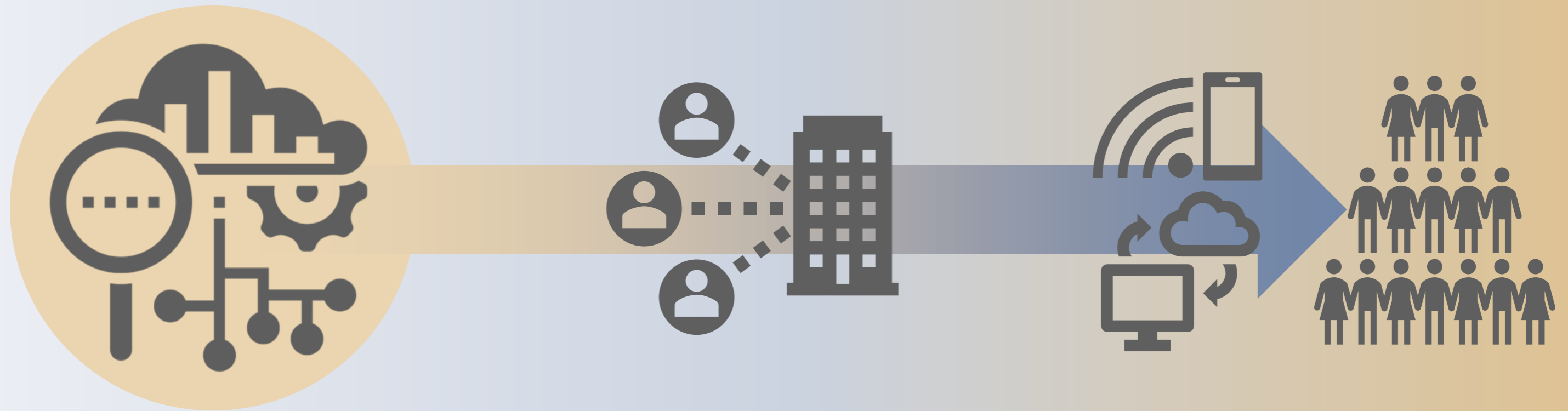


Assessing the maturity of selected Urban Local Bodies (ULBs) in online service delivery by applying Local Online Service Index (LOSI) methodology in India



1 Local Governance in India

2 Local Online Service Index (LOSI) Assessment

3 LOSI Results & Analysis

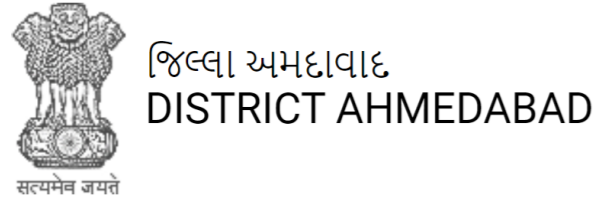
4 Inferences from analysis

5 Conclusion & Challenges faced

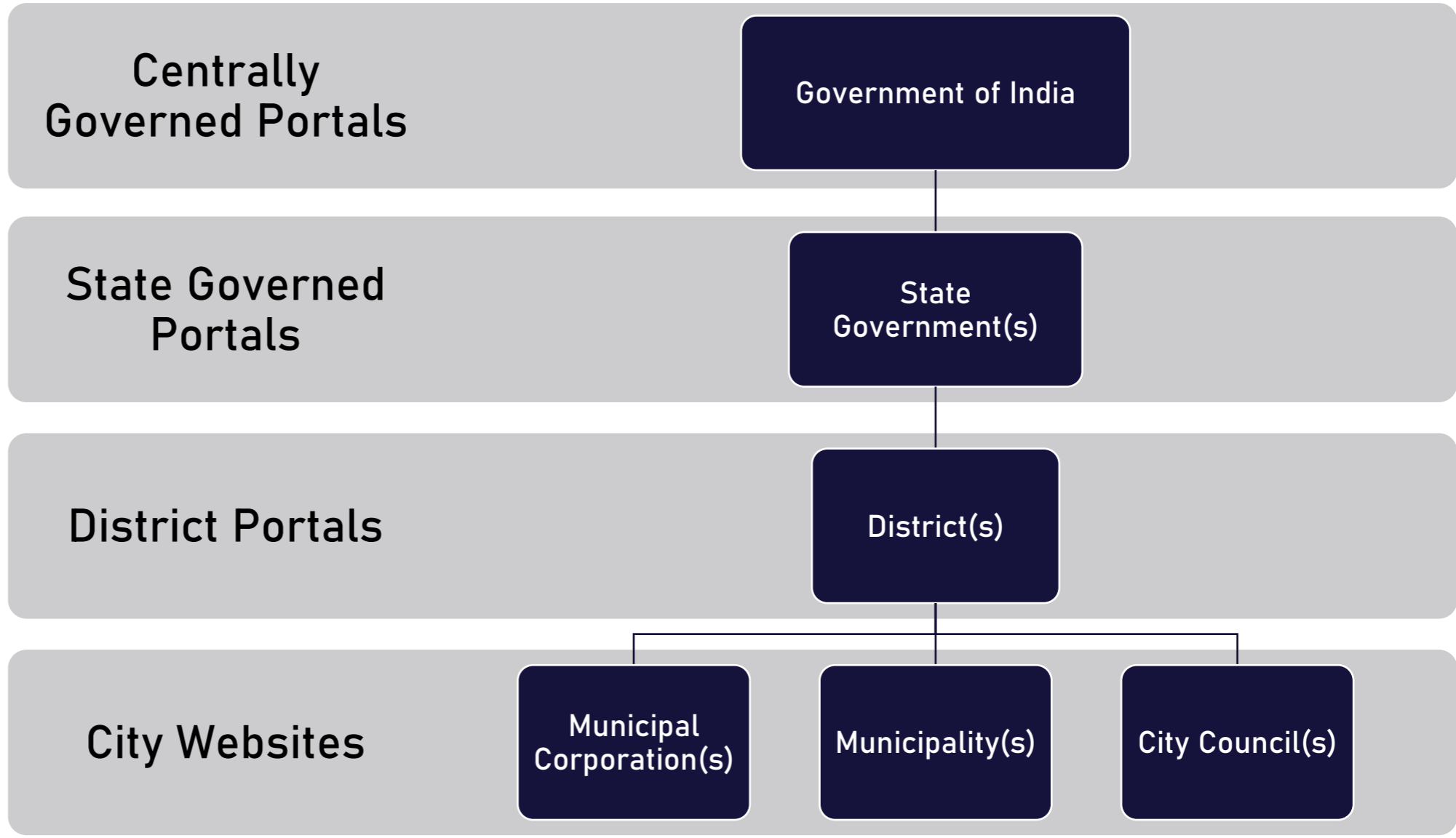
LOCAL GOVERNANCE IN INDIA

LOCAL GOVERNANCE IN INDIA

ADMINISTRATIVE PORTALS AT DIFFERENT TIER OF ADMINISTRATION



Ahmedabad Municipal Corporation (AMC)



NEED FOR ASSESSMENT

- In India, the country has been assessed on its e-Government development, states have been assessed for their online service delivery, but the assessment of the online service index of the Urban Local Bodies (ULBs) is yet to be done. LOSI helps to do so.

