

The 5th ASEAN–Japan Smart Cities Network High Level Meeting in Tsukuba

# **NEC Global Smart City Experience, Solution and Case Study**

26<sup>th</sup> October 2023

# NEC at a Glance

**284**  
group companies  
doing business in  
**50+** countries



Established

**1899**



Revenue

Over  
**¥3,313.0B**

in annual revenue  
Fiscal year ended Mar. 31, 2023



Employees

**118,527**

As of Mar. 31, 2023



Patents

**45,000**



AI  
Researchers

**1800**



Tech Leadership

World  
**No. 1**



Face  
Recognition



Iris  
Recognition



Fingerprint  
Recognition



Rate of contribution  
Approx

**5.2 times**  
to CO2 emission reductions  
across supply chain



**A List**

Inclusion in the CDP  
Climate Change and  
Water A List

# NEC Global Smart City Experience

Society DX

## Santander, Spain

- Gavage collection
- Data platform



## Cordoba, Spain

- Water/energy management
- Waste collection
- River level monitoring



## Lisbon, Portugal

- Integrated City Operation Centre



## Tigre, Argentina

- Public safety



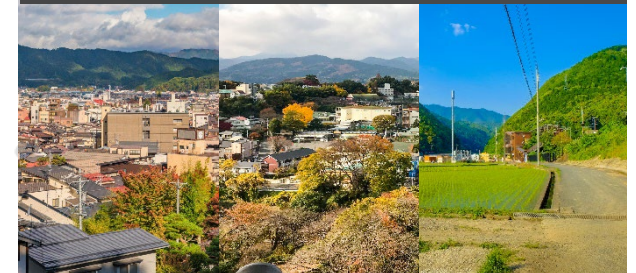
## India 15 cities

- Public safety
- National ID
- Contactless Boarding for AAI
- Bus Rapid Transport
- Traffic Management
- Solid Waste Management



## Japan 41cities

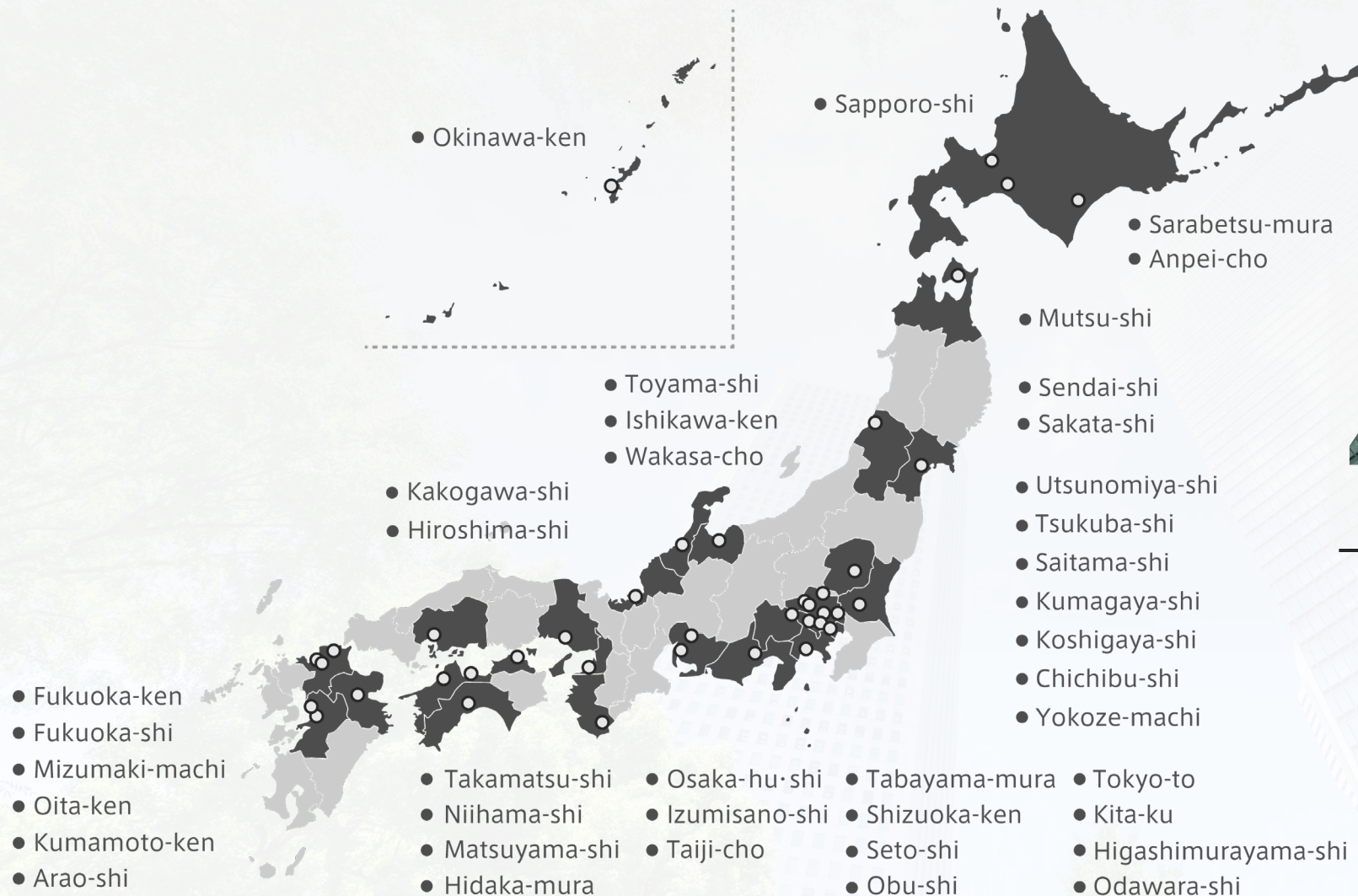
- Child Safety Monitoring
- Disaster mitigation
- Tourism service
- City information services



