

Urban Planning from a City Design Perspective: Thoughts on Refined Management

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Abstract. The importance of city design in urban planning and construction is self-evident. It not only carries the mission of shaping the urban image and enhancing the quality of the city but also acts as a compass for the future direction of urban development. It plays an irreplaceable role in improving the level of urban planning, meeting the demands of urban development, and adapting to the overall socio-economic development level. With the acceleration of urbanization, city design is no longer a simple layout of buildings and space division. Instead, it requires a comprehensive consideration of economic, social, cultural, environmental, and other factors to achieve sustainable urban development. Therefore, based on the perspective of city design, strengthening the refined management of urban planning has become an important topic in the field of urban planning. The concept of refined management emphasizes control over details and optimization of the process. Integrating this concept into every aspect of urban planning can significantly improve the scientific and practical effectiveness of urban planning. In the process of city design, meticulous planning and design for every inch of land, every building, and every street ensure they meet people's daily needs, reflect the city's cultural heritage and distinctive features, satisfy people's longing for a better life, and inject new vitality into the city's prosperity and development.

Keywords: City Design; Urban Planning; Refined Management.

1. Introduction

With the continuous innovation and development of the socio-economic landscape, urban planning and management have received significant attention. This not only meets the increasingly beautiful life needs of the people but also provides strong support for the construction and development of the cause of socialism with Chinese characteristics. Urban planning, as the blueprint for urban development, is of paramount importance[1-3]. In practical urban planning work, it is necessary to take into account local culture and customs to ensure suitability. Each city has its unique historical and cultural background, which should be fully integrated into urban planning to make the city modern without losing its traditional charm. At the same time, urban planning must effectively combine history and the future. It should consider the city's historical context and cultural heritage, focusing on sustainable development and innovation driving in the future, ensuring urban development while not harming the interests of future generations. Therefore, the innovative application of the refined management concept, integrating it into every aspect of urban planning and development, is essential. Refined management focuses on detail and process optimization. Through data analysis and scientific decision-making, it improves the specificity and effectiveness of urban planning. At the overall level, it enhances the overall effect of urban planning, increases the city's attractiveness, and lays a solid foundation for sustainable urban development.

2. The Role of Refined Management in Urban Development

2.1. Improving the Quality of the Urban Environment

The refined management of urban planning plays a crucial role in improving the quality of the urban environment. This management method accurately predicts the future development direction of the city, draws a clear blueprint for sustainable development, deeply analyzes the demand for various types of urban land, and precisely plans the spatial layout to ensure a reasonable ratio of various

construction lands. This prevents interest conflicts caused by land type adjustments from the source. Refined management also involves strict control and governance of environmental pollution. Through scientific methods and means, it strengthens the monitoring of urban pollution sources, takes timely and effective measures to reduce pollutant emissions, and enhances urban greening to create a livable, business-friendly, and tourist-friendly urban environment. Additionally, refined management improves urban sanitation by enhancing city cleaning efforts and waste disposal efficiency, significantly enhancing the city's external image and increasing citizens' sense of achievement and happiness.

2.2. Promoting Urban Economic Development

To promote urban economic development, integrating the concept of refined management into urban planning and management work can optimize the urban business environment through scientific planning of urban spatial layout. Refined management provides a favorable development platform for various enterprises, attracting more high-quality businesses, increasing urban industrial agglomeration, and driving the upgrade of urban industrial structures[4-7]. Under the promotion of refined management, urban economy develops more efficiently and orderly, reducing external transaction costs for enterprises, minimizing unnecessary resource wastage, and improving operational efficiency. Refined management also effectively stimulates market vitality, encourages enterprise innovation, maintains urban development vitality, and supports sustainable urban development. Refined management also promotes the continuous development of the urban economy by scientifically planning the use of urban resources, promoting resource conservation and recycling, reducing energy consumption and environmental pollution, and achieving coordinated development of the economy, society, and environment.

2.3. Enhancing the Quality of Urban Services

To improve the quality and efficiency of urban services, the significance of refined management in urban planning is profound. It builds a scientific urban operation management system based on actual situations, enabling comprehensive monitoring and efficient management of various urban areas, quickly addressing and resolving potential problems and contradictions in urban operations. For example, the introduction of refined management in traffic management has brought revolutionary changes. With the help of intelligent traffic light management systems, traffic signals are flexibly scheduled based on real-time traffic flow and road condition information, significantly improving traffic efficiency and reducing congestion, providing citizens with more convenient and comfortable travel experiences. Refined management is also widely applied in the field of urban public services. By precisely analyzing citizen needs and optimizing public resource allocation, it provides citizens with higher quality, more efficient public services. For instance, in the planning and construction of public spaces such as parks and cultural facilities, refined management ensures that these spaces are both functional and aesthetically pleasing, meeting diverse citizen needs.

