



Smart City Solution

About CymbloT

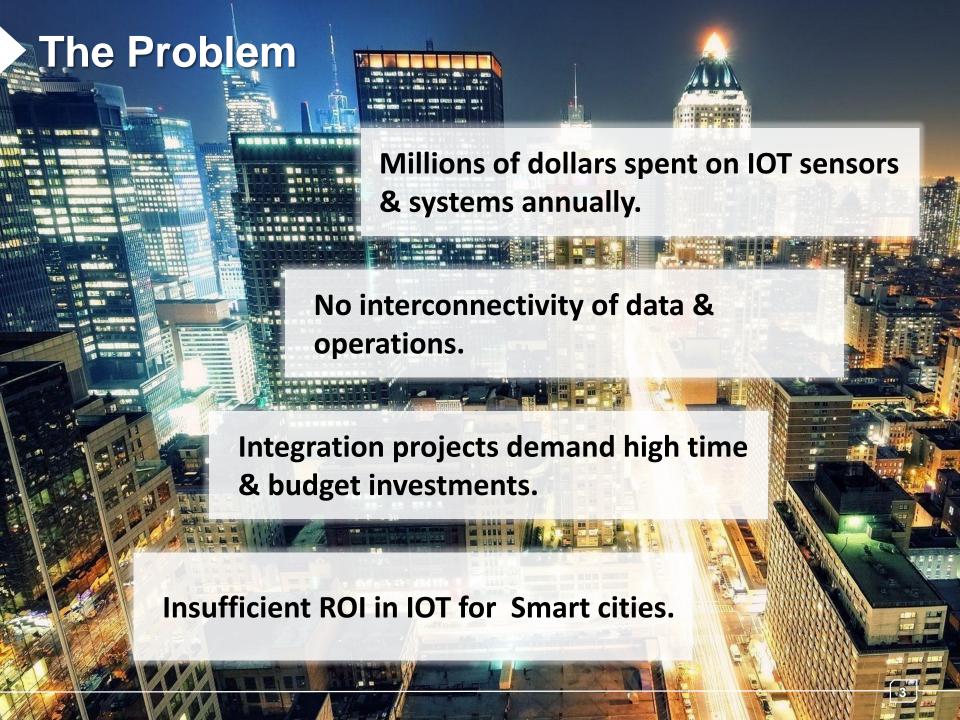
The Challenge

The CymbloT Smart City

Operational Scenarios

Why CymbloT?





The CymbloT Solution



An off-the-shelf IOT management product that provides cities and enterprises with rapid integration of new & existing sensors and systems for efficiency, security – and rapid ROI.

The CymbloT Offering



Product, not Program

Market-available, off-the -shelf product with over 50 IoT use cases.



Immediate ROI

Immediate ROI for cities and enterprises via integration of existing systems and sensors within 14 days



Flexible

Flexible integration engine to support any sensor and system:

- 70+ formats supported
- Up to 14 days for deployment of new format



Tested & Proven

Scalable & Robust architecture supporting any kind of deployment- Cloud & on premise.



CymbloT C&C Core Features

Maps

Operational GIS dynamic navigation maps.



Advanced VMS

Internal VMS and 3rd party video support.

Architecture

Hybrid cloud and on premise deployments.

Scalability

Endless connectivity with standard COTS HW.



Analytics

Video, Audio & Data Analytics turn data to triggers.



BI Data Fusion

Real-time data & operational fusion of all systems.



Automation

Flexible process automation wizards.



Integrate any 3rd party element.



On the fly UI design per need.