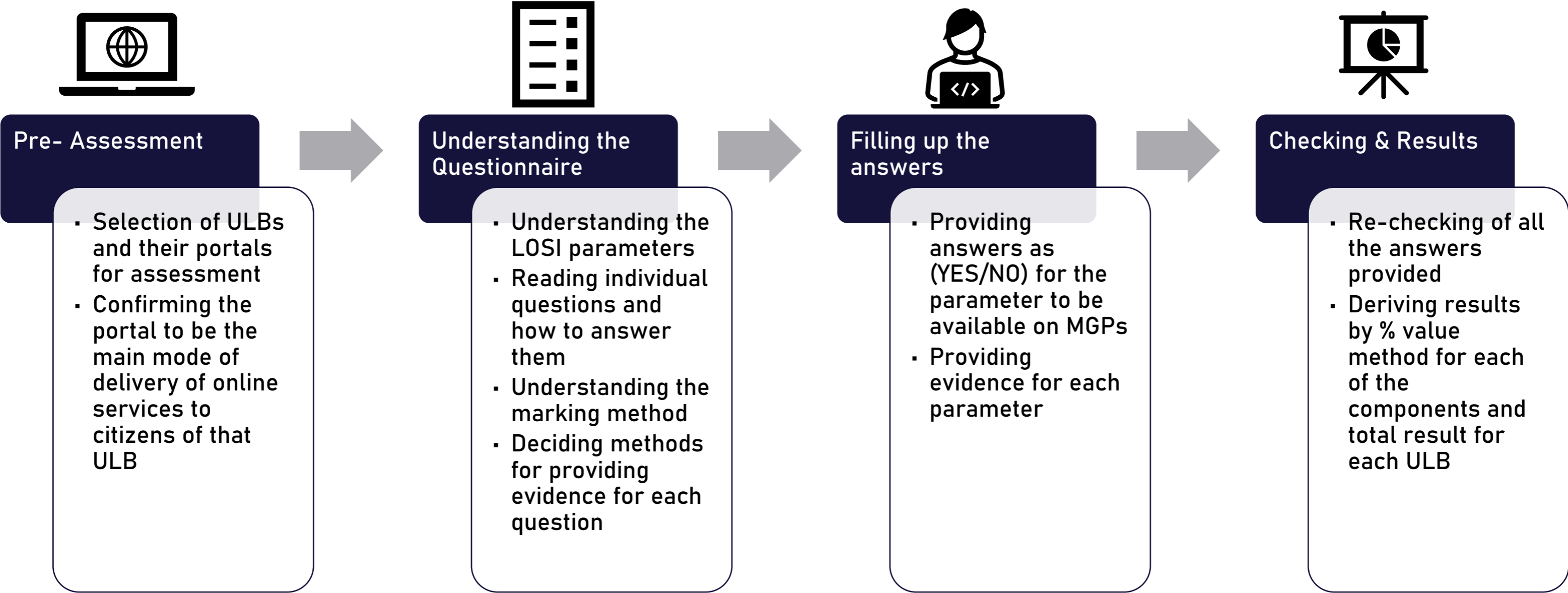
LOSI ASSESSMENT

LOCAL ONLINE SERVICE INDEX (LOSI) METHODOLOGY

PROBLEM STATEMENT

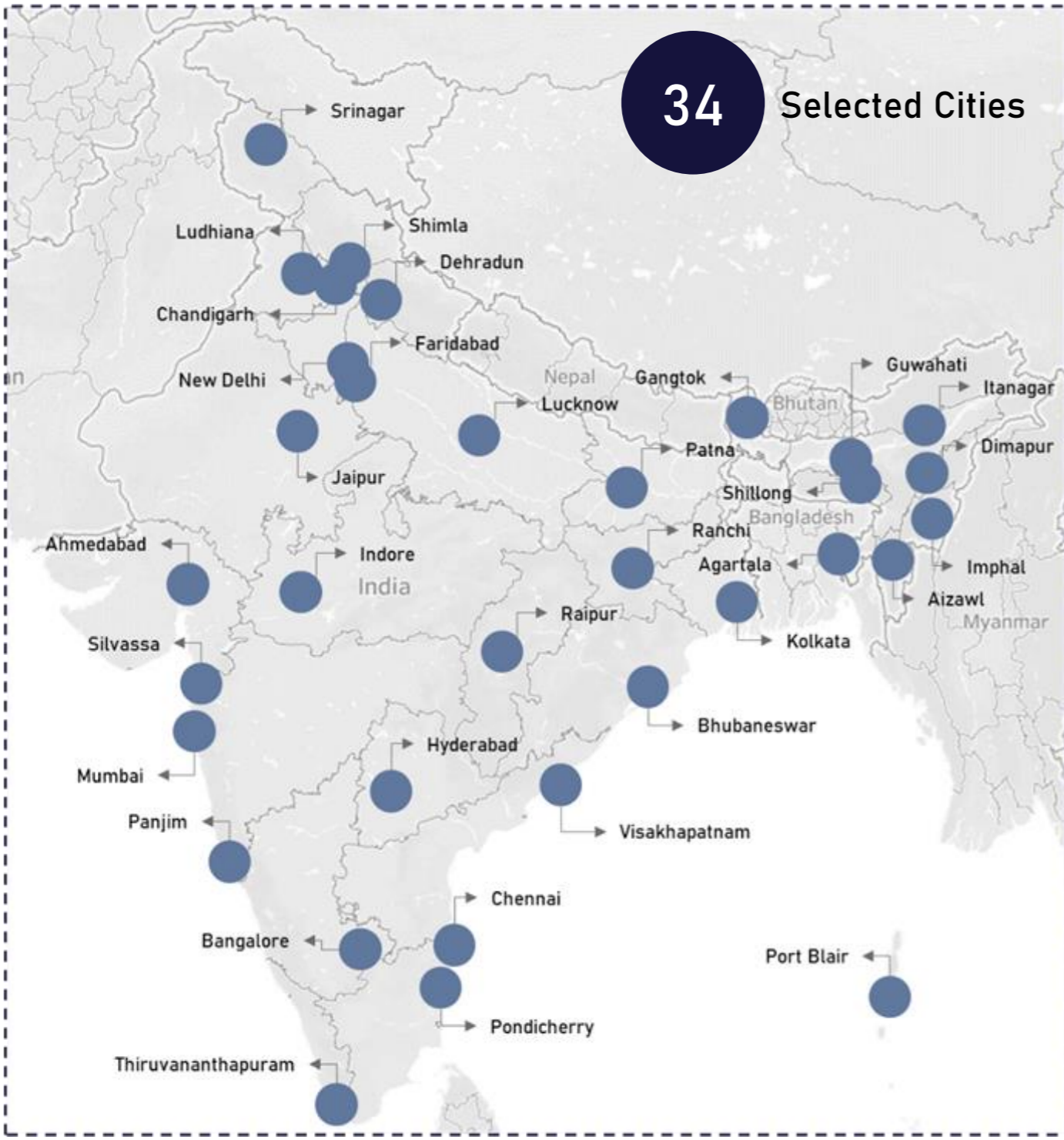
What is the current level of maturity of Indian cities' Municipal Governance Portals (MGPs) in terms of institutional framework, technology, provision of service and information, and features for local participation?

ASSESSMENT PROCESS



SITE SELECTION

SELECTION OF ULBs FOR ASSESSMENT



Selection Criteria

- City with the most population in every state and UTs
- 27 States & 9 Union Territories

Types of Municipal Governance Portals (MGPs)

- Cities have different types of MGPs, hosted on national, state or private data centers
- MGPs are developed by state government agencies or private companies
- 2 cities do not have MGPs – Leh and Andrott

Population Affected

- Total population catered by all these portals is around 17.5% of total urban population of India

Population Assessed	Urban Population of India (2011 Census)
6,59,82,925	37,71,00,000

Diversity of the Study

- Different zones of the country, multiple official languages, range of population and cities identified to become smart cities

LOCAL ONLINE SERVICE INDEX (LOSI)

MARKING SCHEME – LOSI 2022

Scoring Method

Questions

Total 87 indicators

Answering Method

Binary Response

Scoring Method

Percentage Value (%)

87 parameters divided into 5 Components

Content Provision 25

Participation & Engagement 17

Institutional Framework 9

Service Provision 18

Technical Technology 18

Value 1 If the indicator is found in a ULB's website

Value 0 If the indicator is missing from the website

Maturity Level	Range of score	Color
Very High	0.75 to 1.00	NA
High	0.50 to 0.75	Green
Middle	0.25 to 0.50	Yellow
Low	0.00 to 0.25	Red

The total number of points scored by each city (a.k.a. "raw score") is divided by the maximum score of 87 to derive the LOSI value for a given city in the range of 0 to 1.

Note:

- There were some cases where the city portal did not provide certain services since they were provided on the national portal. In such cases, the city portals scored a point only if they provided a link to the national portal.

UNDERSTANDING THE QUESTIONNAIRE

TYPES OF QUESTIONS

RELEVANCE TO INDIAN CONTEXT

TEC

Compliance of Municipal Governance Portal (MGP) with World Wide Web Consortium (W3C) standards

TEC

Availability of helpdesk on MGP to assist citizens in availing of online services

EP

Community participation and awareness

IF

Open Data Policy, Privacy Policy

EP

Availability of Open Data on MGP



- Guidelines for Indian Government Websites (GIGW) suggests adhering to W3C standards
- Sustainable User-Centric Governance through Accessible and Managed websites. (SUGAM Web) has been developed to increase adherence with GIGW and rank of India in UN E-Gov Assessment
- Membership & participation in global consortia like W3C, and emulation of global standards like WCAG to adopt & align with the best in global standards

- One of the goals for Smart Cities Mission in India is to provide Open Data to citizens
- On smart city context, open data initiative seek to promote better city governance, enhance transparency, analysis, planning, and reinforce citizen engagement and participation

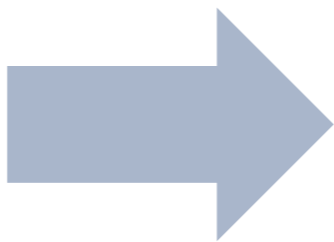
Source: Master Sheet, GIGW Handbook, Open Data Platform, data.gov.in

LOSI RESULTS

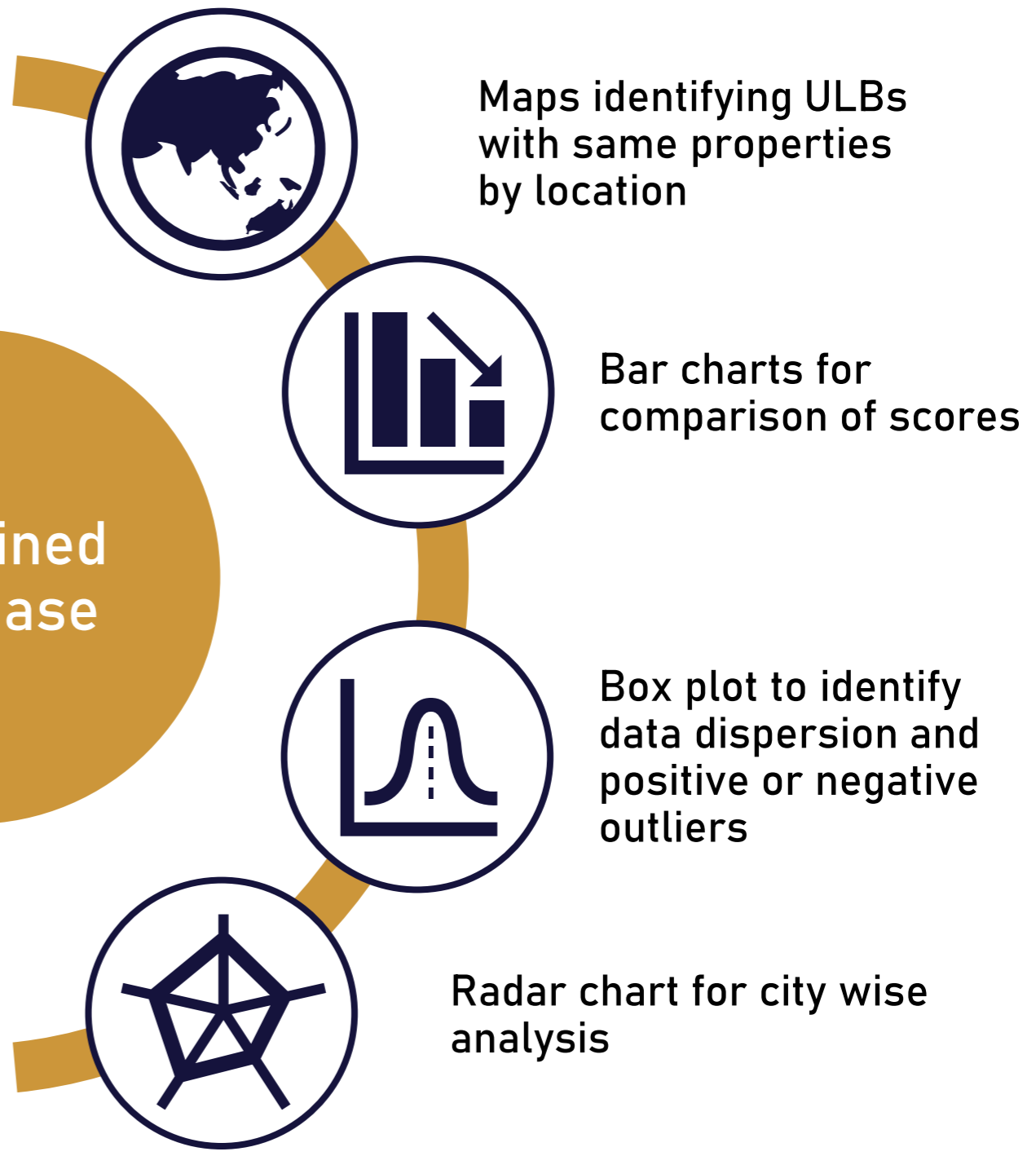
ANALYSIS PROCESS

DATAPPOINTS

City Demographics	<ul style="list-style-type: none">• Population• State• Zone• Smart city• Budget allocation
City wise score	<ul style="list-style-type: none">• City wise compiled LOSI score of all 87 parameters
Category wise score	<ul style="list-style-type: none">• City wise LOSI score divided into 5 categories of parameters
Parameter wise score	<ul style="list-style-type: none">• Individual score for all 87 parameters



