

# ISO 37161:2020-02 (E)

## Smart community infrastructures - Guidance on smart transportation for energy saving in transportation services

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
1	Scope .....	1
2	Normative references .....	1
3	Terms and definitions .....	1
4	Fundamentals .....	1
4.1	Basic ideas and goals .....	1
4.2	Location and objectives of smart transportation for energy saving .....	2
4.2.1	General .....	2
4.2.2	Locations where smart transportation can be introduced .....	2
4.2.3	Objectives of introducing smart transportation .....	2
5	Targets of smart transportation for energy saving .....	3
5.1	General .....	3
5.2	Targets of smart transportation .....	4
5.2.1	Target transportation modes .....	4
5.2.2	Target technical and business contents of transportation .....	4
5.2.3	Target transportation services .....	6
6	Introduction of smart transportation for energy saving .....	9
6.1	Introduction of smart transportation .....	9
6.1.1	General .....	9
6.1.2	Services in the same transportation mode .....	9
6.1.3	Inter-modal services .....	9
6.1.4	Services involving interface between public and private transportation .....	10
6.2	Selection of energy-saving options .....	10
6.2.1	General .....	10
6.2.2	Energy-saving options .....	10
6.2.3	Criteria and parameters to be considered in the selection of energy-saving options .....	10
6.3	Adoption of energy-saving options .....	11
6.4	Conformation of the performance of smart transportation after introduction .....	11
6.4.1	General .....	11
6.4.2	Monitoring of smart transportation performance when applying more than one energy-saving option .....	11
7	Maintenance of the quality of smart transportation for energy saving .....	11
7.1	General .....	11
7.2	Parameters for comparing smart transportation performance .....	12
7.3	Modification of smart transportation .....	12
8	Long-term optimization of smart transportation for energy saving alongside generational and social changes .....	12
8.1	General .....	12
8.2	Optimization of smart transportation for current and future cities and city zones .....	12
8.3	Maintaining/discarding adopted energy-saving options .....	12
8.4	Reselection of energy-saving options .....	12

<b>Annex A (informative) Typical energy-saving performance in railway operation by modifying speed profiles .....</b>	<b>13</b>
<b>Bibliography .....</b>	<b>15</b>