

Education-Supported Crisis Communication: The Kahramanmaras Earthquake, 2023

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Abstract

This article explores the multifaceted role of education in strengthening crisis communication strategies, particularly using the 2023 Kahramanmaraş Earthquake as a primary case study. It delves into the crisis communication techniques employed during the earthquake, highlighting challenges in coordination, communication gaps, and the inadequate use of technology in emergency response efforts. The study emphasizes the necessity of enhancing coordination among response teams and employing digital platforms for real-time information sharing. It also proposes recommendations to increase public awareness and outlines future research perspectives. In summary, this research underscores the critical importance of education in reinforcing crisis communication strategies, offering practical insights for their development based on the experiences from the Kahramanmaraş Earthquake.

Keywords: Crisis Communication, Natural Disasters, Crisis Management, Communication Strategies, Communication Shortcomings.

Introduction

Natural disasters pose serious threats to societies. Effective crisis communication strategies are crucial in minimizing damage and accelerating the return to normalcy in such events. However, the role of education in successfully implementing these strategies cannot be overlooked. Education can help individuals and communities understand how to communicate during a crisis, thereby enhancing overall preparedness and response capacity.

This study focuses on the role of education in the context of developing crisis communication strategies, taking the February 6, 2023, earthquake in Kahramanmaraş as a case. The Kahramanmaraş Earthquake, recorded as a significant natural disaster in Turkish history, serves as an excellent example to understand how education can play a critical role in improving crisis communication strategies.

The primary goal of this study is to highlight the role of education in developing crisis communication strategies, evaluate the communication challenges and successes experienced during the Kahramanmaraş Earthquake, and offer evidence-based recommendations for optimizing these strategies through education.

Research Question and Objectives

At the heart of this study is the assessment of the role of education in developing crisis communication strategies. Our main research question is: "How has education played a critical role in developing crisis communication strategies following the Kahramanmaraş Earthquake?" In pursuit of answering this question, the objectives of the study include:

- Examining the crisis communication tactics implemented during and after the Kahramanmaraş Earthquake, and evaluating how these tactics are integrated into educational programs and curricula.
- Identifying communication shortcomings and challenges that emerged during the earthquake and discussing how these can be overcome through education.
- Assessing the overall effectiveness of crisis communication strategies and offering evidence-based recommendations for their improvement through education.
- Providing suggestions on how educational institutions, students, and teachers can enhance their crisis communication skills.

Methodology

The methodology section describes the research approach and methods used to assess the role of education in enhancing crisis communication strategies, focusing particularly on the Kahramanmaraş Earthquake.

This study adopts a mixed-method research paradigm, recognizing its suitability for exploring complex phenomena

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and deriving comprehensive insights. Primary data sources include existing literature on education and crisis communication, official reports on the Kahramanmaraş Earthquake, and educational curricula addressing crisis scenarios. This approach enables a thorough understanding of how education can fortify crisis communication strategies.

In summary, this methodological framework aims for an in-depth analysis of the interaction between education and crisis communication strategies, using the Kahramanmaraş Earthquake as a case study. The results are expected to identify areas for improvement and provide applicable recommendations. This research seeks to establish a foundation for strengthening crisis communication strategies through education, aiming for greater effectiveness in future crisis situations.

Crisis Communication In The Context Of Natural Disasters Understanding and Importance of Crisis Communication

Crisis communication is a specialized discipline focused on disseminating and exchanging information during emergencies. It encompasses strategies and tactics used for effective communication with various stakeholders during unexpected events, ensuring accurate, timely, and consistent information delivery. Turkey's disaster and emergency profile, particularly in the context of earthquake parameters, settlement information, and analysis, forms a significant basis for crisis communication (Birinci, 2023). In this context, the importance of crisis communication lies not only in managing the situation but also in maintaining public trust and confidence. Effective crisis communication is vital in ensuring the flow of information, even in moments of panic and chaos, preventing misinformation, and maintaining public trust.

Beyond tangible disruptions, natural disasters also bring emotional and psychological challenges. Common emotional responses like panic, fear, and uncertainty can cloud judgments and hinder effective communication. In such emotional environments, it's crucial to create messages that not only inform but also reassure and guide the affected populace.

