



Mi-Command

**Single, Unified
Platform for Efficient
City Operations**

Worldwide, urban infrastructure development has fallen far short behind the population influx into cities. Enormous demand and supply gaps in basic facilities such as water, waste management, energy, mobility, education, healthcare, and crime control are growing concerns affecting citizen well-being and safety on a city-wide scale.

Government bodies are banking on advanced digital technology interventions to manage the demands of the exponentially growing urban populations.

Integrated Command and Control Centers (ICCCs) are now an essential component of effective city management to combat the challenges posed by adhoc planning, resource wastage, poor emergency response and weak public safety.

By leveraging technology and integrating various city services, ICCCs facilitate data-driven decision-making and heavily contribute to creating smarter, safer, and more sustainable urban environments.



Mi-Command

The Nerve Centre of Your City Operations



Enabling Efficient City Operations, Exception Handling, and Disaster Management

NEC Mi-Command platform Integrates, collates the aggregate information across multiple applications and sensors deployed city-wide, to extract and provide actionable insights with appropriate visualization driving intelligent and quick decision making.

This comprehensive approach of NEC Mi-Command fosters efficient urban governance through better situational awareness, intelligent data-driven decisions, and policy-making, ultimately ensuring the well-being and quality of life of the city residents.

By resolving existing city challenges and transitioning to smart city operations through the NEC Mi-Command implementation, cities can unlock immense potential for sustainable growth, improved quality of life, and resilient urban environments. The integration of technology, data-driven decision-making, and citizen participation lays the foundation for a future-ready city that optimizes resources, enhances liveability, and embraces innovation.

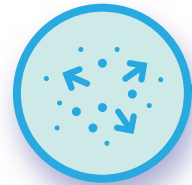


Enable Your City To Do More With Less

Embrace Real-time AI-driven Insights to Advance and Elevate your City Management Capabilities



Current Gaps and Challenges



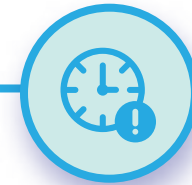
Improper visibility from scattered sources and applications

leads to resource mismanagement, wastage, and shortages



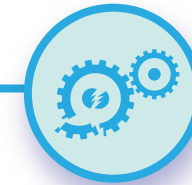
Inability to optimally allocate resources

Sub-optimal output and resource utilization



Not up-to-date or delayed information

inability to take prompt and most appropriate decisions specially during crisis and emergencies



Disintegrated approach

Lacks efficient resource management and day-to-day city operations



Inadequate risk recognition

Absence of risk monitoring mechanism resulting slow and reactive risk mitigation and weak public safety

NEC Mi-Command Capabilities



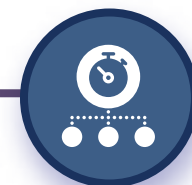
Integrates All Modules

From your existing monitoring applications, devices, and new implementations to generate and provide a **holistic single-window view of entire data**



Intelligent Analytics and Data Interpretation

Identifies improvement opportunities for optimal resources allocation, increased situational awareness, and coordinated response to emergencies; **presents this data in user-friendly formats for easy and fast interpretation and usage**



Displays Real-time Information and Dashboards

As decision support systems across devices to all involved personnel with options of best-suited actions; **enables co-ordinated decisions during disaster management and rescue operations**



Continuous Monitoring of Usage Patterns

of citizen facilities and amenities such as water, electricity, traffic, crime control, etc. and facilities such as airports, railway stations, hospitals, tourist spots, etc. **NEC Mi-Command helps optimize resource utilization, minimize wastages and streamline day-to-day city operations**



Pro-active Risk Monitoring

Enables authorities to prevent risk situations such as environmental hazards, unfriendly weather conditions, traffic anomalies, crowd misbehaviour, etc.; **Enables quick co-ordinated actions to mitigate these before they occur**

The NEC Mi-Command Advantage



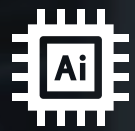
End-to-end Solution from sensors, edge & core networks including applications, dashboards, and analytics



Sensor Tech & Vendor Application Agnostic supporting multiple applications



Cost-effective with long-term scalability



AI-powered Analytics Engine for speedy data anatomization, visualizations and actionable insights



