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**Sustainable cities and communities - Maturity model for smart
sustainable communities**

城市和社区可持续发展 智慧可持续城市成熟度模型

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Foreword

This document was issued on 6 August 2023 by the State Administration for Market Regulation; Standardization Administration of the PRC and takes effect on 1 December 2023.

It is a GB/T standard: recommended rather than compulsory, but it is the text a Chinese reviewer applies when assessing a submission.

It is classified under ICS 13.020.20, Chinese classification A00.

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1. Structure and Drafting Rules of Standardization Documents"

Drafting.

The translation method used in this document is equivalent to ISO /T S37107.2019 "Smart Sustainable Community Maturity Model for Sustainable Cities and Communities".

Type", the file type is adjusted from ISO technical specifications to my country's national standards.

This document has made minimal editorial changes. the preface of ISO /T S37107.2019 has been deleted and the preface of this part has been added.

Please note that some content in this document may be subject to patents. The publisher of this document assumes no responsibility for identifying patents.

This document is proposed and coordinated by the National Standardization Technical Committee for Sustainable Urban Development (SAC/TC567).

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Introduction

In September.2015, world leaders adopted the United Nations "Transforming Our World. the 2030 Agenda for Sustainable Development" in New York.

The agenda adopts 17 sustainable development goals and 169 targets, aiming to end poverty and promote prosperity and well-being by 2030.

welfare, while reducing the adverse impact of human activities on the environment. The United Nations Sustainable Development Goals directly target cities through Goal 11, which aims to "build

to build cities and human settlements that are inclusive, safe, resilient and sustainable".

In order to meet the needs of city and community managers for simple and easy-to-use advanced urban diagnostic tools, this document helps

Help managers assess the level of urban sustainable development. The maturity model covered in this document was established jointly with pilot cities, which include

Including. Birmingham, UK, Cambridge, UK, Glasgow, UK, London, UK, Peterborough, UK, Dubai, UAE, Tianjin, China, Singapore, Russia

Ross Moscow, Sydney, Australia.

This document consists of 5 chapters.

---Chapter 1 describes the scope of the smart sustainable city maturity model;

---Chapter 2 lists normative references;

---Chapter 3 specifies the terms and definitions used in this document;

---Chapter 4 describes the methods and principles used in developing the smart sustainable city maturity model;

---Chapter 5 introduces the smart sustainable city maturity model structure and provides guidance on how to use the smart sustainable city maturity model.

types, including.

- * How to use the Smart Sustainable City Maturity Model to conduct a baseline analysis of the current maturity;

- * How to leverage smart sustainable city maturity to improve performance;

- * How to combine smart sustainable city maturity with other maturity models to solve specific issues of sustainable development driven by intelligence

topics (such as the European Committee for Standardization's Smart Resilience Maturity Model, and the local government leaders covered in ISO 18091

Require functional department service level quality assurance models.

In the three appendices of this document, the following supporting tools are included.

---Appendix A is a detailed diagnostic tool for the smart sustainable city maturity model;

---Appendix B is a broader set of national and ISO standards and guidelines that cities can use to their advantage to solve problems in their applications.

Shortcomings in using the smart sustainable city maturity model;

---Appendix C describes in more detail the relationship between this model and the main functions of local government involved in ISO 18091, which is helpful for promoting

The combined use of both tools.

Sustainable urban and community development

Smart Sustainable City Maturity Model

1 Scope

GB/T 42881-2023 gives cities a way to judge how far along they actually are. Smart city programmes are assessed almost everywhere by what has been deployed - sensors installed, platforms procured, applications launched - which measures spending rather than

capability, and produces the familiar result of a city with many systems and little integration between them. A maturity model asks a different question: not what exists but how well the organisation does the thing, from ad hoc and project-driven at the bottom to managed, integrated and continuously improving at the top. Because it describes stages rather than requirements, a city can locate itself honestly and see what the next step is, which a compliance checklist does not offer. This document provides a high-level maturity model for smart sustainable city development, usable by an individual city or by a district for self-assessment. Under ICS 13.020.20 and CCS A00, it is written for municipal governments and the departments running these programmes, for the consultancies advising them, and for the national and provincial bodies that fund and evaluate smart city work.

This document provides a high-level maturity model for the sustainable development of smart sustainable cities that can be used both for individual cities and societies.

The district's self-assessment can also serve as the basis for joint assessment by multiple cities. The smart sustainable city maturity model provides a convenient model

This model allows managers to evaluate the maturity of urban standards practice, identify strengths and weaknesses, and thus find standards that match urban development.

standards and guidelines.

2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, the dated quotations

For undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to

this document.

GB/T 40758-2021 Urban and community sustainable development terminology (ISO 37100.2016, IDT)

GB/T 42883-2023 Smart city infrastructure assessment and improvement maturity model (ISO 37153.2017, IDT)

3 Terms and definitions

The terms and definitions in GB/T 40758-2021 apply to this document.

4 Methods and Structure

4.1 Background