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**GUARANTEE STRATEGIES AND SUSTAINABLE DEVELOPMENT  
MECHANISMS FOR THE CONSTRUCTION OF NEW SMART CITIES**

*Abstract: The guarantee system is the key to the sustainable development of smart cities. In this paper, we construct a universal guarantee strategy framework from four dimensions: organizational mechanism, investment and financing model, talent technology, and assessment and security. The study proposes the establishment of a high-level coordination mechanism, diversified funding channels, "industry-university-research-use" talent ecology and*

*dynamic assessment system to provide systematic support for the long-term operation of smart cities.*

*Keywords: Smart city; safeguard strategy; investment and financing; talent support; sustainable development*

## **I. The need for a safeguarding strategy**

Smart city construction involves cross-sectoral collaboration, continuous investment of funds and technical risk management, and requires a systematic guarantee mechanism to support its sustainability. At present, most cities are facing common bottlenecks such as financial pressure, data security threats and shortage of professionals [1], and there is an urgent need to build a suitable guarantee system.

## **II. Generic Safeguarding Strategy Framework**

### **2.1 Organizational and Mechanical Guarantees**

The establishment of “a hand responsible for” a high level of coordination mechanism, the establishment of a special management body; the

implementation of the “information sharing front” system, data sharing as a necessary condition for the approval of the project, to break the information silo [2]; strengthen cross-sectoral resource integration, the implementation of construction projects all Caliber review and filing.

## 2.2 Diversified Investment and Financing System

Construct “government guidance + enterprise main body + social supplement” mode: basic projects are mainly government special bonds and policy subsidies; market-oriented projects open up data resources and application scenarios to attract enterprises to participate in the operation of the formation of funds to feed [3]; guide financial institutions and private capital to enter, broaden financing channels.

## 2.3 Talent and technology support

Talent guarantee: Introduce high-end informatization talents and optimize treatment and development space; jointly build practical training bases with universities and enterprises to enhance local talent supply capacity.

Technology application: select appropriate technologies (e.g. IoT, AI) for graded application, avoiding blind pursuit of the frontier; promote the deep integration of technology and business, focusing on the city's characteristic needs.

#### 2.4 Assessment and Security Assurance

Formulate a localized assessment system with reference to national indicators and introduce a third party to assess the effectiveness [4]; establish an integrated network security prevention and control mechanism, and carry out regular critical infrastructure security evaluations.

### **III.Sustainable Development Mechanism**

Safeguard strategies need to serve long-term operation: dynamic adjustment mechanism: optimize the allocation of funds and technical routes based on the assessment results; risk prevention and control mechanism: balance data openness and security, and guard against the risk of technological dependence;

and public participation mechanism: absorb public feedback through digital platforms, and enhance the inclusiveness of governance.

#### **IV. Conclusion**

The smart city guarantee strategy needs to take sustainable operation as the core objective. Through organizational synergy, diversified funding, talent adaptation and safe and controllable system design, it can resolve construction resistance, promote the modernization of urban governance and win-win economic benefits, and inject sustained momentum into the construction of digital China.

#### **References**

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