Smart Cities in India Dashboard

Average % of Household Internet Access	Average % of smart water meter	Average % of smart Electricity meter	Average % of Traffic monitoring
72.99817	29.93328	35.485388888888892	27.6417

Smart Cities in ...

- Ahmedabad
- Aizawl
- Amaravati
- Amritsar
- Bengaluru
- Bhopal
- Brajrajnagar
- Chandigarh
- Chennai
- Coimbatore
- Delhi
- Ernakulam
- Gurugram
- Guwahati
- Hyderabad
- Jaipur
- Jorapokhar
- Kanpur

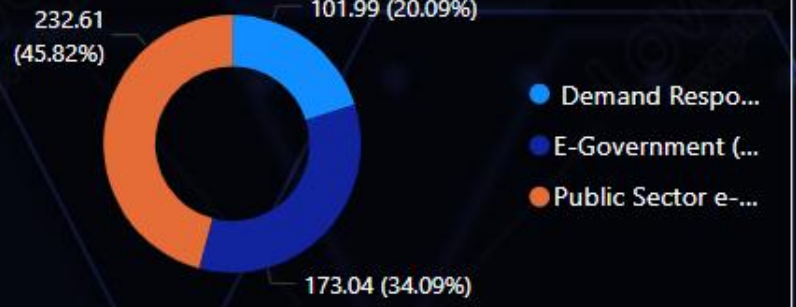
Amaravati

your selected city

Open data (%) by this smart city