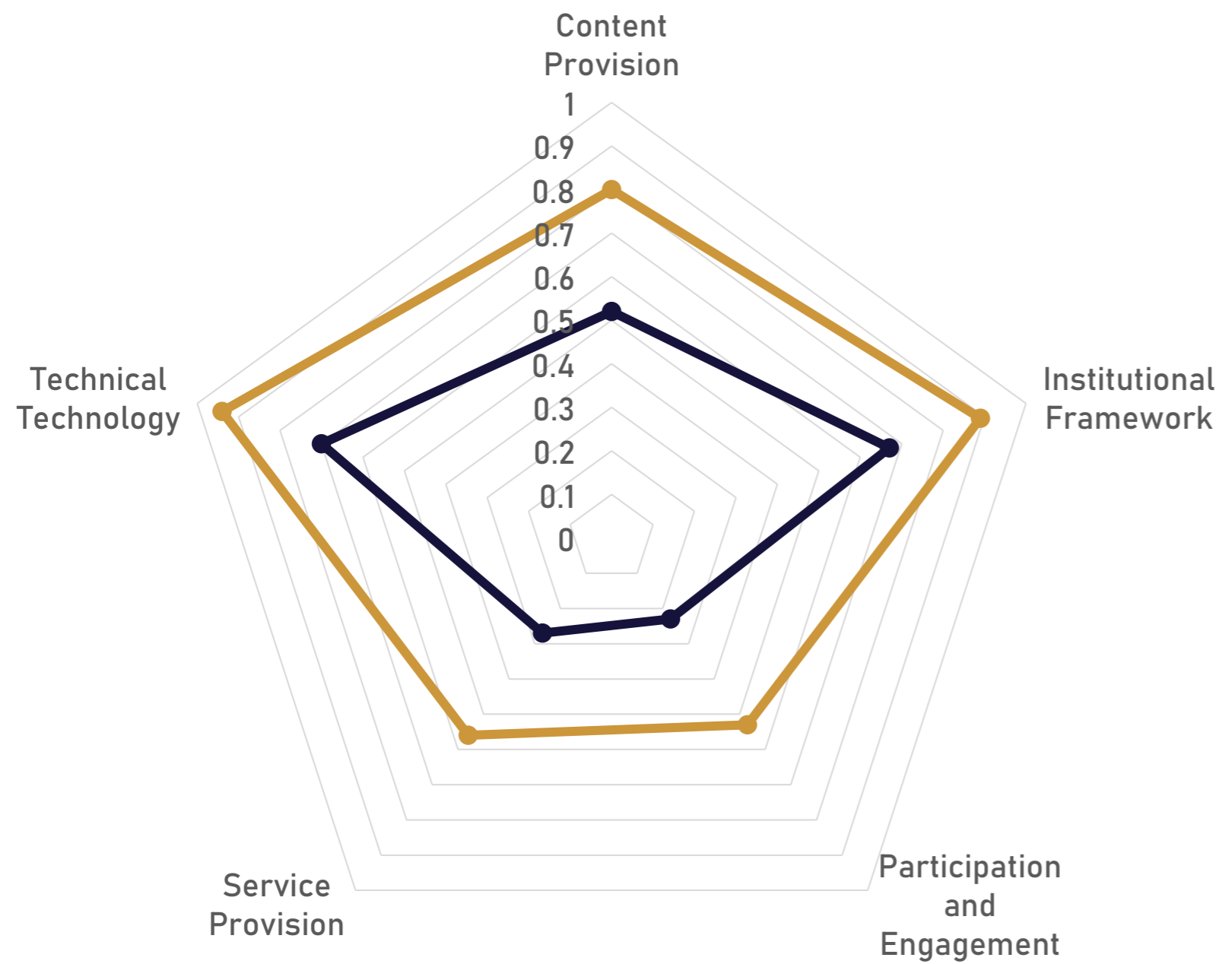
VISUALIZATION & ANALYSIS



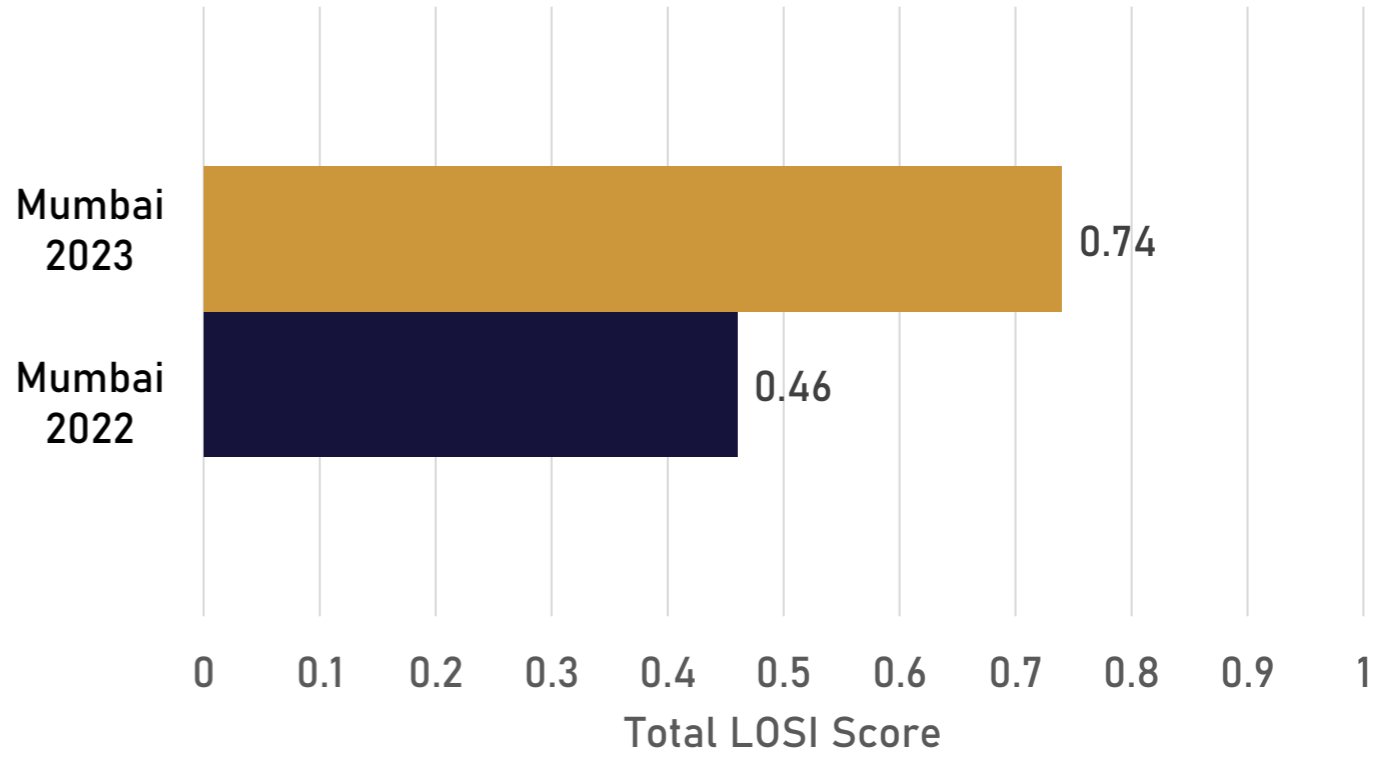
PUBLISHED LOSI OUTPUT

CURRENT & PREVIOUS RESULTS OF LOSI ASSESSMENT OF MUMBAI

● Mumbai 2022 ● Mumbai 2023

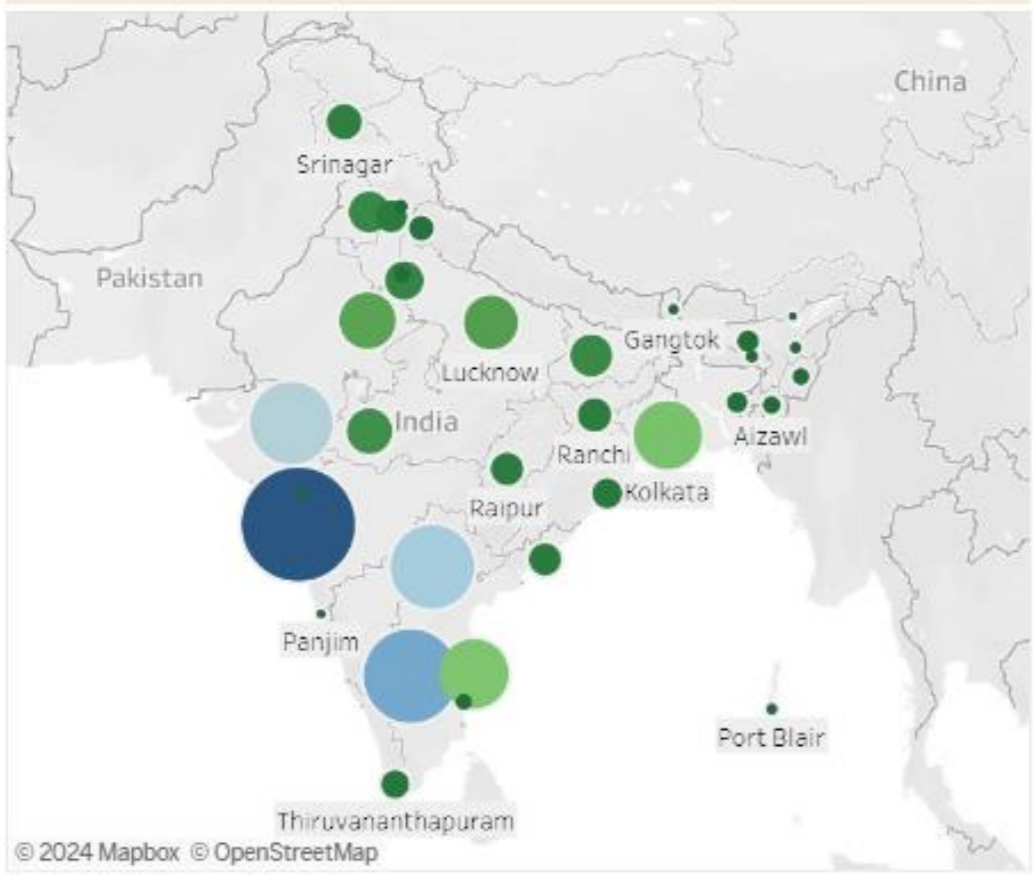


- The 2022 LOSI is the first to the most populous city in each of the 193 Member States.

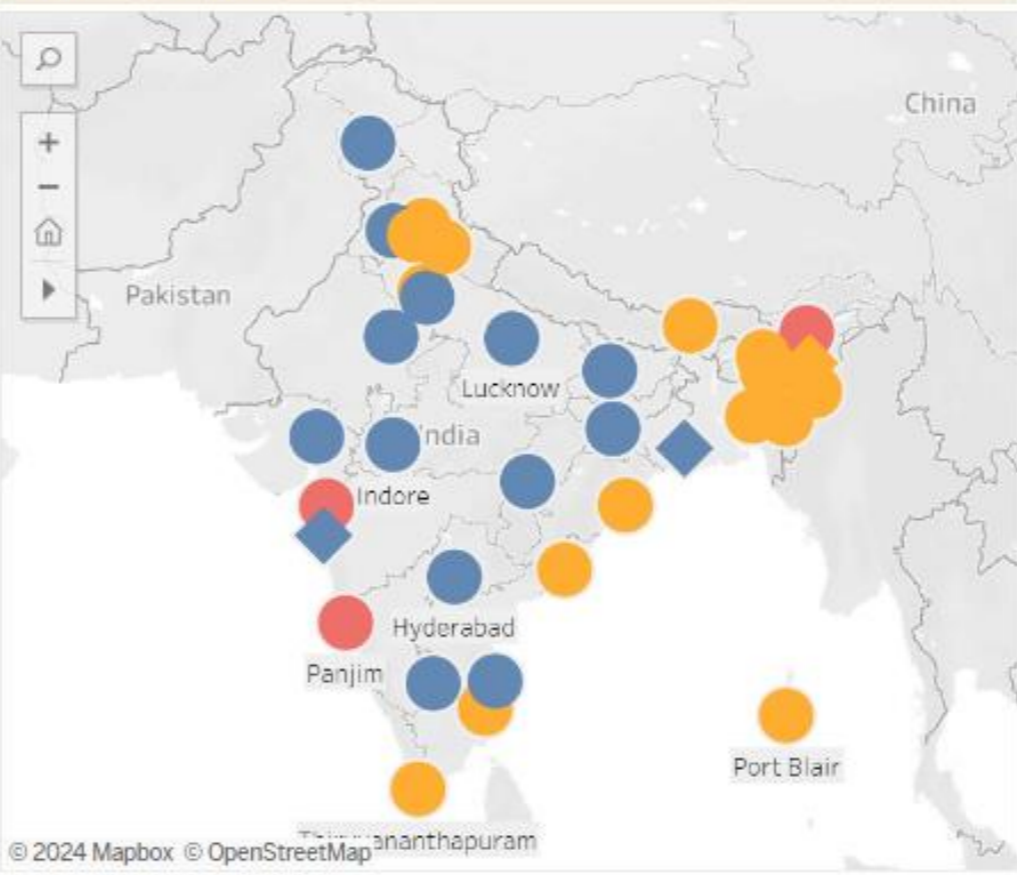


- As published on the official website of UN E-Government Knowledgebase, Mumbai scored 0.46 in LOSI assessment, which is ahead than world and region average
