



Prehľad európskych a medzinárodných  
technických orgánov v oblasti  
**Smart Cities**

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# Smart Cities

## What makes a city smart?

Electro-mobility



Municipal services



Smart grids



Sustainable development in communities



Societal security



Sustainability in building construction



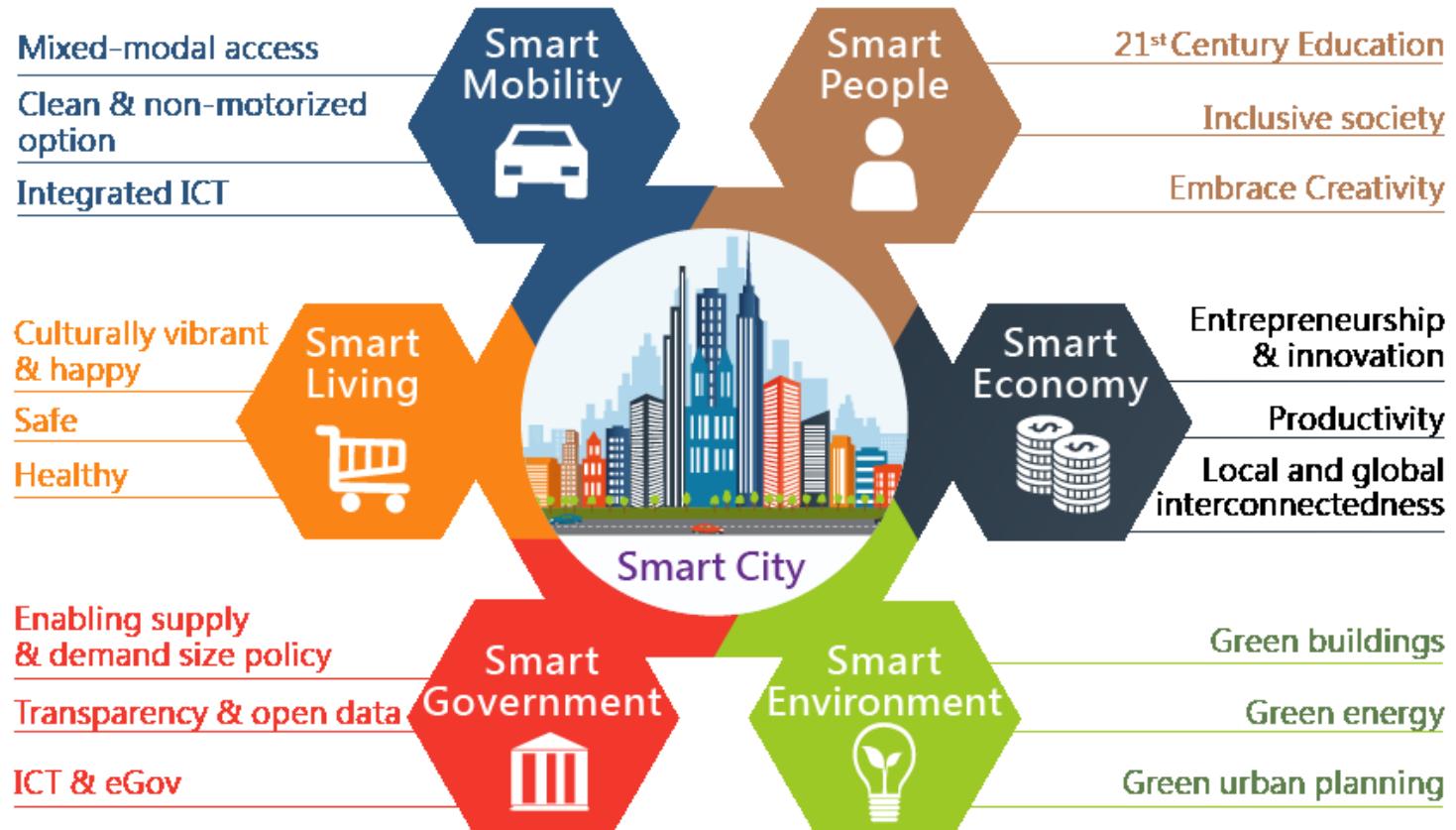
Drinking water supply / waste water management