Leverages **NEC'S Award-winning Cognitive Technologies** such as biometrics, IVA, ANPR, AI/ML, etc. and proven network capabilities



Modular Service -start with few essential features and add functionalities as required



Robust Security layers with multi-departmental role-based access control (RBAC)



Fully Customizable supporting varied needs & requirements of the city and users

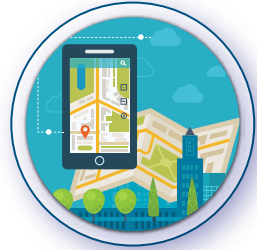


Resilient, High Performance with guaranteed uptime and SLAs



Brings **NEC's Indepth On-ground Experience** from large smart-city and NEC Mi-Command deployments globally and in India

Built for Resilience, Continuity, and High Performance



Integration with GIS and Maps

- Visualize and analyze data from various sources such as sensors, cameras, and IoT devices in a geospatial context
- Creates a holistic view of the operational environment



Defines Business Rules/SOPs

- Ensures that tasks are performed consistently and in accordance with established protocols
- Improves operational efficiency and minimizes the risk of errors

Incident Management SOP and Escalation Matrix

- Ensures that incidents are promptly identified, reported, and managed systematically
- Improves overall response times and minimizes the impact



Captures and Integrates Data from Non-IoT Sources, Legacy Systems and Manual Inputs

- Provides a comprehensive view of operations to make informed decisions based on a complete and accurate dataset



Event Actions & Alerts

- Defines automated responses to specific events and alerts
- Pro-actively monitors and anticipates potential incidents
- Promptly notifies the appropriate people to be involved in the incident response process

Cloud-based Data Storage and Security

- Provides flexibility, modularity, and modern apps integration
- Ensures integrity of sensitive citizen and government data
- Boosts overall operational efficiency



Multitenancy

- Allows multiple users or organizations to access
- Enables secure data sharing and collaboration between different groups or departments
- Reduces operating costs drastically while improving efficiency



Intelligent Analytics Engine

- AI and Machine Learning algorithms to analyze vast data volumes and provide actionable insights
- Identify patterns and anomalies in real-time for proactive threat and incident mitigation



Superior User Experience and Collaboration

Workforce Application

- Sends notifications to field officers on case details, pending actions, fastest routes to incident sites, video feeds, etc.
- Update the details of an incident after resolution/appropriate actions, etc.



In-built Communication Box

- Allows users to easily and speedily communicate, share files, and other resources with each other within the app

3D Maps for Incredible Visualization

- Creates a highly immersive experience for the users for a better understanding of the terrain and topography of the area of operation



Multiple Languages

- Localization, with the aim of going global

Public Announcement System

- Very handy for notifying citizens at large in emergencies, natural disasters, maintenance operations etc.



Citizen Engagement Portal and Mobile App with Social Media Integration

- Access citizen services
- Raise issues, requests, and complaints
- Get up-to-date information about city services, amenities, and important events
- Allows users to connect their social media accounts with the platform



NEC Mi-Command - The City Nerve Centre

Incident Management

- Provides situational awareness, co-ordination and communication between resources, personnel, and external agencies
- Timely and effective response minimizing the impact and saving lives and property

Use Cases

- Simultaneously locating discrepancies in facilities in multiple vicinities
- Rescuing incidents like traffic/rail accident, fire, etc.
- Monitoring critical servers, devices, and applications

SOP (Standard Operating Procedures) Management

- Enables operators to create, access and follow established procedures for various scenarios and incidents for a consistent and effective response
- Mandates all personnel to be trained and complaint

NEC Mi-Command supports Complex SOP workflows such as

- Multiple levels of approvals
- Multiple departments can be contacted by Phone, SMS or Email
- Complex workflows involving automated escalation paths
- Tasks re-assignment to different personnel across various departments

Geospatial Tracking

- Tracks the location and movement of assets, personnel, and vehicles on a map in real-time

Use Cases

Increases speed, accuracy and cost-effectiveness for a wide range of government priorities, including

- Crime prevention
- Emergency management
- Disaster recovery
- Social services
- Healthcare
- Transportation
- Urban planning
- Environmental initiatives
- Facility planning and management

Alert Management

- Receive and respond to alarms and alerts from various systems and sensors, such as fire alarms, intrusion detection, and video analytics

Use Cases

Alerts for suspicious activities:

