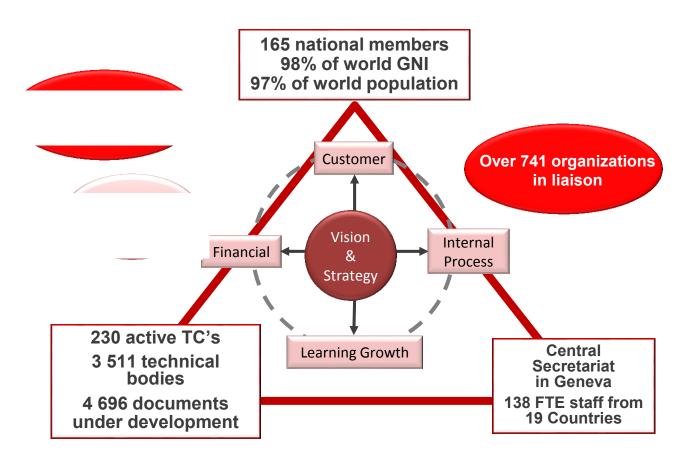


So Agenda

- ➤ ISO Smart Cities Strategic Advisory Group Mandate
- > ISO Indicators Update
- > Q & A



ISO – A Global System





Recent & future activities

- ❖ Launch meeting in Geneva on 17 June 2014
- Second meeting in London on 1 September 2014
- Third meeting in Barcelona on 19 November 2014
- ❖ Fourth meeting in Tokyo on 29 and 30 January 2015
- ❖ Fifth meeting in San Francisco on 30 March and 1 April 2015
- Sixth meeting in Berlin on 19 and 20 May 2015
- ❖ Final meeting in Geneva on 23, 24, 25 June 2015

Final report to TMB - September 2015





ISO TMB Smart Cities Strategic Advisory Group Mandate

- Clear working definition of 'smart cities'
- 2. Describe smart cities landscape & identify aspects most relevant to ISO
- 3. Review existing initiatives and activities in ISO
- 4. Gap analysis areas for ISO work, and collaboration across standards bodies
- Coordinate ISO input and nomination of experts to IEC/SEG 1

14 experts 4 liaison reps 8 observers



Launch June 2014
Report September 2015



Current key activities

Demand-side survey:

Countries (27):

Australia, Brazil, Canada, China, Finland, France, Germany, India, Indonesia, Israel, Japan, Kenya, Korea (Republic of), Malaysia, Mexico, Morocco, Netherlands, Nigeria, Russian Federation, Singapore, South Africa, Spain, Sweden, Switzerland, UK, United Arab Emirates, USA

Associations and organizations (9):

 Bloomberg, C40, City Protocol Society, ICLEI, Smart Cities Council, UNEP, World Bank, Eurocities, OECD



Demand-Side Survey

Purpose

- To understand
 - how cities perceive standards & SDOs, and
 - cities needs in relation to guidance
- Engage the unengaged:
 - city leadership / senior officials
 - small & mid-sized cities
- Inform ISO plans, and how it operates with SDOs / influential bodies

Process

- Launch March
- Close end April
- First insights May/June

Content

- 1. Current Experience with standards
- 2. Relevance at senior levels
- 3. Leadership content
- 4. City domain content
- 5. Legitimacy of SDOs
- 6. Any other matters

Targets

 5-10 Cities of different sizes and levels of development – selected via national bodies



Smart cities & some ISO committees

...noting the survey with committees is taking place

TC 59/SC 17 Sustainability in buildings and civil engineering works

TC 163 Thermal performance and energy use in the built environment

TC 205 Building environment design

TC 242 Energy management

TC 268 Sustainable development in communities

TC 268/SC 1 Smart community infrastructures

JTC 1 Study Group on Smart Cities; etc.



TC 268 Sustainable development in communities & TC 268/SC 1 Smart community infrastructures



Click here to see the committees work programme.



Standards developed by ISO/TC 268 & SC 1

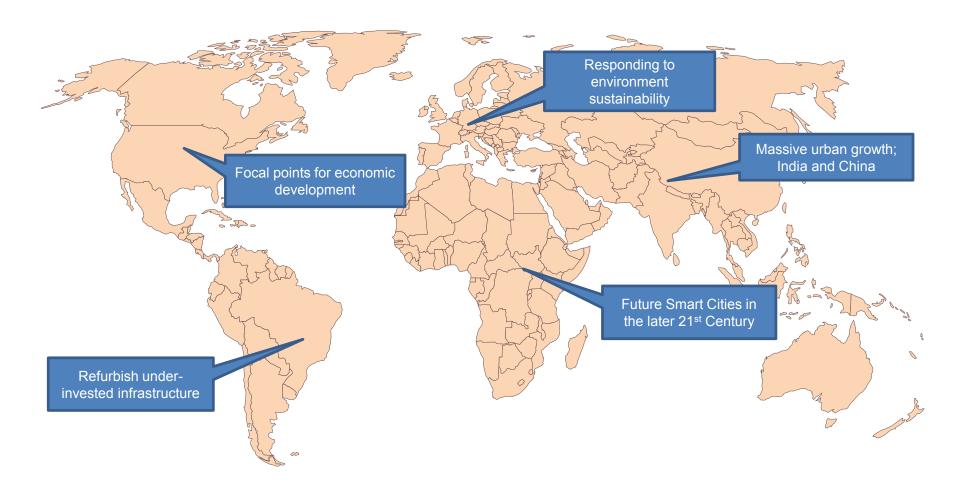
- ISO 37120 Sustainable development & resilience of communities Indicators for city services & quality of life
- ISO/TR 37150 Smart community infrastructures Review of existing activities relevant to metrics
- ISO 37101 Sustainable development of communities -- Management systems --Requirements with guidance for resilience and smartness
- **ISO 37102** Sustainable development & resilience of communities Vocabulary
- ISO/TR 37121 Inventory & review of existing indicators on sustainable development & resilience in cities
- ISO/TS 37151 Smart community infrastructures -- Principles and requirements for performance metrics
- ISO/TR 37152 Smart community infrastructures -- Common framework for development & operation

