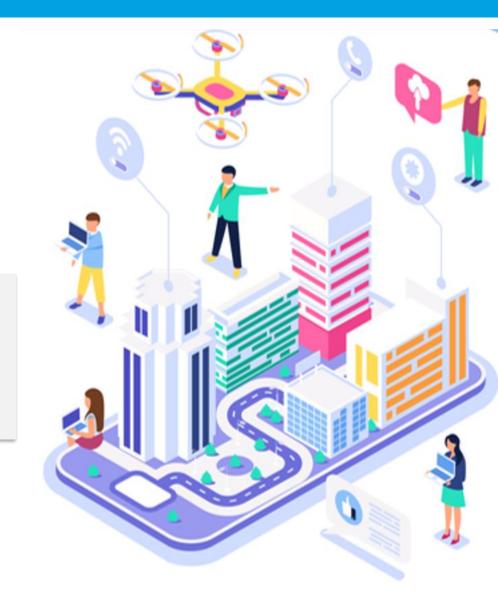
Toolkit on Digital Transformation for People-Oriented Cities and Communities



Module 2: Developing a Digital Transformation Strategy for Cities

Jointly developed by: ITU, UN-Habitat, UNDP, UNDESA





#### Module 2 – Developing a Digital Transformation Strategy for Cities

- This Module of the ITU Toolkit on Digital Transformation for People- Oriented Cities and Communities focuses on developing a digital transformation strategy for cities and communities.
- Cities and communities that are starting on their digital transformation journey will find the resources highlighted within this Module useful towards general planning and initiating the development of a strategy.
- This Module is also useful for cities and communities that have already made some headway into their general planning process but would like to validate the efficacy and completeness of their measures.





#### Module 2 – Developing a Digital Transformation Strategy for Cities

This Module will cover the following topics:

- 1. Defining Digital and Digital Transformation Strategy
- 2. Assessing City's Level of Digital Maturity
- 3. Strategy Development Challenges in Cities and Communities
- 4. Digital transformation Strategy Opportunities in Cities and Communities
- 5. Key Tools for Developing a Digital Transformation Strategy for Cities and Communities
  - 1. Tool #1: City Leaders' Guide
  - 2. Tool #2: Smart Sustainable City Strategy
  - 3. Tool #3: Engaging Stakeholders
  - 4. Tool #4: Local Online Service Index (LOSI)
  - 5. Tool #5: Case Studies & Handbook





## **1. Defining Digital and Digital Transformation**

Strategy



#### **Digital and Digital Transformation Strategy Terminology**

Digital	Digitization	Digitalization	Digital Transformation	Digital Transformation Strategy
<ul> <li>encompasses electronic technologies that generate, store, and process data.</li> </ul>	<ul> <li>involves creating a digital representation of records, i.e. from analog to digital.</li> </ul>	<ul> <li>Is about enabling or improving processes using digital technologies and digitized data.</li> </ul>	<ul> <li>is about using digitization and digitalization to transform traditional processes and create new services and value for inhabitants.</li> </ul>	<ul> <li>Agreed upon plan of action describing organizational shifts and changes to better harness digital technologies.</li> </ul>



#### **Building Blocks of Digital Transformation Strategy**

Highest level of political and administrative support	Continuous engagement and organizational culture change	Simple and easy to communicate digital vision and objectives
Foundational infrastructure – digital and data infrastructure and architecture	Digital talent – staff with the right digital skills and experience in leading implementing urban digital transformation	Digital governance – institutional arrangements including governance structure to manage and govern digital technologies
Roadmap – clearly defined action plan	Funding and investment to implement the strategy	Change management and awareness

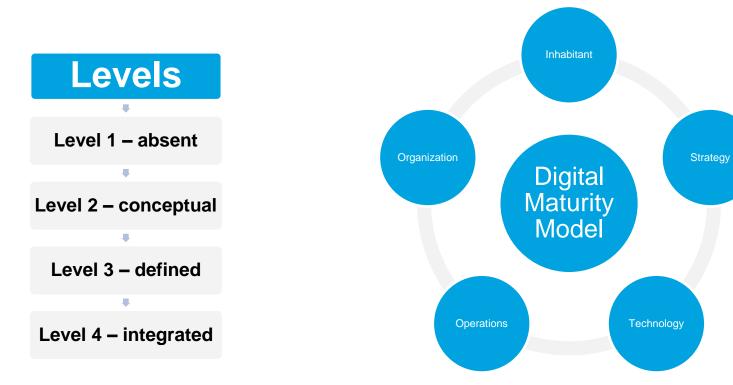




## 2. Assessing City's Level of Digital Maturity



#### Digital Maturity Model A Tool to Enable Digital Transformation in Cities



Based on Deloitte digital maturity model

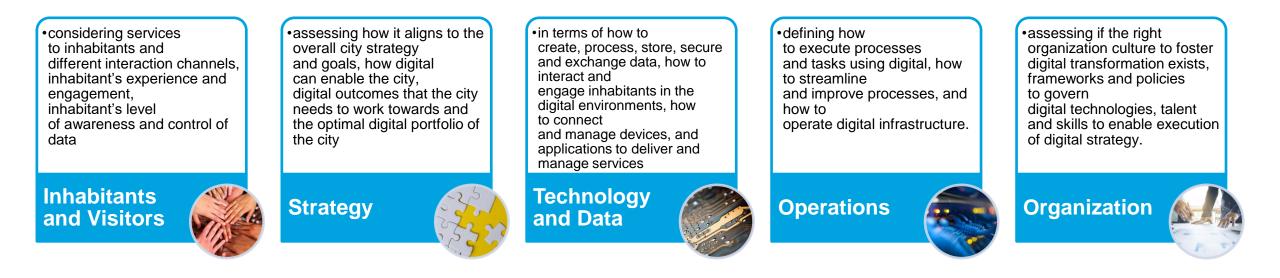
#### It enables city leaders to:

- Assess where they are in their digital transformation journey.
- Create strategies, goals and plans.
- Make impactful digital transformation project investments.



#### Digital Maturity Model A Tool to Enable Digital Transformation in Cities

Five clearly defined dimensions to assess digital maturity holistically across the city





## 3. Strategy Development Challenge in Cities and Communities

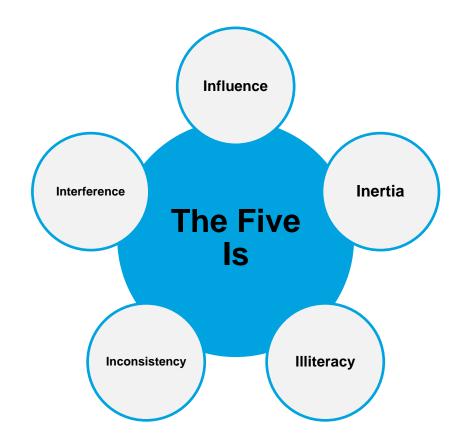


# Strategic Challenges for Cities and Communities

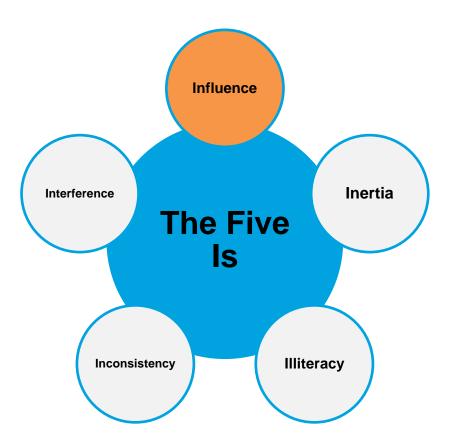
Transforming cities as a response to digital change is challenging and requires a structured approach particularly as cities comprises of different entities with different technological and social elements all of which can govern the success or failure of digital transformation.