- Abandoned Object
- Intrusion Detection
- Loitering and fight detection
- Vehicle over-speeding
- Environmental hazards
- Infrastructure failures

Device Management

- Monitor and manage devices, such as security cameras, access control systems, fire alarms, etc.
- Prevents device failure, reduces downtime, and improves system reliability and performance

Use Cases

- Connected sensors, lights, and meters to collect and analyze data
- Parking guidance via apps providing information about parking availability from sensors
- Monitoring of water supplies and waste disposal system via sensors able to detect leaks in the network

Live Video Feeds

- From security cameras and other video sources in real-time
- Provides situational awareness and helps operators quickly identify potential incidents or security breaches
- Drastically minimizes the response time, the most critical factor during safety and rescue

Use Cases

- Surveillance cameras assigned to checking public areas like malls, buildings with no human surveillance
- Detection of road congestion via on-board sensors in vehicles providing information about traffic bottlenecks

Live Dashboards

- Visual representation of real-time data from various systems and sensors, such as security cameras, access control systems, and fire alarms
- Quickly identify potential incidents and make informed decisions, with improved situational awareness and response times

Use Cases

- Street lights on and off depending on weather or traffic conditions
- Fire detection in buildings or outside areas using sensors directly connected to the emergency services
- Management of solar panels and their energy input into the distribution grid

