THE RELATIONSHIP BETWEEN URBAN COMMUNITY COLLABORATIVE GOVERNANCE AND BUILDING RESILIENCE CITIES IN ZHENGZHOU CITY, HENAN PROVINCE, CHINA

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\textbf{ARTICLE INFO}

\textbf{Article history:}
Received 20 June 2023
Accepted 14 September 2023

\textbf{Keywords:}
Urban Community Collaborative Governance; Building Resilience Cities; Synergistic Governance Theory.

\textbf{ABSTRACT}

\textbf{Purpose:} This study explores the impact of urban community collaborative governance on building resilience cities.

\textbf{Theoretical framework:} The Synergistic Governance Theory (SGT) was applied in this study.

\textbf{Design/Methodology/Approach:} The population of this study is the community of Zhengzhou City, Henan Province, China. The unit of analysis is individuals living in the community of Zhengzhou City. Through random sampling method, 384 community residents were selected to participate in the research. This study used a questionnaire survey method to obtain primary data for analysis.

\textbf{Findings:} The results of the study show that (1) there is a significant positive correlation between government regulation, corporate capabilities, social organization involvement and building resilience cities. (2) Strengthening government regulation, corporate capabilities, and social organization involvement can effectively strengthen urban community collaborative governance, which is beneficial to building resilience cities. Thus, it is favorable to building Resilience Cities.

\textbf{Research, Practical & Social implications:} This research will be useful in creating a new model of urban community governance that will enhance the ability of cities to cope with disasters and achieve the goal of building resilient cities. A multifaceted and collaborative urban community governance model will be developed by strengthening the collaboration of the three groups - government, corporations, and social organizations, in order to ensure that the collaborative urban community governance model promotes the city's ability to cope with disasters, thereby enhancing the city's resilience. Enhancing urban resilience can fundamentally improve residents' ability to cope with the potential risks that persist in cities, thereby resolving social conflicts and satisfying people's pursuit of a better life.

\textbf{Originality/Value:} This study presents an innovative form of urban community management model that provides valuable insights on the impact of collaborative urban community governance models on resilient city buildings.

Doi: https://doi.org/10.26668/businessreview/2023.v8i9.3561

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La relación entre la gobernanza colaborativa comunitaria urbana y la construcción de ciudades resilientes en la ciudad de Zhengzhou, provincia de Henan, China

Resumen
Objetivo: Este estudio explora el impacto de la gobernanza colaborativa comunitaria urbana en la construcción de ciudades resilientes.

Marco teórico: En este estudio se aplicó la teoría de la gobernanza sinérgica (TSG).

Diseño/Metodología/Enfoque: La población de este estudio es la comunidad de la ciudad de Zhengzhou, provincia de Henan, China. Los individuos que viven en la comunidad de la ciudad de Zhengzhou fueron seleccionados para participar en la pesquisa. Se utilizó un método de pesquisa de cuestionario para obtener datos primarios para análisis.

Construcciones: Los resultados del estudio muestran que (1) existe una correlación positiva significativa entre la gobernanza colaborativa comunitaria urbana y la construcción de ciudades resilientes. (2) El fortalecimiento de la gobernanza colaborativa comunitaria urbana mejora la capacidad de las ciudades para hacer frente a los desastres y alcanzar el objetivo de construir ciudades resilientes. Por lo tanto, es favorable a la construcción de Ciudades Resilientes.

Investigación, Implicaciones prácticas y Sociales: Esta investigación será útil para crear un nuevo modelo de gobernanza comunitaria urbana que mejore la capacidad de las ciudades para hacer frente a los desastres y alcanzar el objetivo de construir ciudades resilientes. Se desarrollará un modelo de gobernanza comunitaria urbana multifacético y colaborativo para asegurar que el modelo de gobernanza comunitaria urbana colaborativa promueva la capacidad de la ciudad para hacer frente a los desastres, mejorando así la resiliencia de la ciudad. Mejorar la resiliencia urbana puede mejorar fundamentalmente la capacidad de los residentes para hacer frente a los riesgos.
The Relationship Between Urban Community Collaborative Governance and Building Resilience Cities in Zhengzhou City, Henan Province, China

Yuxi, H., Ahmad, A., Talib, Z. M. (2023)

