

Orchestrating a brighter world

**NEC**

# BUILDING SAFER, SMARTER, AND EFFICIENT CITIES





# PUBLIC SAFETY IS THE CORE OF A SMART CITY

According to the latest United Nations estimates, the world will be home to 9.7 billion people by 2050. More than half of the growth will come from only nine countries. Balancing the need for water-tight security and optimum convenience is the key to successfully navigating the disruptive waves of torrent technological advances and rapid urbanization, the sweeping impact they have on our lives, and the risks and threats they pose. Governments across the world are moving towards innovative integrated digital technologies and related solutions to enhance citizens' and business safety and strengthen law enforcement.

The smart city market is in hyper-growth.  
**\$189 bn**  
 will be spent worldwide on smart cities initiatives by 2023.\*

## NEC SMART CITY SOLUTIONS

Building safe cities for all

NEC has been among the leaders in creating smart and safe cities around the world. Our efforts are underpinned by deep domain knowledge and a range of advanced technologies including the Internet of Things (IoT), Artificial Intelligence (AI), video analytics, and biometrics solutions such as fingerprint, face, and iris recognition, combined with our exceptional network capabilities.

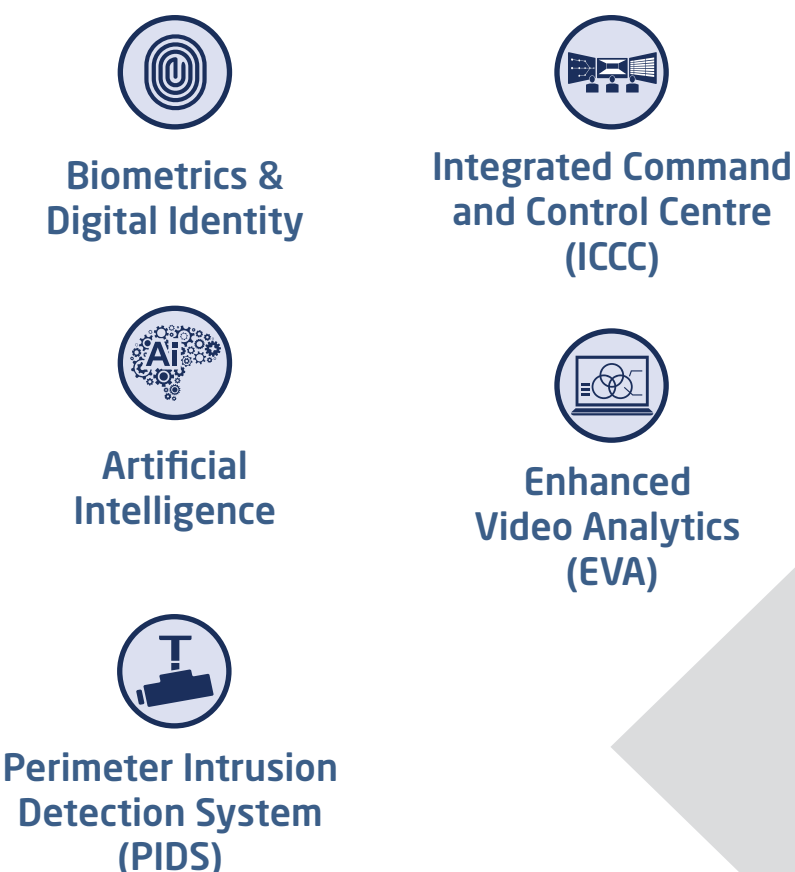


# SAFE CITY AND SMART CITY

NEC through its innovative technologies is committed to resolve the rising public safety challenges across the world, build more fulfilling urban lifestyles, and realise fair and efficient societies inclined towards their best potential.

<b>Smart Transport</b> 	<b>City-wide Wi-Fi</b> 	<b>ERP &amp; eGov</b> 	<b>Smart Pole, Lighting</b> 
<b>Smart Waste / Water Management</b> 	<b>Emergency Response System</b> 	<b>Common Payment Card</b> 	<b>Smart Meters and Sensors</b> 
<b>Integrated CCC</b> 	<b>Security &amp; Surveillance</b> 	<b>Fiber Network &amp; Data Centre</b> 	<b>Smart Parking</b> 

## Key Technologies





# ENABLING GOVERNMENT PUBLIC SAFETY INITIATIVES

NEC has been long partnering with the Government at all levels - regional, state and national in strategizing and implementing smart city projects countrywide, mainly focussed on

- Building people-friendly digital government infrastructure
- Deploy smart and safe cities for citizens; forefronted key smart city projects in several Indian cities
- Securing critical infrastructure and public use infrastructure
- Empower citizens through citizen IDs

## Government of India uses NEC Biometric Identification System to manage the Aadhaar Program



- Building people-friendly digital government infrastructure
- The world's largest biometric national ID digital platform to authenticate citizens anytime, anywhere
- Multimodal biometrics system provided by NEC - Fingerprint, Face, Iris

Providing biometric services since project inception; Enrolled database of

# 1.3 billion

(as per July 2021)



# LAW ENFORCEMENT & BORDER CONTROL

With threats on the rise and criminals growing more sophisticated by the day, NEC enables law enforcement agencies to stay one step ahead. Through advanced technology, it arms the police, border security forces, and other related agencies with powerful tools to predict behavior that proactively mitigates threats and strong analytical tools that retroactively solve crimes.