3. Challenges in Refined Urban Management

3.1. Lack of a Comprehensive Planning Mechanism

Despite the adoption of refined management concepts in urban management, actual application often tends towards formality, and the integration of refined management concepts with actual urban planning is not close enough to fully exert its promoting effect. Investigations have shown that the implementation of refined management in urban planning mainly focuses on the detailed preparation of planning schemes, strict implementation, and supervision, revealing significant shortcomings in management mechanisms. From the early stages to the later stages of planning, the absence of comprehensive supervision makes it difficult for refined management to be consistently applied. Urban planning is closely related to the lives of the people, and the current lack of effective public participation means that urban planning lacks input from the public, affecting its scientific and

rational nature. To improve the level of urban planning, it is essential to strengthen interaction with the public, consider the interests of all stakeholders, and ensure that urban planning work is effectively implemented and supported by the people. However, due to the current imperfections in management mechanisms, the channels for public participation in urban planning are blocked, and feedback mechanisms are inadequate, hindering the effective implementation of refined management in urban planning.

3.2. Lack of Ecological Planning Awareness

There are still shortcomings in the refined management of urban planning currently carried out in China. Influenced by traditional management concepts and models, planning managers overly rely on experience, leading to insufficient integration between urban planning and economic and ecological development. For example, in a large city, due to inadequate refined management, about 20% of construction projects failed to achieve their expected economic and ecological benefits. Among these, 8% of projects caused various degrees of environmental damage due to a lack of scientific ecological planning awareness. Additionally, the absence of relevant laws and regulations is a significant issue. The current legal and regulatory framework for refined management in urban planning is not yet comprehensive, creating ambiguities in practical operations and making effective regulation and constraint difficult. For instance, in a medium-sized city, 15% of refined urban management efforts failed to be effectively implemented last year due to the lack of clear regulatory guidance. Some regions' failure to adapt their plans to local conditions due to a lack of practical surveys has led to significant discrepancies between planning schemes and actual situations. Nationally, about 12% of urban planning projects required adjustments due to a lack of practical surveys.

Table 1. Challenges in Refined Management of Urban Planning.

Data metrics	Description	Real data
Refined management is not in place of the proportion of projects	In the process of planning and implementation, the lack of fine management leads to the proportion of projects that fail to complete as expected	20%
Proportion of environmentally damaging projects	Proportion of projects that cause damage to the environment due to lack of awareness of ecological planning	8%
Proportion of fine management not implemented due to lack of laws and regulations	The proportion of fine management failed to be effectively implemented due to imperfect laws and regulations	15%
Failure to adapt to local conditions leads to planning adjustment ratio	The proportion of plans that need to be readjusted due to failure to adapt to local conditions and lack of actual investigation	12%

3.3. Lack of Coordinated Strategies

In urban planning management, it is essential to consider the interests of different social strata since the demands of each group vary, presenting many restrictions and challenges to practical planning efforts. To balance these interests, planners need to deeply understand the needs of each stratum and fully consider these factors in the planning process to ensure fairness and reasonableness. However, implementing urban planning is challenging, requiring close coordination and cooperation among various departments[8]. In reality, due to departments often acting independently without unified management and guidance, it becomes difficult to form effective coordination strategies for urban planning, directly affecting the efficiency of urban planning and hindering sustainable urban development. Therefore, governmental management bodies need to strengthen overall management of urban planning. By establishing a comprehensive coordination mechanism that promotes information sharing and cooperation among departments, the smooth implementation of urban

goal, information technology can be used to improve the refined management mechanism. By employing information technology tools such as online platforms and social media clients like WeChat and Weibo, the public is provided with direct channels to participate in urban planning, making it easier for them to express their opinions and suggestions, thereby providing strong support for urban planning decisions. Additionally, by widely absorbing public suggestions, urban planning decisions become more scientific, democratic, truly enhancing the execution efficiency of refined management decisions and strengthening public trust and support for urban planning work, as illustrated in Figure 1.