- As per the assessment conducted, Mumbai now holds 0.74 score in the LOSI assessment

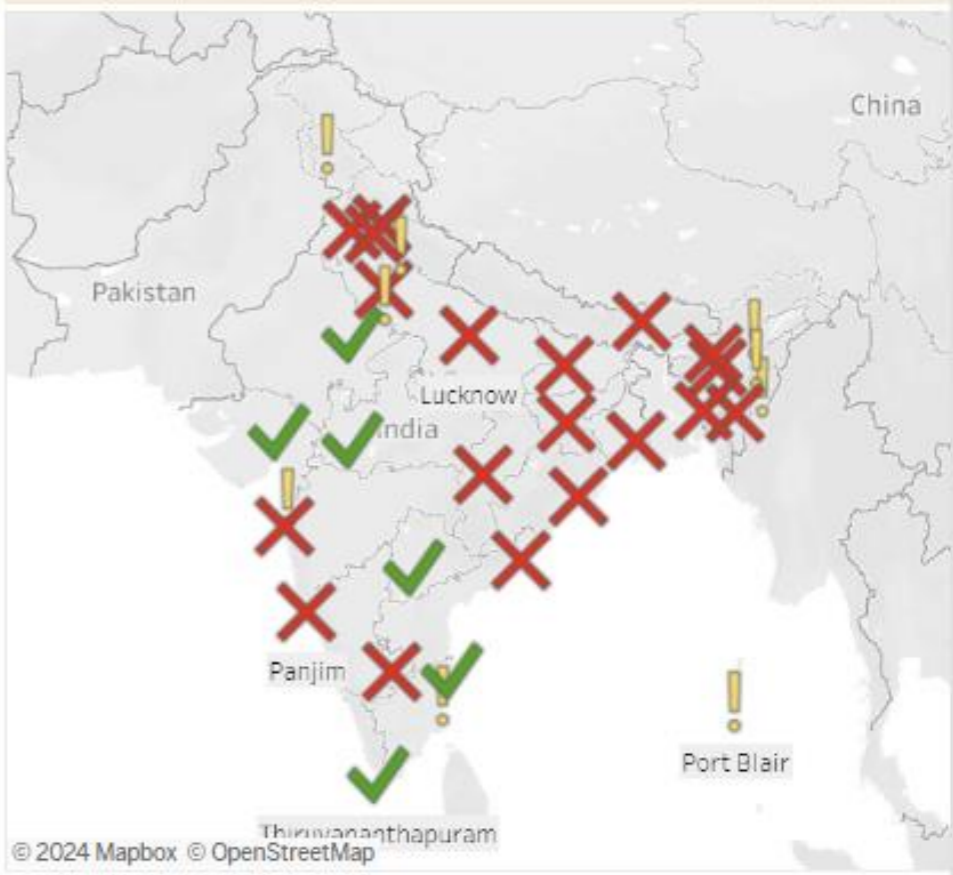
City Demographics



Population Group



Budget Consideration



- Consideration of E-Governance in Municipal Budget
- ✗ No separate fund dedicated to E-Governance initiatives
 - ✓ Funds allocated for E-Governance initiatives
 - ! Budget data not available

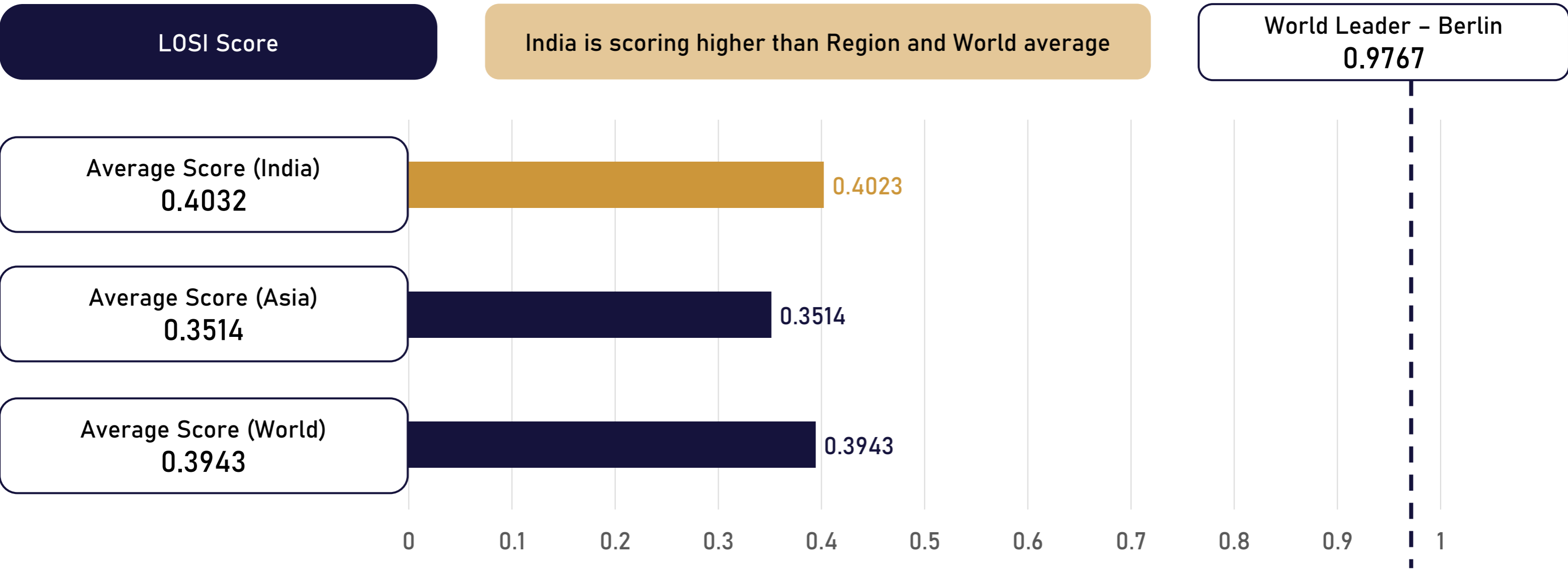
- Population Group wise classification
- Metropolitan Centre
 - Urban Centre
 - Semi-urban Centre