INTRODUCTORY

Urban is the microcosm of human civilization, and it is an essential change in the long history of human existence. Since the industrial revolution in Britain, urbanization has been accelerating worldwide, and the management mechanism of the urban community has also been changing. Since China's reform and opening up, urbanization has grown two times faster than the world's average rate of urbanization over the same period (Li et al., 2020). Therefore, the urban community is the basic unit for building cities, and urban community development is closely related to urban construction. In recent years, the evolution of China's political system, the rapid growth of Internet technology, and the highlighting of social pain point problems all indicate that urban development has entered a period of acute change, and there is an urgent need for a new model of urban management to cope with the complex problems arising in cities (Luo Haimei, 2022; Wang Yanhua, 2023; Xie et al., 2022). Therefore, building resilient cities has emerged as a new way of solving complex problems (Fan et al., 2022). There is a strong correlation between building resilient cities and urban communities (Wang Dianli, 2022). Improving urban community governance, mechanisms can solve the pain point problems in cities and effectively enhance building resilience cities (Chen et al., 2023). Therefore, this study combines historical literature and proposes the mechanism of urban community collaborative governance to improve the urban governance mechanism further and provide a new path for building resilient cities. In summary, this study conducts a correlation study between urban community collaborative governance and building resilient cities, which is significant for urban development in China.

In this study, the residents of Zhengzhou City, Henan Province, China, were selected as the study population, and the individuals among the residents were used as the unit of analysis. Accurately capture the essential components of the urban community management process, Governmental Organization, Corporate Organization, and Social Organization. By examining the daily status of urban community governance, it can be found that the regulatory role of the Governmental Organization does not play a significant enough role (Prianto,
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Abdillah, 2023). Corporate Organization does not fully utilize its capabilities (Wardekker, 2023). Social organizations are not sufficiently involved in the urban community governance process, among other phenomena (Ro, Garfin, 2023). By analyzing these phenomena, it is possible to summarize the problems of incoherence in the management process of these three groups, the lack of apparent roles, and the conflict of interest in their daily functioning. Therefore, this study, in terms of the value of research. On the one hand, urban community collaborative governance can effectively alleviate the above problems, and on the other hand, building resilient cities urgently need changes in urban community management mechanisms, which can help to enhance building resilient cities. In summary, there is an urgent need for an in-depth exploration of the correlation between urban community collaborative governance and building resilient cities.

Existing related literature is mainly from two aspects of urban community collaborative governance and building resilient cities. Huang Ling, Zheng Yiao, Luo Junhang, and Xu Jianfeng (2023) stated in their study that urban community collaborative governance is needed in urban community governance, so the government mainly assumes the responsibility of supervision in the governance process. Therefore, uncoordinated management is caused by the lack of government supervision. Thus, the Governmental Organization should fully play its supervisory role to promote the construction of collaborative governance mechanisms in urban communities. Li Jian, Li Yujie (2022) In the study, it is stated that mega-city development has become a trend in China and that this development pattern has formed "The paradox of urban development." Therefore, based on the theory of public service chain and modularization, the combination of chain and block effectively enhances urban community collaborative governance. In these chains, corporate development has become a vital link, especially in strengthening the capacity of enterprises, which can effectively improve the capacity and supply of public services in urban communities, thus forming a diversified body of services. Sun Bisheng (2022) stated that as the modernization of cities continues, the risk to urban communities is also increasing. Therefore, the power of urban community collaborative governance requires the participation of social organizations and the use of modern governance techniques to enhance the ability of urban communities to respond to public crises. Xu Feng and Chen Qirong (2023) stated that the urban community is the "end" of the urban governance unit. Thus, building resilience cities must be strengthened by improving community governance systems. Therefore, urban community collaborative governance can effectively complement the deficiencies in modern urban community governance, thus opening up the critical points of
urban community governance and realizing the internal microcirculation in urban community governance. Therefore, urban community collaborative governance can effectively enhance building resilience cities. Terblanche, De Sousa, and Van Niekerk (2022) stated that strengthening and building resilient cities can effectively respond to current and future risks. For the City of Tshwane, building resilient cities is a massive challenge as it requires the shared commitment and cooperation of different players in the city. Therefore, in the process of constructing the resilient cities framework, urban community collaborative governance is required. Apostu, Vasile, Vasile, & Rosak-Szyrocka (2022) stated that during COVID-19, Smart Cities contributed significantly to the fight against the epidemic in urban communities. Smart Cities are socio-economic systems created by governmental, corporate, and social organizations. Therefore, in building resilient cities, the correlation between Smart Cities and urban community collaborative governance is strong and can effectively influence building resilient cities.

