

Research on the Problems of Government Early Warning Mechanism in Public Emergencies

Xiao Chen, Lin He, Liyuan Wang

Jiangxi College of Applied Technology, Ganzhou, Jiangxi, China

Abstract

Despite the continuous rapid development of world economy and technology, public emergencies in the world are frequent, such as earthquakes, tsunamis, volcano eruptions and COVID-19. Terrorist attacks have cast a shadow over it. Compared with developed countries such as Europe and the United States in the world, the construction of China's early warning mechanism is still in its infancy, and there are many problems to be solved, which reflects that China's government appears passive and backward in dealing with public emergencies. Based on this, our government should establish a high-quality and effective early warning mechanism for public emergencies as soon as possible, so as to improve the emergency preparedness level of our government, which has become an important work of governments at all levels at the present stage.

Keywords

Public Emergencies; Early Warning Mechanism; Emergency Management; Solution.

1. Concept of Public Emergencies and Government Early Warning Mechanism

1.1. Concept of Public Emergency

Generally, there is no clear positioning for the definition of public emergencies. It has great controversy in the academic circles. Some relevant professional scholars define emergencies as a public event in social life, which is difficult to predict in advance. It has a wide range of functions and great influence, which will cause serious harm and threat to the society. Other experts and scholars believe that public emergencies are special terms for studying crises from the perspective of public management. They are mainly emergencies that cause or may cause heavy casualties. Major property losses and major social impacts, which have a significant impact on public security, social stability and the government, and may trigger social chain reactions and serious consequences. However, the current definition of public emergencies is that sudden natural disasters, accident disasters, public health events and social security events cause or may cause serious social damage and need to take emergency measures.

1.2. Concept of Government Early Warning Mechanism

Early warning first originated in the military field, and then the word gradually appeared in society. In modern society, early warning is mainly implemented by the government, that is, the public emergency action Department predicts the potential dangers in the future to remind relevant personnel to pay attention. The early warning mechanism means that through monitoring and analyzing the risk information, we can quickly and accurately disclose the risk information before the occurrence of general emergencies, and then respond in time according to the risk data analysis and real-time monitoring and prediction to prevent the occurrence of emergencies. Early warning and prevention can minimize the losses caused by social emergencies to society and people.

2. Problems Existing in the Early Warning Mechanism of Public Emergencies

In recent years, our government has made remarkable achievements in dealing with public emergencies, and established an effective early warning mechanism to deal with multi departments, multi-level and multi disasters. However, this does not mean that the early warning mechanism has been fully established, especially when emergency management cannot manage risk exposure. Therefore, there are still many problems and deficiencies to be solved in the early warning mechanism of public emergencies.

2.1. The Information System is Aging and Incomplete

Information is characterized by sharing, timeliness and transmission. The early warning data acquisition system is mainly to comprehensively collect and analyze risk information and identify the source of risk signals through analysis, so as to arrange the pre plan in advance and take measures in time to effectively control the occurrence of accidents. However, due to the characteristics and importance of these information, it is necessary to collect and select information comprehensively and truly. Therefore, when establishing the early warning mechanism, we should first conduct a comprehensive, timely and effective analysis on the risk sources of general emergencies, and determine the specific harm degree through the analysis. We can't ignore the key information, especially the abnormal risk information, otherwise, the early warning mechanism will lose the function of timely early warning.

2.2. Relevant Laws and Regulations are Imperfect

The imperfection of laws and regulations is the biggest institutional defect in all aspects of society. It is still imperfect in the management of relevant public emergencies. The state has not improved laws and regulations to achieve unified emergency management, nor has it issued specific laws and regulations on emergencies. According to the current public emergency management laws and regulations, the applicability is not strong and the system is not perfect. There are only emergency response law of the people's Republic of China, martial law, regulations on the administration of public emergencies and other existing laws and regulations. Although these existing laws and regulations have too many defects, the defects of these laws and regulations are also obvious. For example, these published laws only apply to certain public emergencies. If there are other public emergencies in which these laws do not apply, our government is often in an embarrassing situation in which there is no basis.

