

# SUSTAINABLE CITIES

“Cities are the cradle of economies that can reduce the climate impact of business: many of the solutions for climate change mitigation and adaptation, circular economy, renewable energy production, energy saving, and nature-based solutions can be designed, adapted and deployed at the local level.”

*Workstream 8 cities report for the High Level Forum – December 2023*



## MAIN TECHNICAL COMMITTEES ON SUSTAINABLE CITIES STANDARDIZATION

### - International level -

#### ➤ ISO/TC 268 – Sustainable cities and communities

Standards

50

Projects

19

National delegates

2

#### Scope

Standardization in the field of Sustainable Cities and Communities will include the development of requirements, frameworks, guidance and supporting techniques and tools related to the achievement of sustainable development considering smartness and resilience, to help all Cities and Communities and their interested parties in both rural and urban areas become more sustainable.

Note: TC 268 will contribute to the UN Sustainable Development Goals through its standardization work.

The proposed series of International Standards will encourage the development and implementation of holistic and integrated approaches to sustainable development and sustainability.

#### 2 Subcommittees

SC 1 Smart community infrastructures

SC 2 Sustainable mobility and transportation

#### 10 Working Groups

AHG 1 PWI Harbour Cities

WG 1 Management System Standards

CAG 1 Chair's Advisory Group

WG 2 City indicators

TG 1 Awareness-raising, communication and promotion

WG 3 City anatomy and sustainability terms

TG 2 Collection of cities good practices and needs

WG 4 Smart processes and operating models for sustainable communities

TG 3 Supporting the strategic positioning of ISO/TC 268

WG 5 Risk Finance

### - European level -

#### ➤ CEN/TC 465 – Sustainable Cities and Communities

Standards

1

Projects

3

National delegates

0

#### Scope

Standardization in the field of Sustainable Cities and Communities, covering the development of requirements, frameworks, guidance and supporting tools and techniques. The proposed standardization plan will be developed to assist cities and community decision making, and support their implementation of sustainability and sustainable development. Standardization will focus on the development of a holistic and integrated approach in response to the needs of European Cities and Communities in both rural and urban areas. (...)

#### 3 Working Groups

WG 1 Nature-Based Solutions

WG 3 Territorial Resilience Development

WG 2 Services to citizens

## MAIN STANDARDS ON SUSTAINABLE CITIES

Framework for integration and operation of smart community infrastructures	
ISO 37155-1:2020	Part 1: Recommendations for considering opportunities and challenges from interactions in smart community infrastructures from relevant aspects through the life cycle
ISO 37155-2:2021	Part 2: Holistic approach and the strategy for development, operation and maintenance of smart community infrastructures
Smart community infrastructures	
ISO/TR 6030:2022	Disaster risk reduction – Survey results and gap analysis
ISO/TR 37150:2014	Review of existing activities relevant to metrics
ISO/TS 37151:2015	Principles and requirements for performance metrics
ISO/TR 37152:2016	Common framework for development and operation
ISO 37153:2017	Maturity model for assessment and improvement
ISO 37156:2020	Guidelines on data exchange and sharing for smart community infrastructures
ISO 37166:2022	Urban data integration framework for smart city planning (SCP)
ISO 37170:2022	Data framework for infrastructure governance based on digital technology in smart cities
ISO/TR 37171:2020	Report of pilot testing on the application of ISO smart community infrastructures standards
ISO/TS 37172:2022	Data exchange and sharing for community infrastructures based on geographic information
ISO 37173:2023	Guidance for the development of smart building information systems
ISO 37174:2024	Disaster risk reduction — Guidance for implementing seismometer systems
ISO/TR 37178:2023	Data exchange and sharing for the lamppost network in smart community
Sustainable mobility and transportation	
ISO/TR 16497-1:2024	Sustainable mobility services — Part 1: Use cases
ISO 37154:2017	Best practice guidelines for transportation
ISO 37157:2018	Smart transportation for compact cities
ISO 37158:2019	Smart transportation using battery-powered buses for passenger services
ISO 37159:2019	Smart transportation for rapid transit in and between large city zones and their surrounding areas
ISO 37160:2020	Measurement methods for the quality of thermal power infrastructure and requirements for plant operations and management
ISO 37161:2020	Guidance on smart transportation for energy saving in transportation services
ISO 37162:2023	Smart transportation for newly developing areas
ISO 37163:2020	Smart transportation for parking lot allocation in cities
ISO 37164:2021	Smart transportation using fuel cell light rail transit (FC-LRT)
ISO 37165:2020	Guidance on smart transportation with the use of digitally processed payment (d-payment)
ISO 37167:2021	Smart transportation for energy saving operation by intentionally driving slowly
ISO 37168:2022	Guidance on smart transportation by Electric, Connected and Autonomous Vehicles (eCAVs) and its application to on-demand responsive passenger services with shared vehicles
ISO 37169:2021	Smart transportation by run-through train/bus operation in/between cities
ISO 37180:2021	Guidance on smart transportation with QR code identification and authentication in transportation and its related or additional services
ISO 37181:2022	Smart transportation by autonomous vehicles on public roads
ISO 37182:2022	Smart transportation for fuel efficiency and pollution emission reduction in bus transportation services
ISO 37183:2023	Smart transportation by facial recognition payment (f-payment)
ISO 37184:2023	Framework for transportation services by providing meshes for 5G communication
Management system for sustainable development	
EN ISO 37101:2016	Requirements with guidance for use
ISO 37101:2016/Amd 1:2024	Requirements with guidance for use — Amendment 1: Climate action changes
Vocabulary – Recommendations – Models – Indicators	
ISO 37100:2016	Vocabulary
ISO 37104:2019	Transforming our cities — Guidance for practical local implementation of ISO 37101
ISO 37105:2019	Descriptive framework for cities and communities
ISO 37106:2021	Guidance on establishing smart city operating models for sustainable communities
ISO/TS 37107:2019	Maturity model for smart sustainable communities
ISO 37108:2022	Business districts — Guidance for practical local implementation of ISO 37101
ISO 37109:2023	Recommendations and requirements for project developers — Meeting ISO 37101 framework principles
ISO 37110:2022	Management requirements and recommendations for open data for smart cities and communities — Overview and general principles
ISO/TR 37112:2024	Case studies in how smart city operating models support an effective public-health emergency response
ISO 37120:2018	Indicators for city services and quality of life
ISO/TR 37121:2017	Inventory of existing guidelines and approaches on sustainable development and resilience in cities
ISO 37122:2019	Indicators for smart cities
ISO 37123:2019	Indicators for resilient cities
ISO 37124:2024	Guidance on the use of ISO 37120, ISO 37122 and ISO 37123

