



NSR – Critical Asset Protection

October 2015


NSR | Delivering
Security
that Works

Who Are We?

NSR is a global provider of sophisticated, challenge-focused, integrated solutions that combine sensors and subsystems into unified security & management platforms.

We utilize our deep industry know-how to identify, design, and adapt cutting-edge technologies - delivering customized, cost-effective, operationally viable solutions to cities, organizations, and businesses throughout the globe.

Challenges of Protecting Assets

- 
- **Commuters**— commuters, visitors, etc.
 - **Operations**— maintaining operational capabilities while ensuring security & management.
 - **Stakeholders** - multiple security & management stakeholders
 - **Vulnerabilities, Risks & Threats** - vulnerable to all types of threats – from terrorism through transient crime to rioting
 - **Resources & Infrastructure** - civil, electronic, and comm. infrastructure



NSR's Critical Asset Solution

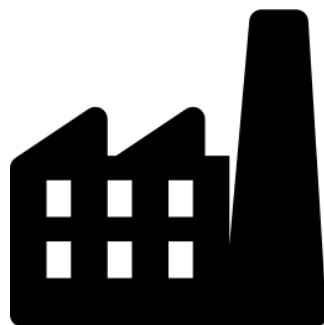
NSR provides **comprehensive, unified security & management platforms** that transform the way complex organizations are operated, **utilizing existing infrastructure for rapid time-to-air, network stability, and cost-effective deployment.**

Our platforms combine **green design** and a **deep understanding of the technological and operational challenges** of 21st century security.

All our solutions **are designed with the end-user in mind**, and are both **user-friendly and endlessly flexible & scalable.**



ENSURAC&C



Vehicle
Inspection



Surveillance



Access Control



Biometrics



Traffic



NSR's Critical Asset Solution

End-User Directed

Infinitely Scalable

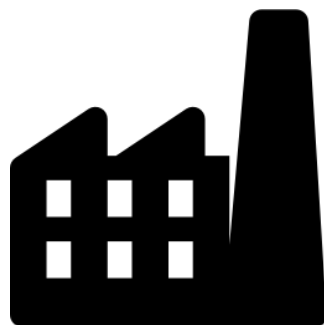
Single Provider

Mature & Tested

Designed for Size



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Traffic



Concept of Operations

NSR utilizes a wide variety of proprietary and COTS products and solutions, drawing on proven skills to design and integrate complex solution in multiple environments.



Video Comms.



Backscatter



CCTVs



Biometrics



Marine IFF



**Contraband
Detectors**



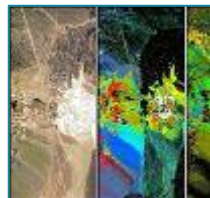
X-Rays



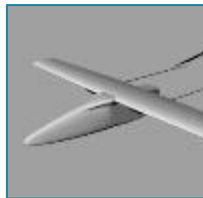
Metal Detectors



LR Thermal Imaging



Spectral Imaging



Tactical UAV



MSUs



Video Analytics



Smart Fences

Concept of Operations

Using the integrated capabilities of these sensors and systems, along with NSR's C&C data fusion and analysis capabilities, NSR's Critical Asset Solution offers a range of specific capabilities:

