



Enabling a smart sustainable future for all cities

United for Smart Sustainable Cities

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Cities

By 2050, it is expected that **68%** of the population in the world will be living in urban areas



New Urban Agenda (2016) highlights the importance of leveraging digital technologies for smart cities



Cities continue to face an increasing number of **challenges**



Cities are at the heart of the **Sustainable Development Goals**

Common city challenges



population growth



economy



food security



education



citizen health



housing



transportation



safety and security



infrastructure



services delivery



environment



waste

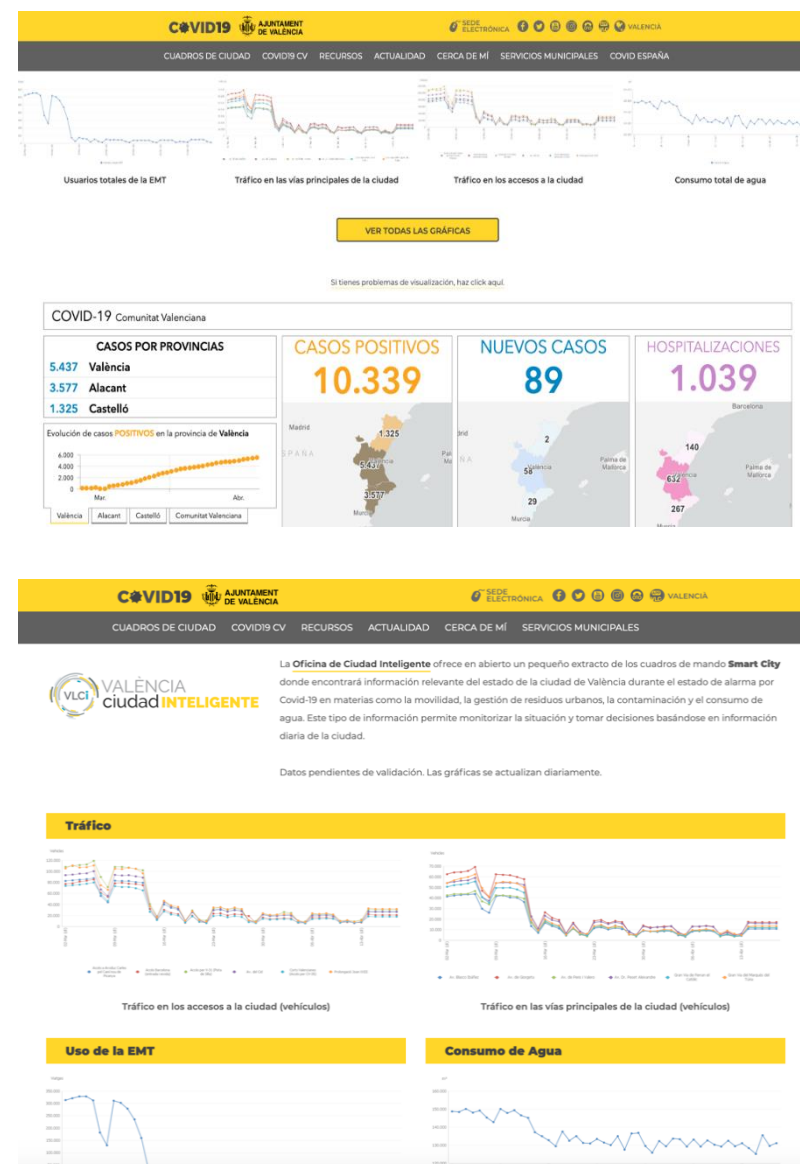
2020's defining challenge



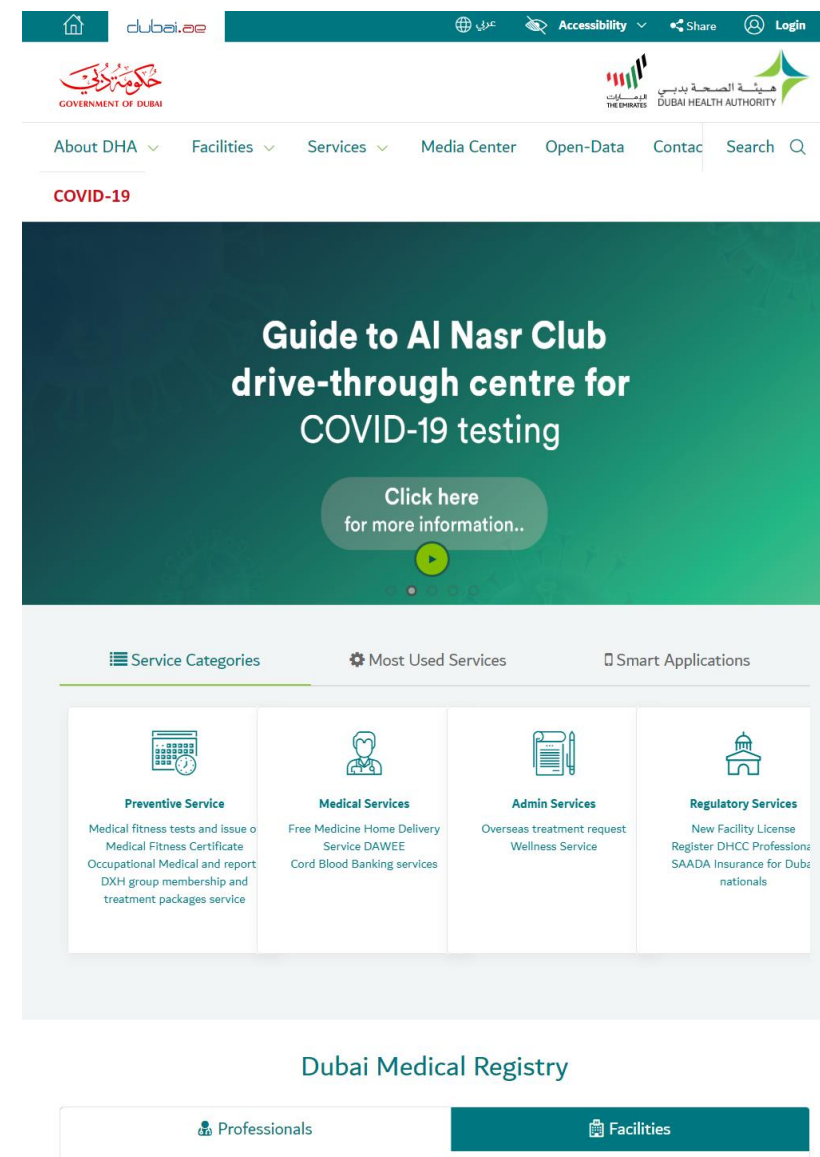
COVID-19

How a smart sustainable city responds to COVID-19

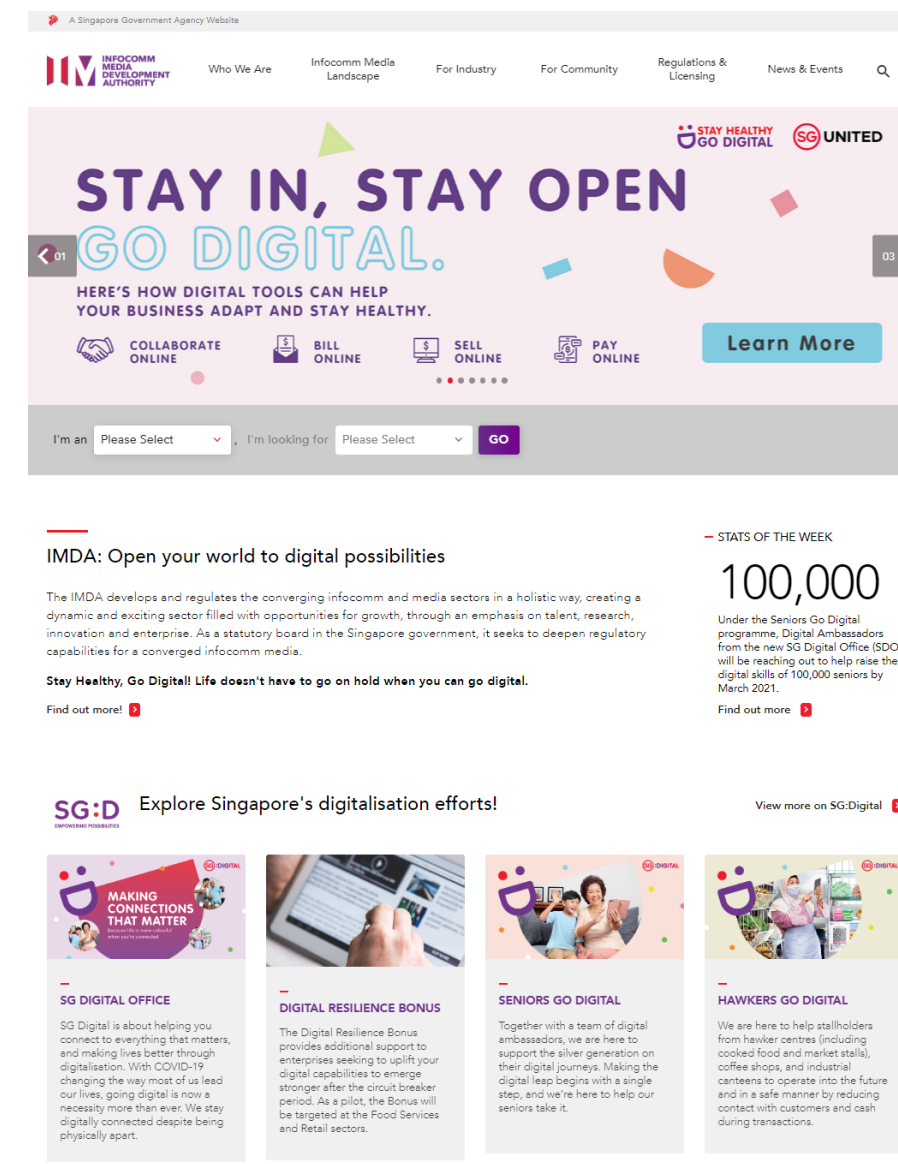
Valencia, Spain



Dubai, UAE



