

Standards for Smart Tourist Communities



Evolution



1975 – 2005

- Public Body (MCIT)
- Under government control

2005 – Today

- Independent Body
- Under Private Law
- Cyprus National Standards Body

- More flexible
- Better response
- Less expensive to operate



Smart and Sustainable Standards



**European Committee for
Standardization**



**European Committee for Electrotechnical
Standardization**



**International Organization for
Standardization**



International Electrotechnical Committee



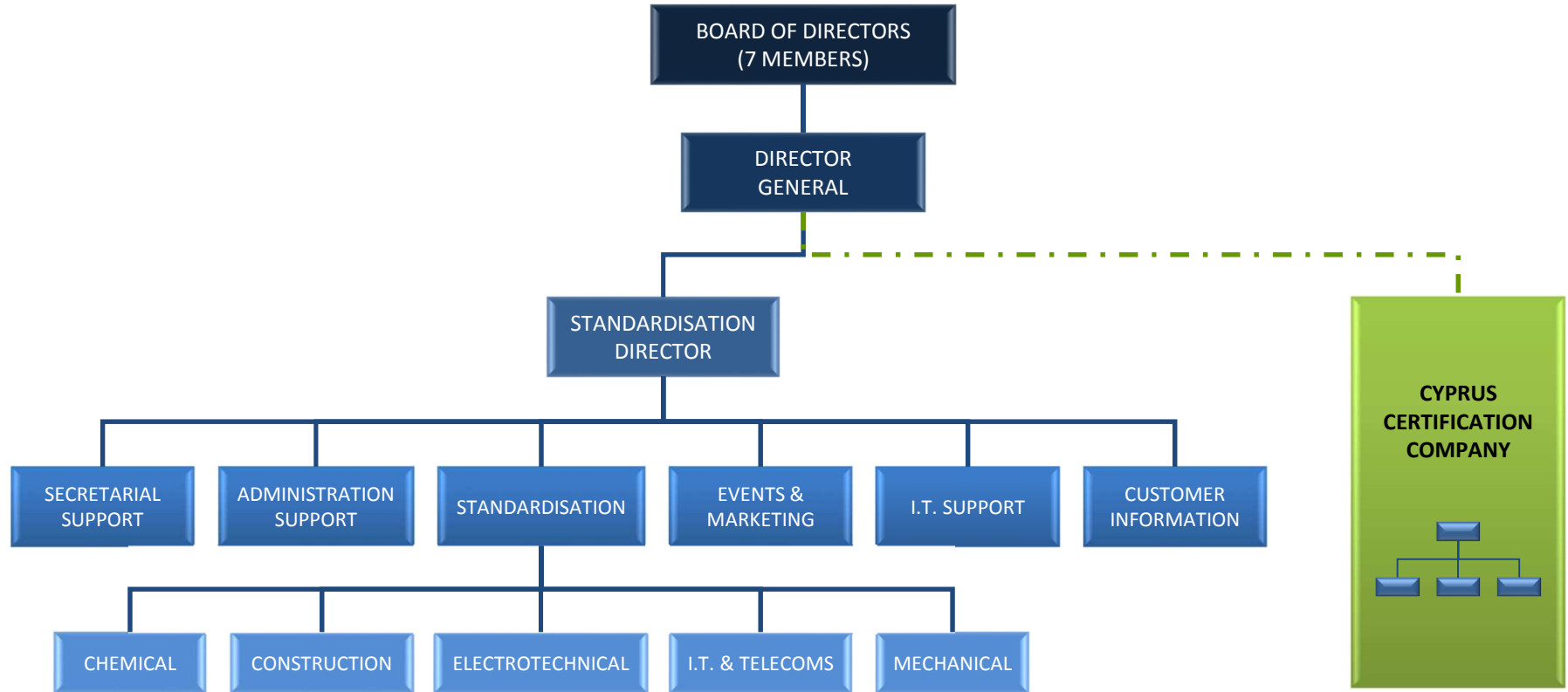
European Telecommunication Standards Institute



Organizational chart



**MINISTRY OF FINANCE
100% SHAREHOLDER**





Main Activities



- ➔ Managing the Standardisation System in Cyprus
- ➔ Informative lectures & seminars
- ➔ Training seminars/courses
- ➔ Visits/meetings with the industry
- ➔ Publications
- ➔ Articles (Mass Media)

