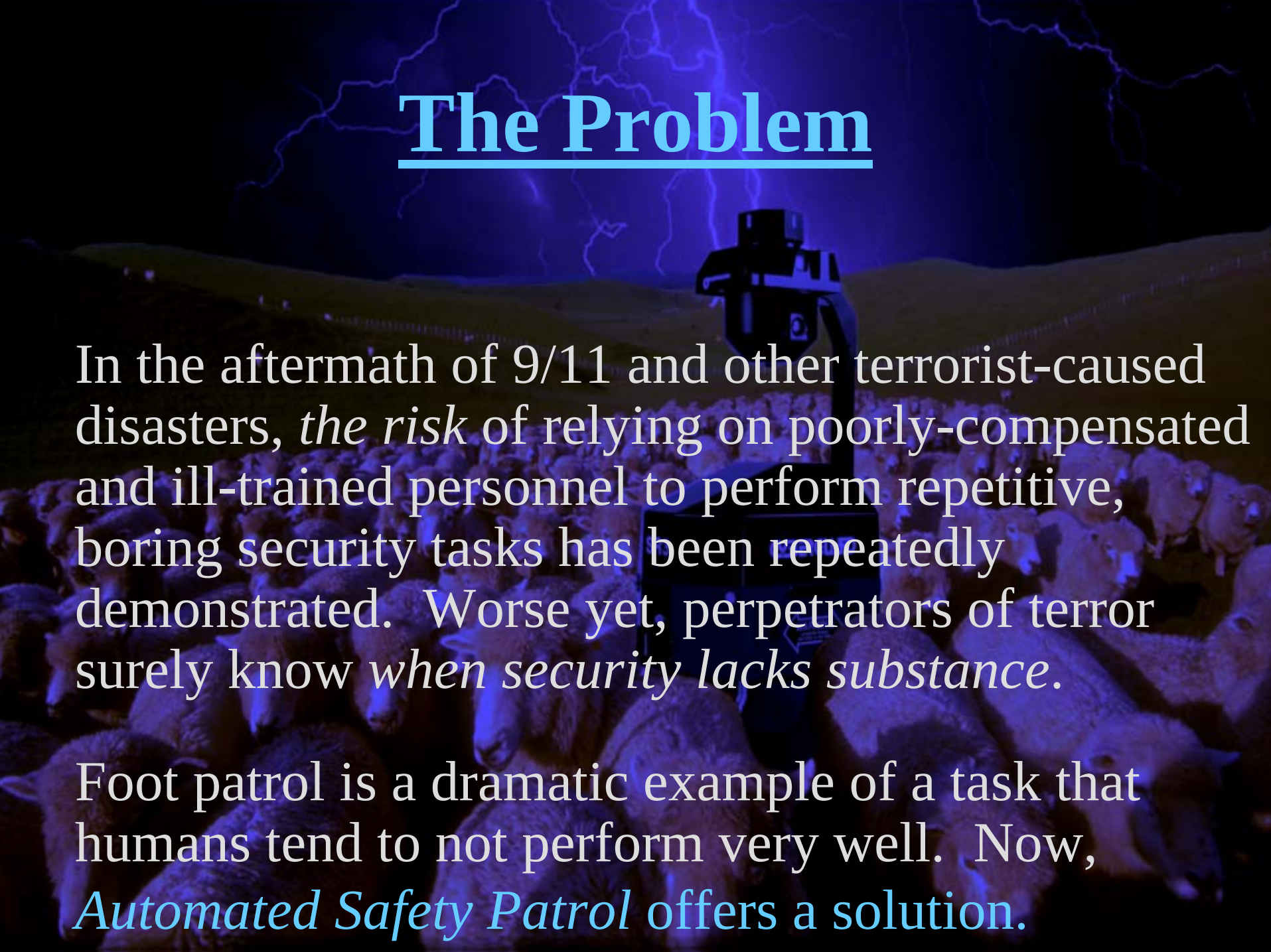

Cybermotion is pleased to present to
The Office of Homeland Security
Automated Safety Patrol
…Beyond the humanly possible !

The Problem



In the aftermath of 9/11 and other terrorist-caused disasters, *the risk* of relying on poorly-compensated and ill-trained personnel to perform repetitive, boring security tasks has been repeatedly demonstrated. Worse yet, perpetrators of terror surely know *when security lacks substance*.

Foot patrol is a dramatic example of a task that humans tend to not perform very well. Now, *Automated Safety Patrol* offers a solution.

Why Automated Safety Patrol ?

Automated Safety Patrol (ASP) provides *wide area, broad spectrum,* threat sensing in occupied *or* unoccupied indoor environments.

