



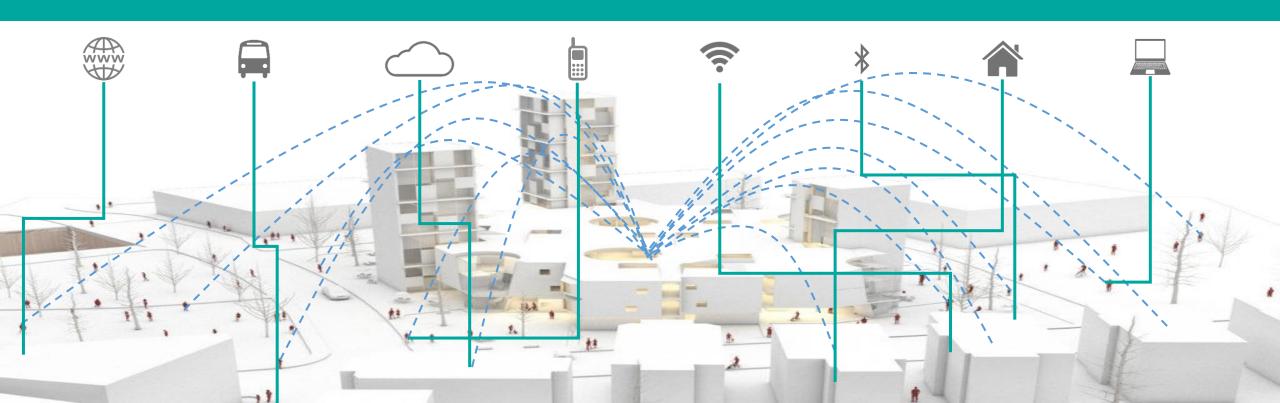




### **Data Maturity Assessment Framework Cycle 2.0**

**City Performance & Recommendations** 

City: New Town Kolkata | State: West Bengal



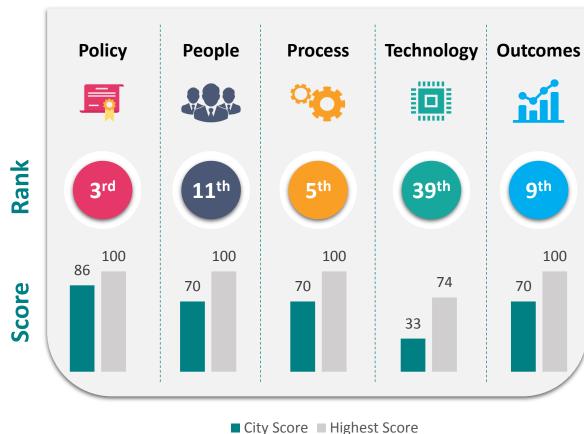
### **Overall Performance**



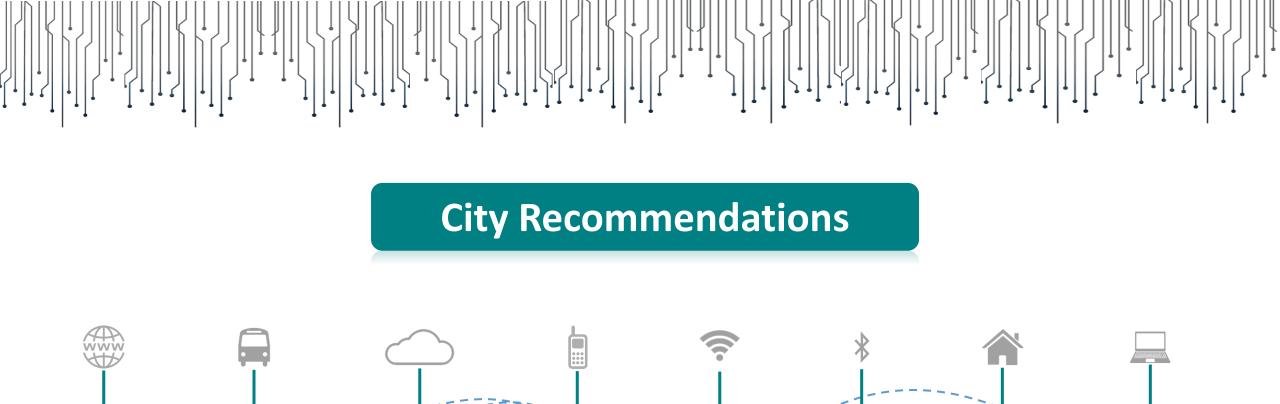
### **Certification Level**

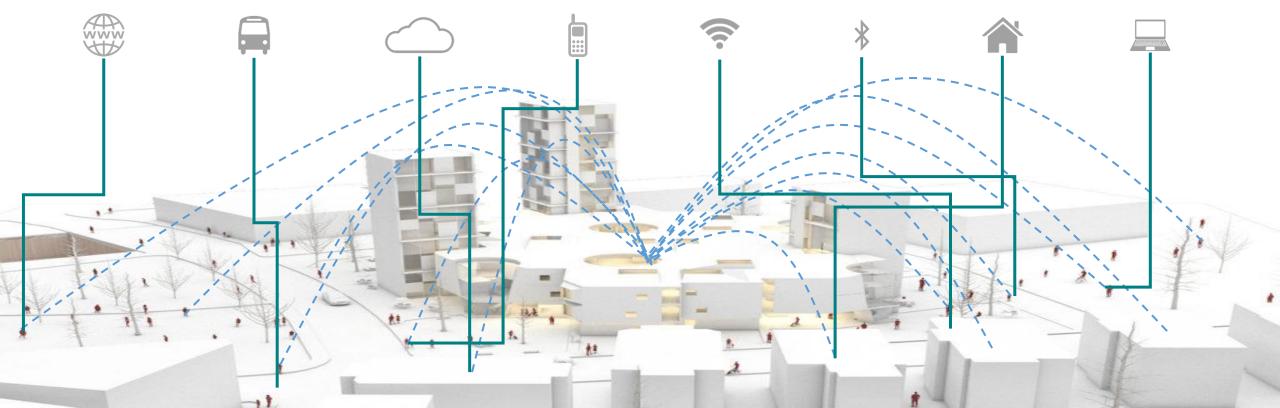


### **Component-wise Performance**



City Engagement Score (out of 100): 80







# Score 86 100

Score: 27/30

Score: 29/40

### **Indicator 1.a: Approval of City Data Policy**

Since your city has already approved a data policy, city may like to now focus on effective implementation of data initiatives by utilising the various processes mentioned in the Policy. Further, city may look to revise the policy document periodically basis any regulatory or technology updates and include other components of relevance such as GIS mapping etc.

### **Indicator 1.b: City Data Policy Components**

Further to the NDSAP policy, Smart Cities Mission, MoHUA has published a reference guide available on the Smart Cities Open Data Portal that may help the city understand the elements that need to be included to form a robust data policy. Your city may refer to this guide and modify/append the content to suit the current and future needs of the city.

### **Indicator 1.c & 1.d: Budget for data-related initiatives**

Your city has already allocated dedicated budget for data activities. Your city is advised to ensure that the budget is rightly utilized to perform data-related activities and also continue to do the same in the coming years in order to ensure strengthening of the data infrastructure in the city. Your city may like to check if the allocated budget covers the following data activities (non-exhaustive), and include more if required:

Salaries for data team including but not limited to CDO, data coordinators, data specialists, data analysts, database administrator, etc.

Score: 30/30

- Analytics software for data analysis.
- Setup of surveillance systems, ICCC, etc. (only software) that enables improved and accurate data collection and analysis.
- Capacity Building sessions/regional workshops/courses/certifications for upskilling of data team.
- Expenses for organizing data hackathons / data challenges, including prize money.

It is recommended that the city allocates budget for the data activities. This budget may be included as a sub line item under A&OE expenses or IT expenses of the smart city SPV's overall budget, or the Municipal IT budget.