- Population**
- Study includes 15 Metropolitan Centres, 16 Urban Centres and 3 Semi-urban Centres
 - The smallest city by population is Itanagar (65,301) and the largest city by population is Mumbai (12,432,830)
- Smart City**
- Apart from 3 cities (Mumbai, Kolkata and Dimapur) all other 31 cities are declared as smart cities
- Fund Allocation**
- Only 6 cities out of 34 have separate funds allocated to E-Governance initiatives in their municipal budgets

INFERENCES

INFERENCES

SCORE COMPARISON



All the cities with separate fund allocated to E-Governance in municipal budget are in High or Middle categories

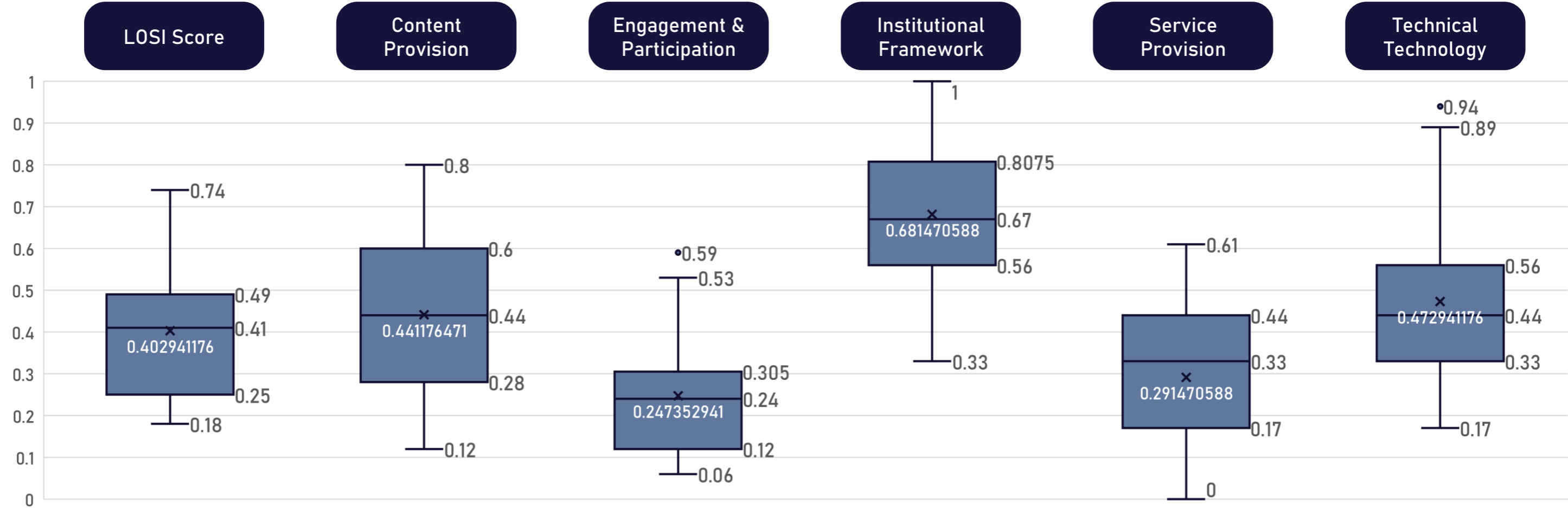
Apart from Lucknow, all the metropolitan centers have scored in High or Middle category

Being a smart city does not affect on LOSI score of the ULB

ULBs in North-Eastern zone have the lowest average score

INFERENCES

COMPONENT WISE SCORE DATA



Category	LOSI Score	Content Provision	Engagement & Participation	Institutional Framework	Service Provision	Technical Technology
Highest	Mumbai	Mumbai	Ahmedabad	Guwahati	Bhubaneswar	Mumbai
Middle Range	0.25 to 0.49	0.28 to 0.60	0.12 to 0.30	0.56 to 0.80	0.17 to 0.44	0.33 to 0.56
Lowest	Dimapur	Port Blair	Itanagar	Gangtok	Aizawl	Imphal

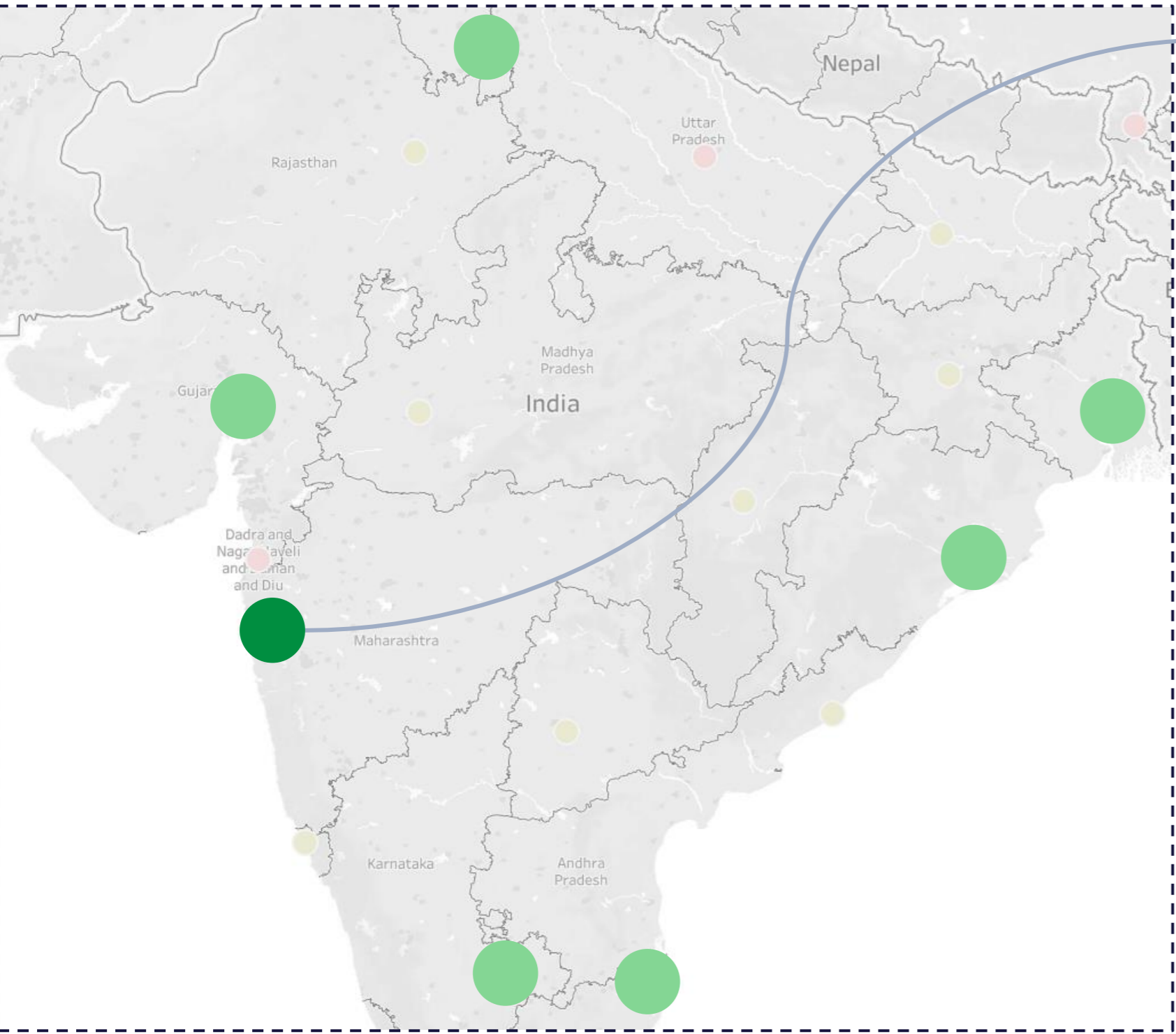
INFERENCES

CITY WISE SCORE DATA



INFERENCES

GOOD PRACTICES



Mumbai **0.74**

- Highest scoring ULB in India
- Leader in Content Provision with 80% of the parameters achieved
- Leader in Technical Technology with 94% of the parameters achieved
- Only city with published outcomes of e-participation activities on MGP
- Only city with information about participatory budgeting published on MGP

BRIHANMUMBAI MUNICIPAL CORPORATION

Public Appeal

Citizens of Mumbai are hereby informed that, the process of preparation of Budget Estimates for the financial year 2023-24 for Income & Expenditure of Brihanmumbai Municipal Corporation is underway. The Budget Estimates will be presented before 5th February, 2023.