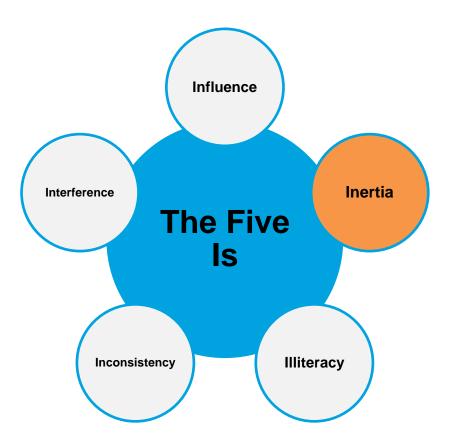






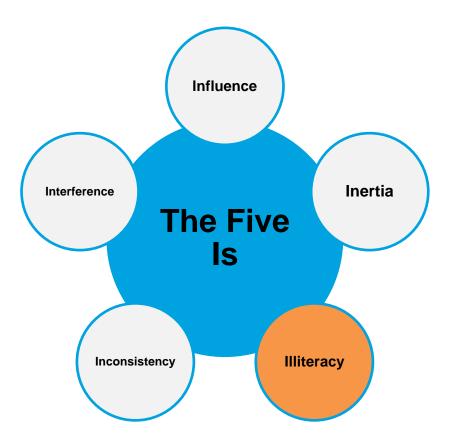
Influence can happen when any parties have undue say in the in strategy development or decision-making by having access to certain resources or to planners and politicians.





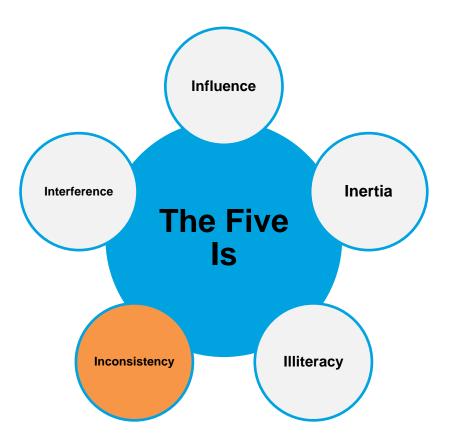
Inertia can occur when old and out-of-date standards, technologies, attitudes or methods can hinder forward smart sustainable city momentum.





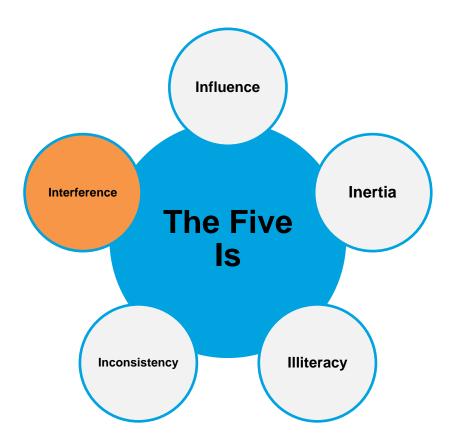
*Illiteracy* in this case refers to a failure to explain the smart sustainable city undertaking to the public and other stakeholders, which affects public debates and discussions on planning issues.





Inconsistency stems from not following best practices or the principles / requirements of master planning documents.





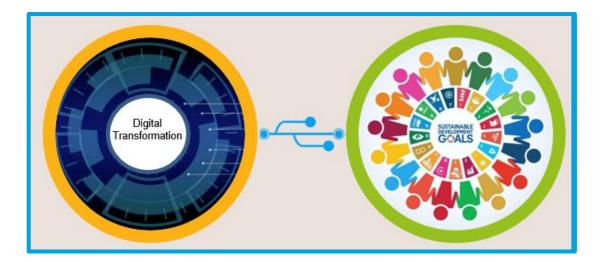
Interference refers to unnecessary intervention by influential parties or stakeholders in the strategy development processes. This may take the form of rejection of planning advice or application of political pressure.



## 2. Digital Transformation Strategy Opportunities in Cities and Communities



#### **Digital Transformation for the Sustainable Development Goals**







#### **Benefits of Digital Transformation Strategy Planning**







Helping Cities visualize the bigger picture Help provide a strong framework for investment

Adaptable to a changing environment

Responsive to citizens' needs

Participation from citizens at all levels Accountability to help monitor results



#### Opportunities for Cities Implementing a Digital Transformation Strategy

- $(\rightarrow)$
- Support Service Delivery
- Improve Data management and Data Analysis
- Increase Citizen Engagement
  - Improve Automation
- Support City Level Governance

- Promote Coordination
- Improve Administration and Project
   Management
  - Promote Geospatial Mapping
  - Support City Wide Integration