Score: 20/20

Score: 10/20

### **Indicator 2.a: City Data Officer (CDO)**

Your city may look to appoint a full-time CDO, either in Municipal Corporation or in Smart City SPV, to lead and operationalize data-related activities as per the Job Description circulated in the HR guidelines for Smart Cities SPV. Appointment of a full-time CDO will help in effective management of data-related activities in the city. It will also ensure continuity of city's progress towards becoming 'DataSmart'.

### **Indicator 2.b: Appointment of Data Coordinators**

Your city has already appointed data coordinators in all departments. The city is now recommended to ensure they are effectively leveraged for smooth operations and implementation of the DataSmart Cities Strategy and City Data Policy.

#### **Indicator 2.c: Data Team**

Your city is advised to utilize appointed resources to conduct focused activities such as preparing data visualizations, conducting data analysis, developing data stories, preparing data architectures, cleansing data for uploading on data portals, building GIS layers, ensuring compliance of city data policy in accordance with nation / state's relevant policies and regulations, conducting capacity building sessions, managing stakeholder outreach programs etc. Further, city may consider appointing more resources as the city's data readiness and maturity keeps improving which include but are not limited to

- Data Policy & Regulatory expert
- Capacity Building & Stakeholders' Outreach expert
- Survey Lead
- Data Scientist

- Statistician
- Data Architecture expert
- Open Data expert
- Data Engineer

Score: 10/30

- Data Analyst
- Web developer
- GIS expert





Score: 15/15

## Indicator 2.d: Capacity Building – Ministry Initiative

Your city's data team is advised to attend all trainings organized by the Ministry on important topics such as Smart Cities Open Data Portal, Hackathons, Alliances, GMIS, SmartCode, City Innovation Challenge (CiX), IUDX, etc. to educate and upskill themselves and therefore translate the learnings into active implementation within your city.

Score: 15/15

### Indicator 2.e: Capacity Building – City Initiative

CDO, along with your data team, is advised to identify the focus areas that will help operationalize data culture in the city. Capacity building may include departmental / city workshops conducted to organise activities for implementation of DataSmart Cities Strategy or to upskill the data team by conducting data-related certification courses or sessions/workshops conducted by external experts on topics related to data such as data privacy, policy formulation, analysing geospatial data, etc. These activities will help your city in leveraging the latest tools and technologies for making the city DataSmart.







Score: 20/20

### **Indicator 3.a: City Data Alliances**

Your city has already formed alliances for some of the data-related work. Your city may like to expand these alliances or form new ones in order to solve specific city-related issues. Your city may engage with more stakeholders from local colleges & universities, industry bodies, start-ups and civil society organizations and partner with them for data sharing, or implementation support, or other activities. Alliance may be with a single organisation or multiple organisations at once. The Alliance should clearly specify the partners involved, their roles and responsibilities (across Government, Industry, Academia & Community), the purpose and scope of the partnership, time period, the Mode of execution (informal, MoU etc.) and the expected outcomes intended to be achieved via this partnership. City may also like to think of innovative ways to incentivize and attract more partners.

Score: 10/30

## Indicator 3.b: Data Hackathons/ Data Challenges

Your city is advised to leverage Hackathons as a means to crowdsource solutions to the complex urban challenges. In order to drive innovation, your city is advised to hold Hackathons/Innovation competitions. First step is to identify the correct problem statement and provide relevant data to the participants to drive new insights. CDO can also set up multi -disciplinary evaluation committee and mentors to assist participants during solution design stage. Shortlisted solutions may be extended support in next stage to test the solution on ground and enable implementation in the city. Further, Smart Cities Mission, MoHUA has published a reference guide available on the Smart Cities Open Data Portal that may help the city understand the various aspects of conducting a hackathon.







Score: 10/20

### Indicator 3.c: Solving urban challenges using data

In addition to the currently identified challenges, your city is advised to work with various internal departments as well as other urban stakeholders in the city to identify other sectoral issues / challenges that may be tackled using data. The challenge should be clearly identified along with the relevant datasets. Insights derived from the datasets should be analysed.