Thank you for listening!

 Introducing: Dave Welsh, ANSI appointed expert to the ISO/TMB Smart Cities SAG for the update on indicators



Drivers shaping the Smart Cities landscape

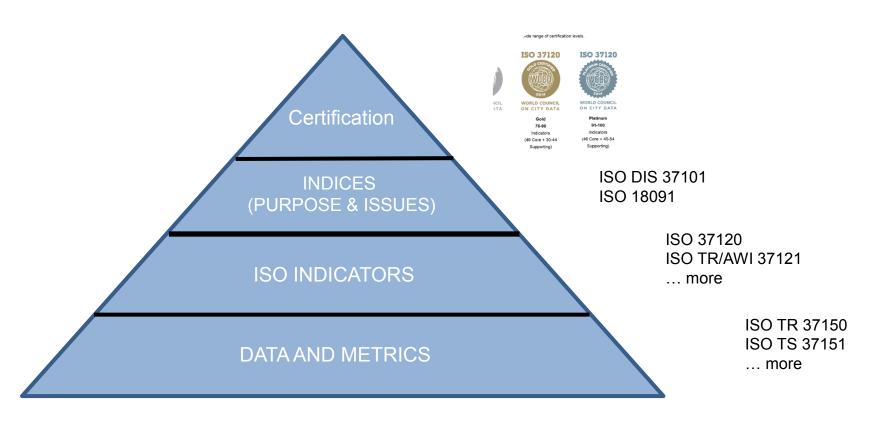


WHY CITY STAKEHOLDERS NEED GLOBAL STANDARDIZED INDICATORS?

- TO DETERMINE ENTRY POINTS FOR INVESTMENT in city markets and make informed decisions through data analysis
- TO BENCHMARK INVESTMENTS and monitor progress
- TO EVALUATE the "impact" of infrastructure projects on the sustainability and efficiency of the city
- TO BUILD Smart and Sustainable Cities
- TO EVALUATE the investment in comparative perspective across cities nationally and globally
- TO STRENGTHEN the effectiveness of city governance



Building on the ISO Foundation for Sustainable Development



ISO 14000 Environmental management

ISO 50001 Energy management

ISO 27001 Information security management

ISO 22000 Food safety management

ISO 26000 Social responsibility

ISO 31000 Risk management

... more

ISO/TC 204 - Intelligent transport systems

ISO/TC 22 - Road vehicles

ISO/TC 205 - Building environment design

ISO/TC 20 - Aircraft and space vehicles

ISO/TC 59 - Buildings and civil engineering works

... more

Plus ISO Liaison Relations



Example: Age Friendly Cities



ISO 37120 - City Services and Quality of Life (17 Themes)

Economy Education Energy

Environment

Finance

Fire and Emergency

Response

Governance

Health

Recreation

Safety Shelter Solid Waste

Telecommunication and

Innovation

Transportation

Urban Planning

Wastewater

Water and Sanitation

ISO 37120 – 46 Core/56 Support Indicators

For Example Health (core Indicators)

- Average life expectancy
- Number of in-patient hospital beds per 100 000 population
- Number of physicians per 100 000 population
- Under age five mortality per 1 000 live births



ISO 37121 - Indicators for Sustainable Development and Resilience in Cities

Review and Development of New Indicators on Sustainability and Resilience

- Smart Cities
- Emergency Preparedness
- Changes in rainfall and storm surges
- Protection of biodiversity
- Alternative energy
- Risk assessment
- Resilience Infrastructure

- Smart Grid
- Economic resilience
- Political resilience
- Walkability & Accessibility
- Transit & Mobility
- Water & Waste Management
- Green buildings

WORKING DEFINITION: A "SMART CITY" should be described as one that:

- dramatically increases the pace at which it improves its sustainability and resilience,
- by fundamentally improving how it engages society, how it applies collaborative leadership methods, how it works across disciplines and city systems, and how it uses data and integrated technologies,
- in order to provide better services and quality of life to those in and involved with the city (residents, businesses, visitors).

Building on ISO Guide 82 on Sustainability and ISO Guide 73 on Resilience, a Smart City has ...

.... PURPOSE: accelerated improvement in sustainability and resilience

..... COMMON MEANING: sustainability is the destination, smart is the accelerator

..... CHARACTERISTICS: People-centric (citizens, businesses, workers, residents, visitors, etc.); well led and governed; inclusive and open (to all people and to new ideas); transparent in communications and operations; secure in respect of personal information; supported by integrated services and infrastructure; and pro-active in learning and developing



