ISO/TR 6030:2022-07 (E)

Smart community infrastructures - Disaster risk reduction - Survey results and gap analysis

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Basic concept and purposes of disaster risk reduction 3
4.1 General 3
4.2 Disaster risk reduction planning 4
4.3 Disaster research 4
4.4 Safer infrastructure 4
4.5 Human resource development 4
4.6 Stockpiling 5
4.7 Securing evacuation support 5
4.8 Securing evacuation facilities 5
4.9 Procurement and supply of goods 5
4.10 Rescue, emergency and firefighting 5
4.11 Medical activities 5
4.12 Health (physical and mental) 5
4.13 Voluntary support 6
4.14 Epidemic prevention 6
4.15 Securing transportation routes 6
4.16 Securing communication means and lifelines 6
4.17 Livelihood recovery 6
4.18 Recovery planning 6
4.19 Recovery action 6
4.20 Collection and transmission of observation data 7
4.21 Collection and disseminating disaster information 7

5 Existing practices and documents relevant to disaster risk reduction 7
5.1 General 7
5.2 Literature review -- Document search 7
5.3 Survey design 9
5.4 Specific examples of global initiatives 10
5.5 Issues landscape 14
5.6 Solution landscape 21
5.7 Common areas of function 21

6 Gap analysis 22
6.1 General 22
6.2 Gap analysis types 22
6.2.1 Gap analysis by community infrastructure functions 22
6.2.2 Gap analysis by hazard types and infrastructure types 27
6.3 Possible areas for action by standardization bodies 29

Annex A (informative) Examples of global smart community infrastructures for disaster risk reduction 33

Bibliography 40