58.88

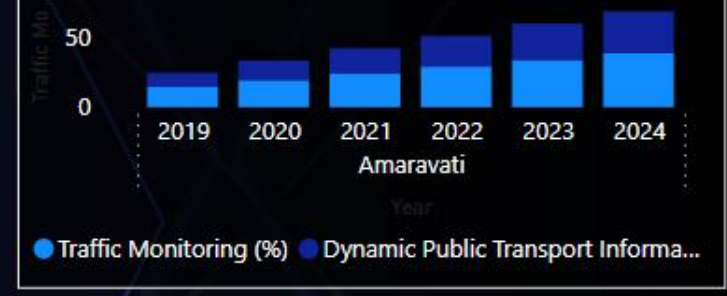
Digital Governance Initiatives



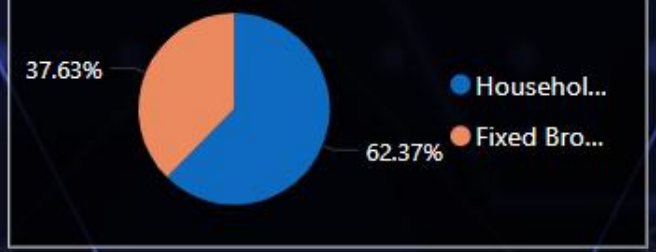
Total 30 smart cities

Smart Cities in India

Public transport & traffic monitoring

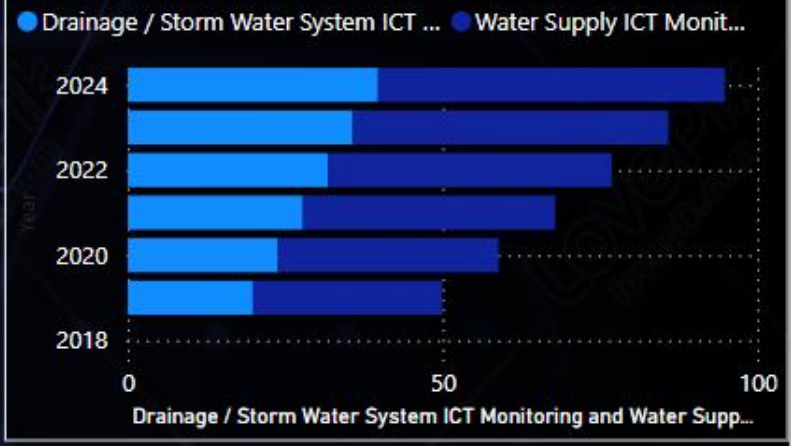


Internet access landscape

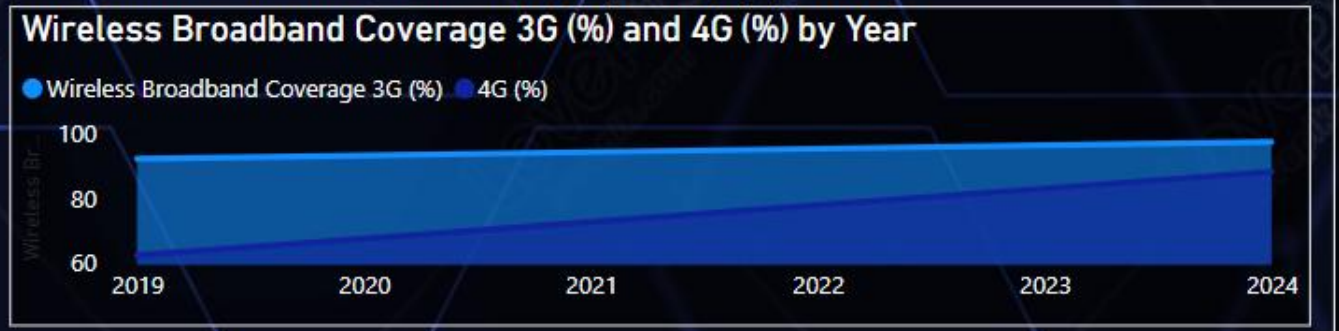


Wireless broadband access 3G vs 4G

Drainage / Storm Water System ICT Monitoring and Water Supply ICT Monitoring (%) by Year



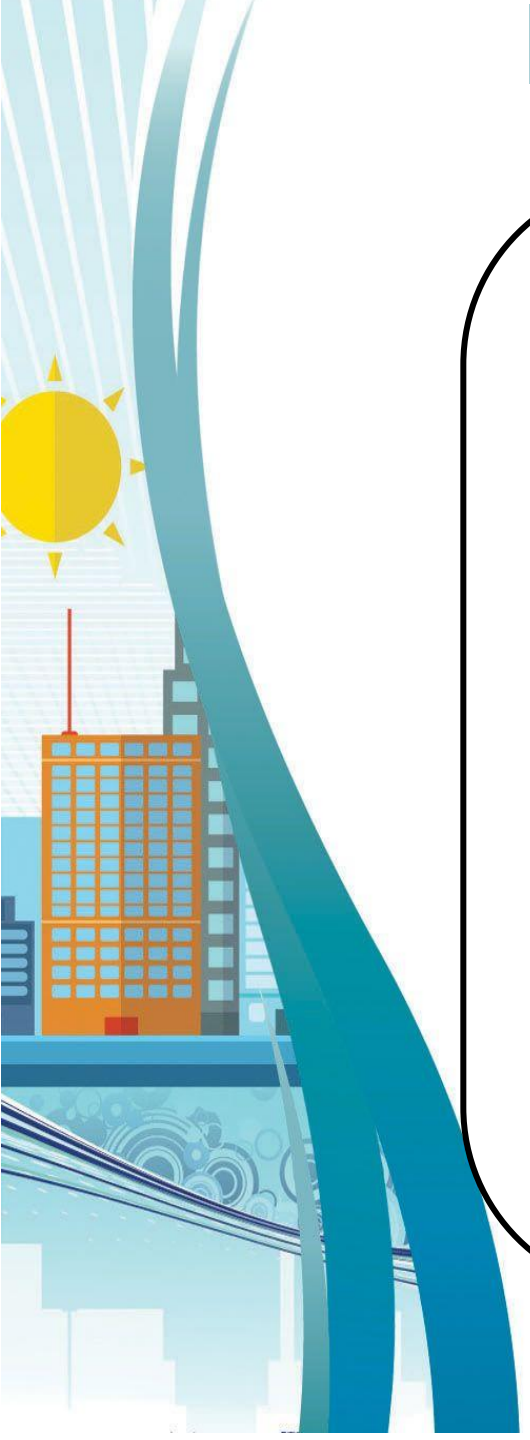
Wireless Broadband Coverage 3G (%) and 4G (%) by Year