As of end-August 2023. Including in-progress projects



# Smart Cities in Japan supported by NEC

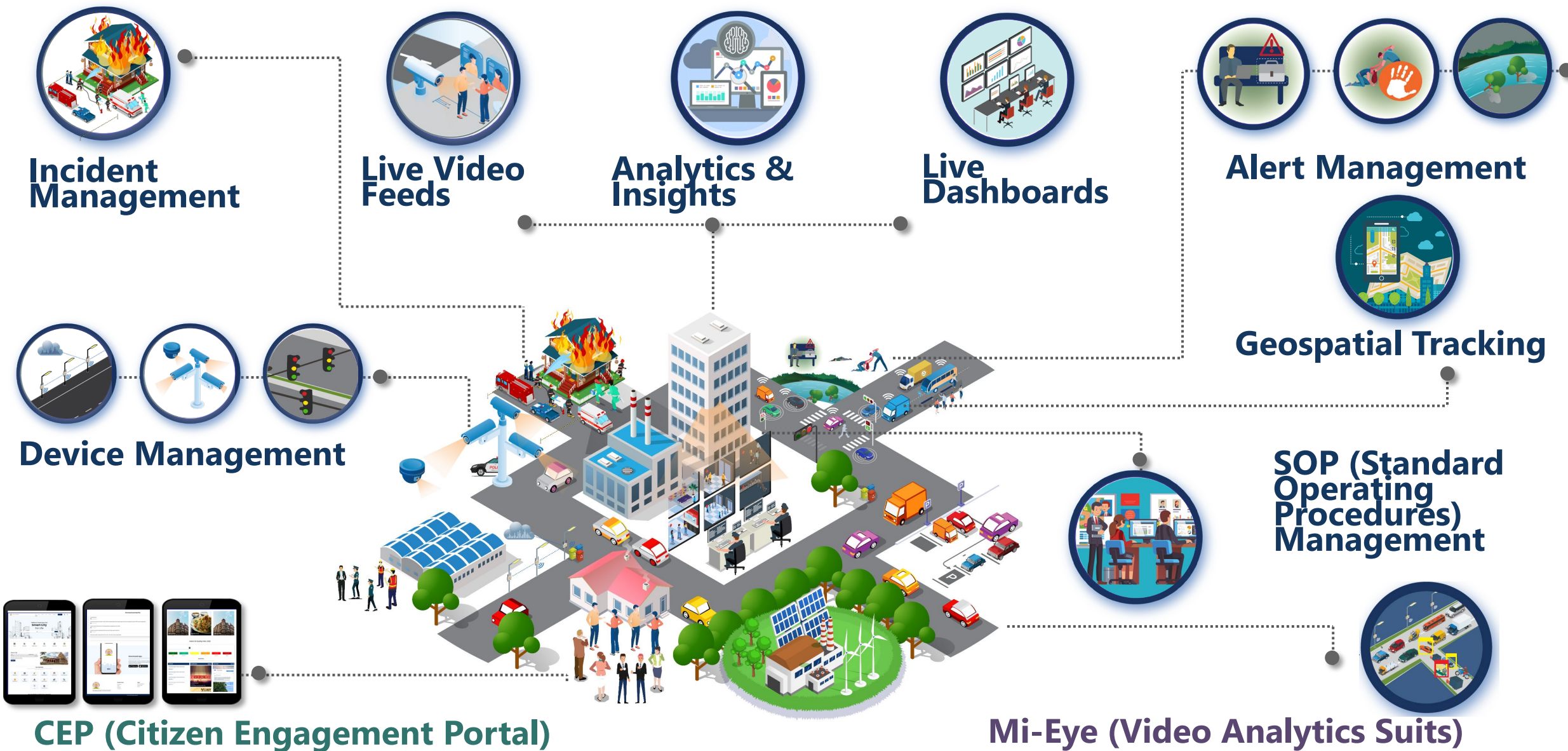