Based on a COTS System

This *is not* an R&D project!

CyberGuard® systems are in operation today and have already averted potential disasters!

The COTS product requires only the integration of *unconventional* threat sensor systems to provide an *even more* powerful public safety tool.

Conventional Threats

(*Standard* sensors on CyberGuard®)

Fire Prediction

(Gas, Smoke, Temperature, Flame, etc.)

Air Quality Assessment

(Carbon Monoxide, Smoke, Temperature, Humidity, etc.)

Human Presence

(Scanning PIR, Radar, Ultrasound, etc.)

Puddle Detection

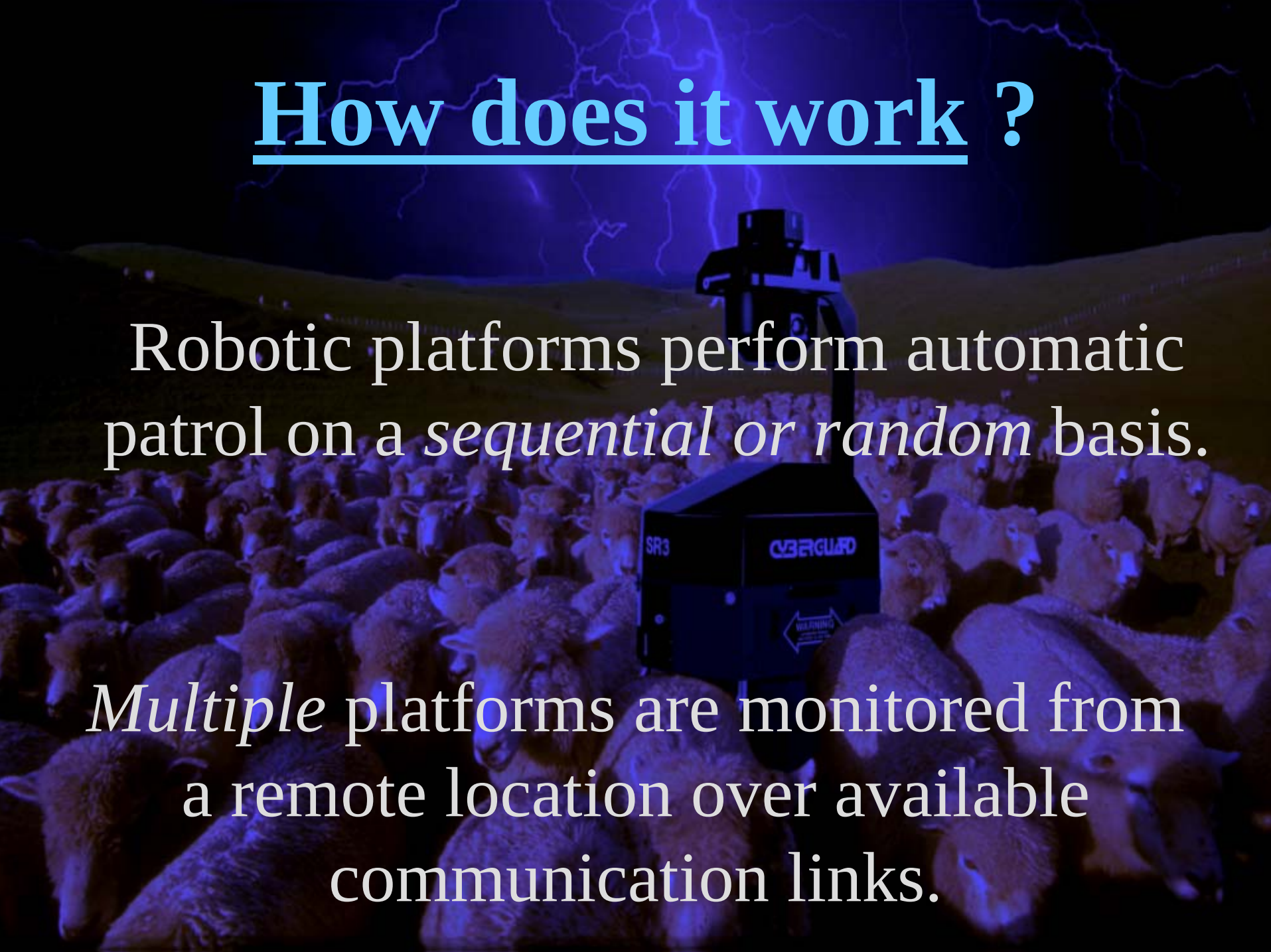
(Laser Absorption)

*Un*conventional Threats

(detectors yet to be added to the standard system)

