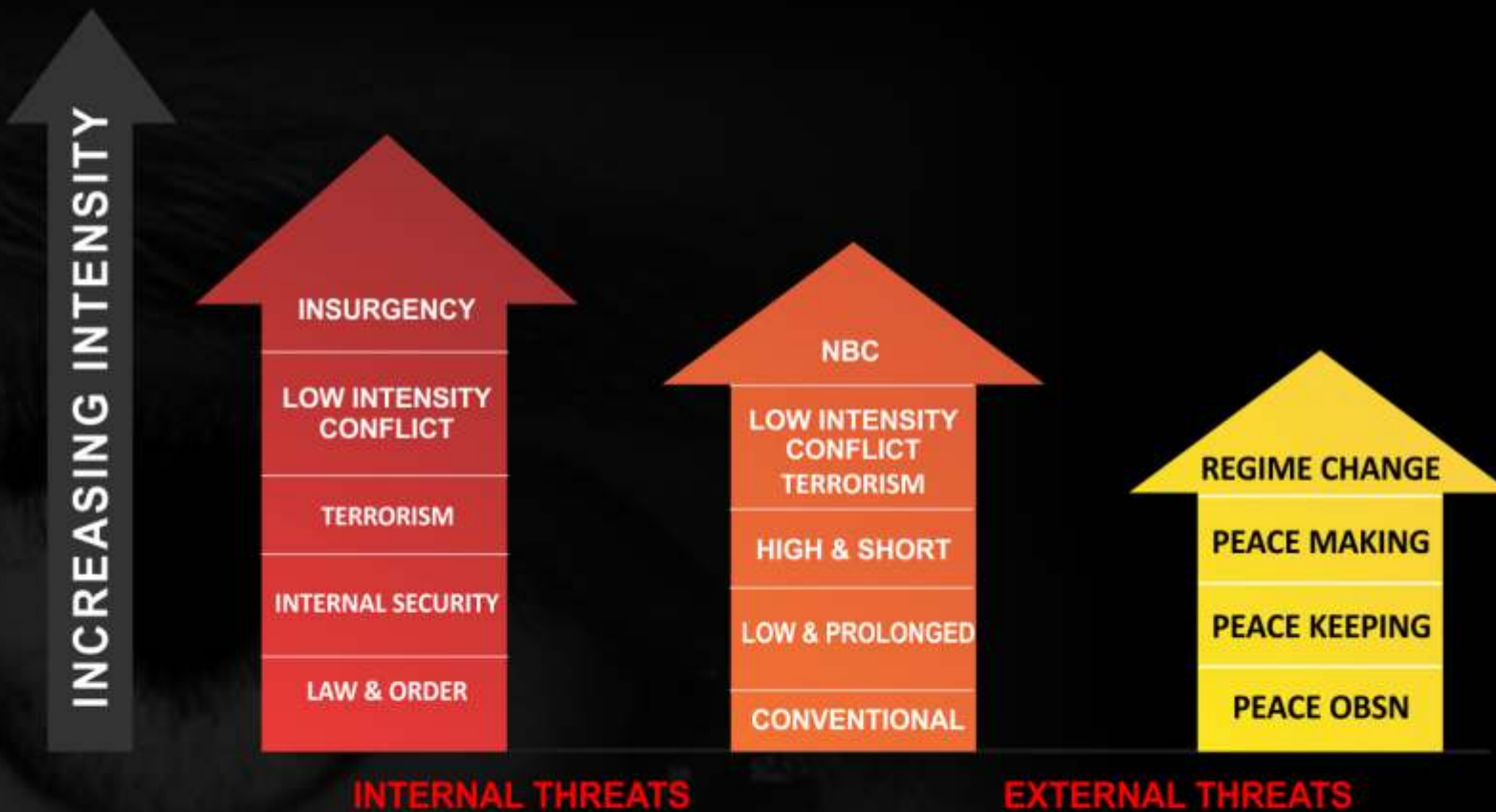# DeFentect

SOLUTION TO YOUR SAFETY

RAPIDSOFT SYSTEMS

Overview

- International Security environment
- Current scenario
- Bombings
- Venues require attention
- Security and risks
- Why surveillance is imp
- Types and severities

    A) Question

    B) Question

- Rapidsoft Systems step ahead
- Defentect uniqueness
- Our edge over other solutions
- Need for Automatic Response
- Cost advantage
- Other products

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International Security Environment
THREAT SPECTRUM

INCREASING INTENSITY

INTERNAL THREATS

Red arrow (bottom to top):
- LAW & ORDER
- INTERNAL SECURITY
- TERRORISM
- LOW INTENSITY CONFLICT
- INSURGENCY

Orange arrow (bottom to top):
- CONVENTIONAL
- LOW & PROLONGED
- HIGH & SHORT
- LOW INTENSITY CONFLICT TERRORISM
- NBC

EXTERNAL THREATS

Yellow arrow (bottom to top):
- PEACE OBSN
- PEACE KEEPING
- PEACE MAKING
- REGIME CHANGE