Reporting & Task Management Module for Cross-system Queries





Support for Proprietary VMS & Internal Video Analytics

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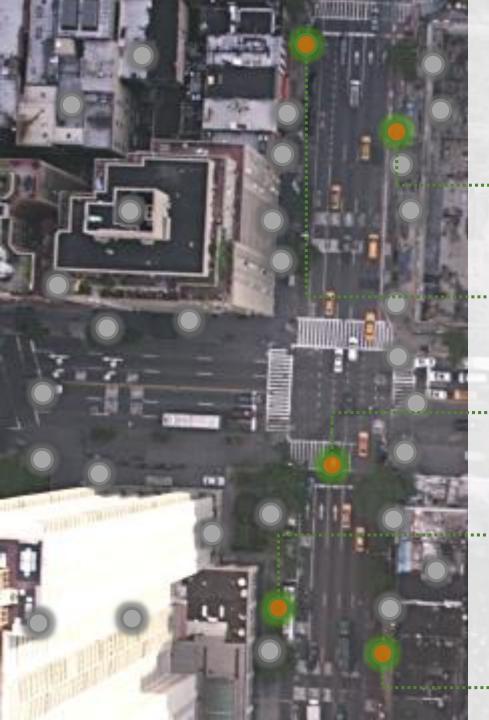




CymbloT Smart City

Smart cities have a number of dedicated sensor networks, deployed throughout the urban environment:

Transportation Sensors	0
Security Sensors	•
Environmental Sensors	•
Crowd Management	•
Emergency Response	•
Smart Lighting	0



Transportation Sensors



CCTV Cameras

- Track vehicles
- Track commuters
- · Video content analysis
- ...more



ANPR Sensors

- Track vehicles
- · Identify vehicles
- Manage traffic
- ...more



Smart Signs

- Update routes
- Update schedule
- Crowd control
- ...more



Bus GPS

- Track location
- Plan routes
- Send updates
- ...more



Dedicated App

- · Plan routes
- Track public transport
- Receive updates
- ...more



Security Sensors



Video Analytics

- Face Recognition
- Identify vehicles
- Manage traffic
- ...more



Crowd Meters

- Track crowds
- Identify riot
- Analyze actions
- ...more



Panic Button

- Emergency alert
- Call responders
- Emergency information
- · ...more



Stoplight Control

- · Vehicle management
- Traffic management
- Crowd control
- · ...more



CCTV Cameras

- Automated event recognition
- Track vehicles
- Track commuters
- Identify crowds



Environmental Sensors



CO² Sensors

- CO² levels
- CO² location
- · ...more



Water Sensors

- Water levels
- Water purity
- Usage trends
- ...more



Soil Sensor

- Soil contents
- Pollution levels
- Humidity levels
- · ...more



Pollution Sensor

- Pollution location
- Pollution levels
- ...more



Congestion Sensor

- Vehicles location
- Vehicles congestion
 Congestion pollution levels
- ...more



Crowd Management Sensors



CCTV Cameras

- Track vehicles
- Track commuters
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Crowd Meter