Facial recognition & blacklist maintenance

Smart gate protection

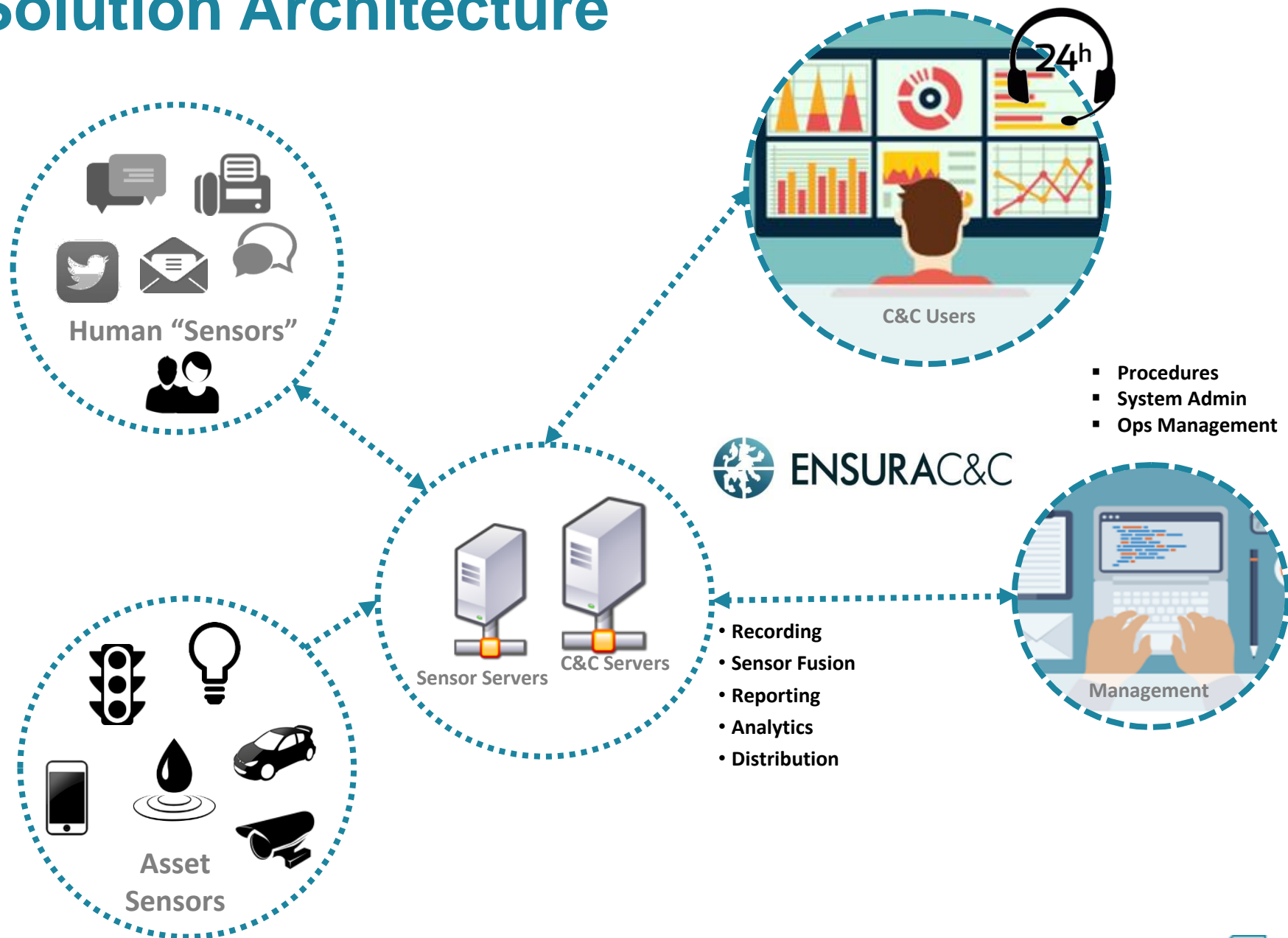
Maintenance of sterile & zero tolerance zones