Multifaceted Impact of Natural Disasters on Crisis Communication

Natural disasters pose unique challenges for crisis communication due to the sudden physical disruptions, damaged communication infrastructures, power outages, and broken communication lines they often cause. These events necessitate the adoption of flexible and resilient communication strategies. The ability to quickly switch to alternative communication channels and uphold a rapid response mechanism becomes essential. In such scenarios, ensuring quick and accurate information flow is vital for the success of rescue efforts and the safety of the public. In summary, amidst the chaos brought about by natural disasters, crisis communicators have the responsibility to ensure that information is not only accurate and timely but also empathetic and actionable.

Synergy Between Crisis Communication and Crisis Management in Natural Disasters

The close interplay between crisis communication and crisis management underscores their interdependence. Crisis management involves strategic planning, coordination, and decision-making to effectively handle crises, while crisis communication plays a key role in keeping stakeholders informed, engaged, and in agreement. In the context of natural disasters, the synergy between managing the crisis and communicating about it is crucial for swift and effective interventions. Effective communication strategies are essential to support crisis management efforts, addressing the needs and concerns of the public during such events.

The success of crisis management is dependent on the effectiveness of the communication strategies employed. Several key elements should be integrated into the crisis communication strategy to strengthen this synergy:

- Rapid and Accurate Information Distribution: In the midst of a crisis, timely and accurate information is the key to trust. Utilizing various communication channels and providing real-time updates can enhance public confidence.
- Audience-Centric Communication: Recognizing the different needs and preferences of diverse demographic groups is vital. Tailored messages can foster deeper engagement and ensure information is both relevant and applicable.
- Maintaining Trust and Transparency: In a time of rampant misinformation, the authenticity and consistency of crisis communication can be a sign of trust. Debunking rumors, citing reliable sources, and maintaining a consistent narrative are crucial.
- Engaging in Dialog Communication: Beyond disseminating information, fostering two-way communication can provide invaluable insights about the concerns, needs, and perceptions of the affected population. This feedback loop can improve crisis management strategies and encourage community collaboration.
- Strategic Media Relations: Media, with its extensive reach, can amplify crisis communication efforts. Establishing robust media relationships, providing timely press briefings, and ensuring media narratives align with reality are essential.



Post-Crisis Narratives and Community Reconstruction: The aftermath of a crisis presents an
opportunity to rebuild, learn, and grow. Post-crisis communication should focus on recovery, support,
and future preparedness, facilitating a stronger and more resilient emergence of the community.
In summary, the combination of crisis communication and crisis management plays a pivotal role in
navigating the complex waters of natural disasters. Their seamless integration, based on strategic
planning, transparency, and community involvement, can mitigate the impact of a crisis and chart a path
for recovery and resilience.

Crisis Communication Strategies and Practices

Communication strategies and practices are vital during natural disasters. Research into the metaphorical perceptions of students specializing in emergency aid and disaster management regarding earthquakes can significantly influence the development of crisis communication strategies. Additionally, understanding natural disasters' impact on the mental health of emergency rescue workers is crucial. This aspect highlights the necessity for crisis communication strategies to extend beyond mere information transfer. They should also include emotional support and guidance, particularly for those involved in emergency response and affected by the disaster. This comprehensive approach is essential for effective crisis management and support.

Social Media and Crisis Communication

Terkan and Saygılı (2017) emphasize the importance of social media's impact, particularly on youth. Their research indicates that social media is a powerful tool for information and guidance, becoming an integral part of people's lives in today's world. The growing importance of social media for organizations and businesses, as a prerequisite for marketing activities, is highlighted. According to Terkan and Saygılı (2017), social media offers businesses the opportunity to promote their products and brands, as well as direct sales to everyone in the virtual world, particularly impacting youth.

In a study by Saygılı (2023), the increasing influence of technology and its growing impact on human life emphasize the importance of all types of information shared in the virtual world. The widespread use of social media for information or news dissemination among people as educational practices, the rapid transfer of information, and efforts to bring specific news articles to everyone's attention in the virtual environment with visual elements are highlighted. This situation creates new threats with information pollution methods applied on information, news, or visual assets in fields like sports and art (Saygılı, 2023).