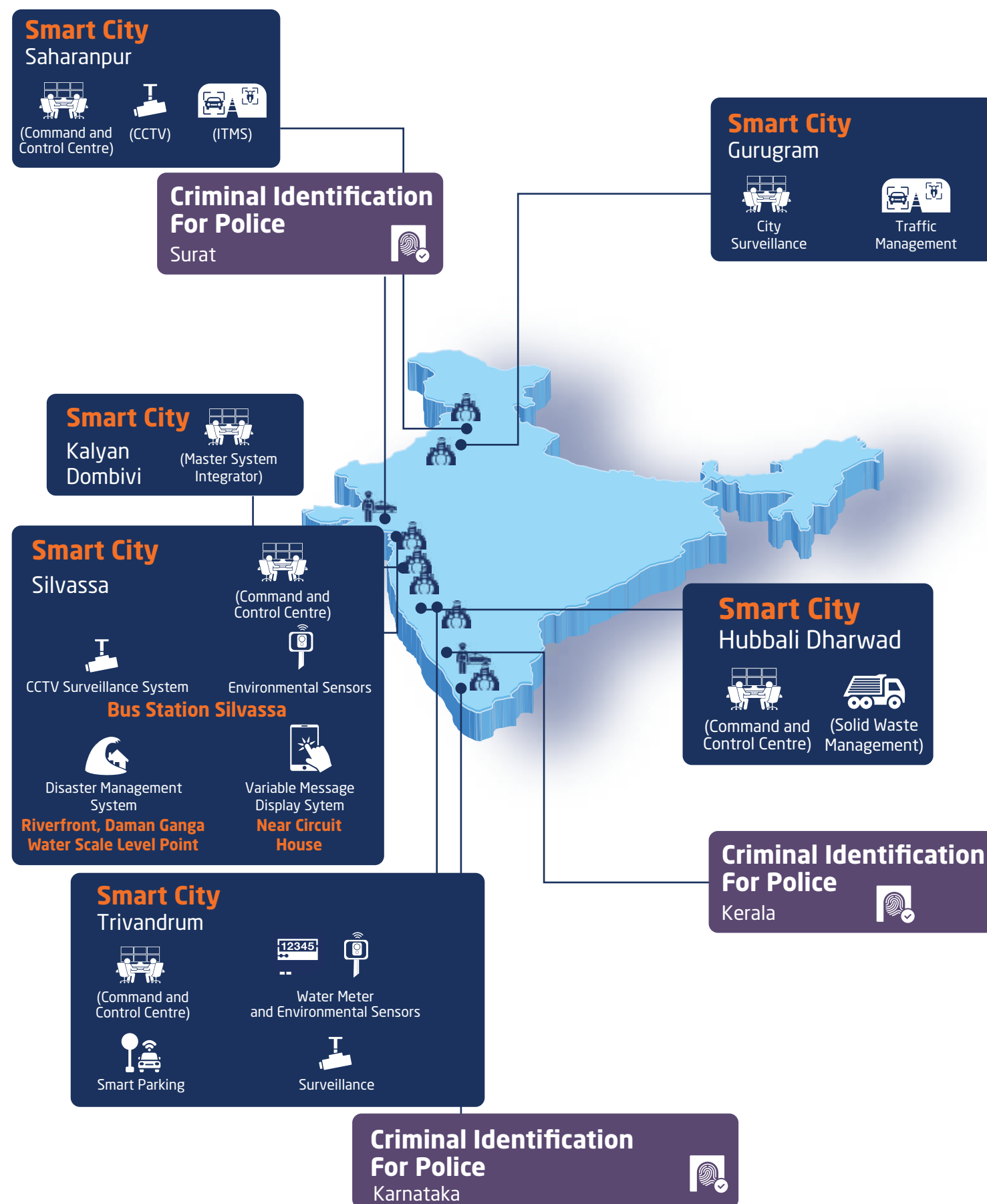
Analytics & Insights

- Analyzes and extracts insights from data collected from various systems and sensors using AI/ML
- Provides a deeper understanding of situations, trends and patterns

Use Cases

- Effective planning for resource allocation, infrastructure expansion, and citizen welfare initiatives
- Crime reduction and safety measures with real-time data & analytics

NEC Mi-Command And Smart City Deployments



NEC Mi-Command - Essential To Your Smart City Strategy



DISASTER MANAGEMENT

During natural disasters, emergencies and crisis situations, NEC Mi-Command plays a critical role in assisting the rescue operations, minimizing damage, and saving lives.

It integrates various emergency services like police, fire departments, medical services, and disaster management agencies. By bringing these services together, it enables faster response times and better coordination during emergencies, which can save lives and minimize damages.

It further aggregates data from various sources such as traffic cameras, weather stations, and social media, etc. to provide real-time updates to the responders from these emergency services. This situational awareness ensures that all responders have access to the same information, reducing confusion and ensuring that everyone is working towards the same goals.

By gathering, analyzing, and disseminating real-time information to decision-makers and first responders, it provides comprehensive situational awareness, aids resource allocation, and strengthens crisis communication among rescue teams for effective crisis management.

How it works

NEC Mi-Command provides secure access to data using data APIs. This allows authorized parties to access and use the data collected for optimal and informed decision-making purposes. Data APIs ensure that only authorized parties have access to sensitive information, protecting the privacy and security of individuals and organizations.

NEC Mi-Command can be utilized in various scenarios to address specific needs and challenges of the city.

These use cases highlight the versatility and effectiveness of NEC Mi-Command in addressing a wide range of urban challenges. By integrating data, technology, and smart city services, NEC Mi-Command contributes to smarter, safer, and more efficient urban environments.

TRAFFIC MANAGEMENT

NEC Mi-Command play a vital role in monitoring and managing urban traffic. By integrating data from traffic sensors, surveillance cameras, and intelligent transportation systems, it enables authorities to optimize traffic flow, detect congestion, and respond to accidents or road hazards promptly.



INFRASTRUCTURE AND PUBLIC SPACES

NEC Mi-Command improves pro-active public safety measures and incident management at important public facilities by proactive monitoring, real-time incident detection, and crowd behaviour analytics. Rapid response to potential threats, ensures a secure environment for visitors, workers, and the property.



UTILITIES MANAGEMENT

NEC Mi-Command assists in managing critical and essential utilities by monitoring consumption, detecting faults, and optimizing resource allocation.



ENVIRONMENTAL MONITORING

NEC Mi-Command can integrate data from air quality sensors, weather stations, and pollution monitoring systems to track environmental conditions, identify pollution sources, and support initiatives for environmental sustainability.



Orchestrating a brighter world

NEC

Why NEC

NEC has deep expertise in the design and implementation of public safety solutions that leverage the most innovative technologies. We work by analyzing the state of citywide safety and convenience technologies being used currently, to identify the bottlenecks that need to be addressed to resolve issues faced by both citizens and the government operating agencies. Our mission is to streamline the smart city services, minimize threats & amplify user experience.

1899
Established

160+
Countries

106K
Employees

49K+
Patents



Mi-Command

Single, Unified Platform for
Efficient City Operations

For further queries & demonstration, please contact

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