TERRORISM IS A PERVASIVE TOOL and METHOD

Current Scenario

- UAE's second wealthiest emirate of Dubai has attracted the attention of both international criminal and terrorist organisations,

- Many of which have exploited the emirate's laissez-faire attitudes and impressive physical infrastructure to set up various smuggling, gun-running, human-trafficking, and money-laundering operations

Bombings

- Terrorism in which planning and execution of the terrorist act transcends national boundaries

- Happenings :

- Bombing le belle disco in

  West Berlin on 5 April 1986 sponsored by kenya killing 3 and injured 100

- Pan Am flight 103

  Bombing over lockerbie, s c o t l a n t o n 2 1 december 1988 by libiyan agents killed 270

- First world trade centre

  26 february 1993 –Islamic   terrorist detonated truck bomb under towers   killing six and damaging the bulling

- American Airlines Flight 63

  attempted show bombing islamic fundamentalist Richard reid on 22 December 2002

- September 11 attacks –

  two jets crashes in world tarde centre killing 2572,one jet crashed killing 45

  One jet crashed into killing pentagon 189

Venues require attention

The Government identified 12 areas as Critical Infrastructures requiring protection from threats. These infrastructures provide the goods and services that contribute to the national defense and strong economy.

Public health -This area consists of state/local health departments, hospitals, health clinics, mental health facilities, laboratories, mortuaries, and pharmaceutical stockpiles. All of these would be critical after any form of attack or natural event

Emergency Services -Unfortunately past and present, foreign and domestic, experiences indicate that emergency services response infrastructure and personnel can be the target of deliberate direct or secondary attacks

Government -The government itself can be viewed as a critical infrastructure, with its ability to command and control the response to any attack, terrorist or natural to any of our infrastructures

Defense systems addressing its dependency on the Defense Industrial Base, and is taking the issues of private industry into its critical infrastructure protection efforts

Electricity plant infrastructure is required to operate and maintain homes, hospitals, schools, businesses and industrial plants; it is also necessary to refine oil. Disruption of electrical flow or a power grid would impact the economy and defense as well as response and recovery.

Public transportation -The area includes aviation, rail, pipelines, highways, trucking and bus, and public mass transit.

Banking and finance -The financial sectors infrastructure includes computer networks, storage devices and telecommunications networks. This sector is also extremely vulnerable to public perception; an impression of weakness could easily result in a damaging cascading effect

Chemical industry -The sector is also a lucrative terrorist target due environmental impact from the physical destruction of many of its site

Post office- Anthrax attacks through the postal system cause mail stoppages

Security And Risks

Traditional security:

- Armed guards patrolling a perimeter, peering into darkness, checking ID's.

The risks:

- The roving guard isn't there when the terrorist races across the railroad platform.
- The guard is bored and inattentive because it is the 7th hour of his shift.
- He was bribed by what he thought were run-of-the-mill smugglers to look the other way but who turned out to be terrorists, as happened in Russia.
- Or, as in Afghanistan, the guard himself is a terrorist who has infiltrated the security organization.

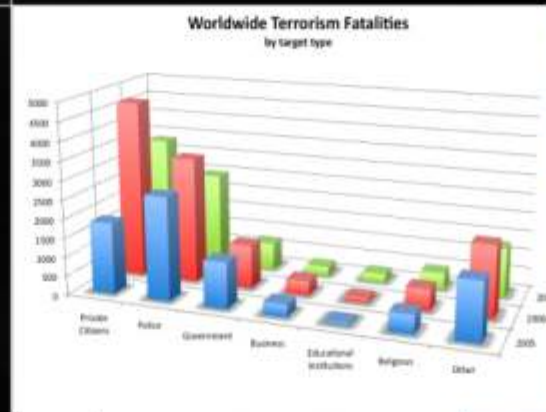RAPIDSOFT SYSTEMS

Why surveillance is imp

- Video surveillance cameras in public places are a good thing. These cameras provide safety to those in the area, and they also help deter criminals. Aside from the deterrence, they help in providing evidence for trials and make prosecutions easier.

- They help in giving an extra advantage to the police and security teams that patrol the areas.

- They give citizens extra peace of mind and feeling of safety

Threat Scenarios Come In Various Forms

Different threats different severities

- Radioactive

- Explosives

- Fire alarms

- Chemical

- Biological

But even if the policeman is conscientious and alert:

Does he have the training to know what to do when he's out on petrol?

The instantaneous right reaction?

Is security dependent upon the individual decisions made under stress by scores of security guards on petrol?

What's Wrong With Current
Chemical/Radiological/Visual Detection Systems?

- Labor intensive and expensive

- Require security guards to focus over protracted time periods and respond manually

- Delayed alerts to authorities

- High incidence of innocent and false positive alarms

- How well trained in physics, chemistry are security personnel manning the computer screens? Does an 8 hour shift affect judgment?

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Rapidsoftsystems

- **Company vision** – Its been almost 7 years to fulfill the dream. And now our dream has come true. We been able to develop a product called *"Defendect"*.