In summary, it can be seen by examining the existing historical literature that many scholars have studied the correlation between urban community collaborative governance and urban community collaborative governance, which has been very fruitful and provides a substantial reference value for this study. However, it is different for the body of research on urban community collaborative governance. Fewer studies integrate governmental organizations, corporate organizations, and social organizations into urban community collaborative management, and fewer studies correlate them with building resilience city. Regarding research methodology, a large amount of historical literature is analyzed through descriptive analyses, typical case studies, and literature review types of comments are more frequent, but the use of structural modeling equations is less frequent. Therefore, based on Synergistic Governance Theory (SGT), this study identifies urban community collaborative governance research subjects as three areas: governmental organization, corporate organization, and social organization. Based on the historical literature, the duties of the three subjects are divided into the regulatory responsibilities of the Governmental Organisation, the capacity enhancement duties of the Corporate Organisation, and the active participation duties of the Social Organisation. Therefore, the variables of this study are Government Regulation (GR), Corporate Capabilities (CC), Social Organisation Involvement (SOI), and Building Resilience Cities (BRC). The problems and causes in urban community collaborative governance are further identified by analyzing the correlation between the variables, thus providing a theoretical basis for promoting building resilient cities.
RESEARCH MODELS AND HYPOTHESES

Research Models

Stephen Greenwood, Laurel Singer, Wendy Willis in “Collaborative Governance: Principles, Processes, and Practical Tools,” The National Policy Consensus Center (NPCC), in its grassroots stewardship work, has facilitated hundreds of collaborative governance projects in each of Oregon's states, contributing significantly to the city's growth. Therefore, this study focuses on urban community collaborative governance. Urban community collaborative governance is based on the evolution of Synergistic Governance Theory (SGT). The main research subjects in urban communities are government organizations, corporate organizations, and social organizations. By reviewing the historical literature, the subjective responsibility of the Governmental Organization is clarified as the duty of supervision, the subjective responsibility of the Corporate Organization is clarified as the duty of competence, and the subjective responsibility of the Social Organization is clarified as the duty of active participation. Therefore, this study takes how to enhance Urban Community Collaborative Governance (UCCG) as a research component and identifies Governmental Regulation (GR), Corporate Capabilities (CC), and Social Organization Involvement (SOI) as independent variables. Lawrence J. Vale, in “The Resilient City: How Modern Cities Recover from Disaster” states that a large number of cities have been destroyed in disasters. However, these cities have been rebuilt after the destruction and there are a variety of commonalities and significant differences in post-disaster urban reconstruction. The study of these issues enables exploring the value of building resilient cities. From the research literature in recent years, building resilient cities is a hotspot of urban management research in recent years (Qu, 2023). The role of urban community collaborative governance in building resilient cities cannot be ignored, and research on the correlation between the two has become an inevitable topic. Therefore, the dependent variable for this study was determined to be Building Resilience Cities (BRC).

Based on Synergistic Governance Theory (SGT), this study hypothesizes that the three subjects of urban community collaborative governance, government regulation, corporate capabilities, social organizational involvement, and building resilience cities are correlated and can influence each other. Based on this, this study proposes a hypothetical correlation model between urban community collaborative governance and building resilient cities. This is shown in the figure below.
Research Hypothesis

This study mainly used three different management bodies, the governmental, the corporate, and the social organizations, in collaborative urban community governance. Description of the research variables according to the different subjects' social values. Therefore, the primary research in this study is that there is a correlation between Governmental Regulation (GR), Corporate Capabilities (CC), Social Organisation Involvement (SOI), and Building Resilience Cities (BRC). In terms of enhancing the safety of urban communities, there is a need to look at several aspects such as technology, management, and culture, and the better the level of government regulation of these three aspects, the better it will be for building resilience cities (Fan Weicheng, 2022). It can be inferred that there is a positive and significant effect between governmental regulation and building resilient cities. Building resilient cities is a complex task, and urban development requires continuous innovation in science and technology. Enterprises can make up for the lack of this aspect and give full play to the ability of enterprises to help build resilient cities (Yang Rongjun, 2022). Accordingly, it can be inferred that corporate capabilities and building resilient cities have a positive and significant effect. Social governance needs community, and urban community governance is inseparable from community participation. The current community management does not play to the self-worth of social organizations. Only by constantly improving the participation of social organizations is it possible to improve the management mechanism of the community and can strengthen the building resilience cities (Li Xingguo, 2023). It can be inferred that there is a positive and
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There is a significant effect between Social Organisation Involvement and building resilient cities. Therefore, the following hypotheses are proposed in this paper:

H1: There is a significant positive correlation between governmental regulation in building resilient cities.

H2: There is a significant positive correlation between corporate capabilities in building resilient cities.

H3: There is a significant positive correlation between social organization involvement in building resilient cities.

RESEARCH METHODOLOGY

Scale Design

The scale for this study was firstly designed based on the variable indicators of previous researchers as a reference and then based on the content of the research expected to be investigated in this study. At the same time, this scale was designed independently, so a pre-survey was required. The address of this study is Zhengzhou City, Henan Province, China. Henan Province is one of the most populous countries in China, and Zhengzhou City is the capital of Henan Province, so it is of general statistical significance to carry out a study on Zhengzhou City. Therefore, conducting a study on Zhengzhou City is of general statistical significance. The pre-research was conducted with community residents. By checking the relevance and reliability of the indicators in the questionnaire scales, it was possible to determine whether the questionnaire met the research needs.