Standards Everywhere





CYS Mirror Committees

MC 1	Construction Products & Civil Engineering
MC 2	Mechanical Engineering
MC 3	Healthcare
MC 4	Health & Safety
MC 5	Heating, Cooling & Ventilation
MC 6	Transport & Packaging
MC 7	Telecommunication & Information Technology
MC 9	Chemicals & Environment
MC 10	Gas
MC 11	Food & Biotechnology
MC 12	Services
MC 13	Electrical & Electronic Equipment Electrical & Electronic Medical Devices



ISO/TC 228
Tourism and related Services





TC information

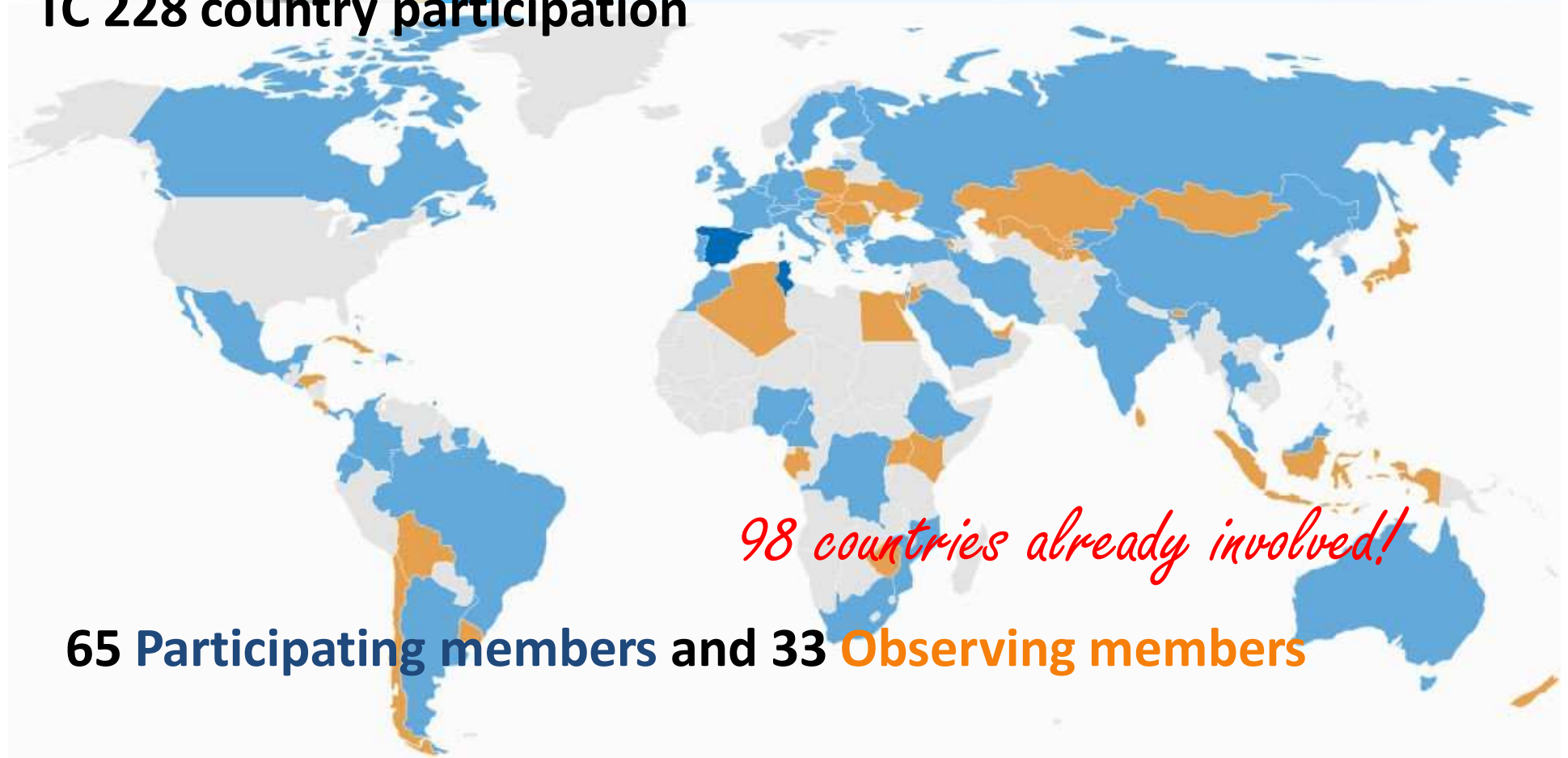
Scope of ISO TC 268

- ✓ To standardize specifications of the services offered by tourism service providers
- ✓ To specify requirements of facilities and equipment used in the Tourism Industry
- ✓ To provide criteria for making inform decisions by consumers