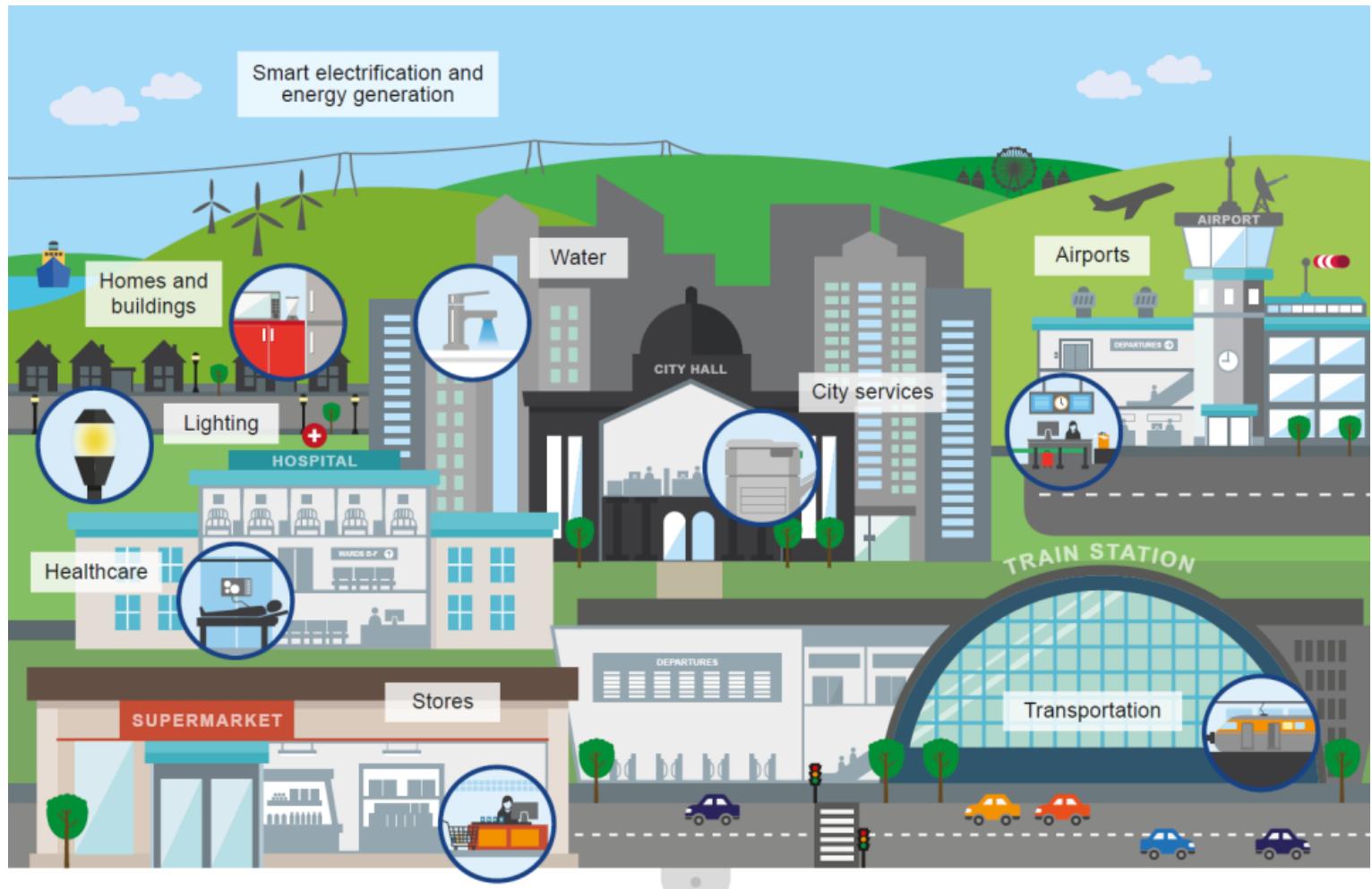
Accessibility



# Smart Cities



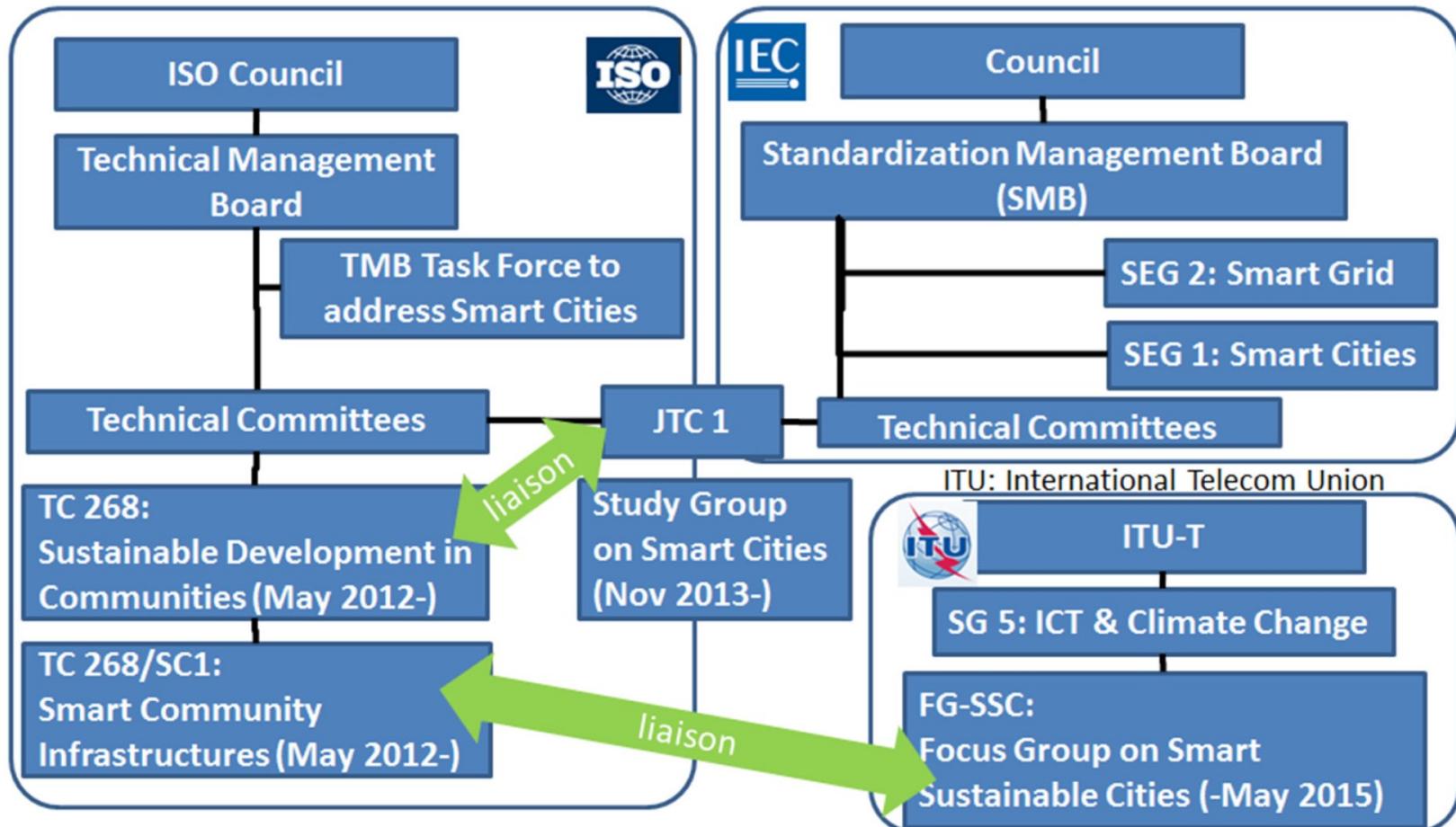
# Smart Cities



# Smart Cities

ISO: International Organization for Standardization

IEC: International Electrotechnical Commission



## Smart Cities

- Na európskej úrovni je zastrešujúci orgán aktivít v oblasti Smart Cities

[CEN/CENELEC/ETSI Sector Forum on Smart and Sustainable Cities and Communities](#)



ÚRAD PRE NORMALIZÁCIU,  
METROLÓGIU A SKÚŠOBNÍCTVO  
SLOVENSKEJ REPUBLIKY

Zapojenie verejnosti do procesu normalizácie pre oblasť  
**smart city**:

- oboznámenie/pripomienkovanie návrhov noriem
- public commenting IEC
- zúčastnenie sa na fóre „World Smart City“



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**World Smart City Forum**  
13 July 2016  
[www.worldsmartcity.org](http://www.worldsmartcity.org)

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## Experti

Aktívne členstvo (P – membership) v ISO resp. IEC

Účasť na práci európskych technických komisiach a subkomisiach a pracovných skupinách.