In the pre-researched, 35 questionnaires were distributed, and 30 valid questionnaires were obtained after excluding questionnaires that did not meet the requirements. The options were all the same, and the options were missing. The questionnaires collected were collated and analyzed, and through Project Analyses (PA) and Exploratory Factor Analysis (EFA), it was possible to find out that the test results excluded selections with Factor Loadings (FL) less than 0.5.

The scale is based on the Likert Scale (Likert Rensis, 1932), with values 1-5 corresponding to five different levels of responses, namely, "Strongly Disagree, Disagree, Unsure, Agree, Strongly Agree." Finally, the following valid questionnaires were obtained.
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As of December 2022, the resident population of Zhengzhou City is 12,828,000 (values from Zhengzhou City Demographic Development Report). According to Sample Size Determination Using Krejcie and Morgan Table (Krejcie & Morgan, 1970), the count of the whole population (N) is more than 1,000,000, and the sample size (n) has to be 384 people. Therefore, the number in this sample was determined to be 384. To ensure the comprehensiveness of the study data, the questionnaire was distributed in 84 street offices in six jurisdictions of Zhengzhou City. Since this study used a web-based questionnaire, which

<table>
<thead>
<tr>
<th>variant</th>
<th>code</th>
<th>Indicator content</th>
<th>Literature sources</th>
</tr>
</thead>
<tbody>
<tr>
<td>Governmental Regulation (GR)</td>
<td>GR-1</td>
<td>The Governmental Organisation has strengthened its community regulation, contributing to enhancing community management mechanisms.</td>
<td>Dushkova, Haase (2023)</td>
</tr>
<tr>
<td></td>
<td>GR-2</td>
<td>I am very much in favor of the government maximizing the benefits of its regulatory efforts. Government regulation is in place to effectively promote the resilience of urban communities to disasters.</td>
<td>Sun Demin (2023)</td>
</tr>
<tr>
<td></td>
<td>GR-3</td>
<td>Government regulation is in place to effectively promote the resilience of urban communities to disasters.</td>
<td>Zhou Limin, Chen Ying (2022)</td>
</tr>
<tr>
<td>Corporate Capabilities (CC)</td>
<td>CC-1</td>
<td>Corporate organizations entirely use their capabilities and contribute to community management capacities.</td>
<td>Leng Xiangming, Gu Shuang (2022)</td>
</tr>
<tr>
<td></td>
<td>CC-2</td>
<td>Enterprises have built up a large amount of unleashed resilience to urban disasters in the course of development. Fully utilizing the capacity of businesses contributes to strengthening the resilience of urban communities to disasters.</td>
<td>Umar, Wilson (2021)</td>
</tr>
<tr>
<td></td>
<td>CC-3</td>
<td>The active involvement of social organizations in community management strengthens community management mechanisms.</td>
<td>Yi Feng, Chien-Chiang Le, Diyun Peng (2023)</td>
</tr>
<tr>
<td>Social Organization Involvement (SOI)</td>
<td>SOI-1</td>
<td>The greater the number of social organizations involved, the better for urban community management. Thoroughly motivating social organizations to participate in social affairs helps to stimulate the resilience of urban communities to disasters. Improved mechanisms for collaborative governance in urban communities can promote Building Resilience Cities.</td>
<td>Allam, Sharifi, Bibri, Jones, Krogstie (2022)</td>
</tr>
<tr>
<td></td>
<td>SOI-2</td>
<td>Thoroughly motivating social organizations to participate in social affairs helps to stimulate the resilience of urban communities to disasters.</td>
<td>Zhang Xiaojie, Han Xinhong (2021)</td>
</tr>
<tr>
<td>Building Resilience Cities (BRC)</td>
<td>BRC 1</td>
<td>Improved mechanisms for collaborative governance in urban communities can promote Building Resilience Cities.</td>
<td>Nop, Thornton, Tranter (2023)</td>
</tr>
<tr>
<td></td>
<td>BRC 2</td>
<td>Building Resilience Cities requires Greater Government Regulation. Building Resilience Cities requires businesses to engage in the governance of urban communities and to be fully self-efficient.</td>
<td>Xu Jialiang, Ji Xi (2022)</td>
</tr>
<tr>
<td></td>
<td>BRC 3</td>
<td>Building Resilience Cities requires the active involvement of social organizations in the governance of urban communities.</td>
<td>Zhao Zheng, Xia Qing, Zhang Xuemei, &amp; Zhang Yuchun (2022)</td>
</tr>
<tr>
<td></td>
<td>BRC 4</td>
<td>Building Resilience Cities requires the active involvement of social organizations in the governance of urban communities.</td>
<td>Zhang Chunye, Zhu Yuxin (2022)</td>
</tr>
</tbody>
</table>

Source: Edited by the author from historical documents
The phenomenon of missing research data or inaccurate research subjects, each street office issued five questionnaires for residents of the community under its jurisdiction to fill in, so a total of 420 questionnaires were issued. Excluding unqualified questionnaires such as options are all the same and options are missing, the number of valid questionnaires recovered was 384, which is a 91.4% recovery rate.