Social media is increasingly crucial for crisis communication, particularly during natural disasters. For instance, the effectiveness of Twitter used by local governments during significant earthquakes illustrates the potential of social media in such situations. Similarly, analyzing crisis communication strategies and recovery campaigns in various scenarios, like tsunamis, terrorist attacks, and pandemics, reveals how these approaches can be adapted to different types of crises. Social media is vital for the quick and extensive spread of information, keeping the public informed during and after disasters, and helping prevent the spread of misinformation. Moreover, these platforms serve as a valuable resource for disaster victims to voice their needs and concerns, providing critical feedback for crisis management teams to adjust their strategies accordingly.

Guiding Crisis Communication: Insights From The Kahramanmaraş Earthquake Aspects of Crisis Communication in Natural Disasters

Emergency Response and Rescue Communication: The effectiveness of emergency response following events like the Kahramanmaraş Earthquake is contingent on seamless communication. This aspect of crisis communication ensures that rescue teams, affected individuals, and other key stakeholders are synchronized. It aids in assessing immediate needs, mobilizing resources, and delivering aid where it is most needed. The emphasis here is on real-time, actionable information that can accelerate relief efforts.

Synergy Through Coordination: Natural disasters require a harmonized response that brings together different institutions, organizations, and local authorities. Crisis communication plays the role of a glue, promoting collaboration and ensuring that efforts are not duplicated or misdirected. Creating clear communication protocols, sharing crucial information, and embedding communication into the decision-making matrix can enhance the impact of crisis management initiatives.

Overcoming Communication Challenges: In the chaos of a crisis, communication can face numerous challenges. Infrastructure damage, equipment shortages, or even misinformation can impede effective communication. This backdrop delves into potential pitfalls in crisis communication, from disrupted channels to gaps in information, seeking strategies to overcome or mitigate them.

Analysing Crisis Communication Challenges: The Kahramanmaraş Earthquake Example

Coordination Issues During Emergency Response: The Kahramanmaraş Earthquake underscored the vital role of coordination in crisis communication. Despite multiple rescue teams, aid organizations, and local authorities, there



were evident gaps in seamless communication and coordination. Such lapses can lead to critical delays in assistance, leaving affected individuals in prolonged distress. The root causes often extend to undefined communication channels, irregular dissemination of information, or even conflicting communication protocols among organizations.

Reflections of Communication Shortcomings: The earthquake in Kahramanmaraş laid bare the cascading effects of communication inadequacies. Misinformation or lack of timely communication can erode public trust in authorities. Moreover, if calls for help are unheard or delayed due to communication breakdowns, it can exacerbate the crisis.

Reflecting on Crisis Communication Challenges from the Kahramanmaraş Earthquake

Understanding the crisis communication challenges encountered during the Kahramanmaraş Earthquake is an effort to ensure that the voices of those affected are heard and acknowledged. By deeply examining both the successes and shortcomings of the communication process, we aim to pave the way for more humane and effective strategies in future crises. Recognizing these challenges is the first step in improving our approach, preparing us to better support and guide communities in their most vulnerable moments. In conclusion, the Kahramanmaraş Earthquake serves as a poignant reminder of the profound impact of effective crisis communication. As foundations such as coordination, collaboration, trust, and transparency rise, staying vigilant against potential hazards becomes increasingly important. Through internalizing and learning from these experiences, we hope to develop communication strategies that resonate with empathy and understanding, making a tangible difference in the lives of those affected by future disasters.

CRISIS COMMUNICATION AND EDUCATION

Education plays a critical role in the development of crisis communication strategies. It helps individuals and communities understand how to communicate effectively during a crisis, thereby enhancing the overall preparedness and response capacity of the community.

Role of Educational Programs and Curriculum

Educational programs and curriculums play a fundamental role in shaping individuals' crisis communication capabilities. Specialized programs can target specific skills and areas of knowledge crucial for effective crisis communication. One of the most important methods in this field is scenario-based training. By immersing students in simulated crisis situations, they gain first hand experience with the challenges associated with crisis communication. Such training sessions can help students understand the nuances of conveying critical information under high-pressure situations.

The role of educators is crucial. Experts in crisis communication bring a mix of theoretical knowledge and practical experience. Their perspectives can offer students a holistic understanding of the subject. The continuous professional development of these educators enhances the training experience, keeping them current in the field of crisis communication (Karabey & Aras, 2021).