DATA ANALYSIS OF SMART CITIES IN INDIA

By-Raman Gulhane

AIM & OBJECTIVES OF SMART CITIES DASHBOARD

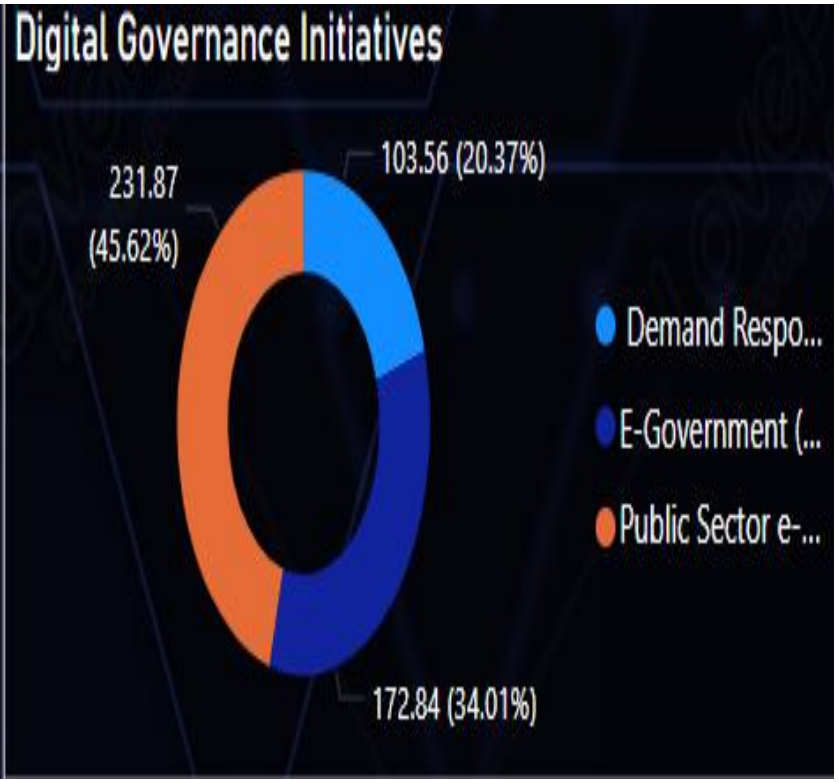


Aim : Design a Power BI dashboard to provide insights into digital governance, infrastructure, internet accessibility, and public services in Indian smart cities. The goal is to enable data-driven decisions for sustainable, connected urban development.

Objectives

1. **Analyze Key Metrics:** To Compare internet access, broadband coverage, and smart meter adoption to assess urban technological growth.
2. **Enhance Governance:** To Leverage open data to identify gaps, improve transparency, and support better policymaking.
3. **Optimize Resources:** To Track water, electricity, drainage, and traffic to highlight areas needing sustainable improvements.
4. **Boost Mobility:** To Analyze transport and traffic data to reduce congestion and promote eco-friendly travel.
5. **Showcase Tech Growth:** To Highlight shifts to 4G and digital governance advancements for better services.
6. **Simplify Data:** To Deliver insights in an intuitive and visually appealing format for all stakeholders.

