

Key Indicators for the Resilience of Complex Urban Public Spaces

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## Key Indicators for the Resilience of Complex Urban Public Spaces

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### Abstract

Qualified with the function of matter, culture, spirit, economy, and history, urban public space is a thorough introduction to the principles of urban design theory and mirror the characteristics of urban societies. Over the last couple of decades, urban areas in China context have been engaged in increasing initiatives and practices with views to facilitate people's lives and intensively utilize land resources. Echoing with these, the complex urban public spaces (CUPSs) with multi-layer structure integrated in three-dimensional space have been constructed in many cities, such as the integrated railway transport hub, airport terminal, and commercial complex. The CUPSs facilitate people's traffic transfer and satisfy people's multi-commercial functions requirements. However, the CUPSs are also subject to many kinds of risk events due to complex structure, crowded people in each layer and openness. Resilience is a kind of ability to resist risks, absorb the damage of risk events, and recover to normal operation situation, which presents high importance for the risk reduction. Gaining resilience and enhancing risk resistance ability of CUPSs are indispensable but indeed difficult as it is determined by lots of influencing indicators.

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