41\*  
local  
governments

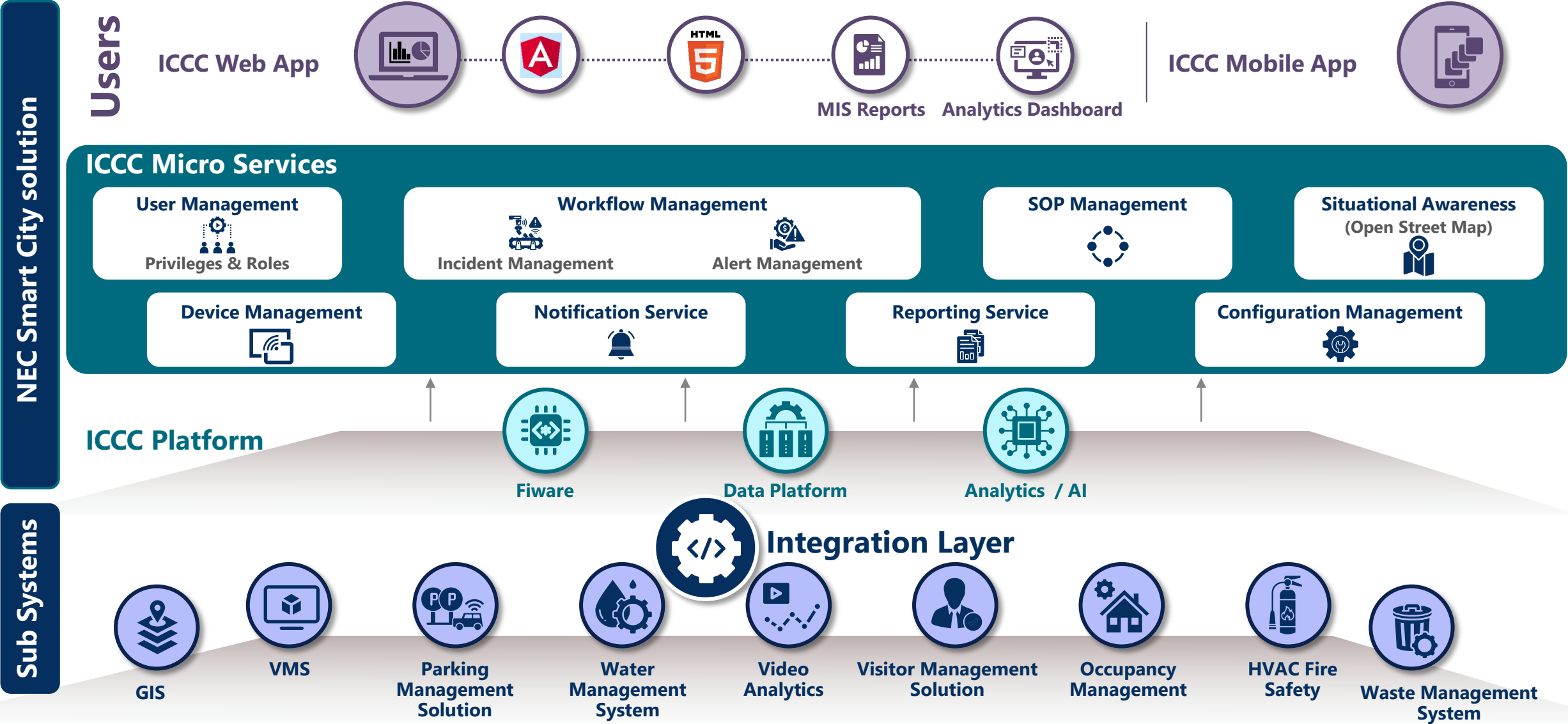
\*As of end-August 2023.  
Including in-progress projects