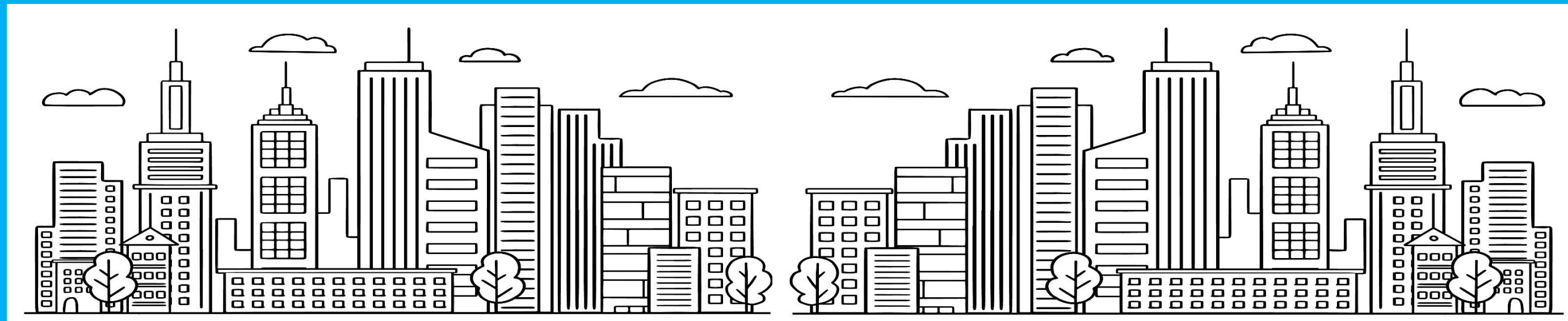
Singapore



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"A smart sustainable city is an innovative city that uses information and communication technologies (ICTs) and other means to improve quality of life, efficiency of urban operation and services, and competitiveness, while ensuring that it meets the needs of present and future generations with respect to economic, social, environmental as well as cultural aspects."