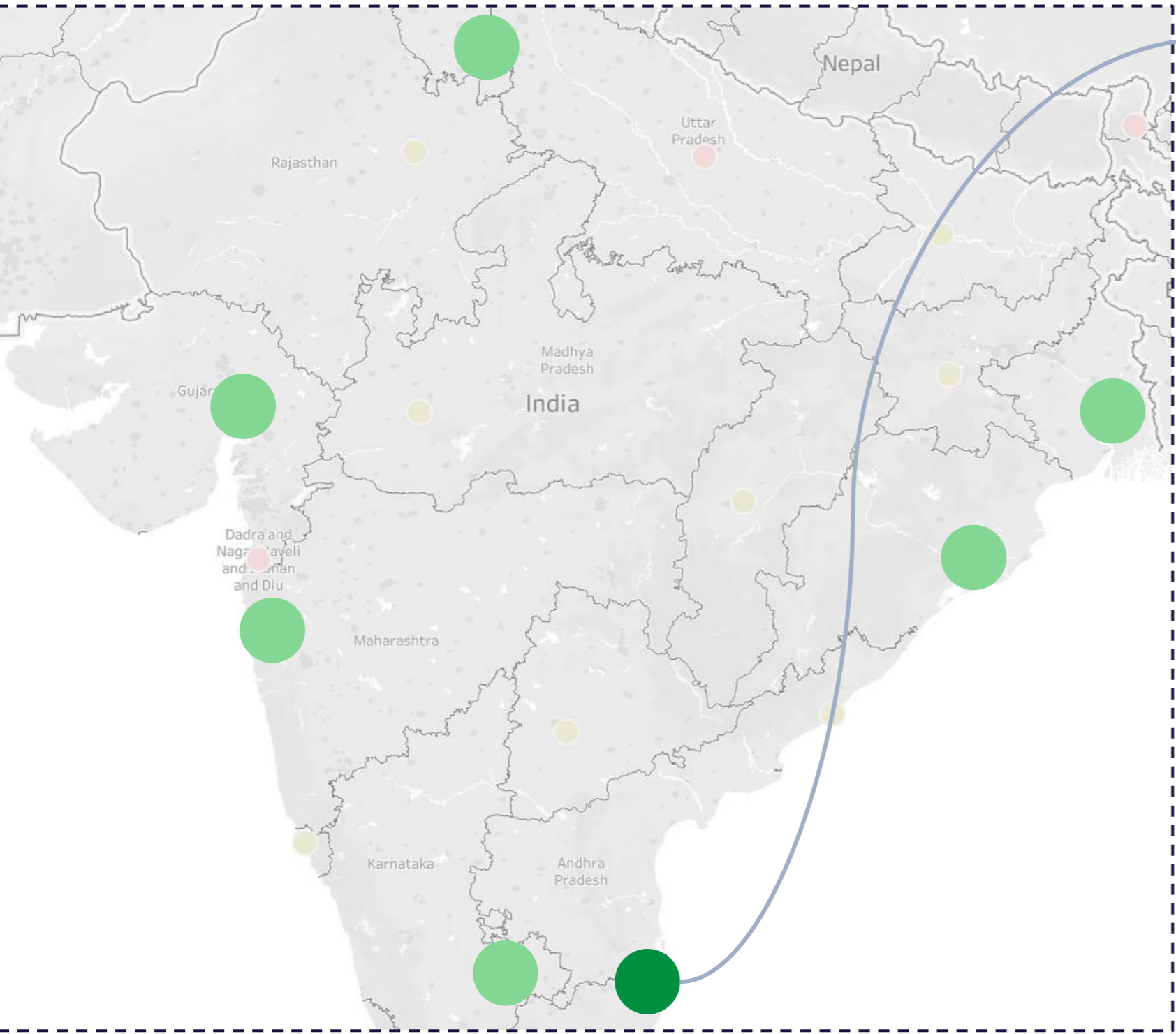
In view of public participation, citizens of Mumbai are appealed that if citizens wish to make suggestions regarding budget, they may send the suggestions before 28th January, 2023 on following e-mail ID.

E-mail ID - bmcbudget.suggestion@mcgm.gov.in

Participatory budget notification


INFERENCES

GOOD PRACTICES



Chennai 0.68

- Highest scoring ULB in Southern zone
- Second in Content Provision adhering to 76% of parameters
- Second in Technical Technology adhering to 89% of parameters
- One of the 6 cities with separate fund allocated to e-governance initiatives in its municipal budget
- One of the 2 cities with provision of information about justice matters on MGP
- Only city to have Blockchain policy published on MGP



GOVERNMENT OF TAMILNADU

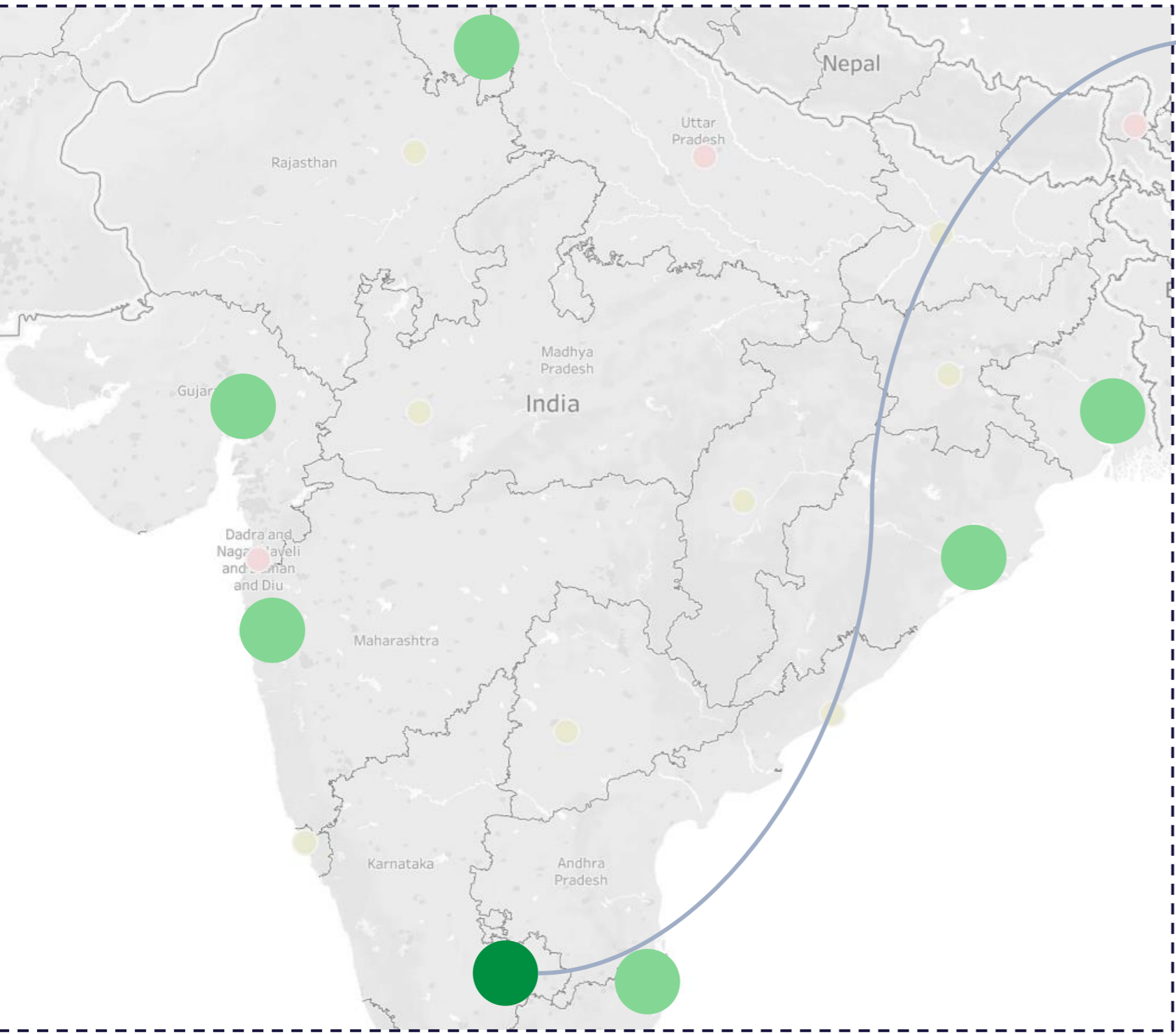
INFORMATION TECHNOLOGY DEPARTMENT

Tamil Nadu Blockchain Policy 2020

Blockchain Policy 2020 Document



INFERENCES

GOOD PRACTICES



Bangalore **0.63**

- One of the 2 ULBs complying with markup validity standards by W3C
- Second in Institutional Framework with 89% of the parameters achieved
- One of the 3 ULBs where citizens can make declarations to police online