# NEC Smart City Solution Overview – ICCC, CEP, Mi-Eye



# NEC Smart City Technology Overview



# Case Study

Smart City,  
**Lisbon**

Enhanced city operations through collaborative and **Intelligent Management Platform** integration with orchestrating **200+** data sets from **140+** external systems including **16,000** sensors

## Key Challenges

- **Information spread** across applications
- **Limited collaboration** between institutions
- **Reactive and sporadic** city management

## NEC Solution

- Implementation of the **Lisbon Intelligent Management Platform**
- Collects, stores and analyzes data sources via AI, IoT and open APIs
- Open architecture platform

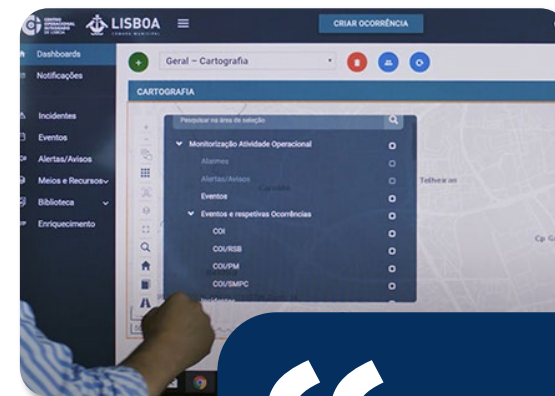
## Impact Delivered

**Efficient Management**  
of the city operations

**Improved Air Quality**

**Reduced Traffic Congestion**

**Improved emergency response times**



“ NEC helped Lisbon Council aggregate, manage and optimize data from internal information systems and 30+ public and private institutions to improve transport safety, resource management and sustainability.

**NEC Solutions Smart City, Region Portugal**

### Links

[https://www.nec.com/en/case/lisbon\\_council/index.html](https://www.nec.com/en/case/lisbon_council/index.html)  
[https://www.youtube.com/watch?v=fEcy8q\\_642s](https://www.youtube.com/watch?v=fEcy8q_642s)



# Case Study

## Smart City, Córdoba Province

City OS and Digital Government systems for  
**77** local governments in the region for realization  
of digital transformation in Cordoba Province



### Key Challenge

- Sustainable and efficient **Digital Transformation**
- Become a **truly sustainable city** to cope with rapid urbanization for the future is a common long-term goal for each municipality.



### NEC Solution

- **Multi-tenant Province Platform** based on **FIWARE**, which collects real-time data from around the city through various sensors as well as cross data analysis leveraging **AI technology**.
- Vertical solutions such as **Waste Management, Energy/ Water management, Incident Management System**, etc.



