also found out one aspect that should be taken into consideration in order to win trust, which is the communication pattern of leaders to the public, especially to share their vision in times of crisis. The increase of negative sentiment was undeniably the result of mistakes in communication patterns of the leaders, such as in the case of Macron who received a negative sentiment for his statement related to the conflict happening. Past studies showed

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that a person's communication pattern during a crisis could change due to panic and the impact of the crisis itself (Titko *et al.*, 2021). In fact, it also happened in the case of the leaders in this study, whereby inadequate and less transparent communication patterns contributed to the increase of negative sentiments and decrease of public trust toward the leaders. Most of the leaders in this study had demonstrated some commendable behaviors. However, the information and poor communication pattern of a leader might cause misperception and decrease public trust in the leader. Thus, in order to become a trustworthy leader during a crisis, communication strategies are necessary.

Shared vision is essential not only for fostering trust, but also for enabling leaders to guide their communities through periods of uncertainty. In times of crisis, when emotions are high and public anxiety is prevalent, a leader's ability to articulate a clear, cohesive, and shared vision becomes even more crucial. This vision provides the public with a sense of direction and purpose, helping them to understand the leader's intentions and the broader goals that are being pursued. Without this shared understanding, leaders risk creating confusion, misunderstanding, and ultimately, distrust. Research suggests that when leaders fail to effectively communicate a unified vision, the lack of alignment between their words and actions can erode the credibility and confidence of the public (Titko *et al.*, 2021). A shared vision, therefore, is not just about outlining future plans but about engaging the public in the process, allowing them to feel that they are part of a collective effort. This connection not only strengthens public trust, but also reinforces the leader's legitimacy and their ability to lead effectively during a crisis.

Lack of information and poor communication patterns were the problems found in this study. Leaders must have the ability to show their publics the intent of their goals in order to provide a sense of calm and trust (Carnevale, 1995). The leader's communication strategy then becomes a very important aspect to support the successful delivery of this vision. As previously discussed, Macron and Trudeau (or other leaders) actually had a good vision to anticipate the impacts of the conflict, but their public's response to this is partly negative due to poor communication patterns.

Conclusion

A country's political leader plays a pivotal role in times of crisis, as their policies and behaviors elicit varied public reactions. The results of this study reveal that each state leader generated different public sentiments depending on their responses to the ongoing crisis. In this context, most state leaders received more negative sentiments in public conversations on social media, with only two leaders viewed more positively. The prevalence of negative sentiments likely stems from public fear and anger during the crisis, demonstrating that a leader's attitudes significantly affect public emotions. The study also observed that leaders' communication patterns and strategies during a crisis notably influence public trust in national leadership. Poor communication patterns and strategies were found to exacerbate public fear or anger.

The inability of some leaders to communicate their vision clearly further eroded trust. This highlights the need for strategic communication and transparent leadership in crisis management, providing practical applications for leaders aiming to build or maintain public trust. Future research should examine these communication strategies more deeply to establish frameworks that leaders can adopt for effective crisis communication. However, this study has limitations, including language barriers. Since data was collected in English, conversations in other languages (e.g. Indonesian, French, and Turkish) were not fully analyzed. Future studies could address this by including data in the native languages of each country, providing a broader, more nuanced understanding of public opinion across diverse cultural contexts. Expanding research on public opinion in countries like Indonesia or Turkey, using native languages, would further validate and enrich the findings presented here.

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