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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

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**Smart community infrastructures - Smart transportation for
compact cities**

智慧城市基础设施 紧凑型城市智慧交通

(English Translation)

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document is modified to adopt ISO 37157:2018 "Smart city infrastructure - Compact urban smart transport".

The technical differences between this document and ISO 37157:2018 and their reasons are as follows.

- The scope of the standard has been changed (see Chapter 1) to suit the current situation of urban development in my country;
- The definition of compact cities (see 3.1) has been changed to suit my country's actual situation;
- Deleted the unused terms in the text (see 3.2 and 3.3 of ISO 37157:2018);
- Changed the overview of compact urban smart transportation (see Chapter 4) to conform to the actual situation of compact urban transportation construction and development in my country.

Condition;

--- Changed the general principles for the implementation of compact urban smart transportation (see 5.1), the scope of implementation (see 5.2) and the recommendations for smart transportation methods (see 5.3) to meet the actual domestic application;

--- Added monitoring parameters for smart transportation quality maintenance (see 6.2) to meet the actual situation of smart transportation construction in my country.

The following editorial changes were made to this document.

--- Added information on relevant cities in my country (see Appendix A);

--- Deleted the note in 5.3.1 of ISO 37157:2018;

---Added references.

Introduction

Since the reform and opening up, my country has experienced a rapid urbanization process, with the urban built-up area growing continuously and the national urbanization rate increasing continuously.

In order to solve the problems brought about by this process, such as inefficient land use and waste of land resources, unreasonable urban structure and scale, traffic congestion and environmental pollution, in order to solve the problems of environmental damage, my country issued the National New Urbanization Plan (2014-2020) in 2014. The plan points out that compact cities the model has a certain appeal and can serve as one of the directions for sustainable development.

Compact cities aim to promote urban economic, social and cultural activities through the intensification of urban functions, and help cities achieve sustainable development.

Among them, efficient and convenient smart transportation based on public transportation infrastructure services is an important guarantee for the construction and operation of compact cities.

Smart transportation with short distance and high frequency can be achieved by concentrating the infrastructure (including shopping malls) necessary for urban residents to work and live in a certain area.

Centers, office areas, schools and hospitals, etc.) to interconnect, thus enabling convenient and efficient travel for urban residents. In addition, smart transportation operations the lines are usually arranged radially from this area to the surrounding areas, which also provides convenience for urban residents to travel between the city center and the suburbs.

This document is for actively planning and adopting smart transportation in the construction of high-density and compact cities to improve urban resource utilization and operation efficiency.

It provides guidance on improving efficiency, alleviating urban traffic congestion, reducing energy consumption and enhancing urban vitality.

Smart city infrastructure Compact city Smart transportation

1 Scope

This document gives an overview of planning and organizing smart mobility in compact cities and provides recommendations and guidelines for implementation and quality maintenance.

guide.

This document applies to the construction, operation and maintenance of compact urban smart transportation.

2 Normative references

This document has no normative references.

3 Terms and definitions

The following terms and definitions apply to this document.

compact city

Based on the intensive and efficient use of land resources, the compact scale, compact structure and A compact city.

4.1 General

Compact urban smart transportation is to provide urban residents with a high-density urban development, improve urban operation efficiency, and increase urban vitality.

Provide efficient and convenient public transportation services, including public bus and tram transportation and urban rail transportation.

4.2 Urban problems suitable for solution

Compact urban smart transportation is suitable for solving traffic congestion problems in cities, improving urban operation efficiency and increasing urban vitality.

5.1 General

Compact urban smart transportation should choose a mode of transportation that meets the conditions described in 5.3.

5.2 Scope of implementation

Areas of urban life and work such as shopping centers, office areas, hospitals, residential areas, educational facilities, and cultural facilities need to be connected.

See Appendix A for examples of compact cities using Smart Transportation.