[MP 5: 2014 - Metodický postup o spolupráci s medzinárodnými normalizačnými organizáciami ISO a IEC](#)

[MP 6: 2014 - Metodický postup o spolupráci s európskymi normalizačnými organizáciami CEN a CENELEC](#)



# Smart Cities



## ISO Technical Committees

**ISO/IEC JTC 1**

Information technology

**ISO/TC 59**

Buildings and civil engineering works

**ISO/TC 241**

Road traffic safety

**ISO/TMB**

Social responsibility

**ISO/PC 283**

Occupational health and safety

**ISO/TC 268**

Sustainable cities and communities

**ISO/TC 207**

Environmental management

**ISO/TC 301**

Energy management and energy savings

**ISO/TC 204**

Intelligent transport systems

**ISO/TC 224**

Drinking water

**ISO/TC 282**

Water reuse

# Smart Cities



## IEC Technical Committees

**IEC/SyC Smart Energy** Smart Energy

**IEC/SyC Smart Cities** Electrotechnical aspects of Smart Cities

**ISO/IEC JTC 1** Information technology

**IEC/TC 8** Systems aspects of electrical energy supply

**IEC/TC 56** Dependability

**IEC/TC 57** Power systems management and associated information exchange

**IEC/TC 59** Performance of household and similar electrical appliances

**IEC/TC 61** Safety of household and similar electrical appliances

**IEC/TC 100** Audio, video and multimedia systems and equipment

**IEC/TC 108** Safety of electronic equipment within the field of audio/video, information technology and communication technology

# Smart Cities

## CEN Technical Committees



<b>CEN/TC 107</b>	Prefabricated district heating pipe systems
<b>CEN/TC 164</b>	Water supply
<b>CEN/TC 183</b>	Waste management
<b>CEN/TC 230</b>	Water efficiency/quality (Water analysis)
<b>CEN/TC 247</b>	Building automation
<b>CEN/TC 256</b>	Railway applications
<b>CEN/TC 264</b>	Air quality
<b>CEN/TC 278</b>	Intelligent Transport Systems
<b>CEN/TC 286</b>	Liquefied Petroleum Gas Equipment and Accessories
<b>CEN/TC 292</b>	Characterization of waste
<b>CEN/TC 301</b>	Road vehicles
<b>CEN/TC 308</b>	Characterization of sludge
<b>CEN/TC 310</b>	Advanced automation technologies
<b>CEN/TC 312</b>	Thermal solar systems and components
<b>CEN/TC 325</b>	Crime prevention, through building, facility and area design
<b>CEN/TC 345</b>	Characterization of soils

# Smart Cities

## CEN Technical Committees



- |                   |  |
|-------------------|--|
| <b>CEN/TC 346</b> | Conservation of cultural heritage  |
| <b>CEN/TC 348</b> | Facility management  |
| <b>CEN/TC 350</b> | Sustainability of construction works   |
| <b>CEN/TC 353</b> | Information and Communication technologies for Learning,<br>Education and Training |
| <b>CEN/TC 371</b> | Energy Performance of Buildings  |
| <b>CEN/TC 391</b> | Societal and Citizen security  |

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## CENELEC Technical Committees



<b>CLC/TC 8X</b>	System aspects of electrical energy supply
<b>CLC/TC 9X</b>	Electrical and electronic applications for railways
<b>CLC/TC 13</b>	Equipment for electrical energy measurement and load control
<b>CLC/TC 17A</b>	High-voltage switchgear and control gear
<b>CLC/TC 205</b>	Home and Building Electronic Systems
<b>CLC/TC 21X</b>	Secondary cells and batteries
<b>CLC/TC 57</b>	Power systems management and associated information exchange
<b>CLC/TC 65 X</b>	Industrial-process measurement, control and automation
<b>CLC/TC 69X</b>	Electrical systems for electric road vehicles
<b>CLC/TC 79</b>	Alarm systems
<b>CLC/TC 111X</b>	Environment
<b>CLC/TC 82</b>	Solar photovoltaic energy systems
<b>CLC/TC 88</b>	Wind turbines
<b>CLC/TC 59 X</b>	Performance of household and similar electrical appliances
<b>CLC/TC 215</b>	Electrotechnical aspects of telecommunication equipment
<b>CLC/SR 35</b>	Primary cells and batteries

# Smart Cities

## Vydané normy a dokumenty

ISO/IEC 30182:2017 The development of a standard on smart city concept model

ISO/TR 37121:2017 The development of a standard on inventory of existing guidelines and approaches on sustainable development and resilience in cities

ISO 37120:2014 An indicator reporting standard for quality of life and services in cities

ISO/TR 37150:2014 Research on smart infrastructure projects

ISO/TS 37151:2015 A specification for KPIs for smart infrastructure projects

ISO 37101:2016 The development of a standard on sustainable development in communities

ISO 37100:2016 The development of a standard on sustainable cities and communities

ISO/TR 37152:2016 - The development of a standard on Smart community infrastructures -- Common framework for development and operation

Poskytovanie zahraničných noriem za poplatok [shop@normoff.gov.sk](mailto:shop@normoff.gov.sk) alebo štúdium v Infocentre



# Smart Cities



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