Automatic emergency response procedures

Support for closing operational loop



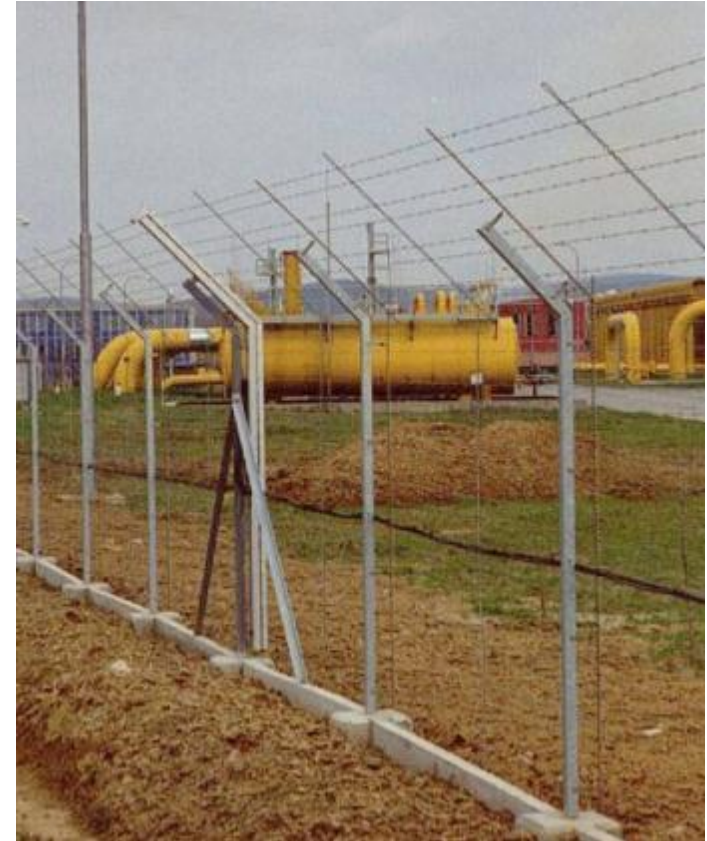
Solution Architecture



Solution Elements

NSR offers Perimeter Protection solutions for assets of all scopes and complexities – from government buildings, through water plants, to private residences.

We understand that no matter the specific perimeter and environment, the concept of perimeter protection applies to all sites and locations, and offer solutions that enable early and rapid detection, identification, and apprehension of approaching threats – customized to specific terrains and threats.

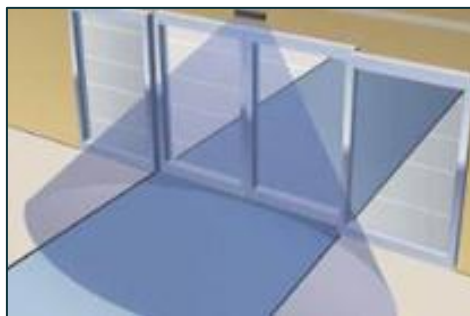


Perimeter

Solution Elements



CCTV Cameras



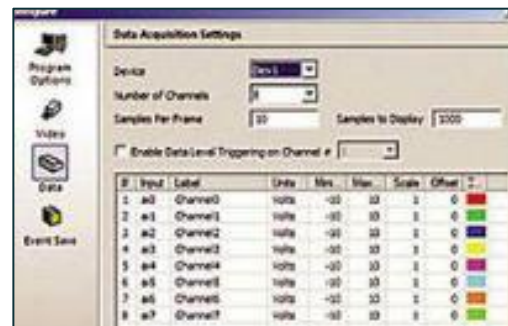
Motion Detectors



Smart Obstacles & Blocks



Smart Fences

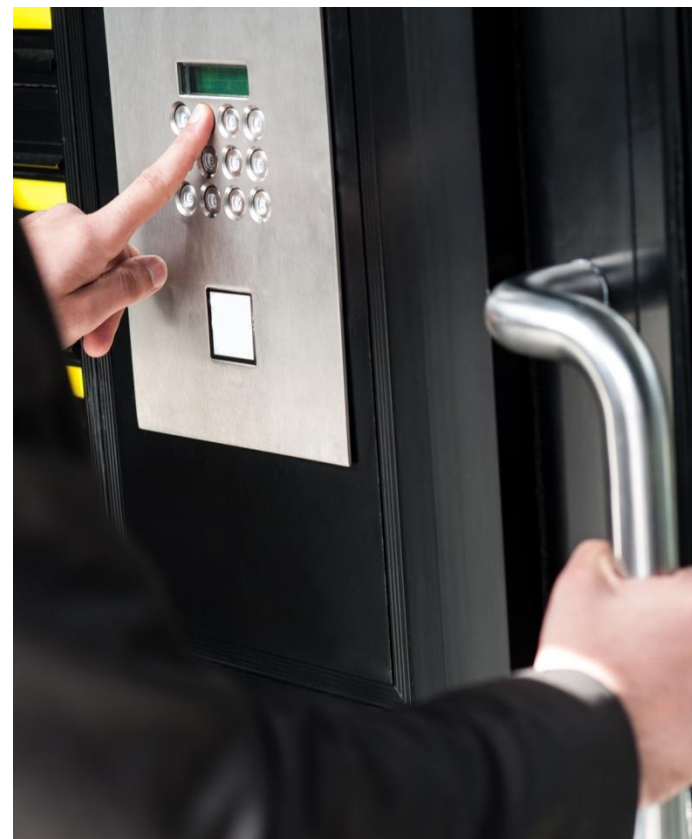


Log & Blacklist Management

► Solution Elements

NSR offers advanced Access Control solutions for critical assets of all types – public, private, and commercial.