Composition of the TC

TC 228 country participation





Structure

ACTIVE WORKING GROUPS

WG 1 – Diving services (Austria)

WG 2 – Health Tourism Services (Spain)

WG 7 – Adventure Tourism (Brazil)

WG 8 – Yacht harbours (Belgium)

WG 11 – Bare Boat Charters (UK)

WG 12 – International Volunteer Tourism (UK)

WG 13 – Sustainable Accommodation (Brazil)

WG 14 – Accessible Tourism (UNWTO – Spain)

WG 15 – Accommodation (Spain)

AHG 01 – Heritage hotels and Traditional restaurants (Iran)

WG 1

Diving services

Objective of WG1:

To develop International standards to increase safety in diving services.

Important Standards :

ISO 24803:2017

- Recreational diving services -- Requirements for recreational diving providers.

ISO 13289:2011

Recreational diving services -- Requirements for the conduct of snorkeling excursions



WG 2 Health Tourism services

Objective of WG 2



To develop International standards to enhance service provision in wellness spas & medical tourism.

Important Standards:

- ISO 17680:2015 Tourism and related services - Thalassotherapy -- Service requirements
- ISO 17679:2016 Tourism and related services - Wellness Spa -- Service requirements

Under Development

- ISO/AWI 22525 - Tourism and related services -- Medical Tourism -- Services requirements
- ISO/DIS 21426 - Tourism and related services -- Medical spas -- Service requirements



WG 5 Beaches

Objective of WG5:



To develop International standards for the good operation of the beaches.

Important Standards :

- ❑ ISO 13009:2015 - Tourism and related services -- Requirements and recommendations for beach operation



WG 7 Adventure Tourism



WG Objective of 7

To Develop a set of standards to enhance safety performance for participants and staff safety.

Important Standards:

- ISO 21101:2014** - Adventure tourism -- Safety management systems -- Requirements

- ISO 21103:2014** - Adventure tourism -- Information for participants

WG 8 Yacht Harbours



Objective of WG 8

To develop International standards to enhance yacht harbours services.

Important Standards:

- ISO 13687:2014** - Tourism and related services -- Yacht harbours

- ISO/CD 21416** - Tourism and related services -- Yacht harbours -- Essential requirements for luxury harbours

WG 11 Bare boat charters



Objective of WG 11



To develop Specifications concerning the service provision for bare boat charter companies and equipment to be supplied for bareboat charter.

Important Standards:

- ❑ **ISO 20410:2017** Tourism and related services -- Bareboat Charter -- Minimum service and equipment requirements
- ❑ **ISO/AWI 228** Tourism and related services -- Supplementary charter holiday services and experiences

WG 13 Sustainable Management System for Accommodation



Objective of WG 13



To develop standards for establishing a sustainability management system for accommodation, including environmental, social and economic aspects.

Important Standards

- ❑ **ISO/DIS 21401** - Tourism and related services -- Sustainability management system for accommodation establishments -- Requirements
- ❑ **ISO/TS 13811:2015** - Tourism and related services -- Guidelines on developing environmental specifications for accommodation establishments

WG 14 Accessible Tourism



Objective of WG 14

To develop requirements and recommendations on the key aspects of tourism on specific infrastructure, products and services concerning accessibility.

Important Standards:

- ISO/AWI 21902 - Tourism and related services -- Accessible tourism for all -- Requirements and recommendations

WG 15 Accommodation



Objective of WG 15



To develop requirements and recommendations on the key aspects of accommodation.

Important Standards:

- ❑ **ISO/AWI 22483** - Tourism and related services - Accommodation: Hotels -- Service requirements

AHG 01 Heritage Hotels and Traditional Restaurants



Objective of WG 15

To develop standards on two preliminary new work items on Heritage hotels and Traditional restaurants.