Recommendation ITU-T Y.4900





U4SSC is a UN initiative coordinated by the ITU, UNECE and UN-Habitat along with other 14 UN bodies that advocates for public policy to encourage the use of ICTs and digital technologies to facilitate and ease the transition to smart sustainable cities.

Supported by



Convention on
Biological Diversity



UNITED NATIONS

ECLAC



Food and Agriculture Organization
of the United Nations



UN
DP

Empowered lives.
Resilient nations.



United Nations
Economic Commission for Africa



UNECE



United Nations
Educational, Scientific and
Cultural Organization

UN
environment

United Nations
Environment Programme



FINANCE
UNEP INITIATIVE



United Nations
Framework Convention on
Climate Change

UN HABITAT
FOR A BETTER URBAN FUTURE



UN OFFICE
4 PARTNERSHIPS



UNITED NATIONS
UNIVERSITY

UNU-EGOV

Operating Unit on Policy-Driven
Electronic Governance

UN
WOMEN



WORLD
METEOROLOGICAL
ORGANIZATION

U4SSC and the SDGs

U4SSC contributes to achievement of the Sustainable Development Goal 11: "Make cities and human settlements inclusive, safe, resilient and sustainable".

It is rooted in the idea that to successfully implement sustainability strategies, cities need to leverage ICTs & digital technologies.

11 SUSTAINABLE CITIES
AND COMMUNITIES



Current work

U4SSC is working on the following Thematic Groups:

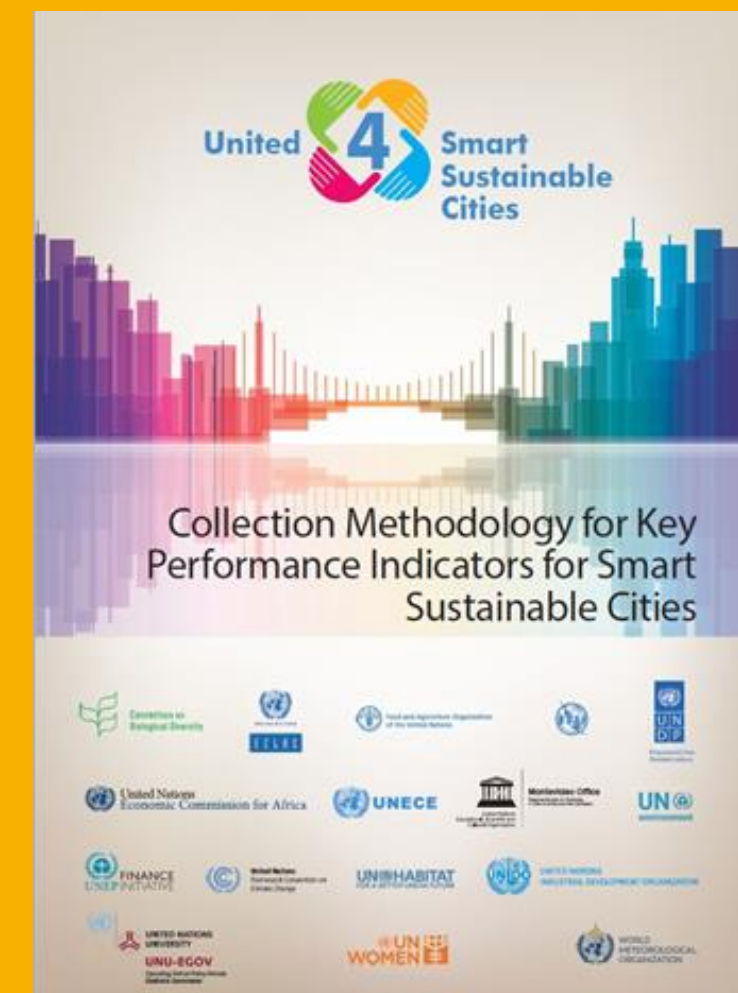
- City platforms
- Economic and financial recovery in cities and urban resilience building in the time of COVID-19
- Guidelines on tools and mechanisms to finance SSC projects
- Guiding principles for Artificial Intelligence in cities
- Blockchain for cities

Current work

- Impact of Frontier Technologies in Cities
- Simple ways to be smart
- Practitioner guide to measuring Smart Cities and Communities
- Practitioner guide to monitoring Smart Cities and Communities
- Procurement Guidelines for Smart Sustainable Cities
- United for Smart Sustainable Cities Index

U4SSC Key Performance Indicators for Smart Sustainable Cities

The U4SSC initiative has developed a set of international key performance indicators (KPIs) for smart sustainable cities (SSC) to establish the criteria to evaluate ICTs' and digital technologies' contributions in making cities smarter and more sustainable, and to provide cities with the means for self assessment.