- **Defectect** – This project is not just second solution to IT industry. A milestone which will bring revolution into the defense industry

- **Aim** – To help humanity and government for better hold of terrorism and extremists

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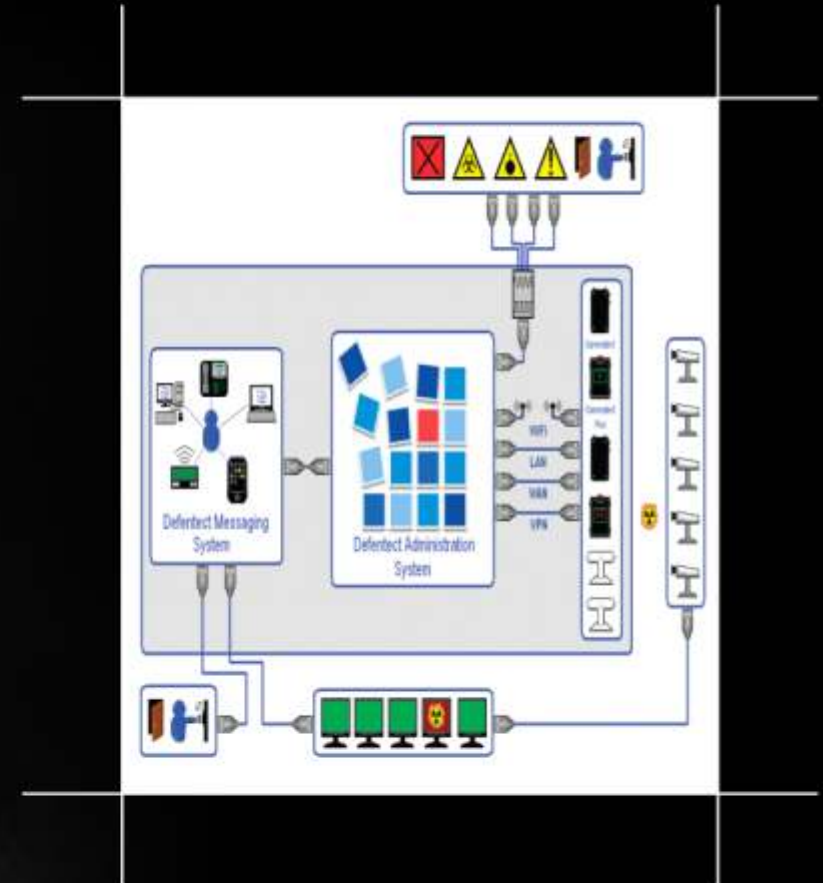# Need for Automatic Detection and Response

- DM3 is the only software that integrates all known forms of sensors.

- **The alternative** : Imagine an army where five different languages were spoken and no one could translate except at the General Staff level. Chaos.

"Defentect, delivering radiation threat awareness solutions that help security personnel and first responders act with confidence."

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The Solution

- Intelligent threat networks that monitor movement can reduce or eliminate misdiagnosis.

- Defentect's DM3™ software is the management, monitoring and messaging component that networks to third party sensors, providing administrative and configuration services for a variety of threat-event detection demands.

- Our intellectual property is built upon readily available electro-optical devices.

- Defentect's products graft readily onto existing security systems, minimizing adoption costs and facilitating market penetration.

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Need for Automatic Detection of a Threat over Manual Detection / Response Time

- Chemical sensors to sniff out a molecule from an explosive waiting to be detonated .

- Motion detectors sensing when someone is moving in a forbidden zone.

- Audio sensors to triangulate exactly where a gunshot was fired

- Who can pull together the clues that signal DANGER?

- Instantaneously, the central security office is alerted, the nearest Army Rapid Response Unit, the Bomb Squad.

- Flawless and according to a well thought out plan, the word goes out.

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Cost Advantage—what is DM3 worth?

The alternative to a DM3 networked sensor grid is—

--an Army Battalion on 24 hour alert patrolling the perimeter and providing internal security.

How much does a loyal, competent, combat-ready Army Battalion cost?

- The integrated Defentect solution offers radiation sensors, administration, monitoring and messaging which together yield a significant safety, time and cost advantage to security personnel and first responders.

Our Products

- **DM3™ Software Platform**

  Defentect's DM3 is the management monitoring and messaging software central to Defentect's solutions. DM3 enables customers to add radiation detection and other sensors to their security systems, access control and video surveillance systems to document the location and nature of a threat. DM3 contains a messaging module that sends customized alerts to cell phones, pagers, PDAs or other devices through text messages, phone calls, or emails.

- **Gammatect™ Sensors**

  Our Gammatect radiation sensors operate over an IP network and report threat level gamma radiation events to Dm3.

- **Gammatect Plus™ Sensors**

  Our Gammatect Plus sensors provide isotope identification and limit innocent positive alarms by screening out medical and low energy isotopes.

"For evil to flourish, it is only necessary for good men to do nothing"

by: Edmund Burke

Thank you !!