2.3. Backward Concept of Emergency Management

At this stage, the basic problems of local governments in dealing with public emergencies can be summarized as: lack of concept, lack of mechanism and lack of consciousness. Local governments in China have poor awareness of emergency prevention and management, and do not understand the importance of improving public emergency prevention awareness. The government did not pay enough attention to the concept of emergency management, and did not put the concept of emergency management in an important position. In most cases, the government will wait for public emergencies before dealing with them. The concept of emergency management always stays at the level of public emergencies. The concept of emergency management has never been discussed at the center of work, and there is insufficient information on prevention. Always escape or carry the pot after the event, and often start looking for emergency measures to solve public emergencies after the actual occurrence of public emergencies, which will always amplify the harm of emergencies and damage their own image.

2.4. Imperfect Crisis Early Warning Mechanism

A key link in establishing the early warning mechanism of public emergencies is to improve the crisis early warning mechanism. However, at this stage, China's crisis early warning mechanism is worrying and has not comprehensively improved the early warning mechanism of public emergencies from top to bottom. At this stage, the emergency plan has a certain response mechanism for some public emergencies, but it can not directly and effectively solve the complex political, economic and social situation in China. The only and imperfect crisis early warning mechanism in China can not guarantee the diversified public emergencies in China. With the rapid development of China's economy, the environment has become more and more complex, but the early warning mechanism is very backward. The early warning theory in response to public emergencies lacks professionalism and pertinence, and there is no early warning mechanism with a unified concept from top to bottom. We can only rely on the oral publicity of individual local government departments, which seriously hinders the establishment and improvement of China's overall public emergency early warning mechanism.

3. Corresponding Countermeasures of Public Emergency Early Warning Mechanism

If the emergency management of public emergencies does not pay attention to the early warning stage, the whole emergency system will not operate effectively, and finally pay a heavy price due to poor prevention. Establishing a scientific and effective government early warning mechanism that meets the requirements of building a harmonious society is the basic premise of modern governance. At the same time of social development, we also need a complete early warning mechanism, especially to deal with recent public emergencies, which are marginalized and cumulative risks. The establishment of early warning mechanism is a systematic project, which requires coordination and cooperation in organizational system, system, operation and social resources.

3.1. Improve the Early Warning Information System

Comprehensive collection and sorting of risk information is the main basis for early warning of public emergencies. Therefore, it is necessary to establish a fast, accurate, sensitive and efficient early warning information system. The purpose of the data collection system is to collect and sort out the data with risk markers and list the possible risk information. In the early warning system, the information system is the core of the whole early warning system. Collecting and testing risk information in time can reduce or even avoid relevant losses. On the contrary, if the risk early warning information is not perfect, it will cause huge direct and indirect losses to people and property. Information can be collected through mass media, on-site investigation, professional monitoring, big data analysis, etc.

3.2. Improve Relevant Laws and Regulations

After years of development, China's emergency management has also formulated and published some relevant laws and regulations to deal with public emergencies, and achieved some results in practical application. However, the laws and regulations on the early warning mechanism need to be improved. Therefore, the establishment of a relatively complete and institutionalized early warning mechanism will play an important reference and guiding role in the early warning work. Some foreign countries focus on improving emergency management laws and regulations in order to better respond to public emergencies. For example, the U.S. government's practice of improving the early warning legal mechanism, in addition to having a complete social emergency system such as the National Security Act, the National Emergency Act and the Stanford act, has also formulated hundreds of laws and regulations. It provides a solid legal basis for the implementation of the early warning mechanism of public health

emergencies. Our government can combine the actual situation of domestic public emergencies and learn from relevant foreign legal systems, gradually improve the laws and regulations of China's early warning mechanism, carry out work according to law, and improve the overall risk monitoring and early warning.

