



**KGID  
2025**

**Green Growth:  
The Path to  
Sustainable Jobs**

# Session: Urban-Livable Cities Building Inclusive and Resilient Cities through Smart Development and Urban Regeneration

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# Context & Background

## Urbanization Trend

By 2050, 6.7B people will live in cities

## Cities & Services

Provide  Water |  Energy |  Transport  
|  Health |  Education |  Housing

## Digital Opportunity




Many cities are eager to include digital technologies to improve efficiency in the service delivery

## Global Smart City Partnership Program (GSCP)

Support task teams to incorporate digital solutions into our projects.

 65+ TA engagements in 44 countries  
 Diagnostics are tailored, but artisanal and hard to scale

## Challenges

 Months-long assessments  
 Different frameworks  
 Existing's tools are siloed & static

# Digital Ecosystem Assessment Tool for Smart and Inclusive Cities

**The Toolkit is designed to support task teams and cities to produce a rapid and structured assessment of a city's digital maturity across multiple sectors powered by Gen AI**

## Purpose




- Produce, rapid, structured assessment
- Identify gaps & investments

## Why it Matters

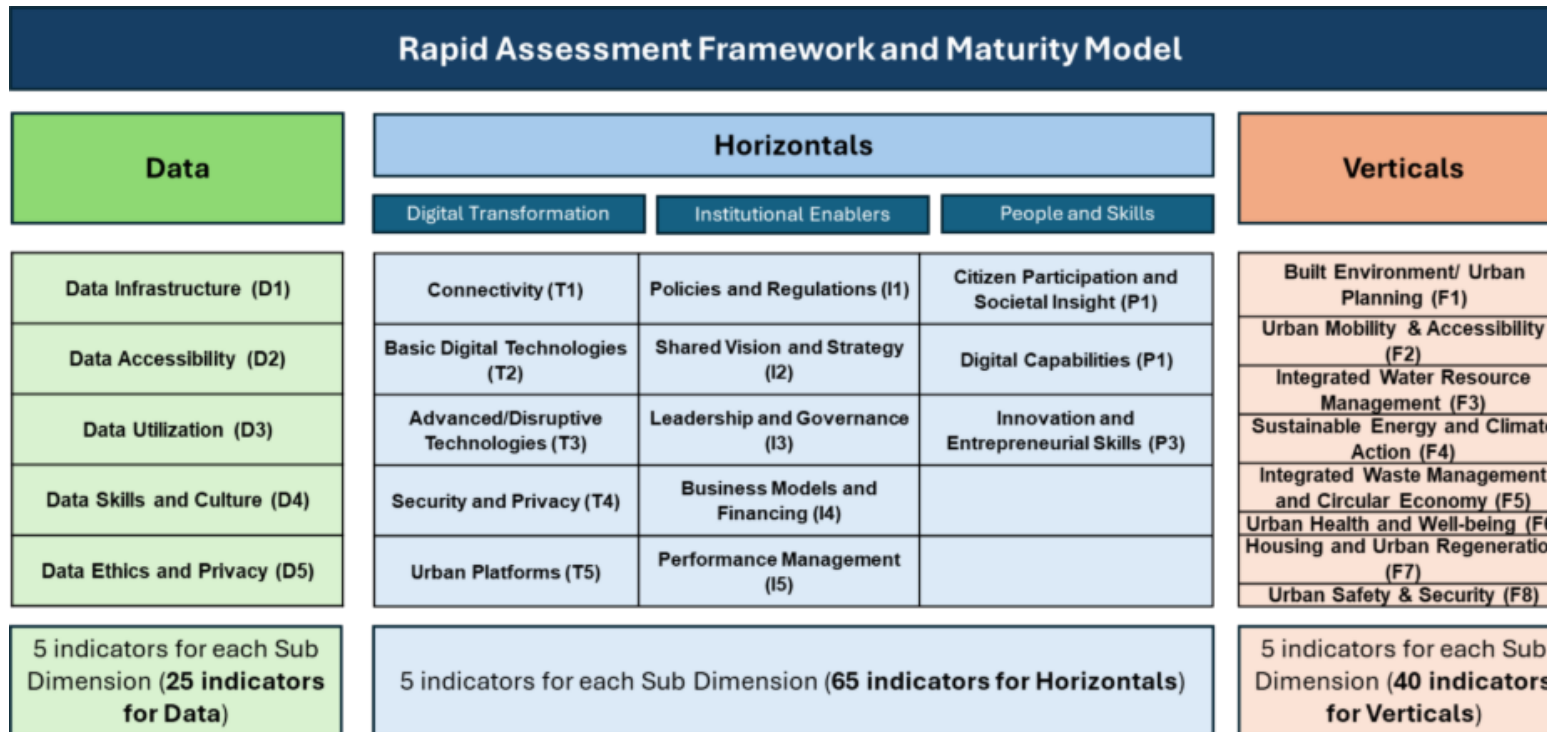
- Allow cities to identify opportunities and enable teams to respond more quickly and in a systematic way.