**Sample Situation**

In this study, 384 valid questionnaires were analyzed descriptively. The analysis is based on gender, area of residence, age, and length of time living in the community to determine the characteristics of the research population. The specific analysis is as follows. The basic information of the respondents is shown in the table below.

<table>
<thead>
<tr>
<th>Statistical characteristics</th>
<th>Classified indicators</th>
<th>Quorum (position)</th>
<th>Percentage share (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Genders</td>
<td>Male</td>
<td>172</td>
<td>44.8</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>212</td>
<td>55.2</td>
</tr>
<tr>
<td>Residential area</td>
<td>Jinghai District</td>
<td>110</td>
<td>28.6</td>
</tr>
<tr>
<td></td>
<td>Erqi District</td>
<td>74</td>
<td>19.3</td>
</tr>
<tr>
<td></td>
<td>Zhongyuan District</td>
<td>72</td>
<td>18.8</td>
</tr>
<tr>
<td></td>
<td>Huiji District</td>
<td>36</td>
<td>9.4</td>
</tr>
<tr>
<td></td>
<td>Guancheng District</td>
<td>64</td>
<td>16.7</td>
</tr>
<tr>
<td></td>
<td>Shangjie District</td>
<td>28</td>
<td>7.3</td>
</tr>
<tr>
<td></td>
<td>Less than 18 years old</td>
<td>37</td>
<td>9.6</td>
</tr>
<tr>
<td></td>
<td>19-30 years old</td>
<td>143</td>
<td>37.2</td>
</tr>
<tr>
<td></td>
<td>31-50 years old</td>
<td>179</td>
<td>46.6</td>
</tr>
<tr>
<td></td>
<td>More than 51 years old</td>
<td>25</td>
<td>6.5</td>
</tr>
<tr>
<td></td>
<td>0-5 years</td>
<td>183</td>
<td>47.7</td>
</tr>
<tr>
<td>Duration of residence in the community</td>
<td>6-10 years</td>
<td>132</td>
<td>34.4</td>
</tr>
<tr>
<td></td>
<td>11-15 years</td>
<td>46</td>
<td>12.0</td>
</tr>
<tr>
<td></td>
<td>More than 15 years</td>
<td>23</td>
<td>6.0</td>
</tr>
</tbody>
</table>

Source: Authors Data

In the gender distribution, as can be seen, the proportion of women is higher than that of men. As some families in Zhengzhou City have men working outside the home, most women live and work around the neighborhoods where they live, so women better understand community management.

In terms of distribution by area of residence, Since the distribution for this study was 5 copies for each street office, the number of copies recovered from each street office was also 5. After excluding invalid questionnaires, the following data were obtained. As can be seen, the number of street offices varies from region to region. Jinghai District has a significantly higher
number of neighborhood offices than Shangjie District, even quadrupling the data. It can be seen that the population of Zhengzhou City shows an uneven distribution.

In terms of age distribution, more people completed the questionnaire 31-50 years old. Therefore, it can be inferred that more young and middle-aged people live in the neighborhoods of Zhengzhou City, while the elderly and minors live in smaller numbers. At the same time, because young people often communicate with community managers on matters of business, they have a higher degree of understanding of the community, and young people pay more attention to the management of the community and the construction of the city, which is more conducive to the development of the city.

In terms of the breakdown of time spent living in the community. The combined total of community residents aged 0-5 years and 6-10 years amounted to 82%. It can be seen that Zhengzhou City's community development is relatively late. Many people are new to living in the city, and the city's community building is also relatively late. As a result, many people have entered Zhengzhou city to work and live in the last decade. At the same time, it analyses the political context of urban development in Zhengzhou City. 2003, since the implementation of China's "Rise of the Central Plains Programme," Zhengzhou City has been expanding over the past 20 years, reaching unprecedented heights in terms of area, population, and economy. Therefore, urban community development and building resilient cities in Zhengzhou City is relatively arduous.

As seen from the above analyses, the subjects studied present the following characteristics: a predominance of women, uneven population distribution, many young and middle-aged groups, and the late development of urban communities. The above characteristics are consistent with the overall distribution characteristics of the current urban residential population.