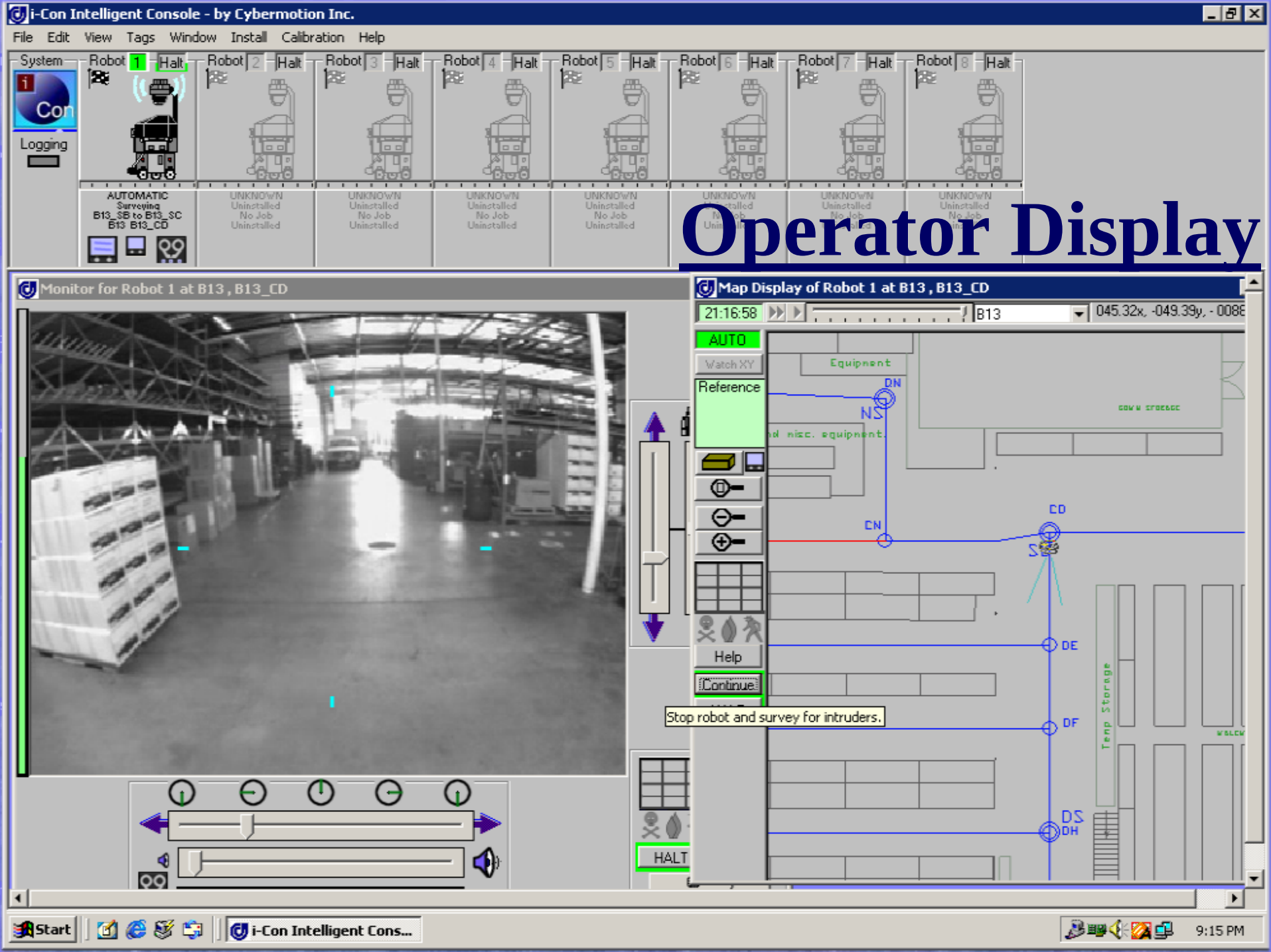
- Chemical Agents
- Biological Agents
- Radioactive Threats
- Facial Recognition of Known Terrorists

How does it work ?



Robotic platforms perform automatic patrol on a *sequential or random* basis.