SMART CITIES IN INDIA DATA ANALYSIS



Digital Governance Initiatives

1. Why This Chart Matters

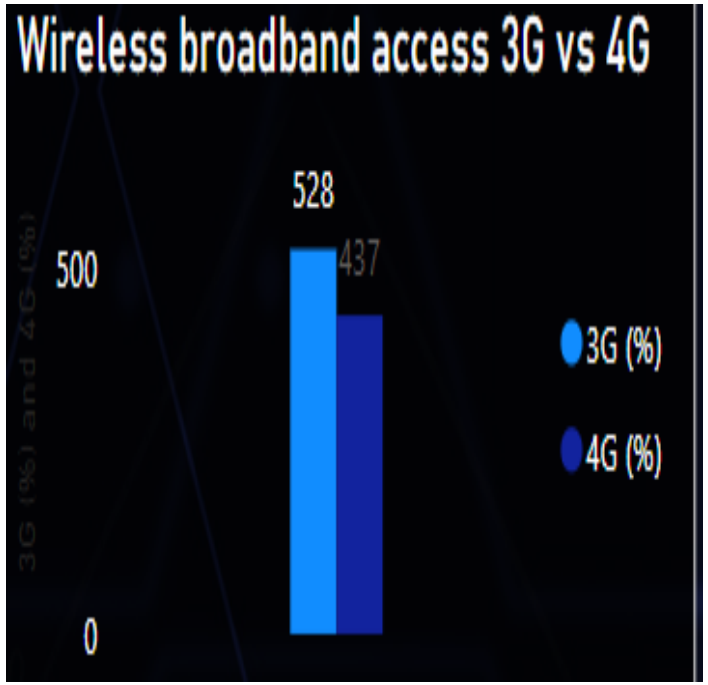
- Shows how digital efforts are distributed across key areas.
- Helps identify focus areas to improve citizen services.

2. What the Chart Tells Us

- **Demand Response (20.37%)**: Citizen participation and resource optimization need more attention.
- **E-Government (34.01%)**: Strong progress in delivering public services online.
- **E-Procurement (45.62%)**: Major focus on making procurement more efficient and transparent.

3. Conclusion

- Highlights strengths and gaps in digital governance efforts.
- More focus on underrepresented areas can drive balanced growth



Wireless Broadband Access: 3G vs 4G

1. Why This Chart Matters

- Highlights the transition from 3G to 4G broadband access.
- Shows how technology is evolving to meet growing data needs.

2. What the Chart Tells Us

- **3G (528%)**: Still a significant share of broadband users, indicating reliance on older infrastructure in some areas.
- **4G (437%)**: Rapidly catching up, reflecting the shift towards faster and more reliable internet services.

Note-percentage are given on the basis of sum of percentage of 2019,20,21,22,23,24.

3. Conclusion

- The chart shows a gradual transition to 4G, but 3G still has a larger presence.
- Focused efforts are needed to fully upgrade to 4G for better connectivity and performance.

Internet access landscape

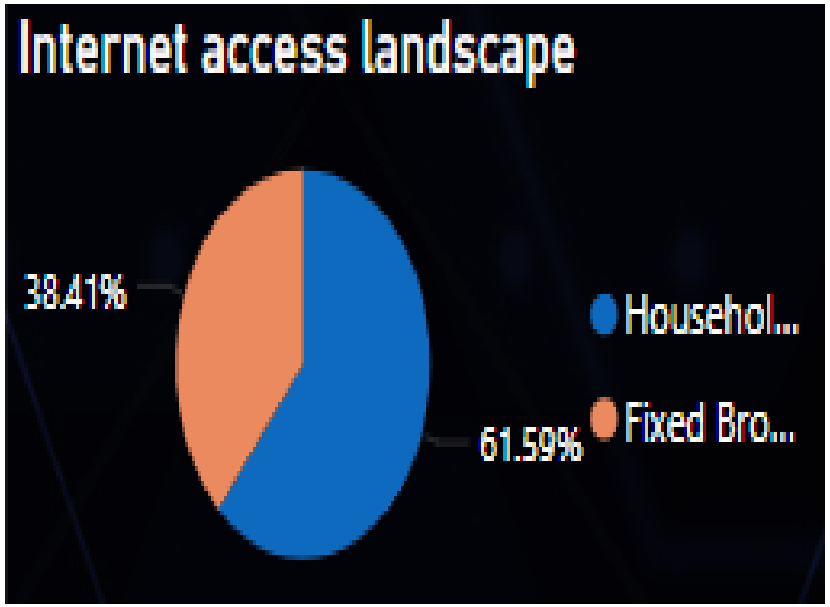
Why it matters: This chart helps us understand the digital divide - who has internet and who doesn't. This is crucial for ensuring everyone has equal opportunities in our increasingly digital world.