EMPIRICAL TEST RESULTS AND ANALYSES

Reliability and Validity Analyses

This study used SPSS 26.0 data analysis software to analyze the 13 question items in the scale. The results show that the Cronbach'a value of the different dimensionality is between 0.816 and 0.860 (0.8 < Cronbach'a < 0.9), which indicates that the scale’s reliability is excellent, the reliability is higher, and the stability is better, the questionnaire has a good consistency.
In this paper, Validity was tested by Exploratory Factor Analysis of the scale, measured by KMO, Bartlett Bartlett's Test of Sphericity, and cumulative variance contribution rate. The result shows that KMO=0.872>0.8 indicates that scale data has good Validity. Bartlett's Test of Sphericity shows that Similar Chi-Squared Test=2295.236, df =78, Sig=0.000 This shows that the scale Unified Validity can be better and is appropriate for variable Factor Analysis.

In addition, for the 13 questions in scale, the common factor of scale data is extracted by Maximal rotation of variance and eigenvalue >1. According to the principal component feature, for PCA > 1 criterion, hcf = 5, Cumulative of Variance = 73.728% > 50%. It can be seen that the common factor can explain these four variables, and the results of Factor Analysis present suitable, these four variables can be effective in extracting the information of the research item. In addition, 0.837 < CR < 0.866 (CR > 0.7) and 0.617 < AVE < 0.66 (AVE > 0.5) for each latent variable, indicating that the Latent variable has better convergent validity. The specific analysis is shown in the table below.

<table>
<thead>
<tr>
<th>Dimensionality</th>
<th>Variant</th>
<th>Regression weights</th>
<th>Cronbach'a</th>
<th>CR</th>
<th>AVE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Governmental Regulation (GR)</td>
<td>GR-1</td>
<td>0.798</td>
<td>0.828</td>
<td>0.8530.660</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GR-2</td>
<td>0.827</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>GR-3</td>
<td>0.812</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CC-1</td>
<td>0.782</td>
<td>0.816</td>
<td>0.8370.632</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CC-2</td>
<td>0.831</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CC-3</td>
<td>0.770</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Corporate Capabilities (CC)</td>
<td>SOI-1</td>
<td>0.843</td>
<td>0.835</td>
<td>0.8570.666</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SOI-2</td>
<td>0.807</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SOI-3</td>
<td>0.797</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>BRC 1</td>
<td>0.780</td>
<td>0.860</td>
<td>0.8660.617</td>
<td></td>
</tr>
<tr>
<td></td>
<td>BRC 2</td>
<td>0.785</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>BRC 3</td>
<td>0.767</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>BRC 4</td>
<td>0.809</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Source: Authors Data

Meanwhile, this study further explores the research model through the correlation table of discrimination validity. Correlation analysis showed that GR (r=0.421, p=0.01), CC (r=0.463, p=0.01), SOI (r=0.385, p=0.01), and BRC showed a significant positive correlation at the 1% level. Relationship. The details are shown in the table below.
Table 4. Correlation coefficient between each latent variable

<table>
<thead>
<tr>
<th></th>
<th>GR</th>
<th>CC</th>
<th>SOI</th>
<th>UCCG</th>
<th>BRC</th>
</tr>
</thead>
<tbody>
<tr>
<td>GR</td>
<td>0.812</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CC</td>
<td>0.410**</td>
<td>0.795</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOI</td>
<td>0.379**</td>
<td>0.383**</td>
<td>0.816</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BRC</td>
<td>0.421**</td>
<td>0.463**</td>
<td>0.385**</td>
<td>0.424**</td>
<td>0.785</td>
</tr>
</tbody>
</table>

(Square root of AVE value)
(* p<0.05, ** p<0.01 *** p<0.001)
Source: Authors Data

Meanwhile, the minimum value of the square root of AVE value of each Latent variable located on the diagonal is 0.785, which is greater than the maximum value of the Correlation coefficient of each Latent variable located on the off-diagonal is 0.463, i.e. The value of correlation coefficient between each latent variable is less than the square root of AVE value of each latent variable. This indicates that the discrimination validity of the model is better.

**MODEL ANALYSIS AND DISCUSSION**

**Research Model**

Based on the above test and analysis, the SmartPLS software calculates the established Structural Equation Model (SEM), and the standardized paths are obtained, as shown in the figure below. After obtaining the SEM, further path inspection and analysis can be carried out.

Figure 2. Diagram of the overall study model

Source: Authors Data
Goodness of Fit of the Model

In this study, the Smart PLS data analysis software was used to perform goodness of fit for the established Structural Equation Model (SEM). After modification indices for goodness of fit, the results of curve fitting are tabulated in the following table.