We deploy fences, barriers, and a variety of smart sensors, vehicle and facial recognition solutions to identify approaching threats, and entry control solutions to manage access to the critical asset.



Access Control

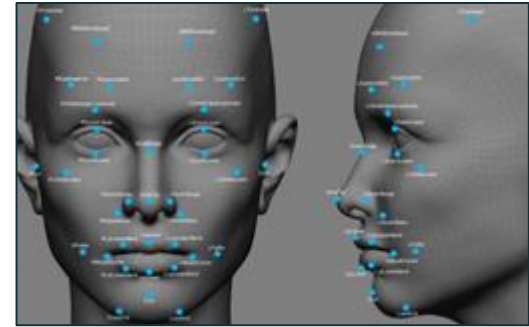
Solution Elements



Screening: Passengers,
Vehicles, Luggage



License Plate Recognition



Face Recognition



Connectivity to External DBs



Biometrics

► Solution Elements

NSR enables critical assets to monitor their environmental impact and status, as well as track environmental hazards in real-time.

From installing pollution sensors, through integrating sensors into a unified system, to distributing information from the system to relevant destinations: NSR provide assets with the required data-gathering sensors – and designs and implements operational procedures to respond to alerts.



Environment

Solution Elements



Fire & Smoke Sensors



Water Pressure Sensors



Pollution Sensors



Connectivity to External DBs



Connectivity to Mobile Sensors

► Solution Elements

NSR solutions offers full intelligence & counter-intelligence capabilities, covering both technological and human aspects.

From deploying technological and human networks, through gathering, integration, and analysis of data from, to jamming and interference with external intelligence operations - we help our customers build and optimize their Intelligence operations.



Intelligence

► Solution Elements



Recruitment
(Employees, HUMINT)



Data Gathering



Integration & Analysis

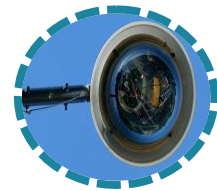


Jamming & Interference



IT Security & Cyber

The Future of Command & Control



ENSURA C&C is a flexible, scalable, powerful Command & Control application that supports simplified integration of all sensors and systems into operational security & management solution

Uniquely designed for large-scale installations and virtually endless growth, ENSURA allows users of all skill and training levels to rapidly create – and manage – a Critical Asset Protection solution.

Scalability

Virtually endless scalability.

Tracking

Track objects across multiple sensors – limitless crosslinking

Integration

Integration with any 3rd party sensor, system, or application.

Wizards

User-friendly and system-supported operation.