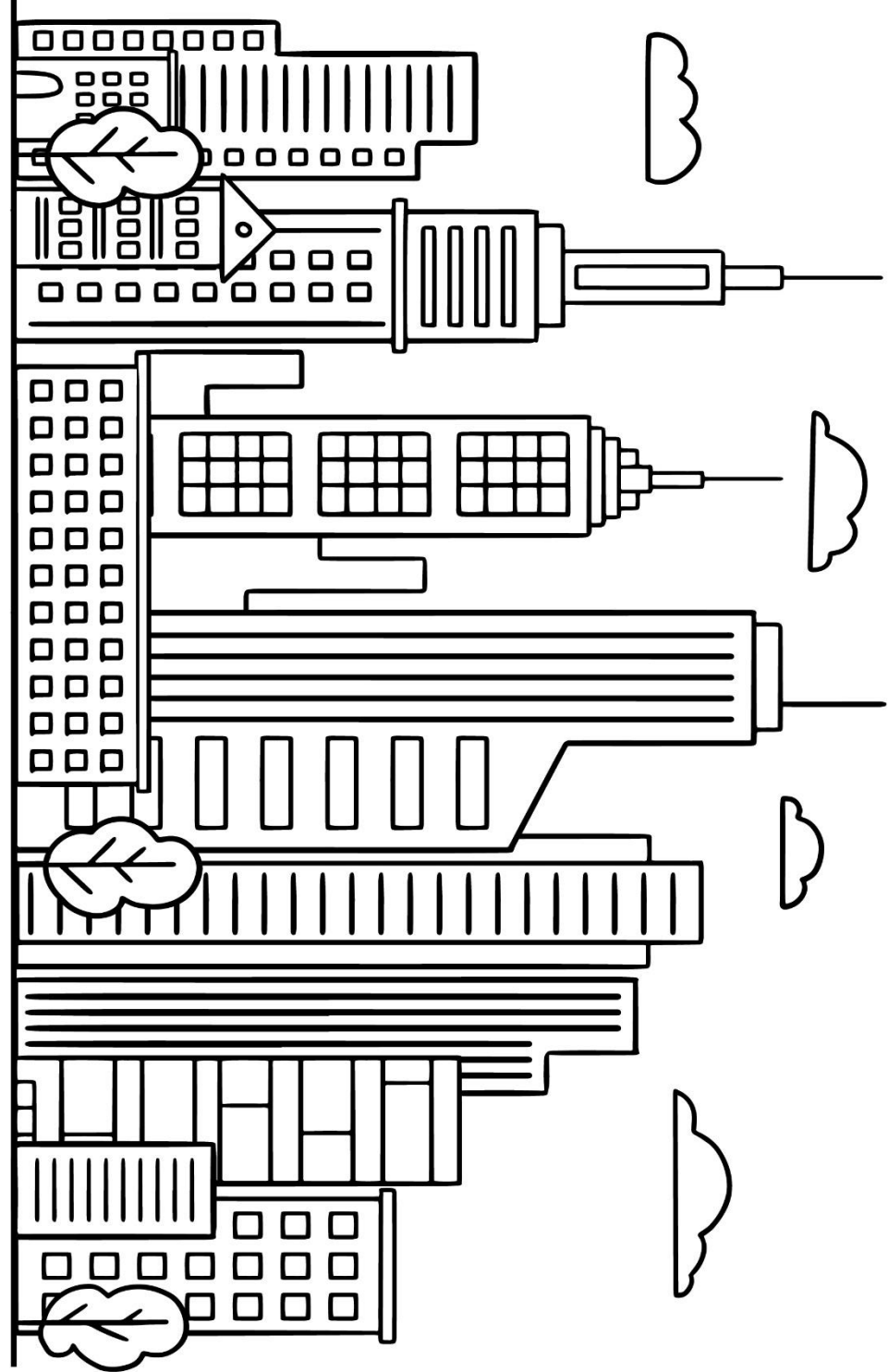




Aims

- To support cities in the implementation and use of the U4SSC KPIs
- To provide cities with a standardized method to measure performance and progress in regard to:
 - Achieving the Sustainable Development Goals (SDGs);
 - Becoming a smarter city; and
 - Becoming a more sustainable city.

KPIs Framework



Dimensions

Economy

Environment

Society and Culture

- ICT Infrastructure