Recommendations Related to Education

In the evolving landscape of crisis communication, education is a fundamental component in developing professionals capable of addressing the multifaceted challenges of real-world crises. A significant recommendation is the design and delivery of specialized courses that delve into the intricacies of crisis communication. These courses should seamlessly blend theoretical knowledge with practical applications. Completing these courses, workshops can provide students with experiences reflecting real-world crisis scenarios, simulations, role-playing, and group discussions, giving them firsthand experience with the challenges associated with crisis communication. Considering the dynamic nature of crisis communication, the need for continual learning is paramount. Brown & Green (2019) advocate for the establishment of programs offering advanced courses, seminars, and webinars to keep professionals current on the continuously evolving trends and challenges in crisis communication. These programs can also serve as hubs for networking, fostering collaborations, and facilitating knowledge exchange among professionals.

Crisis Communication Strategies and Proposed Solutions in Education

The recommendations related to education mentioned in the previous section offer a consistent framework for enhancing crisis communication strategies. When these solutions are integrated and complement each other, they present a comprehensive approach to crisis preparedness.

The primary strategy involves establishing specialized crisis communication programs and courses for students. These programs offer students the opportunity to actively participate in crisis simulations, combining theoretical discussions with hands-on, practical exercises. This active participation allows students to develop their decision-making skills under pressure, create effective crisis communication messages, and navigate the complexities of



real-world crisis communication scenarios.

Scenario-based training, complementing specialized courses, plays a vital role. By immersing students in real-life crisis scenarios, this training promotes a deeper understanding of crisis dynamics and imparts practical problem-solving skills. Through these interactive experiences, students learn to respond effectively to the unpredictable nature of real crises, adapt swiftly, and communicate sensitively.

Additionally, training educators specialized in crisis communication also significantly contributes to the strategy. These educators bring hands-on experience and academic expertise to the classroom. Their deep knowledge based on real-world scenarios enriches the educational experience. By continuously updating their own knowledge and skills, they ensure that the training they provide is not only current but also of the highest quality.

In summary, these proposed strategies create synergy to form a holistic educational framework. This framework empowers students with the necessary theoretical knowledge, practical skills, and expert guidance for effective crisis communication. As students learn to navigate the complex network of challenges presented by real-world crises, they emerge as valuable assets in crisis preparedness and response.

Strategies And Proposed Solutions For Crisis Communication Establishing Communication Mechanisms

When facing crises, establishing robust communication mechanisms is of great importance. These mechanisms should be intricately designed to ensure the fast, accurate, and seamless flow of information. Creating effective communication channels among disaster victims, rescue teams, local authorities, aid organizations, and other stakeholders is vital. These channels should serve various purposes, from disseminating crucial information to providing guidance, facilitating aid requests, and exchanging feedback. Furthermore, ensuring these communication mechanisms are universally accessible, easily understandable, and user-friendly is essential for serving a diverse audience (Duşan & Koç, 2021).

Elevating Preparedness Initiatives

Preparedness is the foundation of effective crisis communication strategies. These initiatives should occur before a crisis emerges. This includes creating detailed communication plans, scenario-based planning, and establishing clear communication protocols. Regular crisis communication drills should be conducted to test and refine these plans. Additionally, rigorous training of communication personnel, investing in communication infrastructure, utilizing technological tools, and enhancing readiness are key.

Developing Communication Skills

The success of any crisis communication strategy depends on the awareness and communication skills of its stakeholders. Therefore, regular campaigns to raise public awareness about crisis communication are fundamental. These campaigns should aim to equip the community with crucial information about crisis communication protocols. Workshops, training sessions, and seminars should also be organized to improve communication skills, enabling the public to communicate effectively during crises. Such initiatives not only prepare the community but also ensure access to accurate, timely information and create a sense of trust and security.

Utilizing Communication Technologies

In the digital era, leveraging advanced communication technologies is essential for effective crisis communication. Mobile communication, social media, instant messaging apps, specialized websites, and other digital platforms offer unparalleled speed and accessibility for conveying crucial information during emergencies. These technologies enable quick emergency alerts, real-time updates, and community feedback. However, it's not enough to just use these tools; there needs to be a focus on continuous development and adaptation of communication technologies. Embracing new platforms, apps, and crisis-specific software can greatly improve communication efficiency and effectiveness.