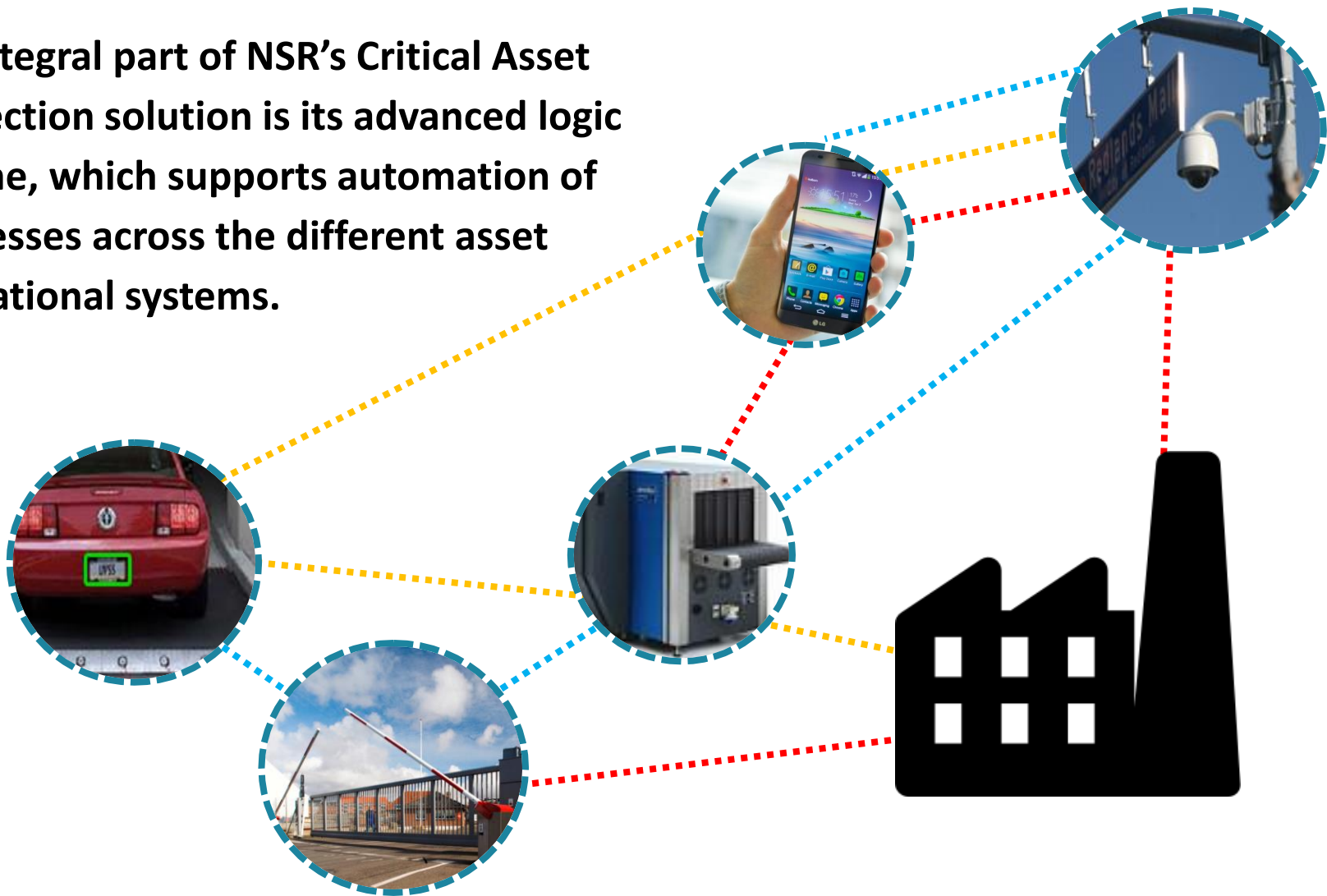
Triggers

Automatic process management linked to sensor triggers.

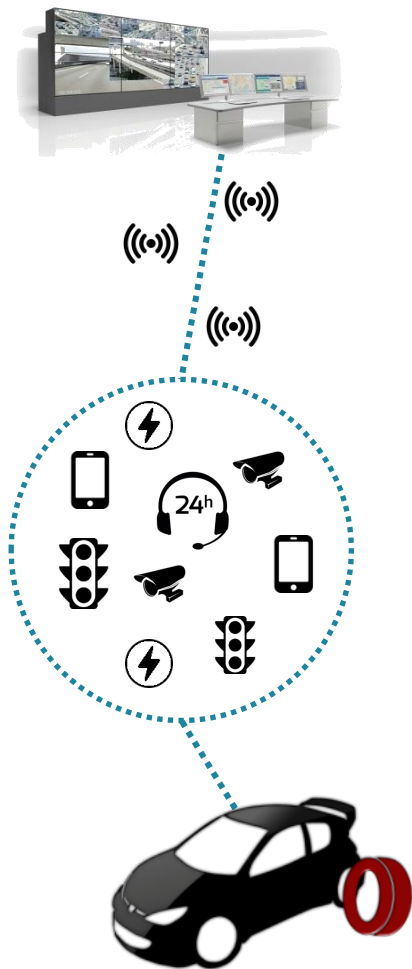


Process Automation

An integral part of NSR's Critical Asset Protection solution is its advanced logic engine, which supports automation of processes across the different asset operational systems.



Critical Asset Scenario



Event: Black Listed Car Attempts Entry

1. Blacklisted car attempts entry to asset:



Surveillance cams send image to stadium C&C.