Important Standards:

- ISO/NP 21620 - Tourism and related services- Heritage Hotels
- ISO/NP 21621 - Tourism and related services- Heritage Hotels



Smart Tourist Standards

PNE 178501(National Spanish Standard) AENOR

“Management system of Smart Tourist destinations Requirements”

This standard specifies the requirements **to establish, implement, maintain a management system** for a **Smart Tourist Destination** that adequately considers governance, innovation and the use of technologies.



Smart Tourist Standards

- **ISO 14785:2014** - Tourist information offices -- Tourist information and reception services – Requirements.
- **ISO 13810:2015** - Tourism services -- Industrial tourism -- Service provision
- **ISO 26000** - Social responsibility



26 Published Standards

<u>ISO 21103:2014</u>	Adventure tourism -- Information for participants		
<u>ISO/TR 21102:2013</u>	Adventure tourism -- Leaders -- Personnel competence	<u>ISO 17680:2015</u>	Thalassotherapy -- Service requirements
<u>ISO 14785:2014</u>	Tourist information offices -- Tourist information and reception services -- Requirements	<u>ISO 18065:2015</u>	Tourist services for public use provided by Natural Protected Areas Authorities -- Requirements
<u>ISO 18513:2003</u>	Tourism services -- Hotels and other types of tourism accommodation - Terminology	<u>ISO 13009:2015</u>	Requirements and recommendations for beach operation
<u>ISO 21101:2014</u>	Adventure tourism -- Safety management systems -- Requirements	<u>ISO /TS 13811:2015 (Ed.1)</u>	Guidelines on developing environmental specifications for accommodation establishments
<u>ISO 13687-1:2014</u>	Yacht Harbours -- Part 1: Minimum Requirements for basic service level harbours	<u>ISO 13810:2015 (Ed. 1)</u>	Industrial tourism -- Service provision
<u>ISO 13687-2:2017</u>	Yacht harbours -- Part 2: Minimum requirements for intermediate service level harbours	<u>ISO 17679:2016</u>	Wellness spa -- Service requirements
<u>ISO 13687-3:2017</u>	Yacht harbours -- Part 3: Minimum requirements for high service level harbours	<u>ISO 20410:2017</u>	Bareboat charter -- Minimum service and equipment requirements



How to participate?

- Contact your ISO member [National Standardization Body](#)
- If you are a P member, you are invited to **nominate experts in the Working Groups and register them in ISO Global Directory** to participate actively in the projects and receive the notifications each time a new document is posted.
- If you are unable to travel and attend meetings physically, send your contributions by mail to the secretary and/or participate online in meetings through webex. Ask the secretary to make available this option.



How to get informed?

- Visit the Committee's new **Website**:
<https://committee.iso.org/tc228>
- The web has replaced the **TC Newsletter**: the old issues (2014-2016) are available in the [public information folder](#) (without password) of Livelink
- Through **ISO Livelink Notifications**: New documents, open ballots, member lists and upcoming meetings are available in ISO TC 228 [Livelink](#)
- Or simply ask the **secretaries** about any doubt, question or suggestion you may have: nortiz@une.org and/or chokri.makhlouf@innorpi.tn

I. Global overview of Smart Cities Standardization

CITIES TODAY

2 %

Surface occupied by today's cities on the earth's surface

70 %

Percent of global GDP generated

60 %

Amount of energy consumed by actual cities

70 %

Amount of waste and greenhouse gas emissions produced by cities

- **BY 2050:**
 - o World population is forecast to reach nearly **10 billion people**
 - o **80 %** of people are expected be urbanized

Sources: ISO and smart cities, 2017 ; CEN-CENELEC-ETSI Sector Forum on Smart and Sustainable Cities and Communities