- Track crowds
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Smart Signs

- · Direct people
- · Direct vehicles
- Crowd control
- ...more



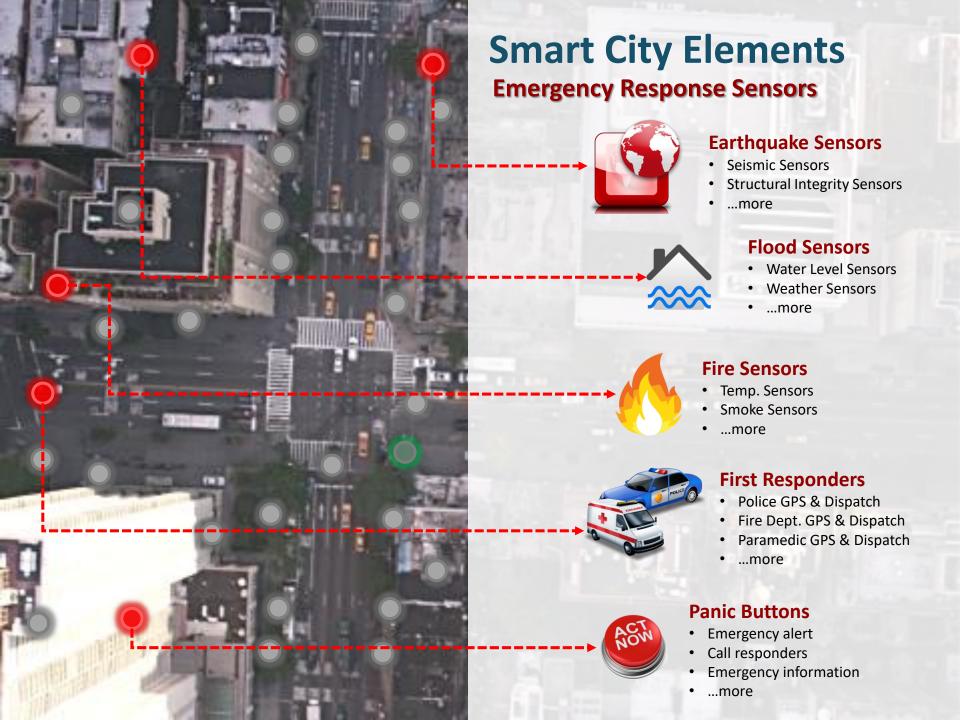
Video Content Analysis

- Identify people
- Identify vehicles
- · Video content analysis
- ...more



Access Control

- Control entry & exit
- Track people
- Trend analysis
- ...more

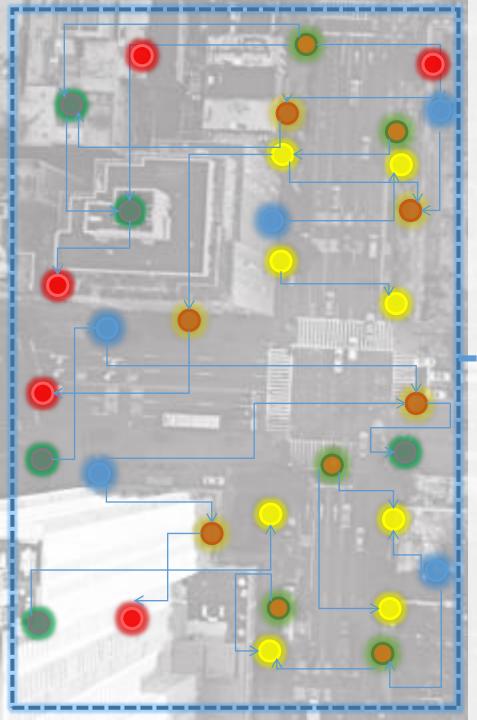




The Smart City

Smart Lighting

- 24/7 power supply
- City-wide WIFI infrastructure
- Independent power supply to multiple systems
- Between 30%-50% reduction in lighting expense
- Reduced air pollution
- Smart lighting plans according to input from other urban sensors



Smart City Elements C&C and Integration

- CymbioT integrates the data and operational capabilities of different sensors and systems.
- CymbloT integrates legacy systems into the Smart City, and upgrades legacy functionalities.
- CymbloT ensures "handover" between sensing elements (tracking a person across sensors), and operational systems (traffic monitoring & transportation management).
- CymbloT receives, integrates, analyzes, and releases information to users across the urban center – from municipal users, through service providers, to residents and visitors.







About CymbloT

The Challenge

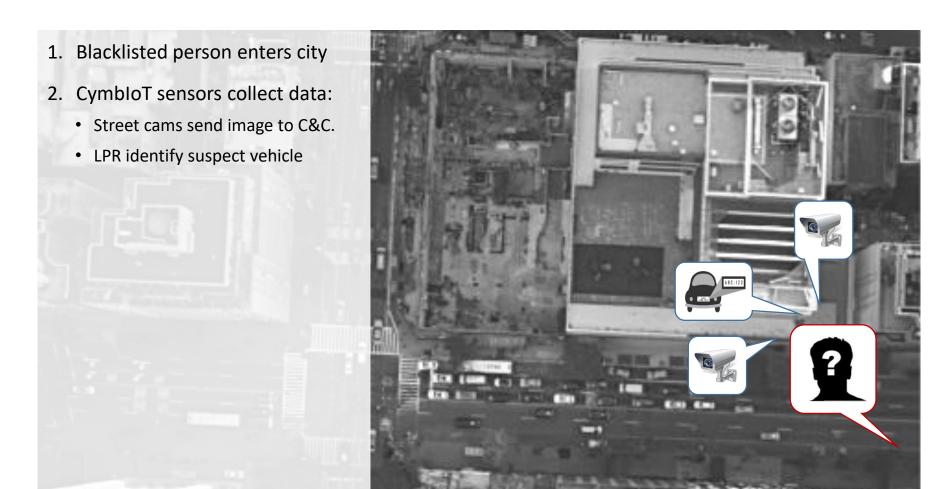
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Operational Scenarios

Why CymbloT?