3.3. Establish a Correct Emergency Concept

Because our government does not pay enough attention to the emergency measures of public emergencies, we often feel at a loss when dealing with them. The local government should arrange training and regular education for all relevant personnel responsible for public emergency prevention and information, integrate the concept of public emergency prevention into the minds of all senior managers, let them pay attention to the importance of public emergency from the beginning, and raise their ideological awareness to the spiritual level, continuously improve the awareness of preventing public emergencies; Correctly understand the general emergency early warning, master the basic knowledge of general emergency prevention and skillfully use it; Understand the concept and ideas of prevention, organize relevant personnel to take relevant examinations on emergency prevention, and regularly review everyone's learning. Only when the higher-level government has done a good job can it have the confidence to publicize and educate the grass-roots leaders and the people, and explain to the people.

3.4. We Will Improve the Crisis Early Warning Mechanism

National decision-making organs should make efforts in unified leadership, put the general emergency early warning mechanism in the forefront of combating public health emergencies through the comprehensive deployment of various units of state organs, and establish emergency early warning departments. We need to do comprehensive practical work in establishing the emergency early warning mechanism, rather than stay on the surface and carry out a lot of publicity. We must standardize the system within the Department, standardize the tasks of the heads of various departments, strictly require the professional ethics of the heads, and ensure that the early warning work is actually put forward in practice, Under the command of the overall situation, the public emergency pre-warning department shall ensure the improvement of the national public emergency early warning mechanism, and do a good job in establishing a comprehensive general emergency early warning system. Political guarantee is the premise of early warning mechanism. The early warning mechanism of our country's economy should be established, and the early warning mechanism of our country's human and financial resources should be established and improved step by step.

4. Summary

In today's social transformation and development, due to the superposition of various reasons, the occurrence of public emergencies is inevitable, but we can prevent and control public emergencies through early warning. Doing a good job of early warning of public emergencies can delay the occurrence of public emergencies, reduce the intensity of hazards, and reduce and control the scope of hazards. Although China's current emergency early warning mechanism is not perfect, I believe that with the efforts of our government, we will be able to establish a scientific, reasonable and effective early warning mechanism for public emergencies, so as to make our society more prosperous and stable.

References

- [1] Xie X, Yang Y. Research on the Evaluation and Promotion Path of Local Government's Network Public Opinion Response Ability[J]. Journal of Modern Information, 2020.
- [2] J Chmiel. Evaluation of the effectiveness of early warning models on the example of enterprises operating in SEZ[J]. Zeszyty Naukowe Maopolskiej Wyszey Szkoy Ekonomicznej w Tarnowie / The Malopolska School of Economics in Tarnow Research Papers Collection, 2020.
- [3] Jevon P, Shamsi S. Using National Early Warning Score (NEWS) 2 to help manage medical emergencies in the dental practice[J]. British dental journal official journal of the British Dental Association: BDJ online, 2020, 229(5):292-296.
- [4] Peng L J , Shao X G , Huang W M . Research on the Early-Warning Model of Network Public Opinion of Major Emergencies[J]. IEEE Access, 2021, PP(99):1-1.
- [5] Yang X , Wu H , Ren S , et al. Does the development of the internet contribute to air pollution control in China? Mechanism discussion and empirical test[J]. Structural Change and Economic Dynamics, 2020.
- [6] Wu B , Wu C . Research on the mechanism of knowledge diffusion in the MOOC learning forum using ERGMs[J]. Computers & Education, 2021, 173(3):104295.
- [7] Sheehan M C , Fox M A. Early Warnings: The Lessons of COVID-19 for Public Health Climate Preparedness[J]. International Journal of Health Services, 2020, 50(3):264-270.
- [8] Zhang F , Sun Z , Cui J. Research on the mechanism and reaction conditions of electrochemical preparation of persulfate in a split-cell reactor using BDD anode[J]. RSC Advances, 2020, 10.
- [9] Mala P , Abubakar A , Takeuchi A , et al. Structure, function and performance of Early Warning Alert and Response Network (EWARN) in emergencies in the Eastern Mediterranean Region[J]. International Journal of Infectious Diseases, 2021.
- [10] Zlab C , Ql A , Jqb C, et al. In situ water immersion research on the formation mechanism of collapsible earth fissures - ScienceDirect[J]. Engineering Geology, 2020.