Cities challenges vs citizens interests

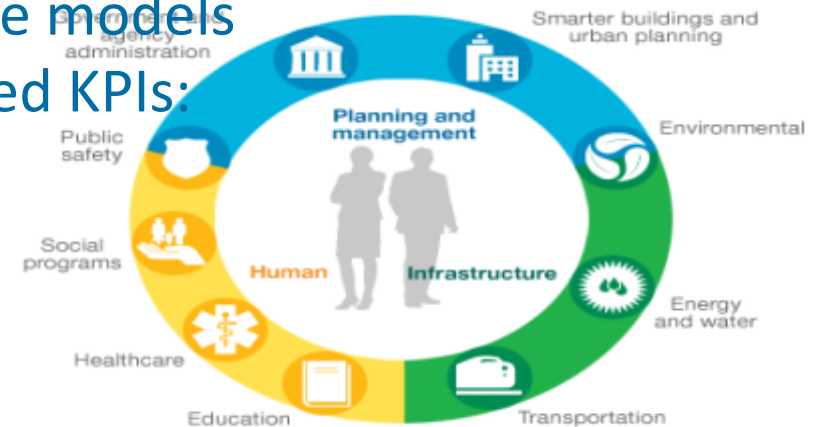


ISO Smart and Sustainable Cities developments

Holistic Approach - Smart Cities require a holistic approach for sustainable development...

- Challenges faced by Cities are very complex and multi dimensional, multisectorial.
- Big challenge is to develop comprehensive policies, consistently applied over different municipal areas.
- A focus on citizens with new governance models
- 5 major areas of priorities with dedicated KPIs:

- 1. People**
- 2. Planet**
- 3. Prosperity**
- 4. Governance**
- 5. Replication-Dissemination**



ISO Smart and Sustainable Cities developments

ISO Technical Committee 268

Standardization in the field of Sustainable Cities and Communities including development of requirements, and tools related to the achievement of **sustainable development** considering **smartness** and **resilience**, to help all Cities and Communities.

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



ISO/Technical Committee 268

Sustainable cities and communities



- ISO/TC 268/WG 1 - Management System Standards
- ISO/TC 268/WG 2 - City indicators
- ISO/TC 268/WG 3 - City anatomy and sustainability terms
- ISO/TC 268/WG 4 - Strategies for smart cities and communities.