- 1. Blacklisted person enters city
- 2. CymbIoT sensors collect data:
 - Street cams send image to C&C.
 - LPR identify suspect vehicle
- 3. Data is sent to CymbloT C&C
- 4. C&C analyzes data and implements processes:



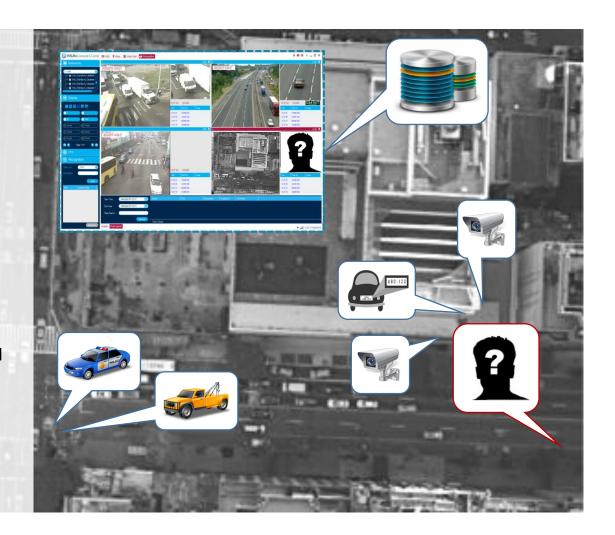
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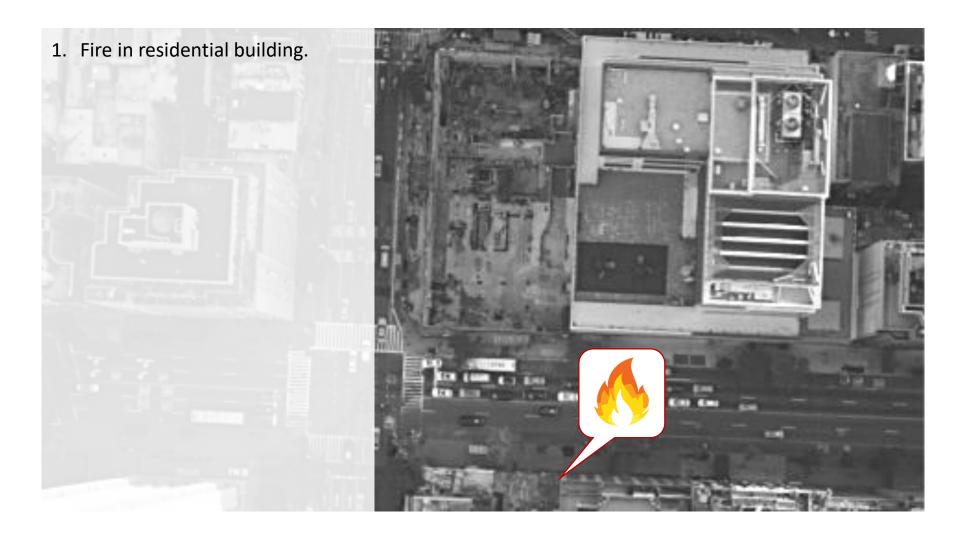