Yet, with the advantages of instant information flow come responsibilities. Implementing strict verification and source check processes is critical to prevent the dissemination of false information. Also, addressing technological literacy is important to ensure these communication channels are accessible to all, including those less tech-savvy, thereby reducing the digital divide in crisis situations.

Moreover, adopting a community-based approach in crisis communication is crucial. This involves using technology not merely as a tool but as a means to amplify community voices and address their specific needs, ensuring that communication strategies are tailored to the expectations and requirements of local populations.

In conclusion, crisis communication strategies should aim to effectively use both traditional and digital communication channels, adapt to constantly evolving technologies, and reach all segments of society. This approach optimizes information flow during crisis moments and enhances the overall well-being of the community. In this context, the proper use of technology plays a vital role in the success of crisis communication strategies and should be a fundamental part of every crisis communication plan.



Assessment of the Kahramanmaras Earthquake

This section aims to thoroughly examine various aspects of the Kahramanmaraş earthquake. It will address preparedness measures, communication paradigms, crisis communication, and the organization of aid services, analysing both successful practices and areas needing improvement.

Assessment of the Kahramanmaraş Earthquake

This section aims to provide an in-depth examination of various aspects of the Kahramanmaraş earthquake. It will focus on evaluating preparedness measures, communication paradigms, crisis communication, and the organization of aid services, identifying successful practices and areas for improvement.

- Evaluating Preparedness Measures: It is crucial to compare pre-earthquake preparations against the challenges encountered. The practicability of emergency plans, the resilience and adaptability of emergency response teams and communication networks, earthquake-resistant construction materials, and the availability and quality of emergency reserves and equipment should be assessed (Yıldırım et al., 2021; Demir, 2022).
- Post-Earthquake Communication Dynamics: In the chaotic aftermath of an earthquake, the effectiveness of communication channels is critical. The efficacy of various platforms such as television broadcasts, social media, mobile alerts, and direct communication should be evaluated (Kara, 2020; Özdemir, 2021).
- Assessment of Crisis Communication: The narrative and transparency of post-disaster communication shape public emotion and trust. The strategies employed, official press statements, community communication sessions, and digital communication should be evaluated. Success in disseminating correct information and suppressing rumors is crucial.
- Aid Operations: Coordination and Challenges: Aid operations are an indicator of a region's resilience and organizational capability. Critical services like medical aid, providing shelter, and food distribution should be evaluated in terms of coordination efficiency, potential bottlenecks, resource allocation, infrastructure resilience, and logistical obstacles (Erdem, 2021; Güneş, 2022).

These evaluations aim to provide a holistic perspective on the response dynamics of the Kahramanmaraş earthquake and guide future disaster preparedness work, the development of communication protocols, and the improvement of aid coordination.

Recommendations Related to Education

Education plays a critical role in the development of crisis communication strategies. The following recommendations offer a comprehensive approach to equipping individuals and communities with the necessary knowledge and skills:

- Crisis Communication Training Programs: Specialized crisis communication programs and courses for students should go beyond theoretical concepts and offer practical experiences. Simulations and real-life scenarios provide students with opportunities to develop communication strategies and solve the complexities of crisis communication.
- Scenario-Based Learning: Opportunities provided to students to experience themselves in real crisis scenarios encourage a deep understanding of crisis dynamics and impart practical problem-solving skills.
- Expert Instructors: Training of instructors specialized in crisis communication is central to effective education. These instructors bring a wealth of practical experience and academic expertise, and continuous professional development ensures they stay current with evolving trends and challenges in crisis communication.

These strategies create a holistic educational framework that equips students with theoretical knowledge, practical skills, and expert guidance. As students prepare to tackle the challenges presented by real-world crises, they emerge as valuable assets in crisis preparedness and response.

The Link Between Education and Crisis Communication

Crisis communication plays a vital role during natural disasters. Effective crisis communication can reduce panic and chaos, save lives, and expedite a community's recovery after a disaster. In this context, the relationship between education and crisis communication is a fundamental component of disaster management strategies. Education informs and equips individuals and communities on how to communicate effectively in crisis situations, particularly crucial in unpredictable and uncontrollable circumstances such as natural disasters.