Increasing incidents of systematized crime have become a key challenge for law enforcement agencies. Police departments are leveraging the use of technology to optimize their investigation methods. NEC's suite of multi-biometric technologies including fingerprint (AFIS), face recognition, iris, etc. help law enforcement agencies identify suspects out of millions of records, quickly and accurately.

Additionally, NEC's video analytics, biometrics, and surveillance solutions ensure high-quality ambient security. Our best-in-class watch-list screening, behavior detection, and crowd-level estimation solutions address all security pain points.

For over

# 50 years

NEC's world-renowned Identity Matching Solutions have supported forensic, investigative, and front-line policing operations.



## AVIATION

With more people flying nowadays and increasing security threats, passengers are required to go through multiple checks and screening at airports, resulting in a cumbersome and poor travel experience. NEC solutions enable Airport Authorities, Airlines and Airport agencies to enhance passenger safety and comfort, via end-end touchless access at airports. It utilizes superior biometrics and travel information as a single identity record and utilizes it as a token to identify passengers across all boarding touchpoints without repetitive identity checks.

This biometric record is checked against the passenger's travel documents and a secure single token is created. Then, at every touchpoint in the journey - whether it's during self-bag-drop, at border control or while boarding the aircraft, passengers can simply walk through with their biometric ID.

## Seamless, Contactless, Comfortable Airport Experience from Gate to Boarding



NEC India installed biometric boarding systems across

# 4 major airports

of the country under the **DigiYatra program**

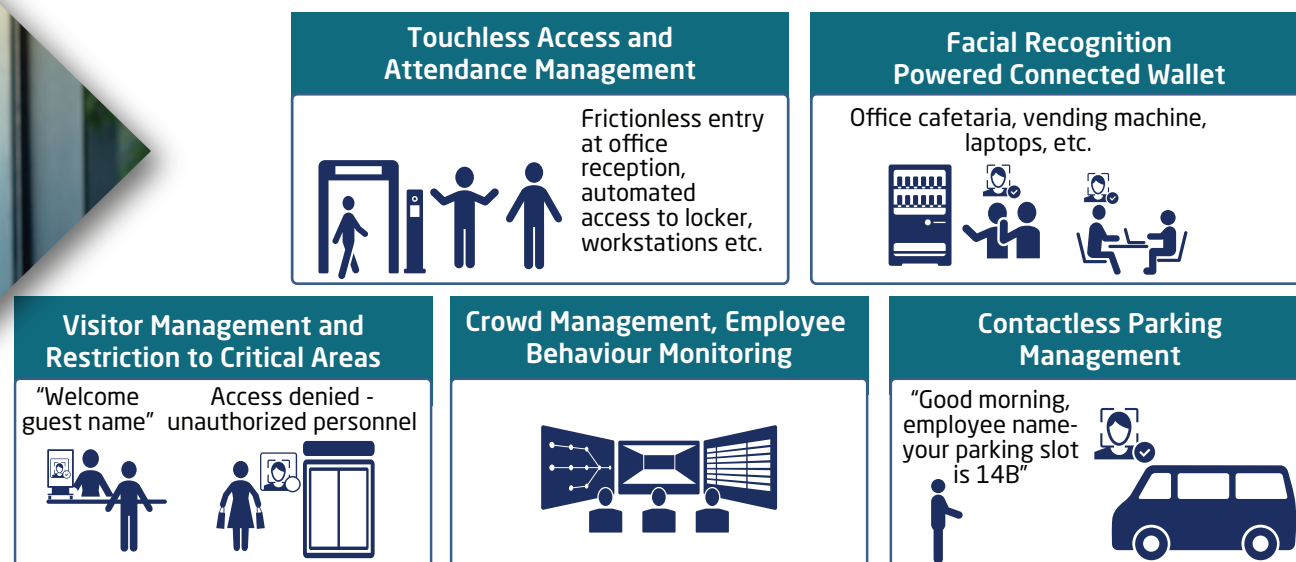
NEC India installed **200+** e-gates for AAI at **21 major airports** of the country