## How it Works

- We (Urban +DT + ITS) developed a framework to capture 130 indicators around 3 assessment areas
- Using Gen to AI to gather data

-  Produce a diagnostic report on a City's Digital Maturity Across Multiple Sectors
-  Produce visualizations & benchmarking
-  Produce tailored diagnostics & recommendations

# Maturity Assessment Framework

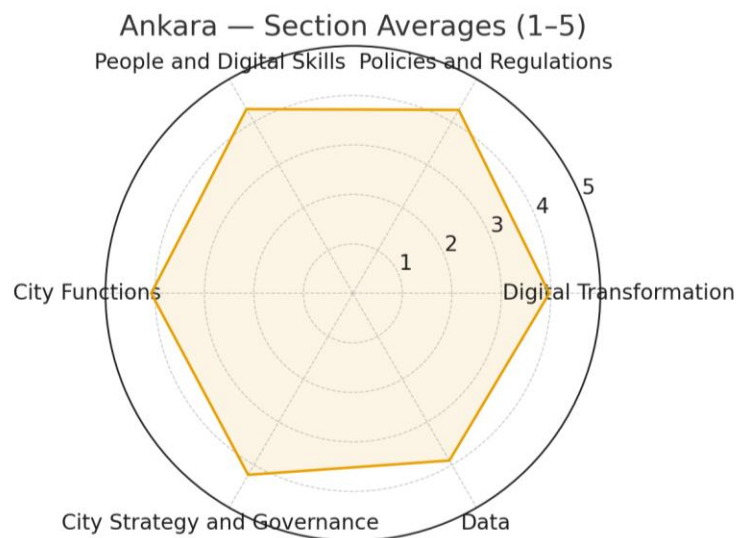


The framework assess the following areas:

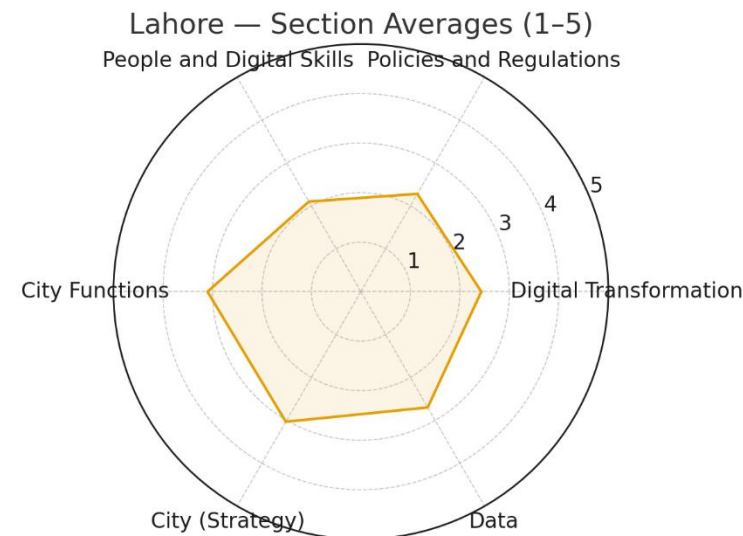
- **Data** (D1–D5), which captures core digital infrastructure and governance capacities;
- **Horizontals**, which span cross-cutting enablers including Digital Transformation (T1–T5), Institutional Enablers (I1–I5), and People and Skills (P1–P3);
- **Verticals** (F1–F8), which focus on sectoral applications such as mobility, energy, waste, and safety.

Each sub-dimension (e.g., “Connectivity,” “Urban Safety & Security,” or “Data Ethics and Privacy”) is evaluated using a structured set of five indicators