Score: 30/30

### **Indicator 3.d: Analytics capability**

Your city is advised to analyse the current areas where analytics is being used. Based on this, the city may like to identify other areas where similar analytics or more advanced analytics may be utilized. Your city may be like to explore various types of analytics:

- Descriptive (Tells you what happened in the past)
- Diagnostic (Helps you understand why something happened in the past)
- Predictive (predicts what is most likely to happen in the future)
- Prescriptive (Analytics recommends actions you can take to affect those outcomes)







Score: 15/30

#### Indicator 4.a: Sensors for data collection

As part of Smart City initiatives, city may be deploying sensors and other devices. Your city may consider utilising the data collected from the Field Sensors and Devices which may be in the forms mentioned below to derive actionable insights:

- Hierarchical files (JSON, XML, YAML, etc.)
- Real-time stream
- Objects
- Videos
- **Images**
- **Locational Data**

#### Indicator 4.b: Number of datasets on SCODP

Your city has initiated its journey towards publishing datasets on the Smart Cities Open Data Portal. CDO is advised to further study the dataset templates (75+) present on the Smart Cities Open Data Portal and publish more datasets. CDO is advised to engage with various department heads and identify datasets that may be relevant, open and sharable. City is advised to ensure the datasets are of utmost quality and relevant for the users.

### **Indicator 4.c: Schedule for Updating Datasets on SCODP**

Score: 0/30

It is of utmost importance that the datasets published on SCODP stays relevant and updated for improved and sustained usage. Therefore, your city is advised to update all your datasets on a periodic basis (monthly, quarterly, biannually, annually) by maintaining a data sets' updating schedule. Datasets that currently exist on the Smart Cities Open Data Portal may also be revised and updated as per schedule.

Score: 10/10





Score: 10/20

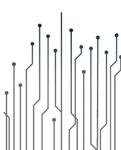
### **Indicator 4.d: Number of APIs on SCODP**

In addition to static datasets in csv formats, your city is advised to also start publishing data through web services. CDO, with the help of data coordinators, may look into various departments' MIS and other data systems that showcase real-time data and follow SCODP procedures / processes to publish datasets in the form of APIs.

Score: 0/10

### **Indicator 4.e: Spatial Readiness**

Your city is advised to utilize the existing GIS layers to draw insights and include these insights for better urban planning. Further, your city is advised to look at more arenas where geospatial data could be utilized. Once the layers are defined, your city may like to ensure the quality of data is maintained and there are no location coordinates or areas falling outside the specified boundaries.





# Score 70 100

Score: 30/30

Score: 20/20

### **Indicator 5.a: Data stories/blogs**

Your city is advised to identify sector-specific problem statements being faced by a particular department and build solutions through efficient and effective use of city data. Your city is advised to document their experiences and share with fellow cities insights about their data initiatives. This will also help them showcase their improvement on a National platform. City to also peruse the various data stories available on smartcities.data.gov.in which may be replicable in certain cases.

Score: 0/30

Score: 20/20

### **Indicator 5.c: Development of applications**

Your city is advised to further develop portals and applications based on the various smart initiatives being undertaken in the city. This will help the city not only collect relevant data but analyse it to generate insights for improving service delivery, operations and citizen engagement.

### Indicator 5.b: Data-related use cases

Your city understands the need to create and define data-related use cases to solve critical urban problems and has initiated addressing these issues with the help of data-related solutions. Your city needs to identify more areas where this data-driven problem-solving approach can be applied to solve an urban challenge. Your city may clearly specify the identified problem, detail the use case under consideration, identify the datasets that may be used and envision the outcome/ impact that may be generated with the implementation of this use case.

#### **Indicator 5.d: Alerts & Notifications**

From the various City services targeted towards citizens, your city is advised to analyse other services where timely notifications may be beneficial for the citizens. Your city may then consider using various channels such as SMS, Variable Message Displays (VMDs), Public Address Systems (PAS), etc. to disseminate information to public.