LPR identifies blacklisted car and notifies ENSURA



Guards send query via pad/smartphone interface

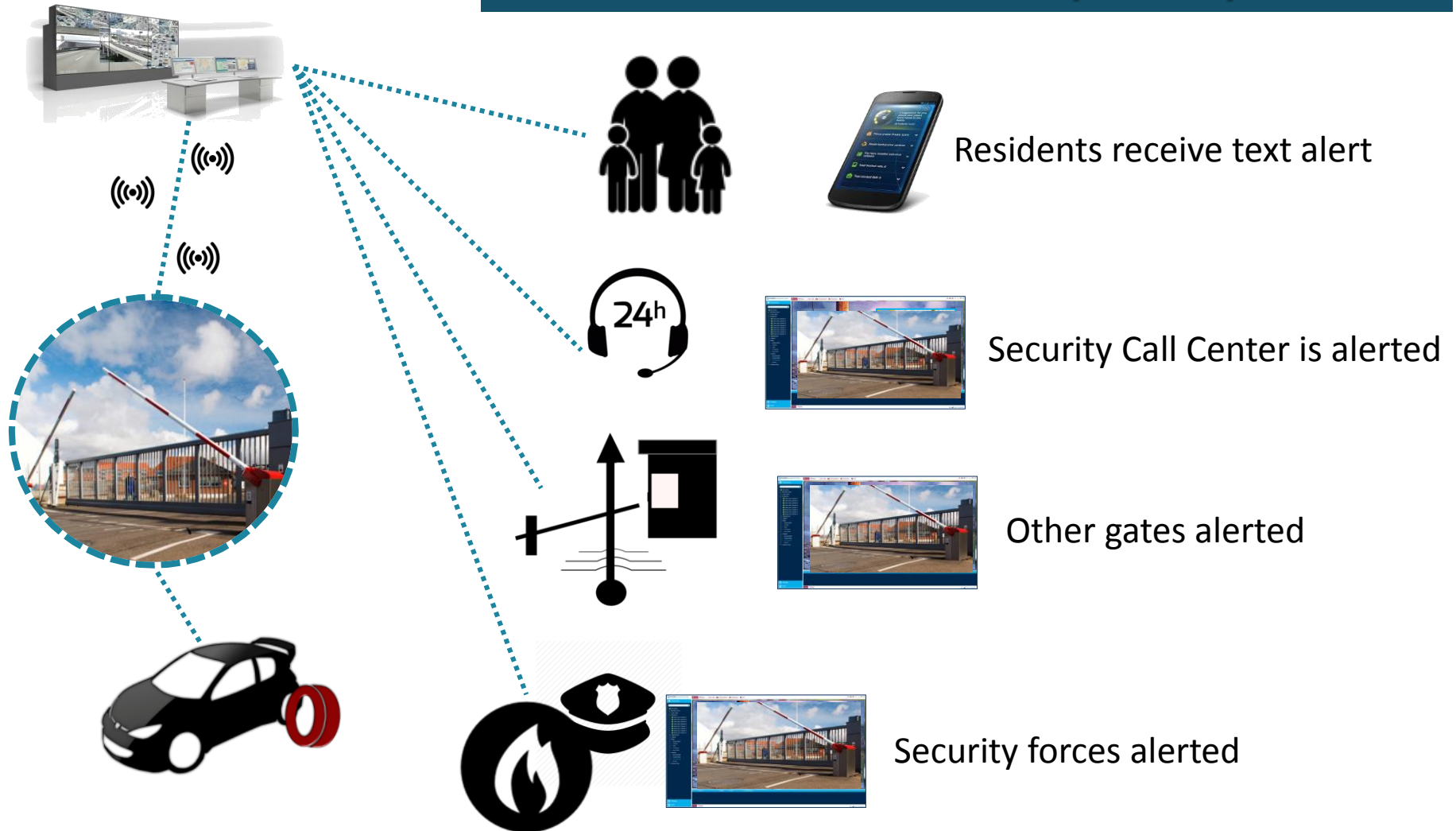
2. Sensor data is sent to ENSURA

3. ENSURA analyzes the data and implements procedures

Critical Asset Scenario



Event: Black Listed Car Attempts Entry



► Surveillance

Challenge	A national intelligence agency with a compound in an urban area required a solution that will completely automate detection and recognition of attempts to intrusion attempts, as well as supporting intelligence-gathering activities around the site.
Solution	<p>NSR utilized both in-house products and external technologies to provided an intelligent video surveillance system combined with advanced video analytics.</p> <p>The software embedded all installed detecting elements – upgrading rather than replacing the existing deployment.</p>
Why NSR?	<ul style="list-style-type: none">• Integration with current deployment• Support for future expansions and additions.• Flexibility in response scenarios.• Operators of all experience levels.