# Maturity Assessments Examples

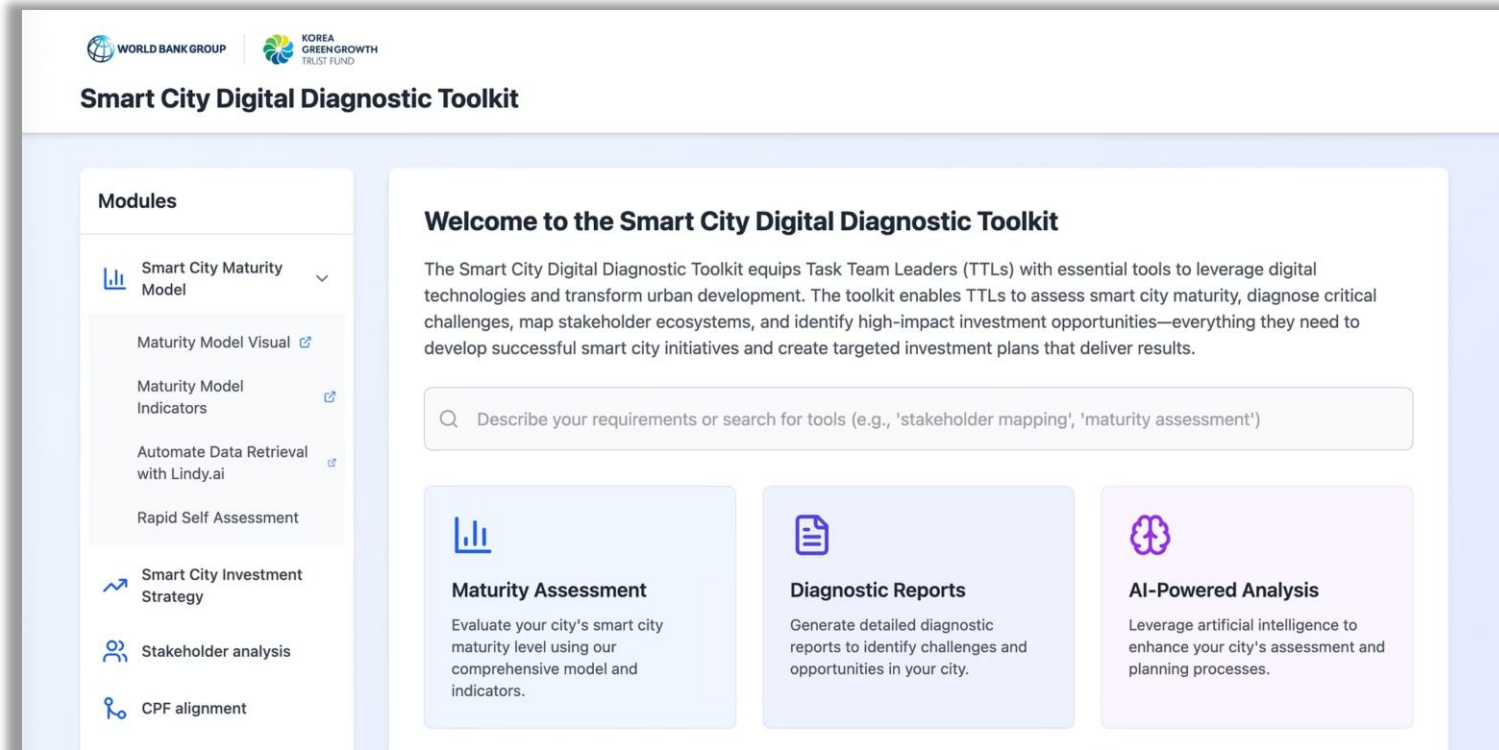


**Overall maturity: 4.1 out of 5.** The city shows high capability across most sections, with stronger performance in institutional enablers and service operations. Data management and policy consistency are comparatively advanced, which supports scale and reuse.



**Overall maturity: 2.6 out of 5.** City Functions and City Strategy and Governance are strongest. People and Digital Skills and Policies and Regulations are lowest. Data and Digital Transformation sit in the middle.



# Digital Ecosystem Assessment Tool for Smart and Inclusive Cities



- Produces a stakeholder mapping report to identify tools to identify key actors across public, private, and civil society domains.
- Produces a report of investment landscape of the city.
- Includes a Field questionnaire for validation.
- Includes a Gen AI- Prompt Library
- GSCP team partnered with ITS and included spatial intelligence resources.



# Results and What's next?

-  This is work in progress- Results are still emerging
-  We started to test the toolkit in Johannesburg, South Africa.
- **Key Findings:**
  - **Digital Transformation** emerges as the highest-scoring domain (1.63), primarily driven by connectivity infrastructure
  - **People and Digital Skills** represents the lowest-scoring domain (1.30), indicating significant capacity gaps
  - 69% of all indicators scored at the lowest maturity level (1)
  - No indicators achieved the highest maturity level (5)
  - **Connectivity** within Digital Transformation is the strongest category (3.00), suggesting that foundational ICT infrastructure exists
  - Five categories scored at the minimum maturity level (1.00), including Security & Privacy, Urban Platforms, Digital Capabilities, Innovation Skills, and Water Resource Management

