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Sustainable mobility and transportation — Sustainable mobility services

Part 1: Use cases

bsi.

National foreword

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Foreword

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Any feedback or questions on this document should be directed to the user’s national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Introduction

This document is intended to clarify items for standardization based on gap analysis of collected use cases of Mobility as a Service (MaaS) or sometimes called as Mobility on Demand (MoD) (only in the US), and related projects.

The objective of this document is to gather use cases for the implementation of sustainable mobility services and facilitate international sharing of experiences and knowledge. The collected data will be analyzed to identify issues for international standardization.

The ISO 16497 series consists of two parts (other parts are planned):

— ISO TR 16497-1 (this document): for case collection and preparation for the further analyses.

— ISO TR 16497-2[1)].

1) Under development. Stage at time of publication: ISO/PWI TR 16497-2.

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Technical Report **ISO/TR 16497-1:2024(en)**

Sustainable mobility and transportation — Sustainable mobility services —

Part 1: Use cases

1 Scope

This document compiles use cases for the implementation of sustainable mobility services. The collected data will be analysed to identify issues for international standardization.

This document focuses on use cases that aim to implement sustainable transport services. The use cases considered are at the city scale or metropolitan scale, aligned with the scope of smart cities and communities. The use cases encompass land transport, water transport, and air transport for both passengers and freight.

Ideas related to connection and integration, including demand-side, supply-side, and policy framework aspects, are included.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

4 Use case collection

Multiple use cases have been collected from Japan, China, and India. All cases can be found in Annex A.

5 Use case analysis

The use cases are analysed based on policy making and planning, travel mode characteristics, multimodal connectivity and coordination, and operational organization structure.

6 Subjects for standardization

6.1 General

By analysing the gathered use cases, discussion points for conducting gap analysis towards standardization have been organized. These points take into account policy goal setting, targeted travel modes, intermodal connections and coordination, as well as operational organizational structures.

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