Case Studies

Safe City

Challenge

The Government of Singapore wished to have a solution which will automatically notify it of location of suspected vehicles

Solution

NSR provided a solution that handles thousands of cameras and sensors, while connecting to a national data base for information gathering. The system automatically detects vehicles around the city and notified the departments of its details and whereabouts

Why NSR?

- Stand alone AND centralized C&C capabilities
- Massive volume of data
- Numerous and different sensors and technologies
- Difficult communications terrain



Case Studies

Delivering Safe Critical Assets with NSR

Planning

Design from Infrastructure up:

- ▶ Budget scope
- ▶ Data Requirements
- ▶ Relevant Authorities
- ▶ Operational Requirements

Implementation

Implementation by local teams:

- ▶ All of the pre-determined interconnected elements and sensors, as identified in the analysis phase.
- ▶ Customer **training for system implementation** and operation.

Analysis

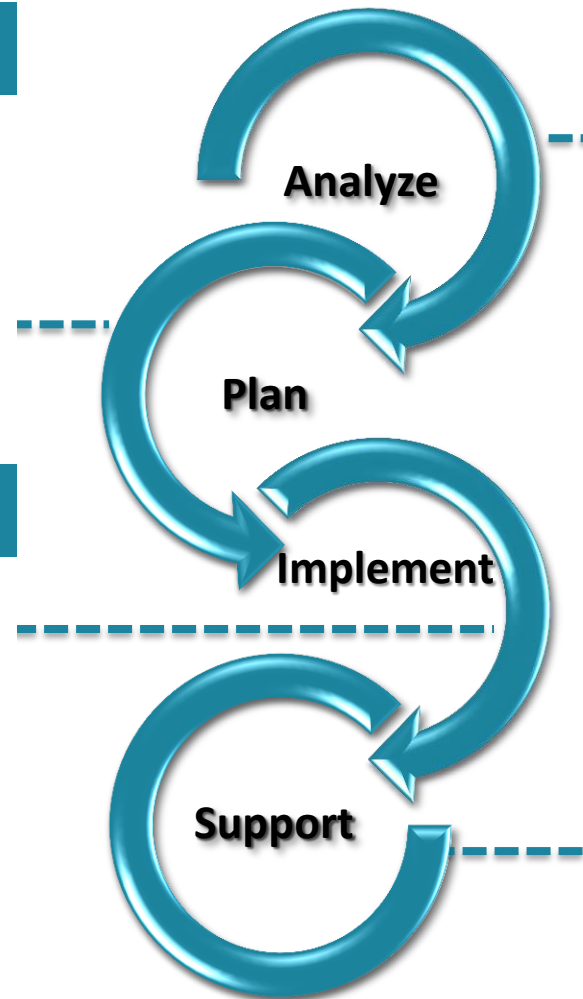
Analyze customer:

- ▶ **CONOPS** which will outline the system's primary security guidelines
- ▶ Potential threats and risks to routine operations
- ▶ Available and required resources and support for routine/emergency operations
- ▶ Support required to identify threats and risks (i.e. do authorities need Intelligence gathering/analysis support?)

Support

Operation, maintenance & technical:

- ▶ 24/7 Global Support Center
- ▶ Local Support Team



► The NSR Advantage

Mission & Vision

Our mission is to leverage existing networks and assets into Smart Assets

Commitment

We are committed to helping managers to advance and upgrade their operational systems, infrastructure, and management platforms, making assets more manageable, efficient, and welcoming.

Innovation

We are uncommitted to any technology, seeking out innovation from inside and outside the industry to bring our customers cutting edge solutions that will grow with their solutions.



Thank You

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