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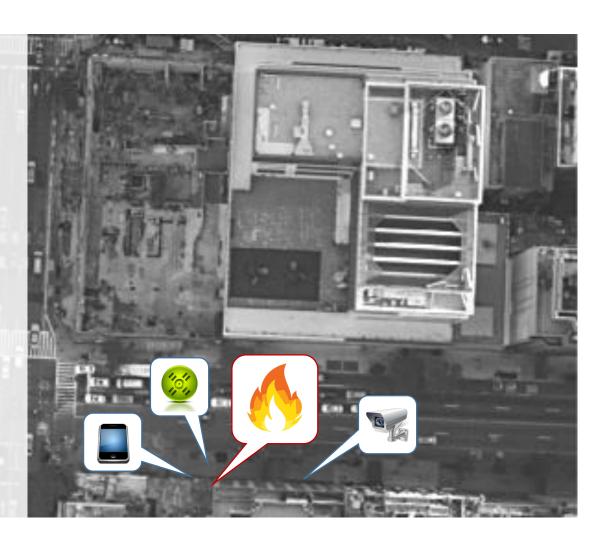


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 - National blacklist DB updated

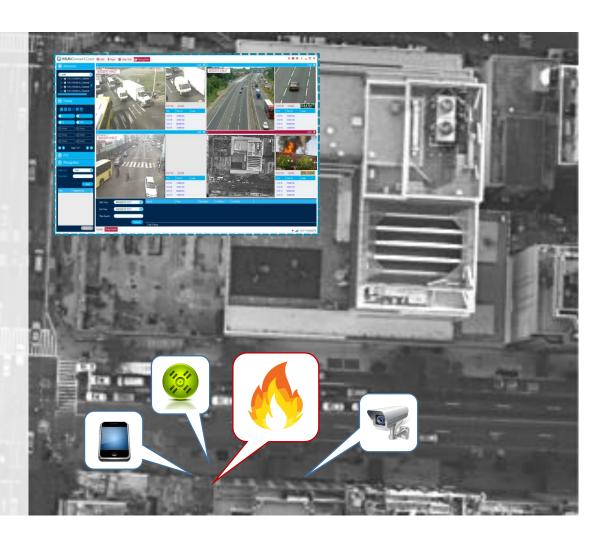




- 1. Fire in residential building.
- 2. CymbIoT sensors collect data:
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 - Residents update city C&C via dedicated CymbloT app.



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 - Sends residents SMS with alert & evacuation instructions