## 3. Key Tools for Digital Transformation Strategy for Cities and Communities



#### Introduction to Tools for Developing a Digital Transformation Strategy

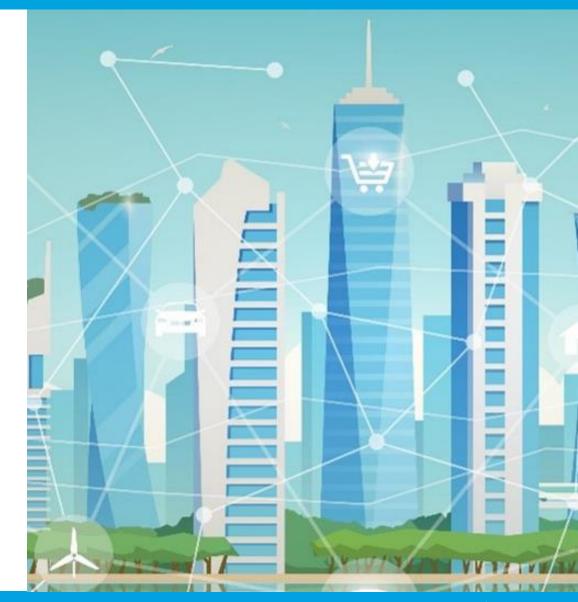




#### Tool #1

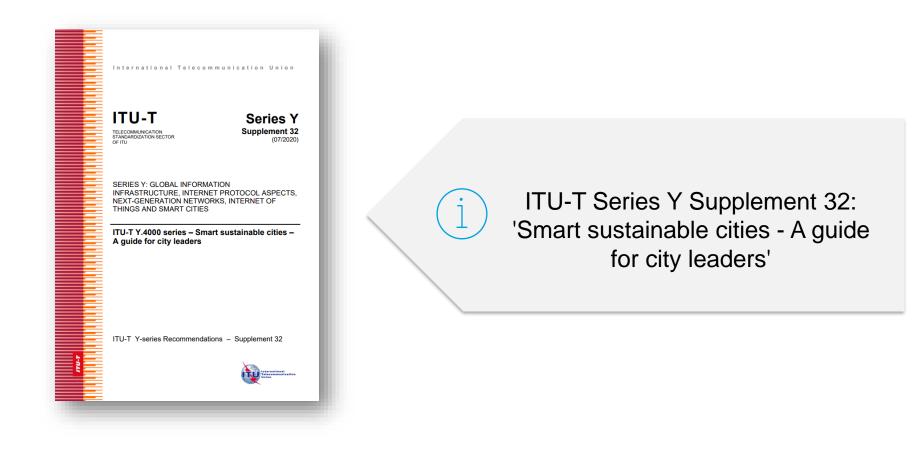


#### City leaders' guide





#### A Guide for City Leaders





#### A Guide for City Leaders

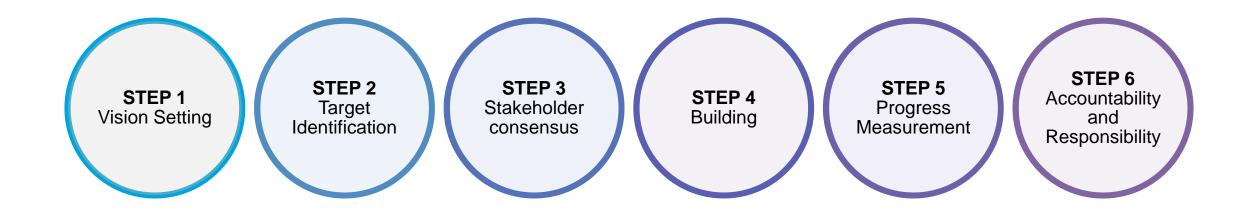
As this is a cyclical process, a city may revisit the various stages as needed, even once it achieves its desired level of smartness and sustainability.



ITU-T Series Y Supplement 32: 'A guide for city leaders'

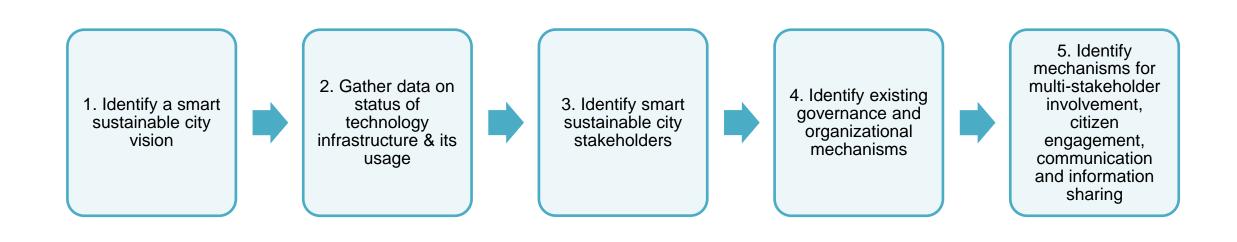


#### A Guide for City Leaders





A guide for City Leaders Step 1: Vision Setting





#### A Guide for City Leaders Step 1: Vision Setting

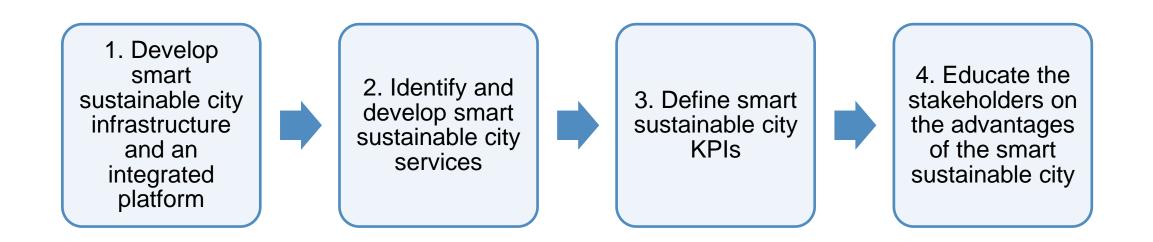


Asking questions such as:

- What are our current strengths as a city?
- Who are our potential smart city stakeholders?
- Where are some of our weaknesses as a city
- What are some short term and long-term opportunities?
- What are the current trends in cities?
- What are the associated threats?



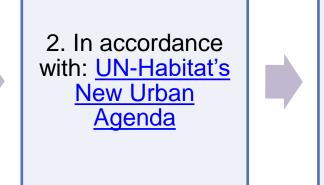
A Guide for City Leaders Step 2: Target Identification





#### A Guide for City Leaders Step 3: Stakeholder Consensus

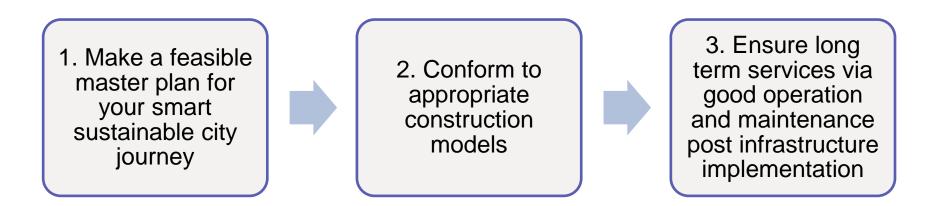
1. Obtain the necessary stakeholder consensus, approval and backing for the smart sustainable city strategic programme



3. Aligned with: Connect 2030



A Guide for City Leaders Step 4: Building





#### A Guide for City Leaders Step 5: Progress Measurement

Monitor and evaluate a work programme required to achieve the smart sustainable city targets, including close coordination and collaboration among smart sustainable city stakeholders, as well as an assessment on basis of KPIs



#### A Guide for City Leaders Step 6: Accountability and Responsibility

Evaluate, report and learn from the smart sustainable city process and related experiences, including through an assessment of implementation of the work programme and analysis of strengths and shortcomings



#### **Tool #2**

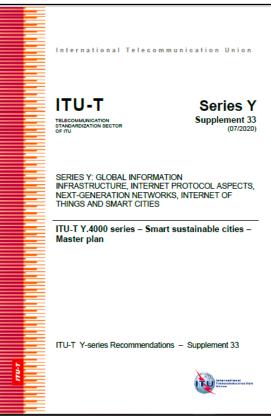


### Smart Sustainable City Strategy





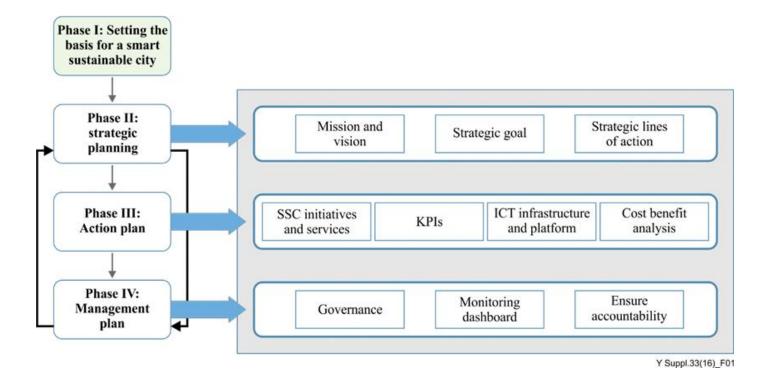
#### Smart Sustainable City Strategy ITU Resources



ITU-T Series Y Supplement 33: 'Smart sustainable cities – Master Plan



#### Smart Sustainable City Strategy The Smart Sustainable City Strategy Planning Framework



ITU-T Series Y Supplement 33: 'Master Plan'



#### Smart Sustainable City Strategy Four Phases

There are four general phases that every city can use to develop its smart sustainable city strategy:





When embarking on the city's smart sustainable city master planning process, it is important to ask some key questions to establish the purpose, importance and tone of the planning process:



Why is Smart Sustainable City Strategy Development important for our city?