<table>
<thead>
<tr>
<th>Curve fitting indicator</th>
<th>Inspection Standards</th>
<th>Inspection Value</th>
<th>Inspection Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chi-square</td>
<td>-</td>
<td>350.137</td>
<td>-</td>
</tr>
<tr>
<td>SRMR</td>
<td>&lt;0.08</td>
<td>0.055</td>
<td>Fit</td>
</tr>
<tr>
<td>d_ULS</td>
<td>&lt;0.95</td>
<td>0.273</td>
<td>Fit</td>
</tr>
<tr>
<td>d_G</td>
<td>&lt;0.95</td>
<td>0.150</td>
<td>Fit</td>
</tr>
<tr>
<td>NFI</td>
<td>&gt;0.9</td>
<td>0.850</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

Source: Authors Data

The following metrics were used in this study to measure the curvilinear fitting of the measurement model: SRMR = 0.055 (<0.08), d_ULS = 0.273 (<0.95), d_G = 0.150(<0.95), and NFI = 0.850 (0.80 <NFI <0.09). It can be seen from the above that the results of the model test satisfy the range of judgmental criterion values. This indicates that the model has an excellent assessing fit degree for the sample data group.

Roadside Inspection

In this study, the SEM path test analysis results mainly contain the coefficient of standardized paths between each latent variable of standardized error, T value, and P value. where the positive sign of the coefficient of paths meets, and the negative sign indicates the direction of the influence relationship between variables. The P-value mainly indicates the level of significance of the effect relationship. In the table, the p-values are less than 0.05, thus indicating that the two variables are significantly correlated at 95% Confidence limit, it is considered that there is a strong and significant influence relationship between the two variables, and the hypotheses can be further tested to see whether they are valid or not.

<table>
<thead>
<tr>
<th>Paths</th>
<th>β</th>
<th>S.E.</th>
<th>C.R.</th>
<th>P</th>
<th>LLCI</th>
<th>ULCI</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRC ← GR</td>
<td>0.298</td>
<td>0.050</td>
<td>5.978</td>
<td>***</td>
<td>0.199</td>
<td>0.393</td>
</tr>
<tr>
<td>BRC ← CC</td>
<td>0.230</td>
<td>0.049</td>
<td>4.687</td>
<td>***</td>
<td>0.132</td>
<td>0.327</td>
</tr>
<tr>
<td>BRC ← SOI</td>
<td>0.208</td>
<td>0.050</td>
<td>4.155</td>
<td>***</td>
<td>0.110</td>
<td>0.305</td>
</tr>
</tbody>
</table>

(* p<0.05, ** p<0.01 *** p<0.001)

Source: Authors Data

Hypothesis Testing

The following inferences can be made based on the above path test analysis results.
The path coefficient value of Governmental Regulation (GR) on Building Resilience Cities (BRC) is 0.298 >0. Moreover, this path presents a significant level of 0.001 ($p=0.000<0.001$), which indicates that Governmental Regulation (GR) has a positive and significant effect on Building Resilience Cities (BRC), and hypothesis H1 is valid. When community residents believe that strengthening the capacity of governmental regulation can promote the collaborative governance capacity of urban communities, which is conducive to building resilient cities. Most of the community residents surveyed believe that increasing the strength of governmental regulation and giving full play to the maximum benefits of governmental regulation can effectively improve the community's ability to resist disasters and that these measures are very favorable to building resilient cities. In other words, the stronger the government regulation, the more conducive it is to build resilient cities.

The path coefficient value of Corporate Capabilities (CC) in Building Resilience Cities (BRC) is 0.230 >0. Moreover, this path presents a significant 0.001 ($p=0.000<0.001$). It indicates that Corporate Capabilities (CC) positively and significantly affect Building Resilience Cities (BRC), and hypothesis H2 is valid. When community residents believe that strengthening corporate capabilities can promote the collaborative governance capacity of urban communities, thus contributing to building resilient cities. Most of the community residents studied believe that strengthening the self-efficacy of corporations themselves in community management and fully releasing corporations’ energy in responding to disasters can effectively enhance the community's ability to resist disasters and that these measures are favorable to building resilient cities. In other words, the greater the corporate capabilities, the more conducive to building resilient cities.

The path coefficient value of Social Organization Involvement (SOI) in Building Resilience Cities (BRC) is 0.208 >0. Moreover, this path presents a significant level of 0.001 ($p=0.000<0.001$), which indicates that Social Organization Involvement (SOI) has a positive and significant effect on Building Resilience Cities (BRC), and hypothesis H3 is valid. When community residents believe that enhancing the participation of social organizations involvement in community governance can promote the collaborative governance capacity of urban communities, thus contributing to building resilient cities. Among the community residents surveyed, most of them believe that social organizations need to participate in the process of community management actively, and the greater the number of people, the better the management mechanism, and that stimulating the participation of social organizations can enhance the community's ability to resist disasters, and that these measures are very beneficial.
to building resilience cities. In other words, the greater the participation of social organizations, the more conducive to building resilient cities.