### Impact Delivered



Digital transformation for municipalities of Cordoba



Comprehensive and holistic approach to the city's operational challenges



Enhancement of city operations and services for residents



NEC helped Cordoba Province by providing Cloud City Operation Centre" (CCOC) as a Smart City platform which is capable of multi-tenancy for 77 local governments as well as intelligent AI analytics for enhancement of city operations and services for residents in the various vertical areas.

**NEC Solutions Smart City,  
Region Spain**

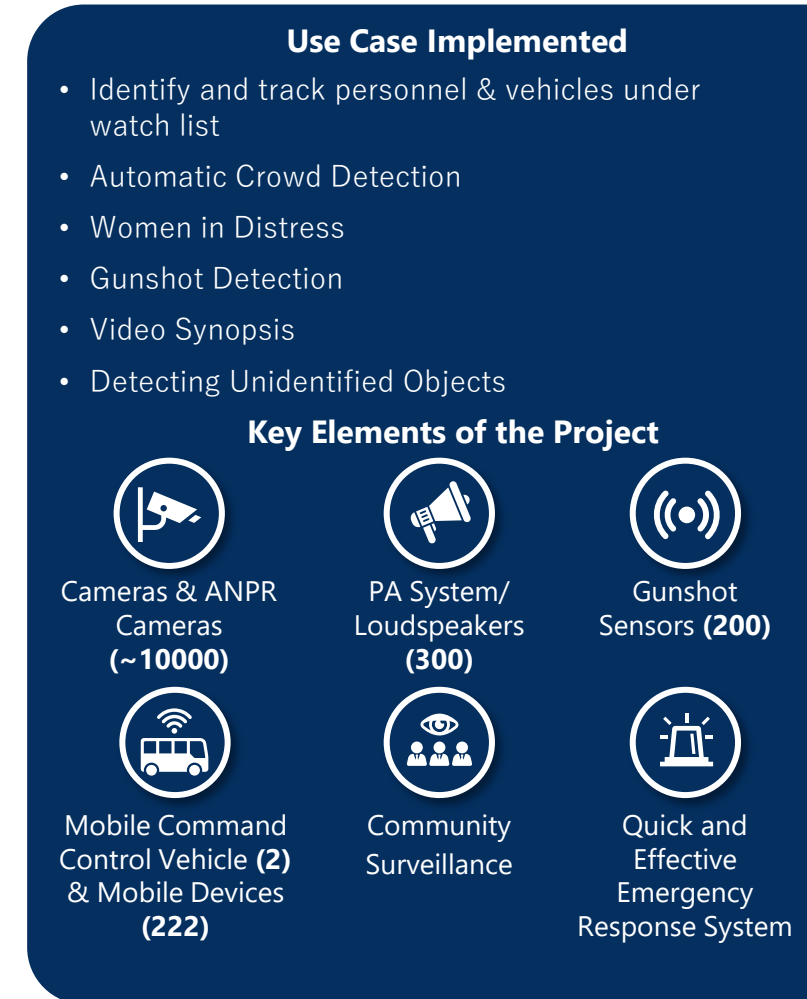
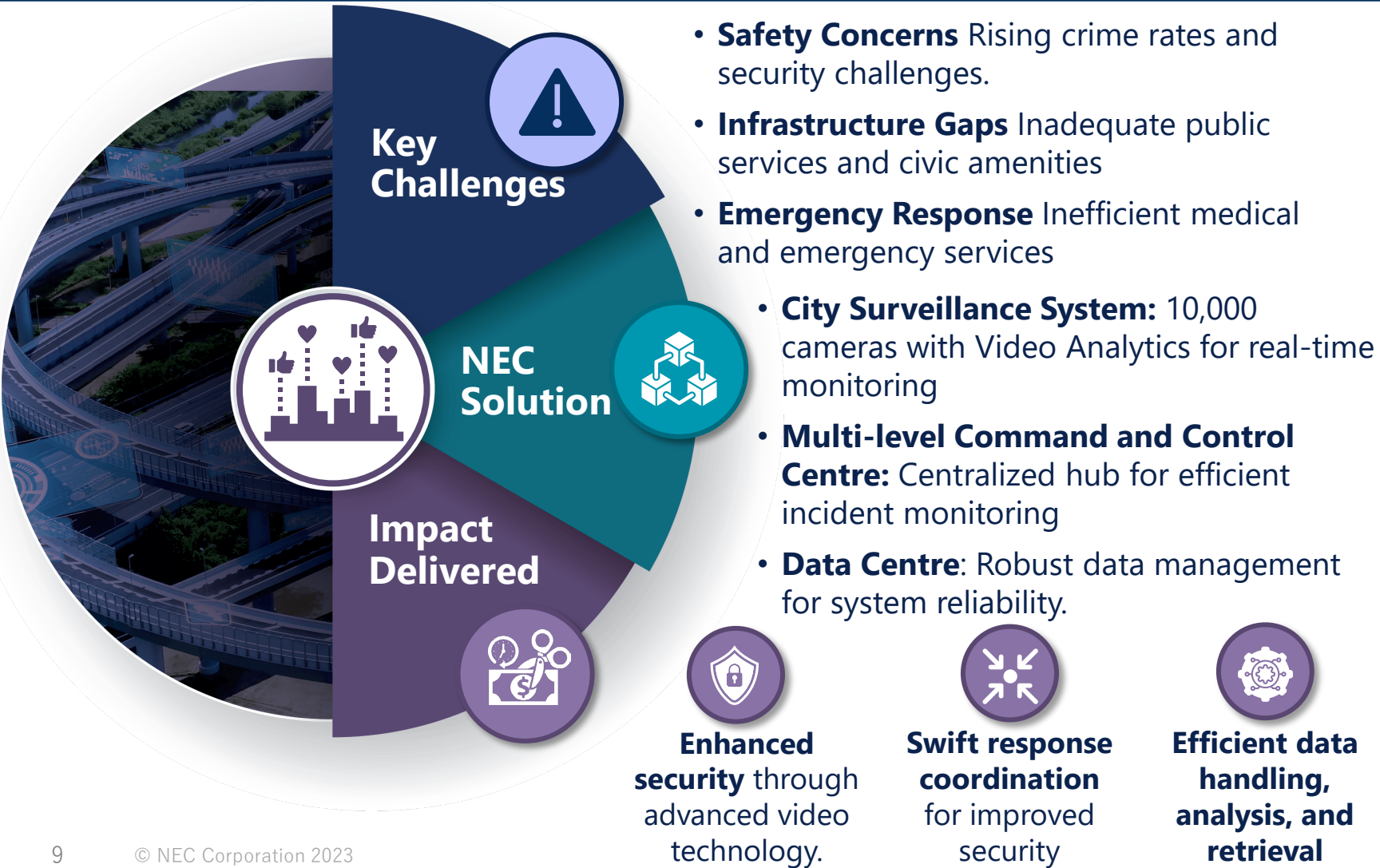
#### Links