Where is our city starting its Smart Sustainable City Strategy Development from?



This self-assessment can determine which components should be included in the Smart Sustainable City Strategy Development process.

	Description	ITU guide	Already exists?	Include in workplan?
Key city facts and data	A document that summarizes the relevant information for strategy development purposes	<ul> <li>ITU-T Supplement Y.39: Key performance indicators definitions for smart sustainable cities and communities</li> </ul>	🔿 Yes 🔿 No	🔿 Yes 🔿 No
Stakeholder list	A list of all potential smart sustainable city stakeholders	<ul> <li>ITU-T Supplement Y.34: Setting the stage for stakeholders' engagement</li> </ul>	🔿 Yes 🔿 No	🔿 Yes 🔿 No
Stakeholder engagement plan	A plan for engaging the identified smart sustainable city partners and stakeholders	<ul> <li>ITU-T Supplement Y.34: Setting the stage for stakeholders' engagement</li> </ul>	🔿 Yes 🔿 No	🔿 Yes 🔿 No
Strategic assessment	The strengths, areas of improvement and areas of opportunities and investment for the city or community from an smart sustainable city lens	<ul> <li>ITU-T Supplement Y.32: A guide for city leaders</li> <li>ITU-T Supplement Y.33: Master plan</li> </ul>	🔿 Yes 🔿 No	🔿 Yes 🔿 No
Smart sustainable city vision	A smart sustainable city vision to provide an ultimate goal that the smart sustainable city strategy is working towards	<ul> <li>ITU-T Supplement Y.32: A guide for city leaders</li> <li>ITU-T Supplement Y.33: Master plan</li> </ul>	🔿 Yes 🔿 No	🔿 Yes 🔿 No



**Table Continued** 

	Description	ITU guide	Already exists?	Include in workplan?
Strategic areas and goals	The broad smart sustainable city strategic areas or subjects to focus on, along with specific goals for each smart sustainable city strategic area	<ul> <li>ITU-T Supplement Y.32: A guide for city leaders</li> <li>ITU-T Supplement Y.33: Master plan</li> <li>ITU-T Supplement Y.53: IoT use cases</li> </ul>	🔿 Yes 🔿 No	🔿 Yes 🔿 No
Prioritized action items	The specific action items to activate the smart sustainable city plan	ITU-T Supplement Y.33: Master plan	🔿 Yes 🔿 No	🔿 Yes 🔿 No
Master plan	A written plan to convey the smart sustainable city undertaking	ITU-T Supplement Y.33: Master plan	🔿 Yes 🔿 No	🔿 Yes 🔿 No
Action plan	A smart sustainable city implementation workplan	ITU-T Supplement Y.33: Master plan	🔿 Yes 🔿 No	🔿 Yes 🔿 No
Measurement and evaluation plan	The key performance indicators to measure outcomes against the smart sustainable city plan	<ul> <li>ITU-T Supplement Y.32: A guide for city leaders</li> <li>ITU-T Supplement Y.39: KPI definitions for SSC</li> </ul>	🔿 Yes 🔿 No	🔿 Yes 🔿 No



Key success factor assessment: Some sample questions

	Yes	Maybe	No
Is developing a smart sustainable city plan seen as necessary by the key stakeholders?			
Will the Smart sustainable City Strategy Development process be seen as objective and transparent?			
Are key stakeholders ready to collaborate and work together?			



Smart Sustainable City Project Planning Team and Terms of Reference:

Element	Details
Purpose	
Responsibilities	
Membership	
Governance	
Meetings	
Resources	

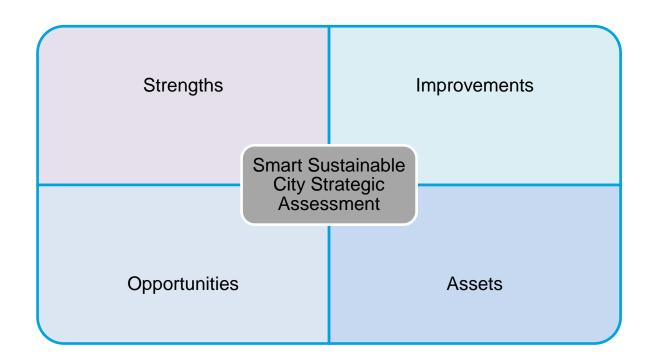


Key city facts and data

City profile	City technology asset categories	Current smart sustainable city programmes or initiatives	Past smart sustainable city programmes or initiatives
<ul> <li>Population:</li> <li>Size:</li> <li>Urban Density:</li> <li>GDP:</li> <li>Total Budget:</li> </ul>	<ul> <li>Category 1 (e.g,. Transportation Network)</li> <li>Category 2</li> </ul>	<ul> <li>Programme 1</li> <li>Programme 2</li> </ul>	<ul> <li>Programme 1</li> <li>Programme 2</li> </ul>



Smart sustainable city strategic assessment:





Smart sustainable city visioning: A vision is necessary for providing direction to the Smart Sustainable City Strategy Development process. Developing the smart sustainable city vision statement includes the following steps.

Asking questions such as:

- What may the city look like in a given number of years, e.g., 10 years?
- What could the economic aspects of the city look like then?
- What may be different then from the present?
- What may be similar then to the present?

Shortlisting descriptive words, images or phrases that capture the ideal smart sustainable city vision of the city in the aforementioned timeframe.

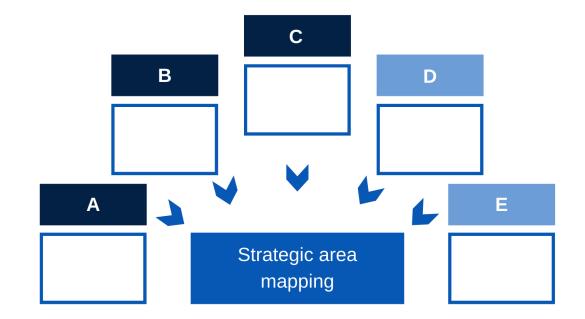
Bringing these together in a smart sustainable city vision statement for the city.



Smart sustainable city strategic area identification:

The smart sustainable city vision can be recorded at the centre of this map, and all brainstormed strategic areas in boxes A to E.