CONCLUSIONS AND POLICY RECOMMENDATIONS

Conclusions of the Study

(1) There is a significant Positive correlation between Governmental Regulation (GR), Corporate Capabilities (CC), and Social Organization Involvement (SOI) in building resilient cities. Strengthening Government Regulation, Corporate Capabilities, and Social Organization Involvement can all contribute to building resilient cities. It should be noted that these three influences are only three factors affecting building resilient cities and are not representative of the full range of factors. Therefore, the reverse is invalid.

(2) It can be inferred from the above SEM, government regulation, corporate capabilities, and social organization involvement can all contribute to urban community collaborative governance. The reverse is invalid. However, these three factors only represent three factors that influence urban community collaborative governance and do not represent all of them. Therefore, reversal is not a valid judgment in this study. This study can make it clear that urban communities can construct a new governance system through the three aspects of government, companies, and social organizations, and through strengthening the collaboration among the three, to enhance the management capacity of urban communities and realize the modernization of the governance capacity and level of governance of urban communities, to provide new ideas for enhancing the building resilience cities set up.

POLICY RECOMMENDATIONS

Based on the above findings, it can be seen that: there is a significant positive correlation between the two. Meanwhile, there is a significant positive correlation between government regulation, corporate capabilities, social organization involvement, and building resilient cities. Therefore, strengthening government regulation, corporate capabilities, and social organization involvement will help strengthen urban community collaborative governance and contribute to building resilient cities. The strengthening of government regulation, corporate capabilities, and social organization involvement will help to strengthen urban community collaborative governance and help to promote the building of resilient cities.
In the process of urban community governance, there are two main problems regarding the strength of governmental regulation. First, there is insufficient leadership of the government theme. Secondly, the government's planning for collaborative governance is unclear. There are two main paths to the solution. First of all, government workers should constantly clarify their primary responsibilities, starting from the transformation of the content of the work position, the transformation of rules and regulations, etc., to fundamentally strengthen the government's strength in supervision and enhance the government's leadership in the community. Secondly, government units should organize more community work cases from the perspective of collaborative governance, prompting government staff to change their thinking, and strengthen their work capacity, by inviting professional community managers to do an excellent job of planning for the primary duties and responsibilities to lay the foundation for collaborative community governance.

In urban governance has two main problems regarding the performance of corporate capabilities. First, companies do not fully integrate themselves into community work. Secondly, enterprises’ capacity is insufficient to deal with risks in the community. There are two main paths to solving the problem. First of all, changing the thinking of corporate managers does not make the company independent of community management because the staff in the company, the business content of the company, and the development of corporate culture are all closely related to the development of the community. The prosperous development of companies requires the community to provide work and financial, and material resources. Therefore, in carrying out their work, corporations should integrate their management with that of the community to enhance the influence, role, and integration of corporations in society, thereby strengthening their capacity and contributing to community development. Secondly, there are large and small enterprises, fast and slow corporate development, and business enterprises involving all kinds of industries. Hence, the capacity of each enterprise is different. Some companies can quickly respond when a disaster occurs in the community. In contrast, others need the assistance of the government and society, so companies need to improve their ability to cope with disasters continuously. When a disaster occurs in the community, they can provide the community with people, money, and materials promptly to form a virtuous cycle.

In urban governance, there are two main problems with the positive aspects of social organization involvement. First, there is not enough recognition of social organizations. Secondly, there are not enough participants in social organizations. The two main issues addressed are as follows. First of all, the recognition of social organizations requires the
recognition of governmental units or professional bodies, and the formation, establishment, development, and growth of social organizations require the support of the government and enterprises, as well as the attention of other members of society to the group. For example, the government can release social organizations’ numbers, types, and application requirements through official platforms and offer reasonable incentives, thus prompting social organizations to be recognized by outsiders and thus enhancing their participation. Secondly, there are more types of social organizations. However, there is a significant lack of standardized training, reasonable exercises, and appropriate publicity, so many community residents are unaware of the existence of social organizations. This is especially true of people with specialized technical skills who provide value only in their workplaces and do not give full play to their social value. Therefore, extensive publicity and appropriate stimulation of the residents' enthusiasm can prompt the community residents to actively participate in social organizations when the community and the city encounter the disaster process. The timely formation of social organization groups with professional skills, organizational discipline, and professional equipment to respond to the occurrence of the disaster promptly, as far as possible, to reduce the risk of the occurrence of the disaster.

In promoting the functioning of government, enterprises, and social organizations, we are promoting the collaborative governance of urban communities, a model of community management that breaks down the "old system" and forms a "new pattern." It is also a management model that has evolved in the continuous development of urban society and is suitable for modern society. This model can promote the political and economic development of the city, but also to improve the living standards of the residents, more able to reduce the risk of the living environment of the residents, but also able to timely response to the arrival of the risk to enhance the resilience of the city in order to strengthen the residents in the city to live in the sense of security and happiness.

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