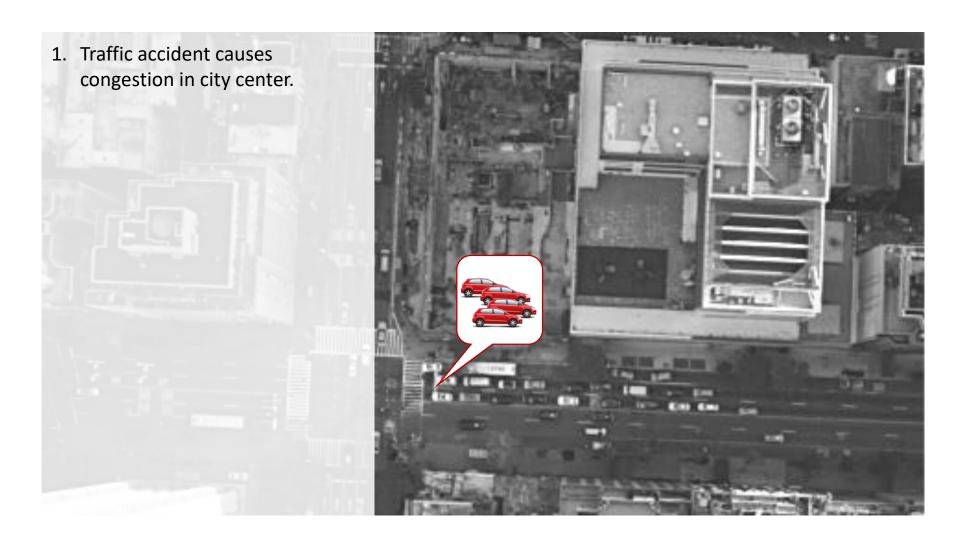


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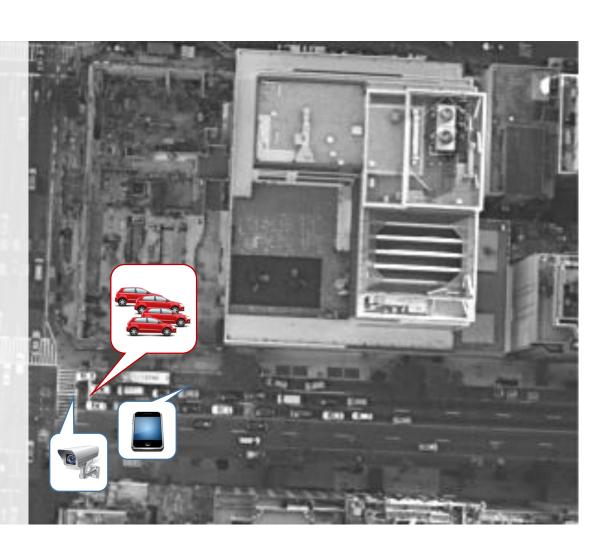


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 - Alerts Fire & Police Dept.
 - Updates area Smart Signs with evacuation notices.





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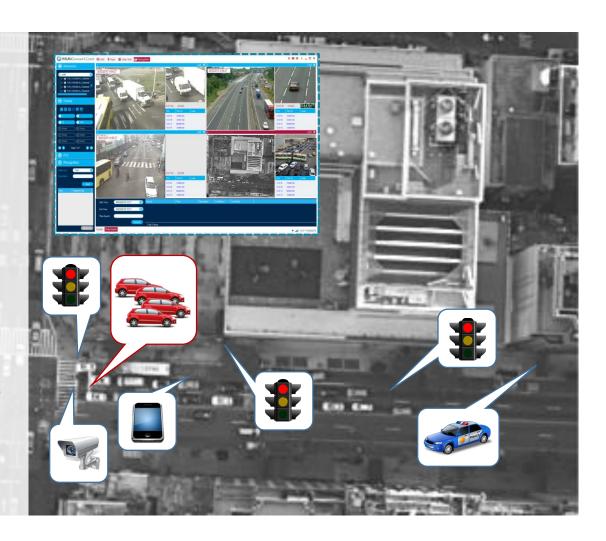
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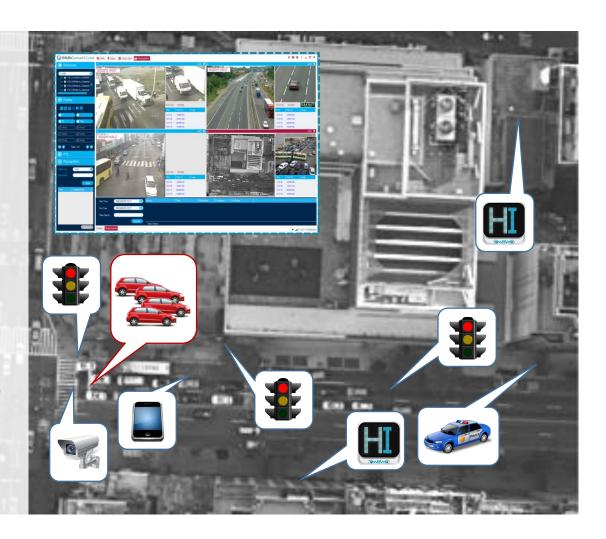
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- C&C analyzes data and implements processes:
 - Alerts traffic police



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 - Manages traffic lights in area to reduce congestion



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 - Manages traffic lights in area to reduce congestion
 - Updates Smart Signs in area to warn approaching commuters



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Why Choose CymbloT C&C?

A single Command & Control interface for all existing and new sensors, systems, and subsystems, providing:

Rapid, out-of-the box integration.



Immediate ROI from Day One



Interface between all data & systems.



UX for operational & executive levels.





Cymblo In Making IoT Smarter

Some Global References...





NETHERLANDS

Hyatt Hotel Chain Management & Security





MEXICO

Federal Jail Management & Security



JAMAICA

Kingston Safe City



NEPAL

International Airport Management & Security



NETHERLANDS

Private port Management & Security



SINGAPORE

Safe Transit Program



INDIA

Petrol Station
Management & Security



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