ISO/TC 268/SC 1

Smart community infrastructures

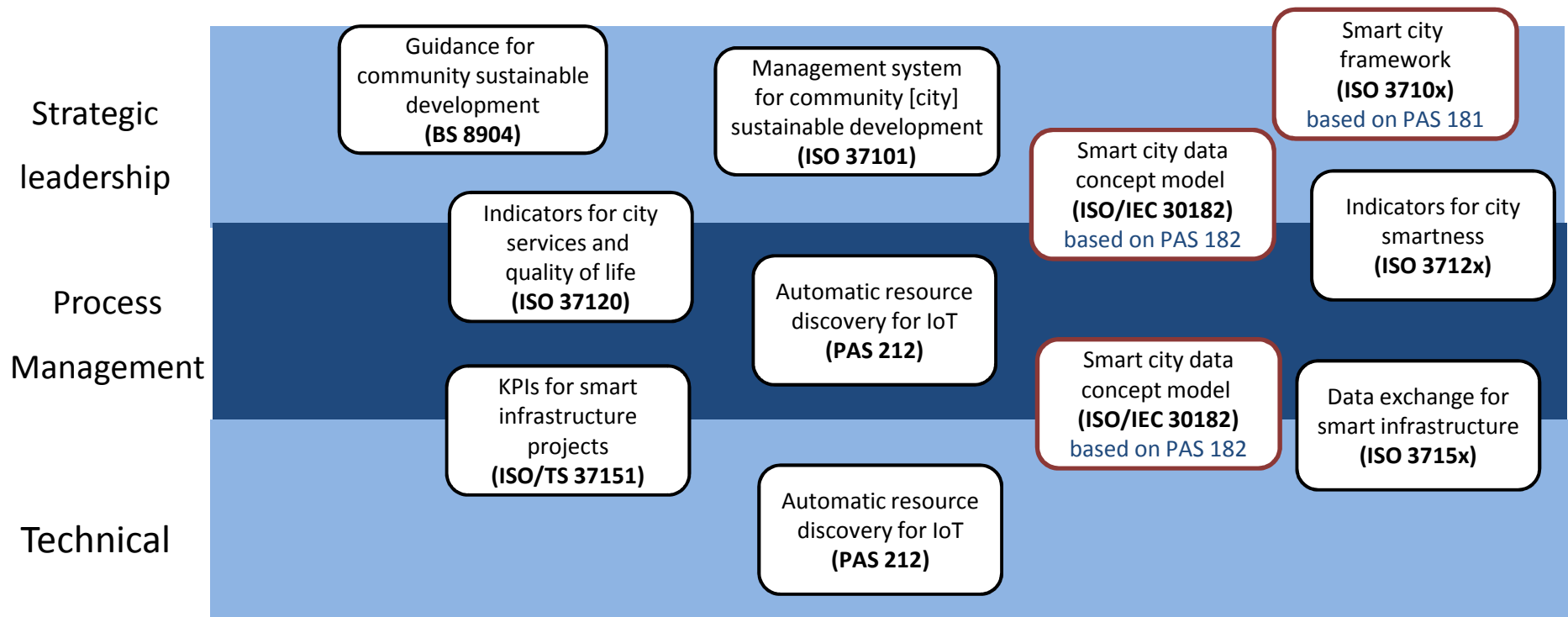


- ISO/TC 268/SC 1/TG 2 - Smart Community Infrastructure - Pilot Testing.
- ISO/TC 268/SC 1/WG 1 - Infrastructure metrics
- ISO/TC 268/SC 1/WG 2 - Integration and interaction framework for smart community infrastructures
- ISO/TC 268/SC 1/WG 3 - Smart transportation
- ISO/TC 268/SC 1/WG 4 - Data exchange and sharing for smart community infrastructures



ISO – International Standards Organisation – Sustainable cities and communities standards activity

STRATEGIC/LEADERSHIP / Process Management / Technical Standards



ISO 37101:2016 -Sustainable development in communities - Management system for sustainable development - Requirements with guidance for use

- ❑ **Designed to help communities define their sustainable development objectives and put in place a strategy to achieve them**
- ❑ **Support of cities to become resilient, smart and sustainable**
- ❑ **To establish local sustainability initiatives**
- ❑ **Dedicated to **communities** and identify **cities** as kind of communities**
- ❑ **Based on **continuous improvement approach****

Benefits issued from using ISO 37101 in cities and communities



Sustainability within the Community

- Help to **build consensus and establish strategy**
- **Improve the sustainability** of strategies, programmes, projects, plans and services without prescribing any solution

Organizational

- **Flexible framework** consistent with sustainable policies already launched by cities and communities
- **Robust methodology** based on continuous improvement
- Usable by **various** kinds of communities

International recognition

- International Standard
- **Consistent with UN SDG** and could support the **New Urban Agenda**
- Implementation of ISO 37101 could be **certified and assessed**



ISO Smart and Sustainable Cities developments



New global ISO Certifiable Standard for Smart City Indicators:

ISO 37120:2014 - Sustainable development of communities indicators for city services and quality of life

- http://www.iso.org/iso/catalogue_detail?csnumber=62436
- 1st ISO certifiable global standard for Smart City Indicators
- Published: June 2014

ISO 37120:2016 - Sustainable development of communities -- Indicators for city services and quality of life



ISO 37120 includes 100 indicators (46 core and 54 supporting), which are structured around the following 17 themes



Economy



Governance



Telecommunications



Education



Health



Transportation



Energy



Recreation



Urban Planning



Environment



Safety



Wastewater



Finance



Shelter



Water & Sanitation



Fire & Emergency Response



Solid Waste



ISO 37120:2016 - Sustainable development of communities – Indicators for city services and quality of life



How do Cities gain?

ISO 37120:2014 to be used for:

- assess the performance of services, infrastructure, institutions (esp. outsourced),
- improve city operations,
- benchmark themselves,
- prioritize city budgets (assess quality of life)
- support open data, app development,
- build better case for public/private funding for infrastructure investments.



Making a smart city.....



***“A smart sustainable city is an innovative city that uses information and communication technologies (ICTs) to improve quality of life, efficiency of urban operation and services.*”**



First internationally agreed definition...

