



**NATIONAL STANDARD OF THE  
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**Acoustics - Soundscape - Part 1: Definition and conceptual  
framework**

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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 of Standardization Documents" drafted.

This document is part 1 of GB/T 41283 "Acoustic Soundscape". GB/T 41283 has published the following parts.

--- Part 1. Definitions and conceptual framework.

This document is equivalent to ISO 12913-1:2014 "Acoustic soundscapes - Part 1. Definition and conceptual framework".

This document adds a chapter "Normative References".

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

### Introduction

Soundscape research has a long history [1~5]. Due to the differences in soundscape research in different regions and different disciplines, its definition and purpose

Marked with a variety of viewpoints. Therefore, the use of the term "soundscape" has its particularity and ambiguity [6].

The purpose of this document is to achieve a broad consensus on the definition of "soundscape" so that

Communication provides the basis.

The concepts of "landscape[7]" and "soundscape" have similarities, both of which are

based on human perception. This document considers the soundscape as a

Phenomenon-related perception concepts. This document distinguishes a perceptual concept (soundscape) from a physical phenomenon (acoustic environment), arguing that soundscape exists in

Human perception of the sound environment.

There are many related contents of soundscape, which are divided into 4 parts according to different aspects, namely.

--- Part 1. Definitions and conceptual framework. The purpose is to give the definition and connotation of "soundscape".

--- Part 2. Data collection and reporting requirements. The purpose is to specify the requirements for data collection and reporting in soundscape studies, investigations and applications.

Requests and supporting information.

--- Part 3. Data analysis. The purpose is to give guidelines for the analysis of the data obtained in Part 2.

--- Part 4. Design and Retrofit. The purpose is to give guidelines for soundscape design and renovation.

acoustic soundscape

Part 1. Definitions and Conceptual Framework

## 1 Scope

This document provides the definition and conceptual framework of soundscape, and explains the measurement, reporting and soundscape planning,

Various factors related to design and management.

## 2 Normative references

There are no normative references in this document.

## 3 Terms and Definitions

The following terms and definitions apply to this document.

### 3.1

soundsources

Natural or man-made sounds.

Note. See reference [6].

### 3.2

acoustic environment

The sound produced by all sound sources arrives at the receiving point after being altered by the environment.

NOTE. The acoustic environment can be actual or simulated, outdoor or indoor, experienced or in memory.

### 3.3

soundscape

soundscape

The acoustic environment that is perceived, experienced or understood by an individual or group of people in a situation.

## 4.1 Overview

Figure 1 describes the process of perceiving, experiencing, and understanding the acoustic environment. It highlights seven fundamental concepts and their relationships. (1) Field

(2) sound source; (3) sound environment; (4) auditory perception; (5) understanding of auditory perception; (6) response; (7) effect [6,8–10].