What it tells us:

- **Household Internet Access:** 61.59% of households have access to the internet in some form. This could include mobile data, Wi-Fi hotspots, or home internet connections.

Fixed Broadband Access: 37.63% of households have access to fixed broadband connections, such as fiber optic, cable, or DSL. This represents a more stable and typically faster internet connection.

Conclusion: The chart reveals that while many have access, a significant number rely on less stable connections. This highlights the need to improve internet availability and affordability for everyone.



Wireless Broadband Coverage (3G and 4G) by Year

1.Why This Chart Matters

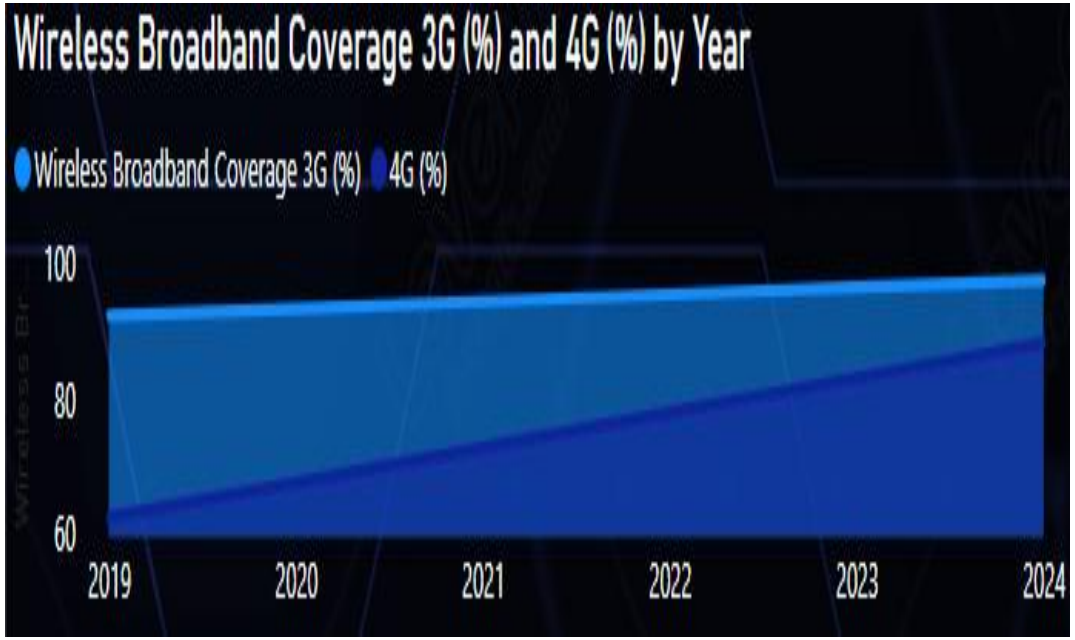
- Tracks the shift from 3G to 4G broadband, showcasing advancements in wireless technology.
- Highlights progress in connectivity, crucial for smart city initiatives and digital services.

2.What the Chart Tells Us

- **3G Coverage:** Shows a steady decline, indicating a transition away from older technology.
- **4G Coverage:** Consistent growth over the years, reaching near 100% by 2024, signaling widespread adoption.

3.Conclusion

- Demonstrates a successful technological upgrade from 3G to 4G.
- Ensures the backbone for better e-governance, smart services, and enhanced digital infrastructure.