- Water & Sanitation
- Drainage
- Electricity Supply
- Transport
- Public Sector
- Innovation
- Employment
- Waste
- Buildings
- Urban Planning

- Air Quality
- Water and Sanitation
- Waste
- Environmental Quality
- Public Space and Nature
- Energy

- Education
- Health
- Culture
- Housing
- Social Inclusion
- Safety
- Food Security

Categories

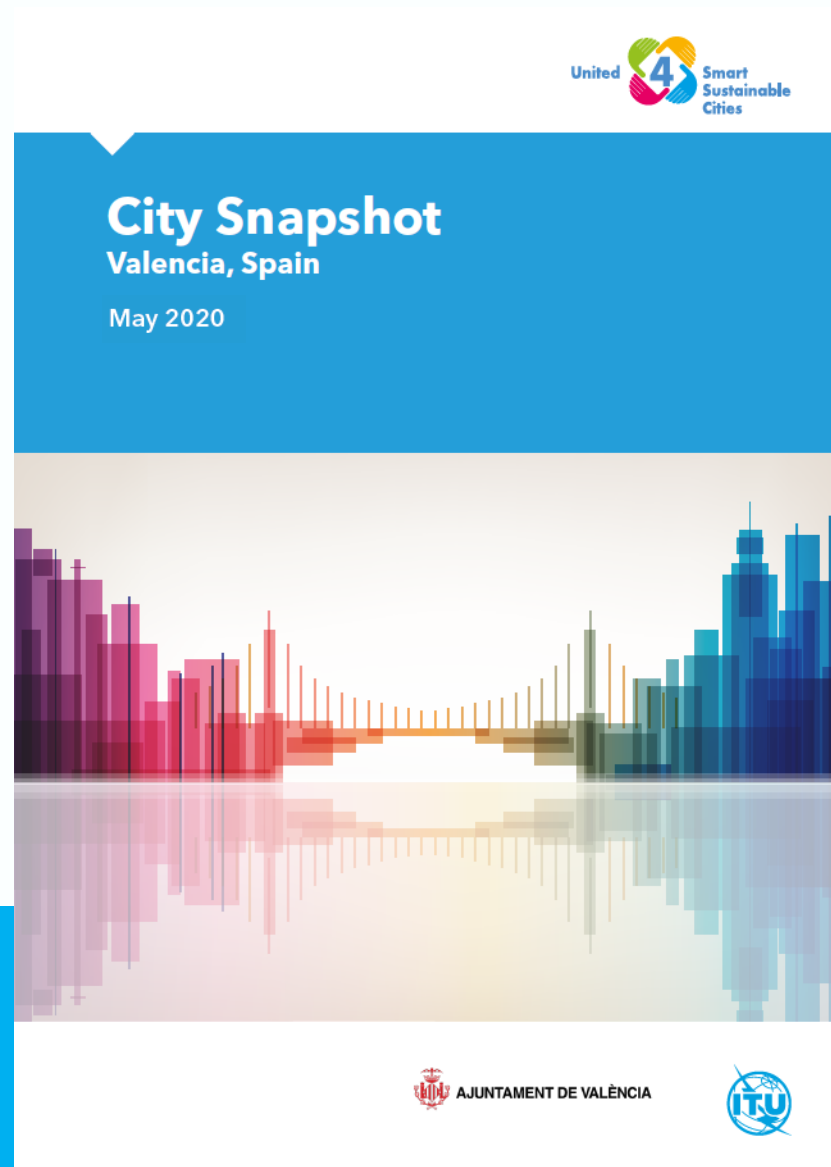
55 Core Indicators + 36 Advanced Indicators