The darker boxes A, B and C would signify those chosen by voting / consensus as the top three target smart sustainable city strategic areas.





Smart sustainable city strategic area goals:

Vision			
Strategic Area	Strategic Goals(s)		
1.			
2.			

Action plan development:

Vision			
Strategic Area	Action Ideas(s)		
1.			
2.			



#### Smart Sustainable City Strategy Planning Phase 3: Action Plan

Prioritizing activities (with some examples filled in):

Action	Financially Realistic	Ease of Implementation	Partner Benefits	Score
	(1=low degree; 3=		noderate degree; 5=high de	egree)
Develop the smart sustianable city website	5	6	4	15
Smart sustainable city marketing campaign	3	4	5	12
Smart sustainable city initiative 1	3	3	5	11
Action X				
Action Y				
Action Z				



#### Smart Sustainable City Strategy Planning Phase 3: Action Plan

Prioritizing activities (with some examples filled in):

Vision	Strategic Area	Strategic goal (if applicable)	Action
Record your vision here			



## Smart Sustainable City Strategy Planning Phase 4: Management plan

Strategic Area	Evaluation Question	Information Source	Method	Responsibility
хх				
~~				
Overall				



#### Smart Sustainable City Strategy Planning Phase 4: Management plan

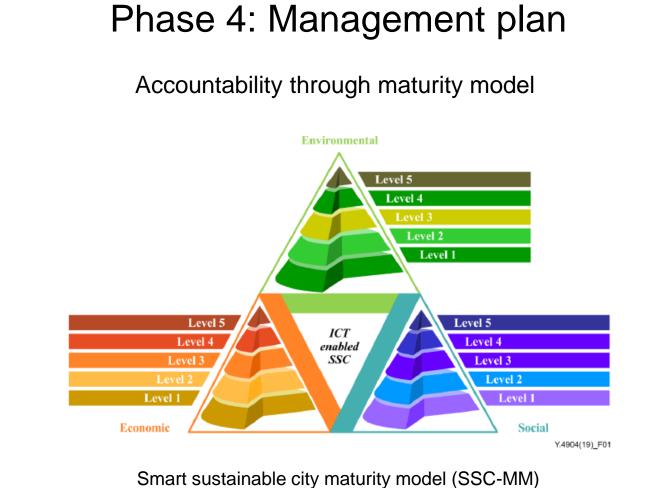
Monitoring using U4SSC KPIs for smart sustainable cities

The U4SSC KPIs are a tool that cities and communities can use to monitor, benchmark, compare and analyze their smart sustainable city implementation results.

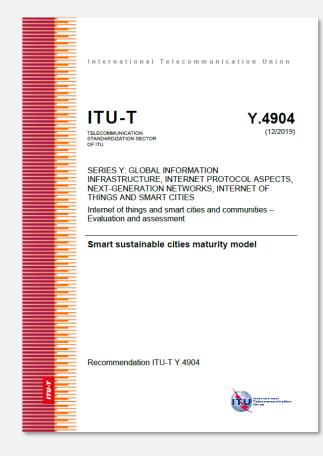
The Collection Methodology document provides cities and communities with a methodology on how to collect the data or information linked to the U4SSC KPIs. Cities and communities are encouraged to periodically check their performances against the recommended indicators listed in Recommendation ITU-T Y.4903/L.1603 and the Collection Methodology document in order to improve their performance.







Smart Sustainable City Strategy Planning

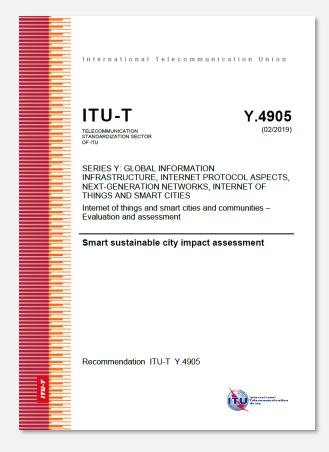


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## Smart Sustainable City Strategy Planning Phase 4: Management plan

Accountability through impact assessment Social SSC impact assessment types **Economic** Environmental Y.4905(19)\_F01

Smart sustainable city impact assessment types

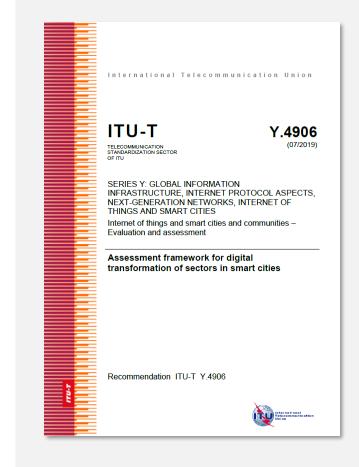




## Smart Sustainable City Strategy Planning Phase 4: Management plan

Accountability through sector assessment

Method to determine th	e objects to be assessed			
City's view	Sector's view	]		
Strategic consistency	Implementation feasibility			
Potential spillover	Expected effects			
Catalogue of sectors to be assessed     Sample organizations in each sector to be assessed				
·		digital		
ligital transformation progress	transformation			
Continuous i	mprovement			
Guidance on the sectors' digital transformation assessment         Data collection       Data calculation         Data collection       Data calculation				
	City's view Strategic consistency Potential spillover • Catalogue of sect • Sample organizations in Assessment indicator system of igital transformation progress ranged for formation  Timplement: digital transformation Continuous i Continuous i	Strategic consistency       Implementation feasibility         Potential spillover       Expected effects         • Catalogue of sectors to be assessed       • Sample organizations in each sector to be assessed         • Sample organizations in each sectors' digital transformation       Assessment of sectors' digital transformation         Inglementation of formation       Implementation of digital transformation         Consequences by digital transformation       Consequences by digital transformation         Continuous improvement       Continuous improvement		



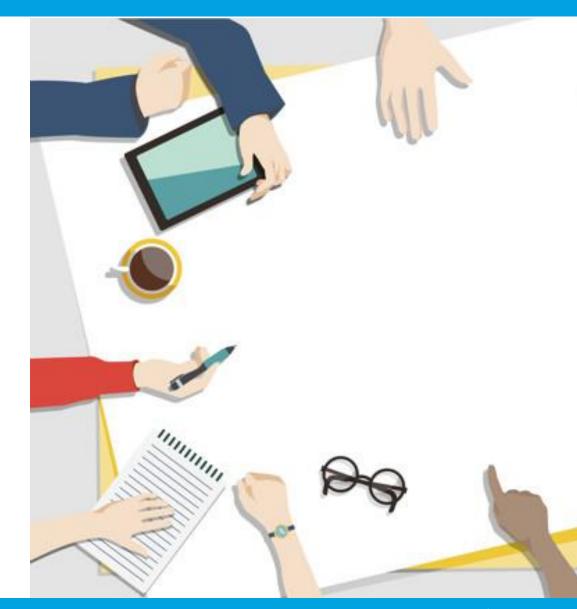
Overview of the assessment framework for digital transformation of sectors