Public Transport & Traffic Monitoring

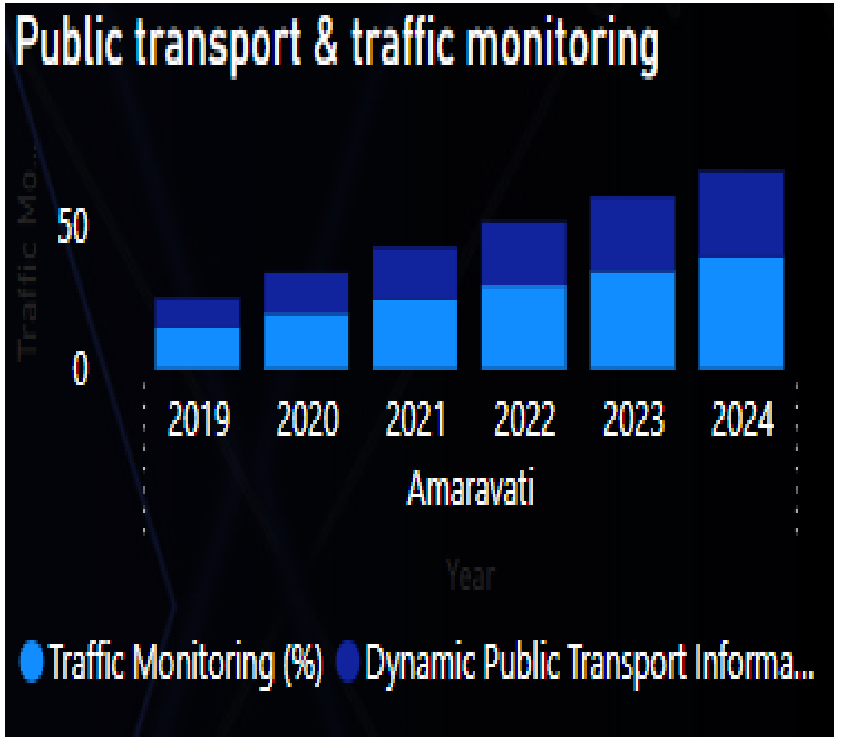
Why it matters: This chart shows how Amaravati is using technology to make traffic flow better and public transport easier to use.

What it tells us:

- **Traffic monitoring is strong:** The city is doing a good job of tracking traffic and figuring out how to keep things moving smoothly.
- **Public transport info is improving:** People are getting better information about buses, which is helping them plan their trips.

Conclusion: Amaravati is on the right track with using technology to improve how people get around. There's still room to give even more helpful information to people using public transport.

This version aims to be more concise and easier to understand for a general audience



Drainage/Storm Water System and Water Supply ICT Monitoring

Why this chart matters:

•**Understanding City Infrastructure:** This chart helps us see how well Amaravati is using technology to manage its water systems, including drainage and water supply.

•**Improving City Services:** By tracking this data, the city can identify areas where technology can help improve water management, leading to better services for residents.

What the chart tells us:

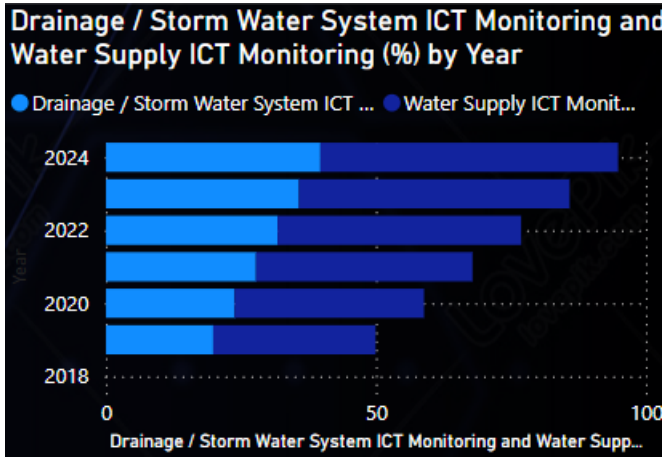
•**Steady Growth:** Both drainage/storm water system monitoring and water supply monitoring have been increasing over the years, showing a commitment to using technology to improve water management.

•**Water Supply Focus:** Water supply monitoring has consistently been higher, indicating a stronger emphasis on managing water distribution and quality.

•**Drainage Catching Up:** Drainage/storm water system monitoring has been growing steadily, suggesting increased attention to preventing flooding and managing stormwater effectively.

Conclusion:

Amaravati is making progress in using technology to monitor and manage its water systems. This data-driven approach can help the city improve water efficiency, reduce water losses, and ensure a reliable and sustainable water supply for its residents.




THANK YOU