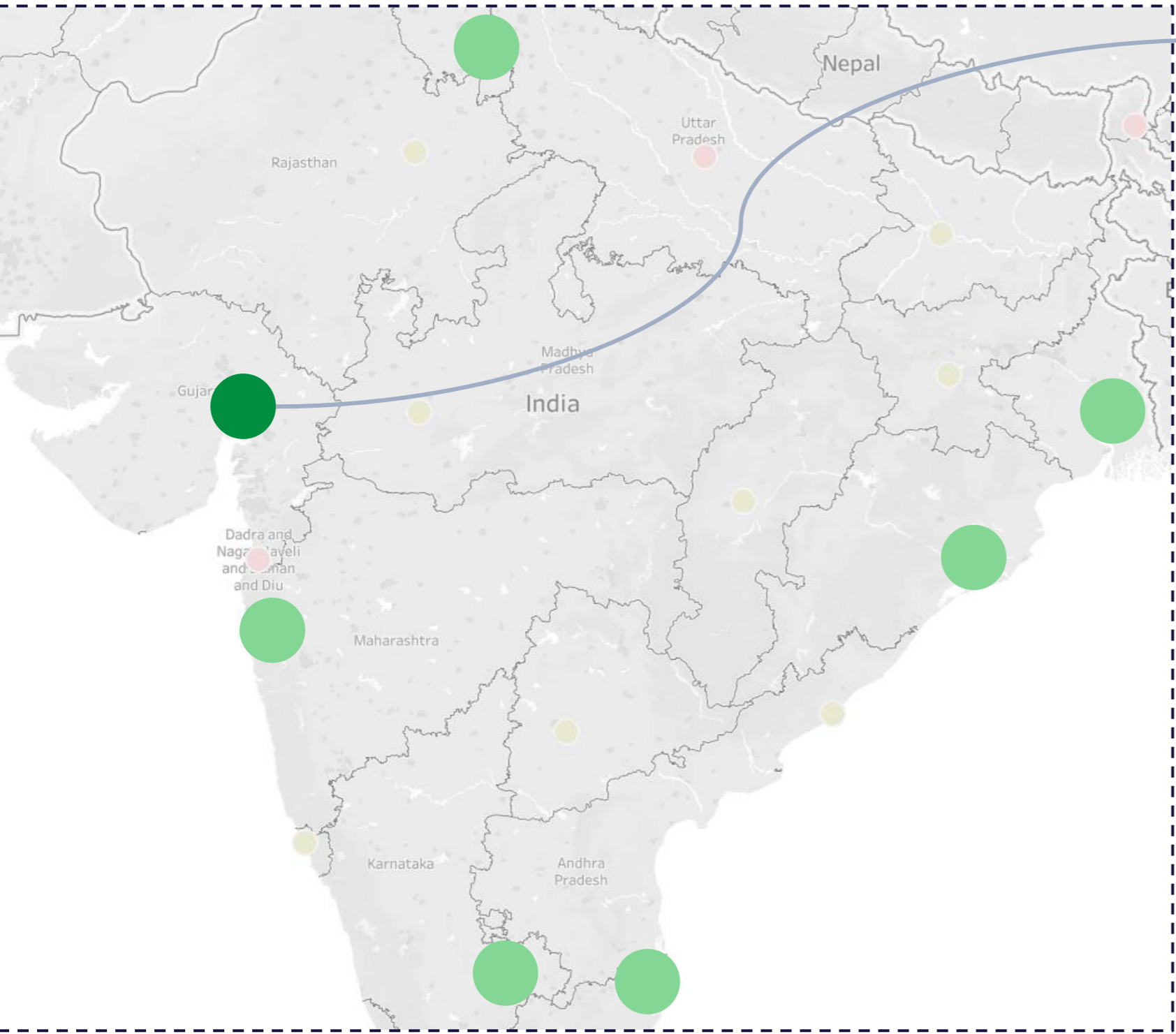
JANASEVAKA
GOVERNMENT OF KARNATAKA

+	DEPT FOR EMPOWERMENT OF DIFFERENTLY ABLED AND SENIOR CITIZEN	+
+	BBMP	+
+	KARNATAKA STATE POLICE	-
+	Application for complaint of lost items - Mobile/Document	↑
+	Application for registration of Senior Citizen	↑
	Application for Locked home registration	↑
	Antecedant and Address Verification for Domestic servants or House Keeping	↑
	Antecedents Verification for MNCs or Private or Corporate	↑
	Antecedents and Address Verification for MNCs or Private or Corporate	↑
	Complaint Registration	↑
	License for Amusement	↑
	License for Amplified Sound Systems	↑
	No Obligation to Return to India	↑

Police related services available on MGP

INFERENCES

GOOD PRACTICES



Ahmedabad 0.63

- Highest scoring city in Engagement and Participation category with 59% of the parameters achieved
- One of the 6 cities with separate fund allocated to e-governance initiatives in its municipal budget
- Second in Content Provision category with 76% of parameters achieved
- One of the 2 cities with active e-mail ID for any citizen to inquire about information

Opening hours of the civic center Inbox x

Saumya Mehta <saumyam98@gmail.com> Feb 22, 2023, 2:51 PM

to feedback

Respected sir/ma'am,
I would like to be informed about the working hours of the civic center in Ahmedabad. So that I can visit to deal with a subject of my interest.

Thanks and regards,
Saumya Mehta

feedback@ahmedabadcity.gov.in Feb 23, 2023, 6:17 PM

to me

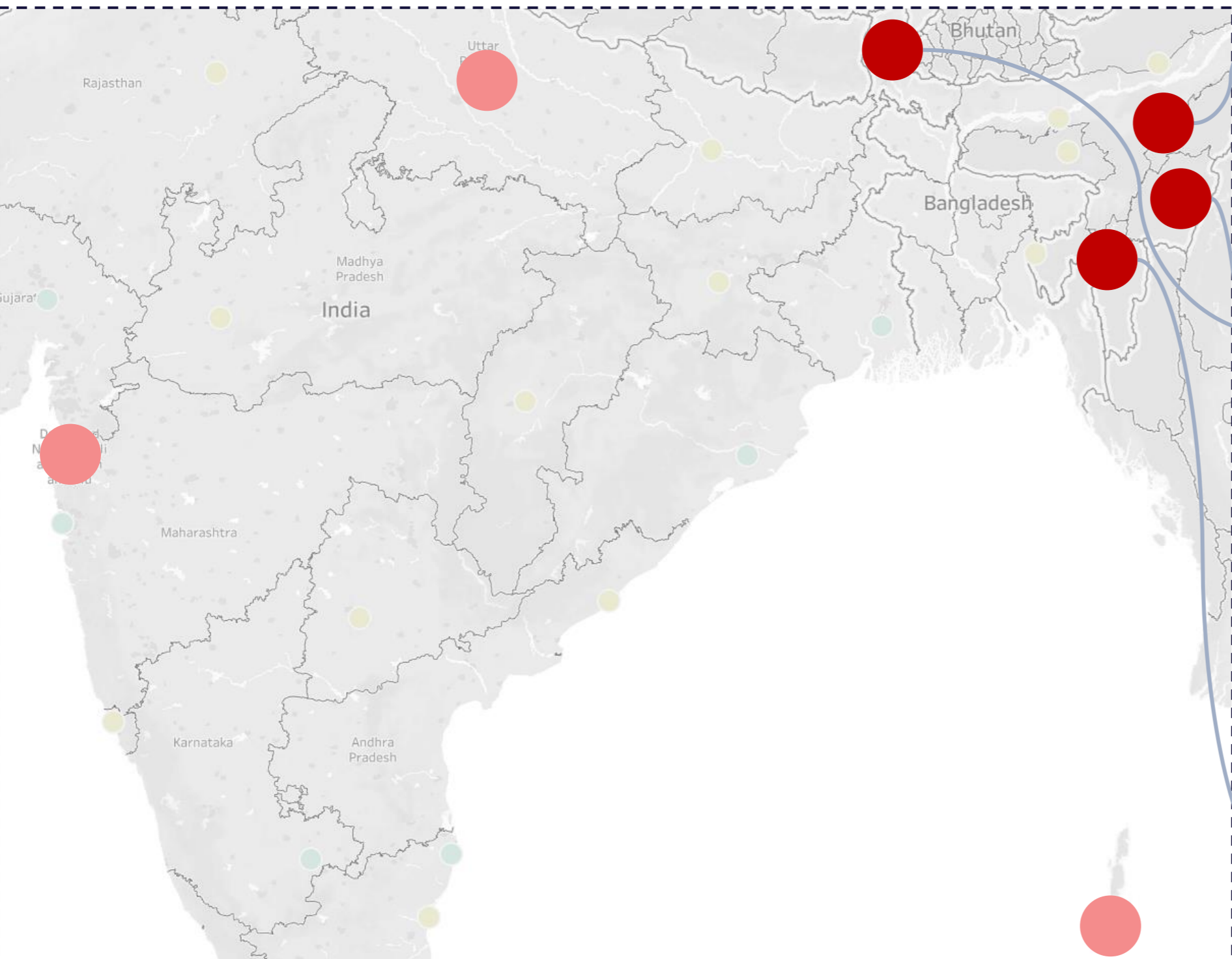
https://ahmedabadcity.gov.in/portal/jsp/Static_pages/ccc.jsp

Regards
AHMEDABAD MUNICIPAL CORPORATION
E-Governance
AHMEDABAD.
Visit our website :- <http://ahmedabadcity.gov.in/>

Informative response provided in 1 day

INFERENCES

CITIES WITH LOW SCORE



Dimapur 0.18

- Lowest scoring ULB in North-Eastern zone
- One of the 3 non-smart city in the assessment list
- Scored 0 in Service Provision

Gangtok 0.18

- Least scoring city in Institutional Framework category with only 33% adherence to parameters

Imphal 0.18

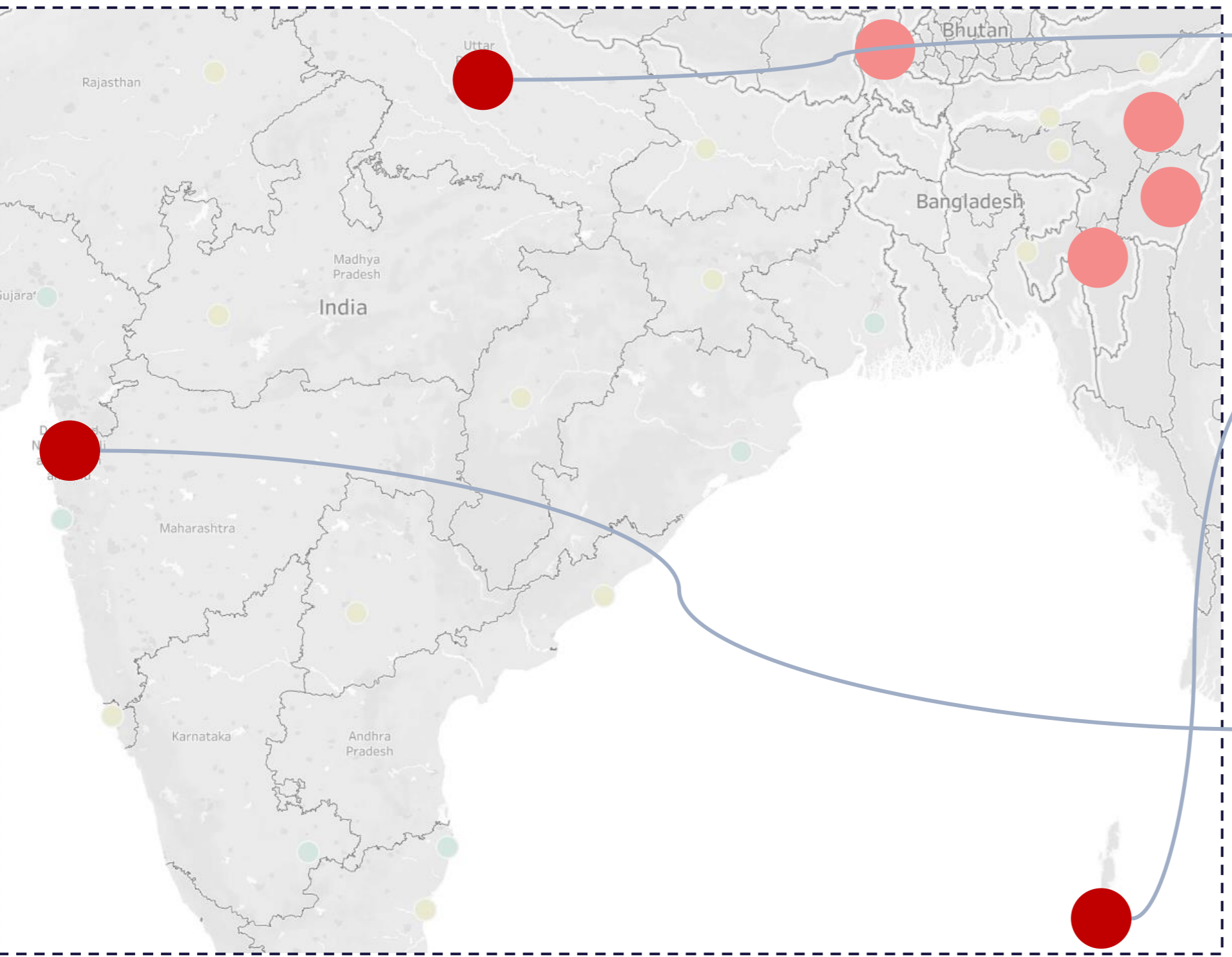
- Least scoring city in Technical Technology category with only 17% adherence to parameters
- Least scoring city in Institutional Framework category with only 33% adherence to parameters