#### **Tool #3**



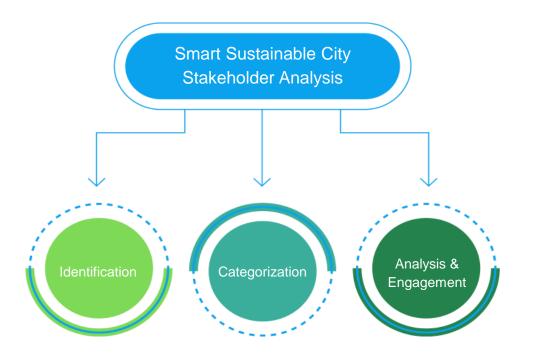
# **Engaging Stakeholders**

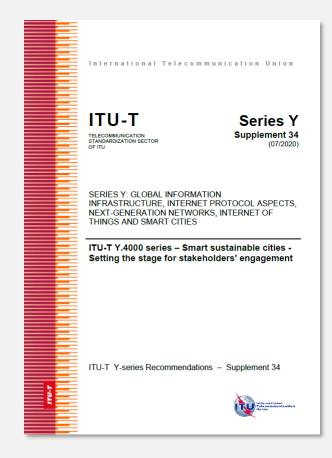




#### Setting the Stage for Stakeholder Engagement

Full smart sustainable city stakeholder analysis process:





ITU-T Series Y Supplement 34: 'Setting the stage for stakeholder engagement'



#### Setting the Stage for Stakeholder Engagement Step 1: Identification

Stakeholder selection questions:

Questions	List of Partners/Stakeholders
Who should/could be involved?	
Who might benefit?	
Who might be negatively affected?	
Who should be included because of their relevant formal position?	
Who should be included because they have control over relevant resources?	
Who has the power to hinder or block implementation?	
Which groups are excluded?	





#### Setting the Stage for Stakeholder Engagement Step 1: Identification

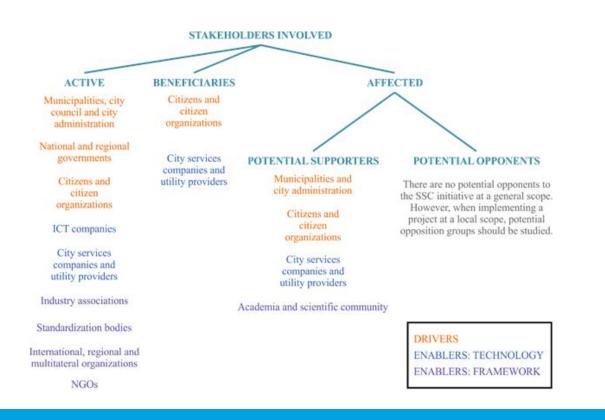


Municipalities, city councils and city administrations	International, regional and multilateral organizations
National and regional governments	Businesses and business associations
City services companies	Academia, research orgs. & specialized bodies
Utility providers	Residents and residents' organizations
ICT companies	Urban planners
NGOs	Standardization bodies



#### Setting the Stage for Stakeholder Engagement Step 2: Categorization

General classification of stakeholders:

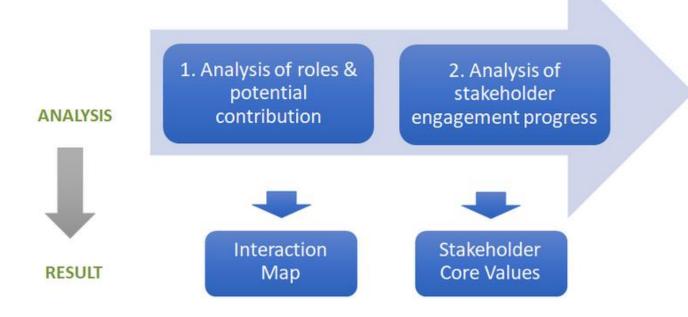






### Setting the Stage for Stakeholder Engagement Step 3: Analysis & Engagement

The components of stakeholder and engagement analysis are:







### Setting the Stage for Stakeholder Engagement Step 3: Analysis & Engagement



Stakeholder analysis:

No	Aspect	Details
1	Scale and Sector	The scale at which the stakeholder operates e.g. local, regional or national scale e.g. public or private sector
2	Aims & Challenges	The key objectives or advantages they seek from their involvement in SSCs
3	Potential	Their knowledge, experience and know-how
4	Constraints	The issues that limit the realization of their role within SSC, including lack of coordination, lack of expertise, limited financial resources, etc.
5	Role and Contributions	The role of the stakeholder with respect to SSC's goals, and the contributions towards their achievement.

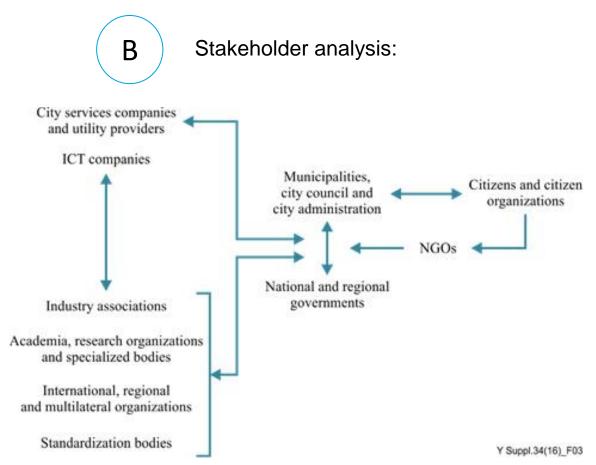
Reiterative Process



Analysis &

Engagement

#### Setting the Stage for Stakeholder Engagement Step 3: Analysis & Engagement







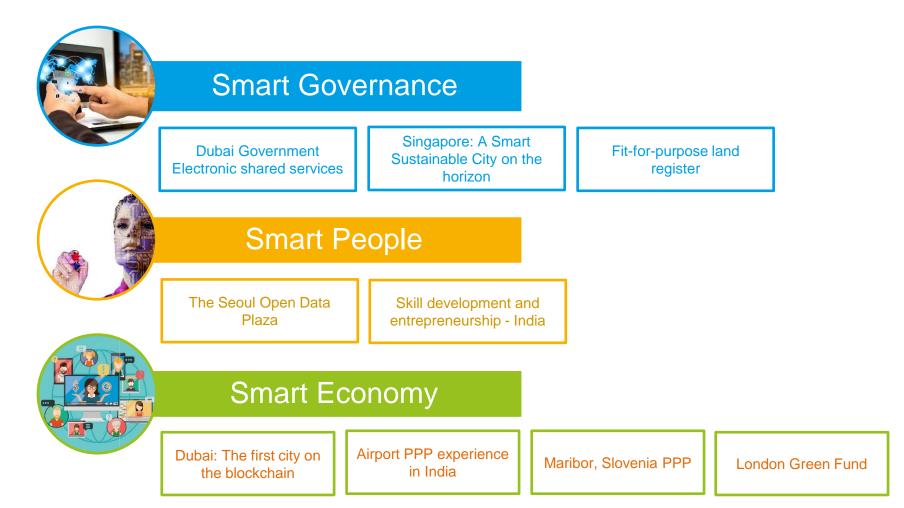
#### Setting the Stage for Stakeholder Engagement Results

A complete smart sustainable city stakeholder analysis table can look like the following example:

