



**indra**

SECURITY SYSTEMS

# URBAN SECURITY

Information systems protecting major cities with a main goal:  
to guarantee citizen's well being

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# URBAN SECURITY

Supports and strengthens coordination and quick response in daily emergencies or major crisis situations managing a common incident operative



## The challenge of coordination: Urban C4i Centre

### Urban C4i Centre

In recent years, awareness concerning environmental or man-made threats faced and the requirement to respond in an effective manner have increased significantly.

Classic mechanisms have proved to be limited solutions with regard to Urban Security.

Indra provides technology to cover the full process of security in a city, integrating different systems in the Urban C4i Centre through **iSAFETY system**.

From assistance, prevention and preparedness to response and recovery, security and emergency agencies must work together.

The extensive use of voice and data networks guarantee communications with resources and stakeholders.

Security services can also be planned to manage major events or to define common prevention policies.

## Intelligent video surveillance

Video surveillance networks for real time monitoring are deployed in the city using intelligent video analysis software and state-of-the-art technologies.

- Video intelligence: detection, counting, anomalous trajectories, Intrusion/perimeter radar
- 3D video surveillance integrating cameras into virtual scenarios
- Telecommunications networks (WiMax, OF)



## iSAFETY. Security and Emergency Management System



“Integrating own technology with third party solutions and customer legacy systems”



iSAFETY provides a coordinated and high quality answer to daily incidents and major emergencies or crisis.

Multiagency, ensuring security, confidentiality and authenticity of data.

Multilanguage.



iSAFETY can be deployed using legacy GIS and cartography.

Emergency plans database based on configurable workflows.

Integration with existing video, radio or voice networks.



CAD software (Computer Aided Dispatch).

Based on open standards.

High availability and redundancy.

Call centers for emergency numbers.

## Business intelligence

Solutions to provide best quality of information for the best decision.

- Data mining techniques and market tools
- Reports and scorecards
- Criminality maps and risk maps
- 24x7 access using mobility solutions or secure web portal

## Mobility solutions

Real time access to information using secure communications through wireless networks (UMTS/HSDPA/GPRS, WiMax/WiFi, TETRA/PMR).

- Mobile phones, PDA, Tablet PC
- Access to external databases
- Planned tasks, reports and notifications
- Managers: service performance
- Messaging



## Crisis management

Tools to simulate emergency scenarios, using GIS Simulation and historical events in order to enhance procedures from emergency plans database.

The crisis room in Urban C4i is built to allow meetings in the case of a disaster.

- Communications and video conference to share situation with stakeholders
- Access to information systems



## Mobile command and control centres

Vehicle deployed to command on site operations when a major emergency or event is taking place, thus increasing the population's sense of security.

- Tailor-made design
- Operations room and crisis room
- Voice and data communications
- Coordination of the resources
- Video surveillance capacities
- Real time access to information systems deployed in Urban C4i



## Workforce management planner

System to plan, coordinate, manage and control the daily operations and the strategic planning of activities and resources.

**Short Term.** Assign resources to planned tasks following defined procedures and calendars. Teams management. Tracking capacities (GIS Based).

**Long Term.** Support for Strategic Planning. Scheduling, analysis and simulation. Risk analysis.



## Training and simulation

Training simulators are based on military technology:

- Small Arms Training Simulator assists in instruction and tactical training
- Priority Vehicles Driving Simulator (Police, Ambulance and Firefighters)
- Crisis Management Simulator



## Case Study. CISEM. The Madrid Integrated Centre for Security and Emergencies

**Security and Emergency Centre** to manage security in the city of Madrid (more than 4 million inhabitants).

Dispatch and resources tracking in a multiagency scenario: Police, Civil Protection, Firefighters, Traffic and Health Services.

Response times reduced to half.

### Video Surveillance

Video management system. Traffic cameras. Videowall.

### Applications

Security and Emergency Management System. Mobility. Workforce Planner. GIS and GPS tracking. Business Intelligence.

### Information Systems

Hardware and databases. Real-time replication to backup centre. LAN and logical security.

### Infrastructures

Design and implementation of main and backup Emergency Centres. Operations room. Crisis room. Auxiliary offices. Data Center. Mobile Control Centres (4 vehicles).

### Telecommunications

Voice and radio integration. TETRA, telephony and videoconference. GPRS/UMTS. Satellite. Deployment of a WiMax Network.





ISO 9001:2000



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