Aizawl 0.22

- Scored 0 in Service Provision

INFERENCES

CITIES WITH LOW SCORE



Lucknow 0.23

- Lowest scoring ULB in Metropolitan Centre category
- Least scoring city in Institutional Framework category with only 33% adherence to parameters

Port Blair 0.24

- Least scoring ULB under Union Territory
- Lowest scoring ULB in Southern zone
- Least scoring city in Content Provision category with only 12% adherence to parameters

Silvassa 0.24

- Least scoring ULB under Union Territory
- Lowest scoring ULB in Western zone
- Least scoring city in Technical Technology category with only 17% adherence to parameters

CONCLUSION

Multiple Modes of Service Delivery

- Multiple portals for a city to access citizen services –
- Out of the total of 87 parameters, 3 parameters were available on District Portals, 1 was related to parastatals, services assessed by 7 parameters were delivered by State portals and 4 by national portals

City Website

District Portals

Smart City Portals

State Portals

Centrally Governed Portals

Relevance to Indian Context

- As Indian jurisdiction system is centrally governed with designated functions to be performed by Urban Local Bodies at a city level
- This makes it important for the index to consider all available modes of service delivery in cities of India

CONCLUSION

CENTRALLY GOVERNED SERVICE PORTALS

Open Data

- Centrally governed open data portal with state wise and sector wise data sets is available in India
- As the responsibility lies with Smart City and there is already separate portal available, cities do not have open data available on their MGPs
- Open government data policy is also available at central level, launched in 2012 and applicable since then

Income Tax

- Centrally governed e-Filing system portal for both citizen and business entity
- Provision of relevant information, online forms, verification of documents and disclosures


CONCLUSION

CENTRALLY GOVERNED SERVICE PORTALS

Driving License

License Related Services


Various services related to new/old driving licence or learner's licence like Appointment Booking, Duplicate driving licence, Application Status, Online test for learner's licence, etc.



Drivers/ Learners License

License registration on your fingertips


More



Driving School

One place for application of Driving School License


More



Online Test/ Appointment

Book/ Modify Online test appointments

More



Other Services

Explore the plethora of services related to Driving License

More

Vehicle Related Services

Various services related to registration of vehicle/already registered vehicle like Appointment Booking, Application Status, Duplicate Registration, Change of Address, Transfer of Ownership, Hypothecation, etc.

--Select State Name--

- Andaman and Nicobar
- Andhra Pradesh
- Arunachal Pradesh
- Assam
- Bihar
- Chandigarh
- Chhattisgarh
- Delhi
- Goa
- Gujarat
- Haryana
- Himachal Pradesh
- Jammu and Kashmir
- Jharkhand
- Karnataka
- Kerala

--Select State Name--

- Centrally governed state wise license and vehicle related service portal called parivahan
- License issuance, renewal, fees payment, forms, online test, etc. license related services are provided
- Vehicle registration, number allocation, permit, etc. vehicle related services are provided

Residency Permit



About e-FRRO

How to Apply

Already registered? Login here

Frequently Asked Questions

Important Instructions

Photo and Documents Requirement

SBI Payment Related FAQ

AXIS Payment Related FAQ

Technical Information

Salient Features

- Services from comfort of your home.
- No need to visit FRRO/FRO office.
- Online Payment.
- Convenient and Time Saving.
- Exclusive Dashboard for User friendly experience.

What is e-FRRO?

- Online FRRO Service delivery mechanism without requirement of visiting FRRO/FRO office. No requirement of taking appointment and visiting FRRO/FRO office unless specifically called upon by the FRRO/FRO.
- Web based application aimed to build centralized online platform for foreigners for visa related services. Its key objective is to provide **Faceless, Cashless** and **Paperless** services to the foreigners with user friendly experience.
- Using this application, foreigners are required to create their own USER-ID by registering themselves. Afterwards, they would apply online through registered user-id for various Visa and Immigration related services in India viz. Registration, Visa Extension, Visa Conversion, Exit Permit etc, without any hassle and obtain

- e-FRRO portal allows foreigners to avail registration services without visiting registration office
- The application is aimed to build centralized online platform for foreigners for visa related services.
- Its key objective is to provide Faceless, Cashless and Paperless services to the foreigners without requirement of visiting FRRO/FRO office.

CONCLUSION

RECOMMENDATIONS

POSSIBLE IMPACT

Content Provision

- Information about infrastructure facilities provided by municipality on MGP
- Provision of information about functions that do not fall under Municipality's purview. E.g., Transport, traffic, justice, disaster, etc.

- Citizen awareness about works of municipality

Institutional Framework

- Online publication of city open government data policy
- Municipality should publish their e-governance strategy online on their MGP

- Increase in transparency
- Increase in Innovation and economic value

Participation & Engagement

- Use of participatory decision making and tools (forms, polls, etc.)
- Publication of data related to municipal works and surveys in open data format on MGP with relevant metadata

- Better understanding of citizen needs
- Public service improvement

Service Provision

- Compilation of all the service portals as hyperlinks on a webpage on city MGP

- Single stop public service delivery to citizens

Technical Technology

- Adherence to World Wide Web Consortium (W3C) standards for markup validity, style sheet and Web Content Accessibility Guidelines (WCAG2.0)

- Prevention of errors and improved accessibility

Service Provision

- Payment of Property tax / House tax
 - Property tax is the most essential service in India for all the ULBs as property tax revenue is their major source of income
- Property mutation services
 - Property mutation is an important service to keep track of levied tax for all the properties in coming under city administration

Institutional Framework

- Availability of Copyright and Hyperlinking policy
 - Copyright and Hyperlinking policies are important to declare data ownership

Content Provision

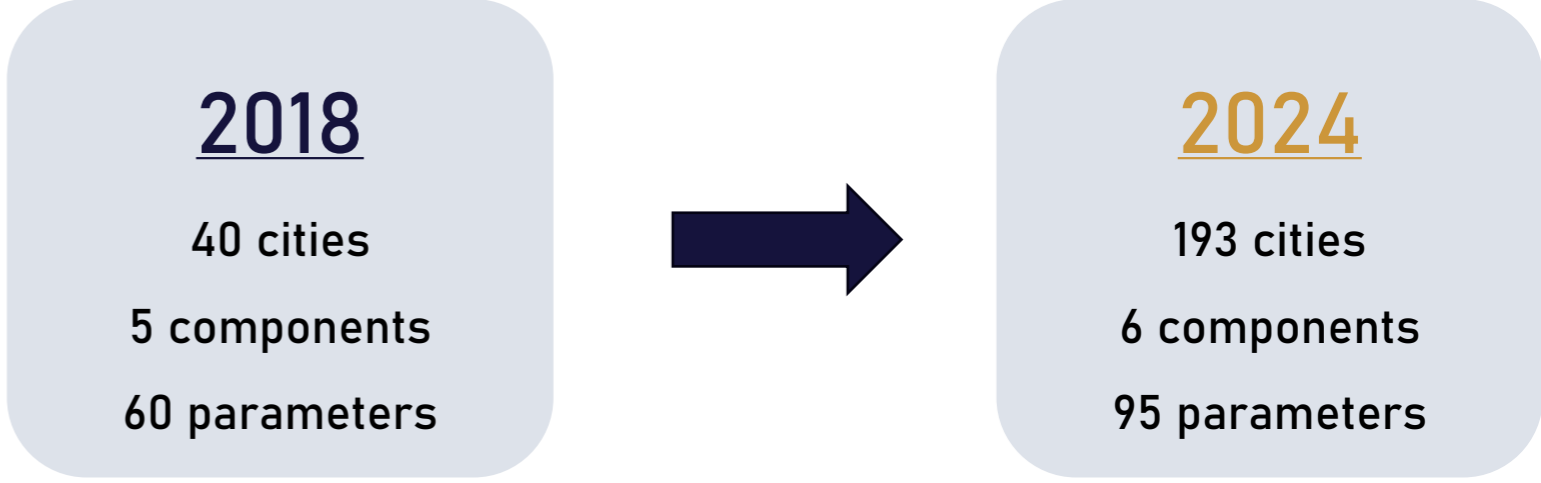
- Maps related to services derived from GIS mapping of the city
 - As smart cities are mapping their services on GIS, citizens should get some information out of it



Cities has been selected from the state of

Gujarat

The LOSI methodology has been continuously refined year by year to cater to dynamism of continuously evolving governments and inputs from pilot studies



LOSI 2024

31

Channel Independent Questions

Which assesses availability of city information / services across various portals or channels; including National, State and Local platforms

64

MGP Specific Questions

Which assesses availability of city information / services particularly on city MGP or linked websites on the portal

THANK YOU

Dr. Gayatri Doctor | gayatri.doctor@cept.ac.in
Saumya Mehta | saumyam98@gmail.com