Stakeholder	Scale or Sector	Aims and o	challenges	Potential ar	nd constraints	Role in smart sustainable city rollout
Municipalities, city council and administration	Local Public	<ul> <li>Increase efficiency (energy and economy)</li> <li>Increase environmental sustainability</li> <li>Aim to provide residents the best service</li> </ul>	<ul> <li>Shrinking budgets</li> <li>Growing voter demand for transparency and resident participation</li> <li>Pressure by local, national and international agreements &amp; targets for sustainable development</li> </ul>	<ul> <li>Expertise on city management</li> <li>In-charge of city services provision</li> </ul>	<ul> <li>Lack of inter departmental coordination</li> <li>Lack of professionals with smart sustainable city specific knowledge</li> <li>Budget allocation constraints</li> </ul>	<ul> <li>Strong driver of SSC</li> <li>Promote smart sustainable city initiatives and decide the roadmap to follow and specific solutions to be implemented</li> <li>Engage residents and communicate benefits of SSC</li> <li>Monitor city services; define KPIs &amp; evaluate</li> <li>Promote smart sustainable city services provision and integrated management</li> </ul>



#### **Innovation and Participation in Cities**



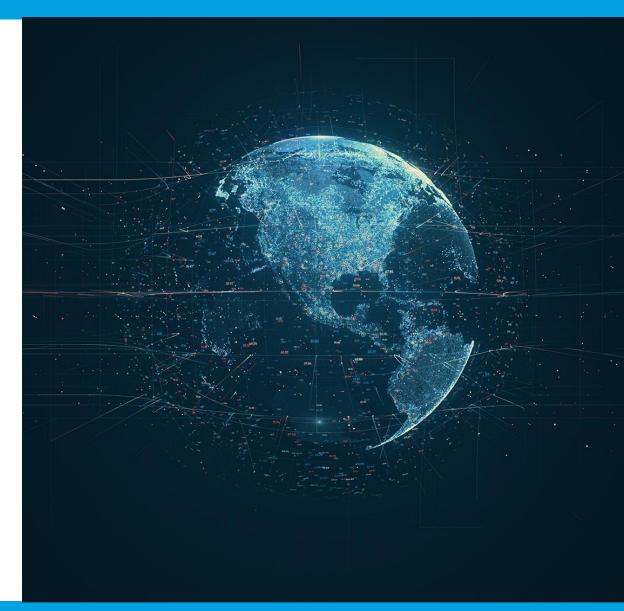




#### **Tool #4**



## Local Online Service Index (LOSI)





# United Nations E-Government Survey Local Online Service Index (LOSI)

Municipalities are closer to people more than national/federal government as it deals with daily activities of citizens Assessment initiatives designed toward assessing e-Government development at the local level still seem to be at an early stage

Help cities measure their progress, what they have achieved, and where they stand now against a set of clearly defined criteria

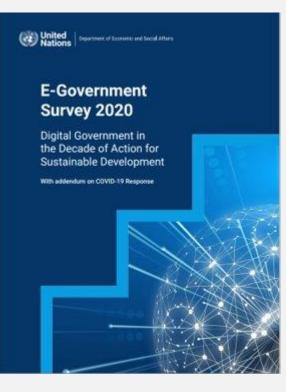
Shape wide agreement toward consider LOSI as a common and acceptable base ground that allows accurate international comparisons among cities as well as easing the process of cities comparability over time.

A motivation for cities to improve and further develop online public services and also a healthy competition among cities themselves.



# E-Government Survey Local Online Service Index (LOSI)

Launched in 2018, the Local Online Service Index (LOSI) represents the latest major addition to the E-Government Survey methodology. The UN DESA-developed LOSI assessment captures the state of the development of e-government service provision at the city level across the United Nations Member States.





# Local Online Service Index (LOSI) Methodology

The Local Online Service Index (LOSI) is composed of 86 indicators in 2022 edition

Each indicator is a binary question in the Local Government Online Service Questionnaire (LSQ) – similar to Online Service Index (OSI) at national level

Each city portal was assessed by at least two researchers who conducted the assessment in the country's national language the city belongs to



Indicators fall in 5 Categories



# What is LOSI?

The Local Online Service Index (LOSI) was initiated in 2018 as a pilot study assessing portals in 40 cities and seeks to continue to provide evidence-based data to contribute to the assessment of progress made in local e-government development.

The latest 2022 edition with 86 indicators looked at the most populous city in each of the 193 UN member states. The indicators fall in 5 criteria: institutional framework (8), content (25), services (18), participation (17), and technical (18).





## Local Government Questionnaire (LGQ)

United Nations E-Government Survey - Local Government Questionnaire (LGQ)	Phone:
	If yes, is the city/municipality CIO linked to any extent to the national CIO? (by mandate or othe type of relation)
Local Government Questionnaire (LGQ) for the United Nations E-Government Survey	II. Legal Framework Is there any <b>legislation</b> on <b>digital governments</b> such as law on access to information or data privacy at the national and/or local levels? □Yes □No
The objective of this questionnaire is to gather information from local government/sitrum/palities in preparation for the questioning United Nations E-Government Survey. For the first time in 2018, the United Nations E-Government Survey assessed 40 pilot cities. The 2020 Survey featured 100 other/local government websites assessment and the upcoming survey of 2022 has increased to 399 other. The responses will be shared entine in the UNE-Government Survey accessed as when other where requested. For any question about this questionnaire, private contact biological parts.	a. If Yes, how do you adopt these in your organization?
City name	<ol> <li>Does your city/municipality have a Chief Information Officer (CIO)<sup>5</sup> to manage its e-Government programs/strategies?</li> </ol>
Institutional Framework	Name:
<ol> <li>What is the official e-Government' portal of the city/municipality? If more than one exists,</li> </ol>	Title:
please list all.	Organization:
Please provide URLs for portals providing specific services/features     a. E-services <sup>1</sup> :     b. E-participation <sup>1</sup> :     c. Open government data <sup>4</sup> :	<sup>11</sup> - proventment or digital government will be used interchangeably in this Survey and is defined as delivering services online and empaging propile by saling information and Communication Technologies (ICTs). <sup>2</sup> A specific portal where you can see the last of all online revices unaliable to the public. <sup>3</sup> E-Participation is about feature (it is of all online revices unaliable to the public. <sup>4</sup> B-Participation is about feature (it is of all online revices unaliable to the public. <sup>5</sup> Deer Government Outs allows citizens to reoritor data streams and therein (improves the accountability and transparency of government. COD also allows citizens to be aware of important issues and to be part of the decision-making process to address policy.
d. Public procurement:	laters (e-participation).