- 20 Smart + 32 Structural + 39 Sustainable
- 132 Data Collection Points

U4SSC publications

A library of free resources available at:

www.itu.int/en/ITU-T/ssc/united/Pages/publications-U4SSC.aspx



Snapshots

Provide a visual overview of a city's U4SSC KPI performance based on global benchmarks



Verification Reports

Summarize the conclusions of a city's U4SSC KPIs Project



Factsheets

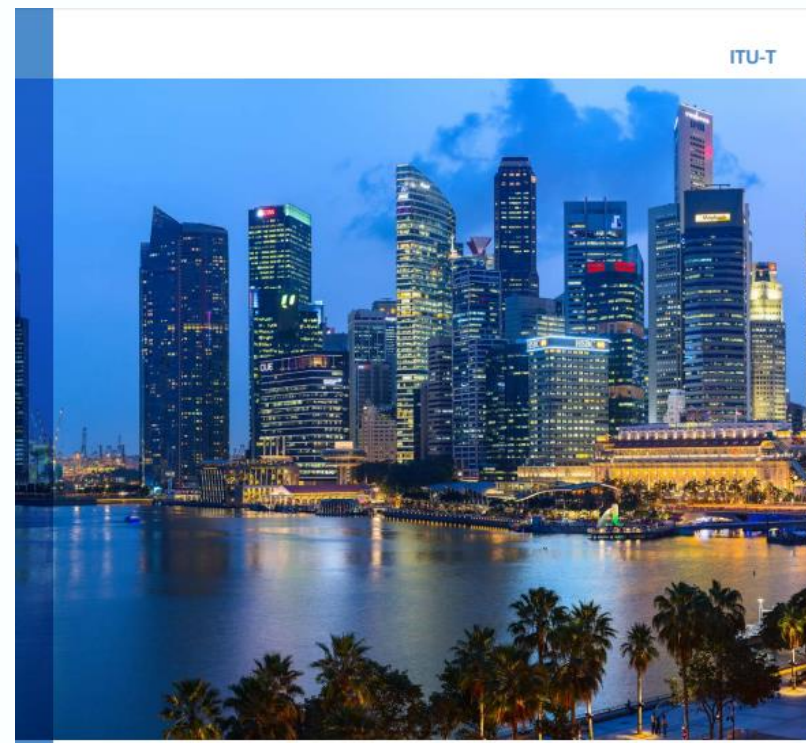
Elaborate and analyze the results of a city's U4SSC KPIs Project

Case Studies

Detail a city's journey towards becoming a smart sustainable city



Implementing ITU-T International Standards to Shape Smart Sustainable Cities: The Case of Dubai



Implementing ITU-T International Standards to Shape Smart Sustainable Cities: The Case of Singapore



Implementing ITU-T International Standards to Shape Smart Sustainable Cities: The Case of Moscow



Reports

Cover a variety of SSC and technology related topics



Frameworks

Offer methodologies for cities to solve their pressing urban challenges





TRULY GLOBAL REACH

More than 100 cities worldwide are already participating in the U4SSC KPIs Project, with more signing on every year!

U4SSC welcomes
all cities to start
their SSC journey!

For more information, contact:

u4ssc@itu.int

Website:

www.itu.int/en/ITU-T/ssc/

Access the U4SSC KPIs methodology at:

[www.itu.int/en/publications/Documents/tsb/2](http://www.itu.int/en/publications/Documents/tsb/2017-U4SSC-Collection-Methodology/mobile/index.html)

[017-U4SSC-Collection-](http://www.itu.int/en/publications/Documents/tsb/2017-U4SSC-Collection-Methodology/mobile/index.html)

[Methodology/mobile/index.html](http://www.itu.int/en/publications/Documents/tsb/2017-U4SSC-Collection-Methodology/mobile/index.html)

Thank you!