Education is necessary to enhance the effectiveness of crisis communication strategies. Quickly and effectively disseminating the right information during crisis situations is vital to prevent panic and the spread of misinformation. Education helps individuals and communities understand how to respond in crises, which information sources to trust, and how to seek help. This leads to a more organized and controlled response during crises, enhancing the overall safety and well-being of the community.

Crisis communication training also facilitates effective collaboration among different stakeholders such as disaster



management teams, local governments, NGOs, and the media. These stakeholders need education and information sharing to act quickly and in a coordinated manner during crises. Education helps these stakeholders understand their roles, responsibilities, and how to communicate effectively with each other. This leads to more effective intervention and coordination in crisis situations (Hirschfeld & Thielsch, 2021).

Especially in major natural disasters like the Kahramanmaraş Earthquake, the link between education and crisis communication becomes more evident. During and after the earthquake, access to accurate information and its effective dissemination directly affects the safety and recovery of the community. Education plays a critical role in this process. Education programs and campaigns make the community more resilient to disasters and facilitate more effective communication and response in crisis situations.

In conclusion, the connection between education and crisis communication is vital for the safety and welfare of society during natural disasters. Education informs and equips individuals and communities on how to communicate effectively in crisis situations. This enhances the effectiveness of disaster management strategies and makes the community more resilient to disasters. The example of the Kahramanmaraş Earthquake highlights the role and importance of education in crisis communication strategies.

Conclusions And Recommendations

This study, by examining the Kahramanmaraş Earthquake, emphasizes the role and importance of education in crisis communication. The main findings of the research demonstrate that education is a critical factor in developing effective crisis communication strategies. The communication challenges experienced during the earthquake clearly reveal the consequences of a lack of education. This situation underscores the importance of education and awareness programs in crisis communication.

Education plays a central role in the development of crisis communication strategies. Individuals and communities need to possess the correct knowledge and skills to communicate effectively in crisis situations. In this context, educational programs and awareness campaigns are vital for increasing success in crisis communication. Especially during natural disasters like the Kahramanmaraş Earthquake, informing and preparing the community is a critical factor in reducing damage and facilitating a quick recovery.

Crisis communication training teaches students and community members how to communicate effectively in crisis situations. These trainings should include both theoretical knowledge and practical applications. Simulations, scenario-based learning, and real-life crisis scenarios teach participants how to act and communicate during a crisis. Such training better prepares individuals for crisis situations and increases the overall resilience of the community.

Furthermore, crisis communication training is also important for raising public awareness and making the community more resilient to crises. Educational programs provide information on how to act in crisis situations, which resources to refer to, and how to seek help. This knowledge ensures that the community is more prepared and aware in the face of crises.

Figure 1 in the flowchart visually addresses the topic of "The Connection and Importance Between Education and Crisis Communication." The diagram demonstrates how education serves as a fundamental starting point and how this education can enhance the effectiveness of crisis communication. Education raises the level of knowledge and awareness of individuals and communities, enabling them to communicate more consciously and effectively in crisis situations. This process improves the success of crisis management and contributes to the overall well-being of society. Successful crisis management supports societal resilience and recovery, leading to continuous development and learning. The diagram has a cyclical structure that shows how education and crisis communication are interconnected and reinforce each other. This cycle emphasizes that education is an ongoing process and plays a central role in improving the overall well-being of society.



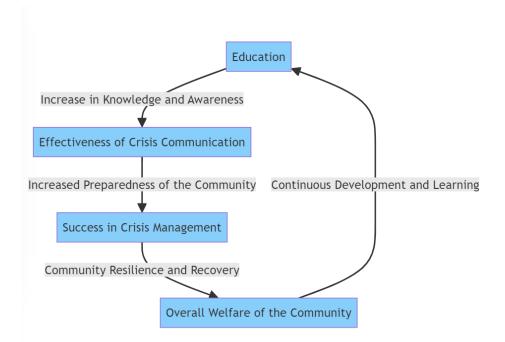


Figure 1: The connection and importance between education and crisis communication **Source:** Author's own work

In conclusion, this study, drawing from the example of the Kahramanmaraş Earthquake, highlights the importance of education in the development of crisis communication strategies. Education is a critical tool for enhancing the effectiveness of crisis communication strategies and for making communities more resilient to natural disasters. Therefore, the development and implementation of crisis communication education programs are important steps in increasing the safety and welfare of the community during natural disasters.

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