## Local Government Questionnaire (LGQ)

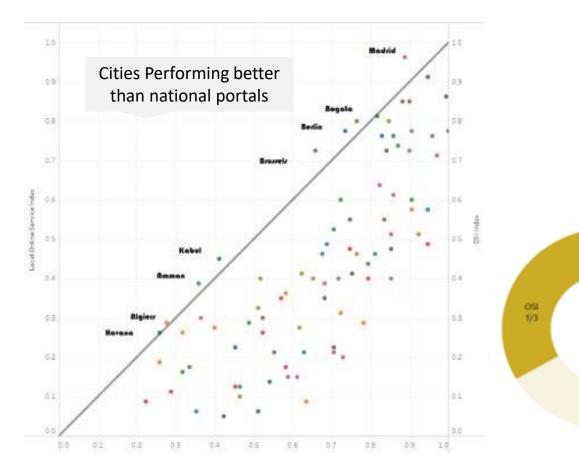


Table 4.1 LOSI and OSI levels: convergence and divergence. (Number and percentage of cities)

	Very high OSI 2020	High OSI 2020	Middle 051 2020	Low OSI 2020
Very high LOSI 2020	13 (15.1%)	1 (1.2%)	None	None
High LOSI 2020	12 (13.9%)	4 (4.7%)	None	None
Middle LOSI 2020	9 (10.5%)	16 (18.6%)	8 (9.3%)	None
Low LOSI 2020	None	11 (12.8%)	12 (13.9%)	None

HCI 1/3

EGDI

TII 1/3 LOSI vs. OSI

In 2020, around 70 percent of the cities surveyed have LOSI levels that are lower than the OSI levels for the countries in which they are located



## **Further Information and Getting Involved**

For more information about previous LOSI studies including detailed methodology, evaluation results, challenges, opportunities and recommendation for local egovernance, etc., **please visit the City Data Page on UN E-Government Knowledgebase at:** 

https://publicadministration.un.org/egovkb/ en-us/Data/City UN DESA welcomes collaboration in applying LOSI methodology in different countries. Interested parties are encouraged to visit the LOSI Pilots Page on UN E-Government Knowledgebase at https://publicadministration.un.org/egov kb/en-us/About/LOSI-PILOTS or send an email at dpidg@un.org.



#### Tool #5



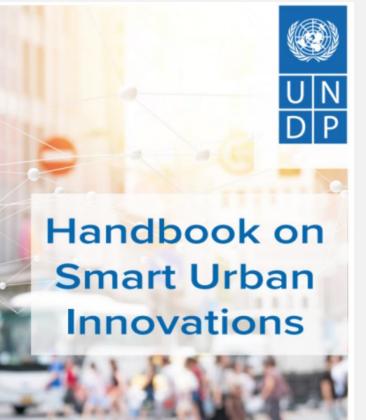
# Case Studies & Handbook





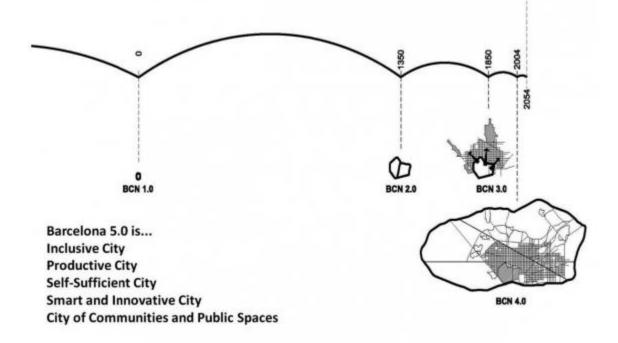
# Smart Sustainable City Strategy Handbook

Handbook on Smart Urban Innovation





#### **Digital Transformation Strategies** Case Study: Barcelona, Spain



(Image Source)





#### **Digital Transformation Strategies** Case Study: Vienna, Austria

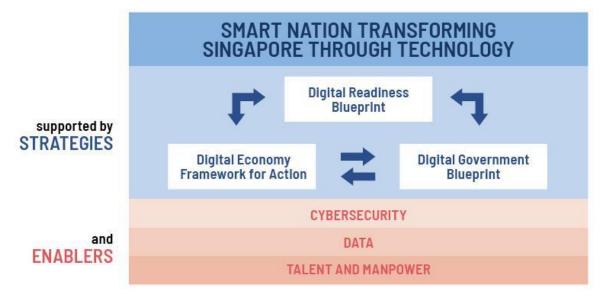






#### **Digital Transformation Strategies** Case Study: Singapore



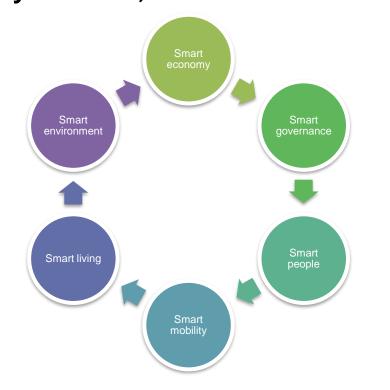


(Image Source)





#### **Digital Transformation Strategies** Case Study: Jakarta, Indonesia.



Six components of the Jakarta Smart City framework





#### **Digital Transformation Strategies** Case Study: Kampala Smart City — Uganda



Image Source

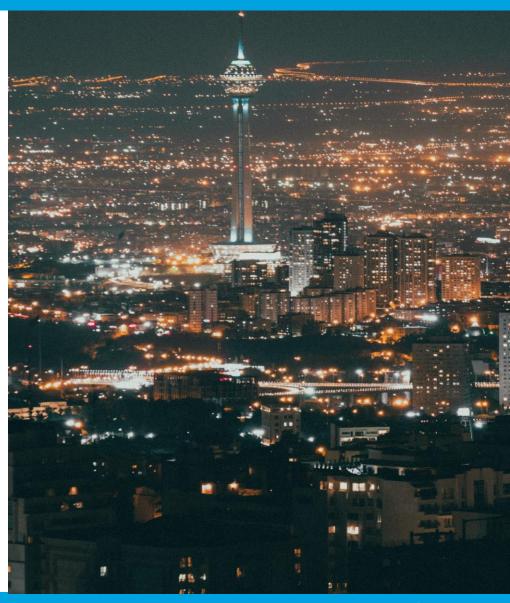






#### **Digital Transformation Strategies** Case Study: Smart Tehran Program — Iran







#### **Digital Transformation Strategies** Case Study: Medellin, Colombia

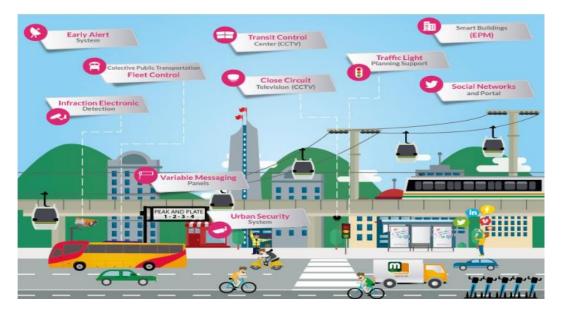


Image Source





## Module 2 – Developing a Digital Transformation Strategy for Cities and Communities

Thank you for completing this Module of the ITU Toolkit on Digital Transformation for People-Oriented Cities and Communities.

We hope that you found the information in this Module useful toward planning and initiating your city or community's digital transformation process.

Please review the resources highlighted within for further details, including valuable real-world use cases, on how to get started on – and optimize from the onset – your city or community's digital transformation journey.



<u>Toolkit on</u> <u>Digital Transformation for</u> <u>People-Oriented Cities</u> <u>and Communities</u>



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