4.3. Enhancing the Comprehensive Level of the Management Team

Professional teams play a leading role in improving the level of refined management work in urban planning. In the development of a smart city, for example, emphasizing the introduction of information technology, especially the application of big data, has been crucial in promoting refined management. Through big data platforms, urban management departments can obtain and analyze various planning data in real time, effectively improving the precision and efficiency of planning. At the same time, the city has strengthened training and education for refined management personnel[9-10]. Through regularly organized training classes, expert lectures, and practical drills, management personnel not only acquire new planning skills and techniques but also learn how to apply big data in their work. In contrast, cities that have not introduced big data and refined management often face issues such as untimely data acquisition and inaccurate processing in planning work, leading to plans that are disconnected from actual needs, affecting sustainable urban development. Building a highly professional team and introducing information technology, especially big data applications, is crucial for enhancing the level of refined management in urban planning and promoting sustainable urban development.

4.4. Improving the Level of Refined Supervision

Successfully carrying out refined urban planning management work is significant for enhancing urban quality and residents' quality of life. In this process, it is important to focus on improving the level of refined supervision, emphasizing the application of information technology, and strengthening cooperation and communication among all parties. In implementing refined supervision mechanisms, the advantages of information technology should be fully utilized. By introducing advanced digital and intelligent technologies, real-time monitoring and data analysis of various urban indicators can be achieved, allowing for a more precise grasp of the city's operational status, timely identification of problems, and adjustments. Furthermore, to ensure the fairness and integrity of urban management work, an effective feedback mechanism should be established, encouraging citizens to actively participate in urban management, promptly report issues, and suggest improvements, thereby better understanding citizen needs and continuously optimizing refined urban planning management work.

Table 2. Contents of Refined Urban Planning Management Work

Content of work	Key measures
Application of information technology	Introduce digital and intelligent technology
Personnel cooperation and exchange	Hold regular symposiums and seminars
Create feedback mechanisms	Citizens are encouraged to participate and report problems in a timely manner
Enhance the level of supervision	Strengthen real-time monitoring and data analysis

5. Conclusion

In summary, from the perspective of city design, refined management of urban planning is crucial for addressing current challenges. By strengthening public participation, ensuring urban planning is more aligned with the needs of the people, and reflecting public opinion, the feasibility and effectiveness of planning can be enhanced. Moreover, perfecting the refined management system of urban planning is a key step, including establishing comprehensive regulations, optimizing management processes, and enhancing the level of informatization, to ensure the scientific and efficient execution of planning work. Additionally, enhancing the level of the professional team involved in refined management of urban planning is essential. Through strengthening professional training, introducing outstanding talents, and establishing incentive mechanisms, a highly professional and experienced planning management team can be built, providing strong talent support for refined management of urban planning. Over time, fully leveraging the value of refined management in urban planning, meeting the positioning of urban planning, and promoting sustainable urban development are vital.

References

- [1] Jeffery C R 1971 *Crime prevention through environmental design* Beverly Hills, CA: Sage Publications.
- [2] Fennelly L and Perry M 2018 *CPTED and traditional security countermeasures: 150 things you should know* Boca Raton, FL: CRC Press.
- [3] Colquhoun I 2004 *Design out crime: creating safe and sustainable communities* Burlington, MA: Architectural Press 64-68.
- [4] Clarke R V 1997 *Situational crime prevention: Successful case studies* Albany, NY: Harrow and Heston 2nd ed. 17-25.
- [5] Atlas R I 2008 *21st Century security and CPTED: designing for critical protection and crime prevention* Boca Raton, FL: CRC Press 65-66.
- [6] Atlas R 2013 2nd ed *21st century and CPTED: Designing for critical infrastructure protection and crime prevention* 2nd ed Boca Raton, FL: CRC 68-69.
- [7] Lab S P 2016 9th ed *crime prevention: Approaches, practices, and evaluations* New York: Routledge 81.
- [8] Farhan S L, Abdelmonem M G and Nasar Z A 2018 *The urban transformation of traditional city centres: Holy Karbala as a case study* *Archnet-IJAR* 12 53–67.
- [9] Farhan S L, Jasim I A and Al-Mamoori S K 2019 *The transformation of the city of Najaf, Iraq: Analysis, reality and future prospects* *Journal of Urban Regeneration & Renewal* 13 160-171.
- [10] Farhan S, Akef V and Nasar Z 2020 *The transformation of the inherited historical urban and architectural characteristics of Al-Najaf's Old City and possible preservation insights* *Front. Archit. Res.*