[https://www.nec.com/en/press/201907/global\\_20190725\\_03.html](https://www.nec.com/en/press/201907/global_20190725_03.html)



# Case Study

Smart City, **Delhi** | Transforming Delhi into a safer, smarter city with **10000 camera** City Surveillance System multi-level command center and enhanced public safety & security solutions.



# Case Study

## Smart City, Silvassa

### Smart City Project with ICCC in Silvassa

One of the most important manufacturing hubs in Western India.



- **Improve convenience** in accessing public services and civic amenities,
- Supporting efficient **traffic control and public safety**
- Strengthening the city's **preparedness for natural disasters**

- **Integrated Command and Control Centre**, which will bring civic amenities under a unified platform, accessible to residents of Silvassa through a mobile application
- **Big data and AI technology** such as video analysis will be utilized for safer and security



**Enhanced Security Infrastructure** for ensuring safety and security



**Enhancement of Resident's Access to Public Services and Utilities**



The Silvassa smart city project facilitates convenience in accessing public services and civic amenities, supporting efficient traffic control and management, public safety, and strengthening the city's preparedness for natural disasters.

**NEC Solutions Smart City, Region India**

#### Links

[NEC Corporation India selected by the Government of Silvassa for its Smart City Project | NEC](#)

\Orchestrating a brighter world

**NEC**