Making a smart city.....key Technologies



Smart Energy Management

- Smart Grids
- Smart Meters
- Energy Efficiency/Green Building
- Green Energy

Smart Transportation

- Smart Transport Management
- Intelligent Traffic Management
- Smart traffic lights
- Traffic monitoring
- Smart Parking

Smart data & e-Government

- Massive amounts of data collected & analyzed
- Public Information
- e-Service Delivery
- Intelligent Video Surveillance

Waste Management

- Recycling
- Waste Collection
- Waste Water Treatment

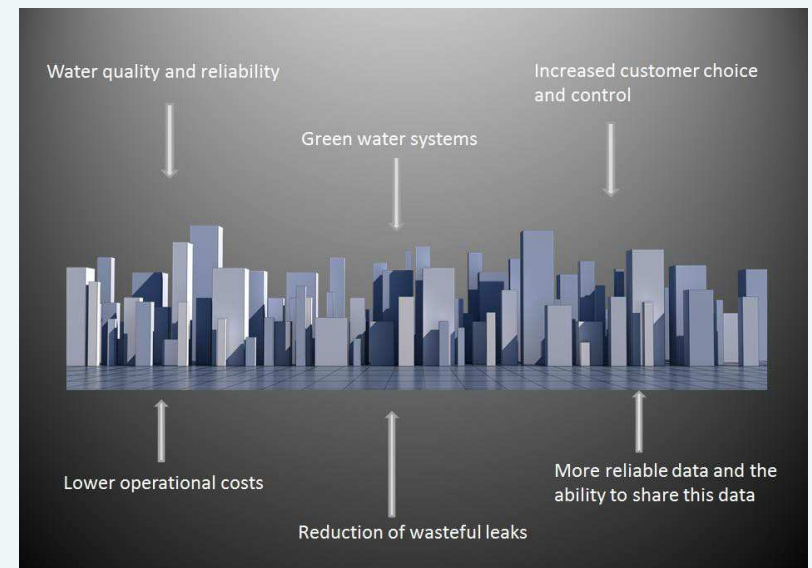
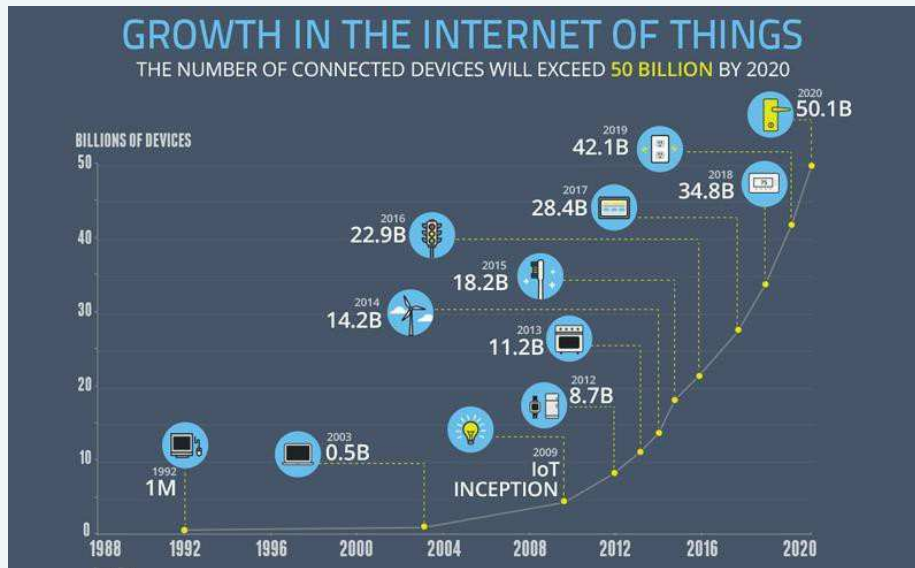
Water Management

- Smart Meters & Management
- Water Quality Monitoring
- Leakage detection

HOW cities are getting smarter



IoT will shape smart sustainable cities



IoT is “A global infrastructure for the information society, enabling advanced services by interconnecting (physical and virtual) things based on existing and evolving interoperable information and communication technologies”.
(Recommendation ITU-T 2060).



Standardization for Smart Cities

**ISO/TMB/
Smart Cities SAG + TF**



**CEN-CENELEC-ETSI Sector
Forum on SSCC**



Advisory & Strategic Group of the ESOs

- ✓ Recommendations and coordination
- ✓ No standardization development

**ISO/TC 268 ISO/TC
268/SC 1**



**ISO-IEC/JTC 1
WG 11**

Technical Committees

- ✓ Standardization Development
(Standards, TS, TR, PAS...)

**IEC SyC
Smart cities**



**ITU-T/FG
SSC**





Standards for Smart Cities

Thank you....

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