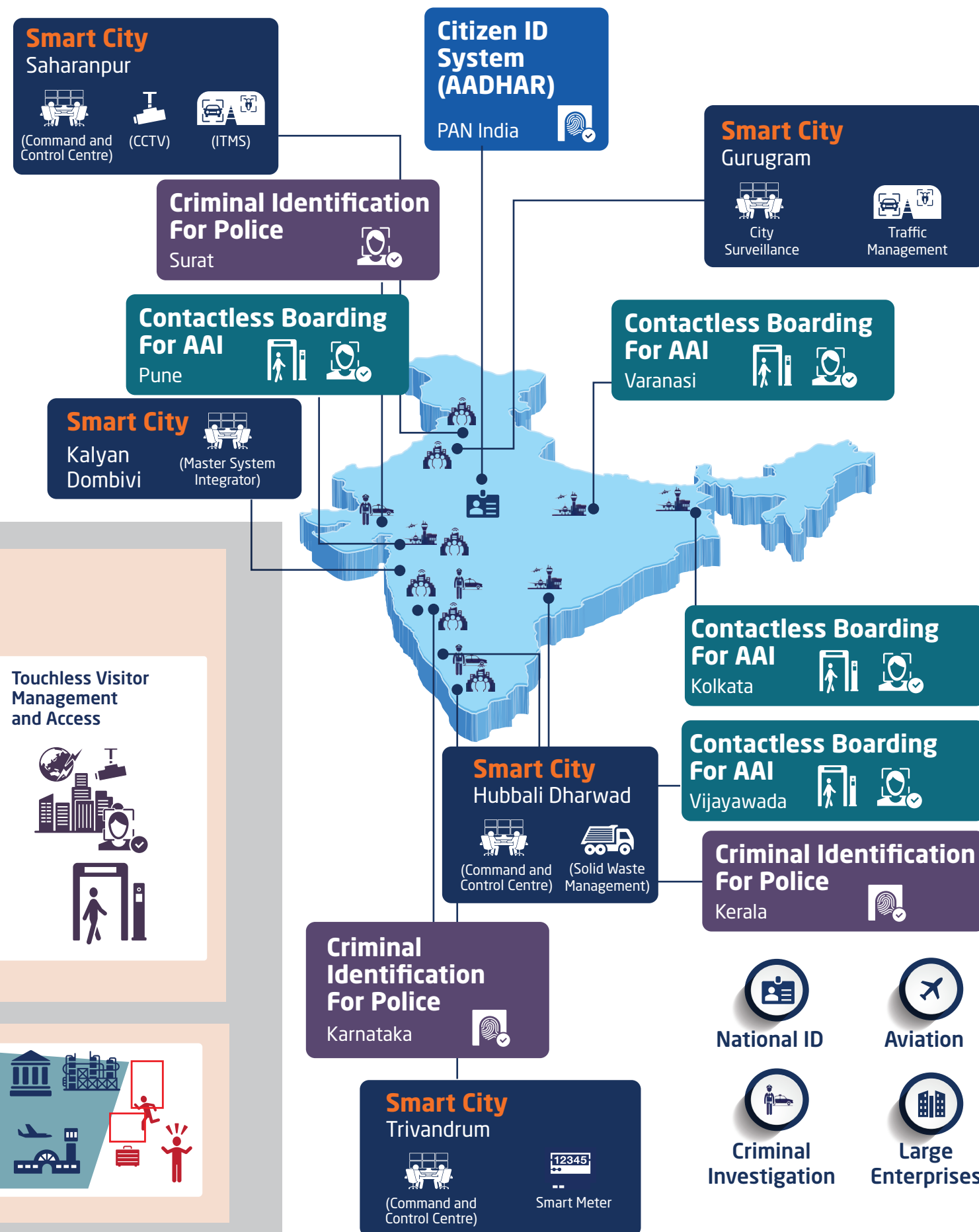
# LARGE ENTERPRISES

Unique Identification is equally critical for large enterprises as it not only reinforces the security of the organization but also offers a comfortable customer experience. NEC being the leader in biometrics, has installed authentication systems across enterprises guaranteeing safety and ease.

Public Sector Undertakings (PSUs), hospitals, banks, retailers, hospitality, education, utilities, manufacturing units etc.

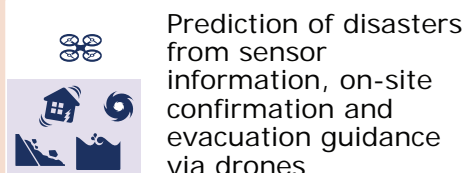


# NEC DEPLOYMENTS ACROSS INDIA

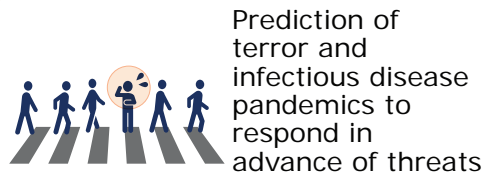


## Overview of NEC Aiming for Society

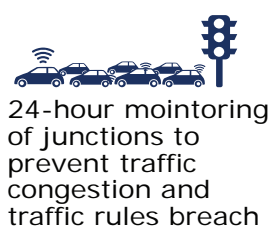
### Response to Natural Disasters



### Response and Eradication of Terrorism and Infectious Disease



### Intelligent Traffic Management

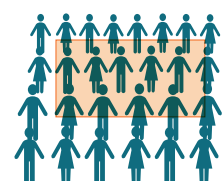


### Smart Operation of Social Infrastructure



## Crowd Behaviour Analysis

Used in urban planning or for ticket barriers and pedestrian areas



### Touchless Visitor Management and Access



## Prevention of Accidents/ Crime around Platforms



## Safeguarding Critical Facilities





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## 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

**109K+**  
Employees

**49K+**  
Patents



For further queries & demonstration, please contact

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