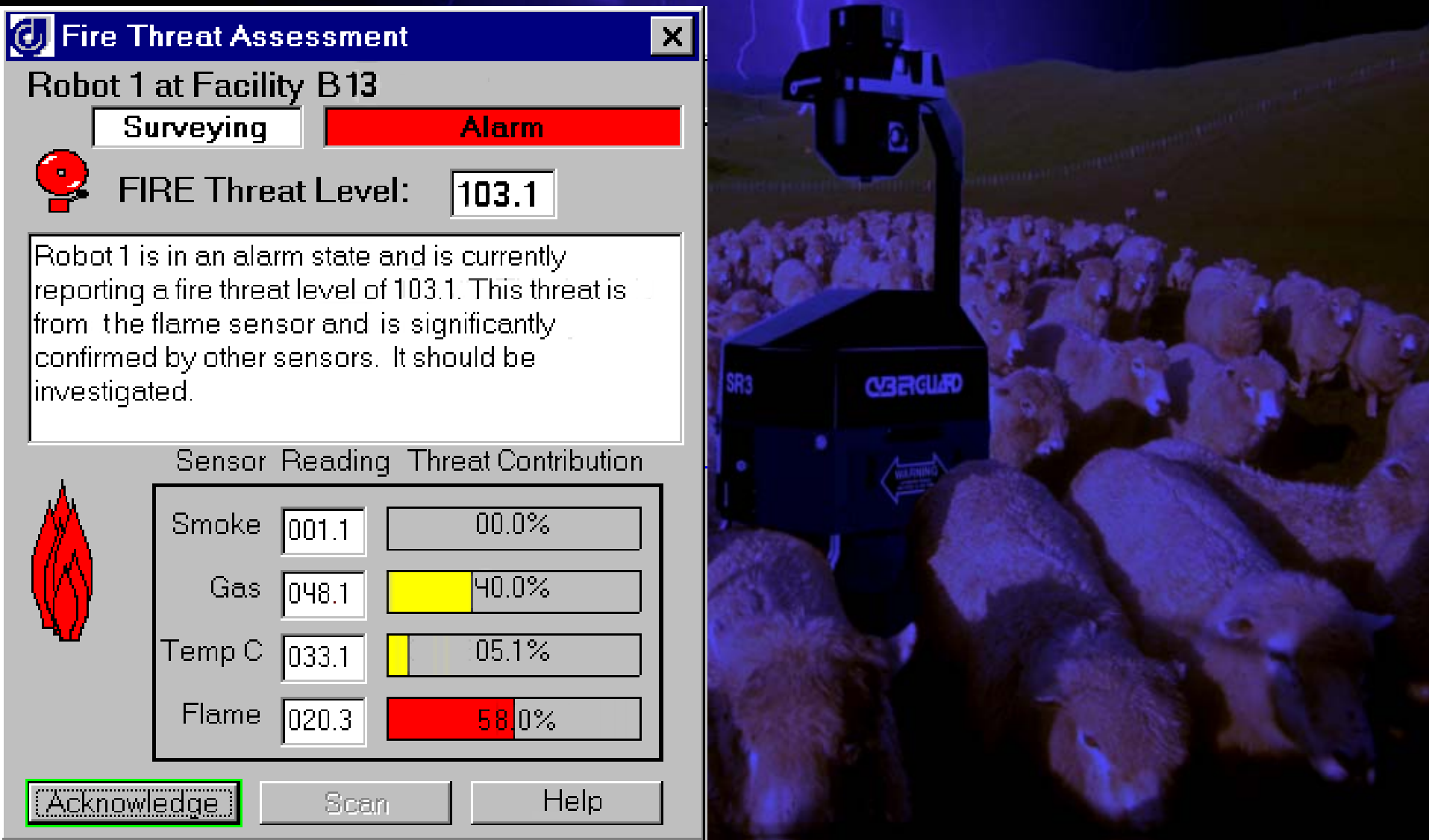
Multiple platforms are monitored from a remote location over available communication links.


i-Con Intelligent Console - by Cybermotion Inc.
File Edit View Tags Window Install Calibration Help
System
Logging
Robot 1 Halt
Robot 2 Halt
Robot 3 Halt
Robot 4 Halt
Robot 5 Halt
Robot 6 Halt
Robot 7 Halt
Robot 8 Halt
AUTOMATIC
Surveying
B13_SB to B13_SC
B13 B13_CD
UNKNOWN
Uninstalled
No Job
Uninstalled
Operator Display
Monitor for Robot 1 at B13 , B13_CD
Map Display of Robot 1 at B13 , B13_CD
21:16:58
B13
AUTO
Watch XY
Reference
Help
Continue
Stop robot and survey for intruders.
HALT
Equipment
DN
NS
CN
CD
S
DE
DF
DS
DH
Temp Storage
Start
i-Con Intelligent Cons...
9:15 PM

How does it report ?

- Instant situation assessment
- Instant graphic and map display
- Instant video
- Log files
- Incident reports
- Digital video recording
- Map displays
- Time-based graphs
- *Trend analysis*

Actual Incident

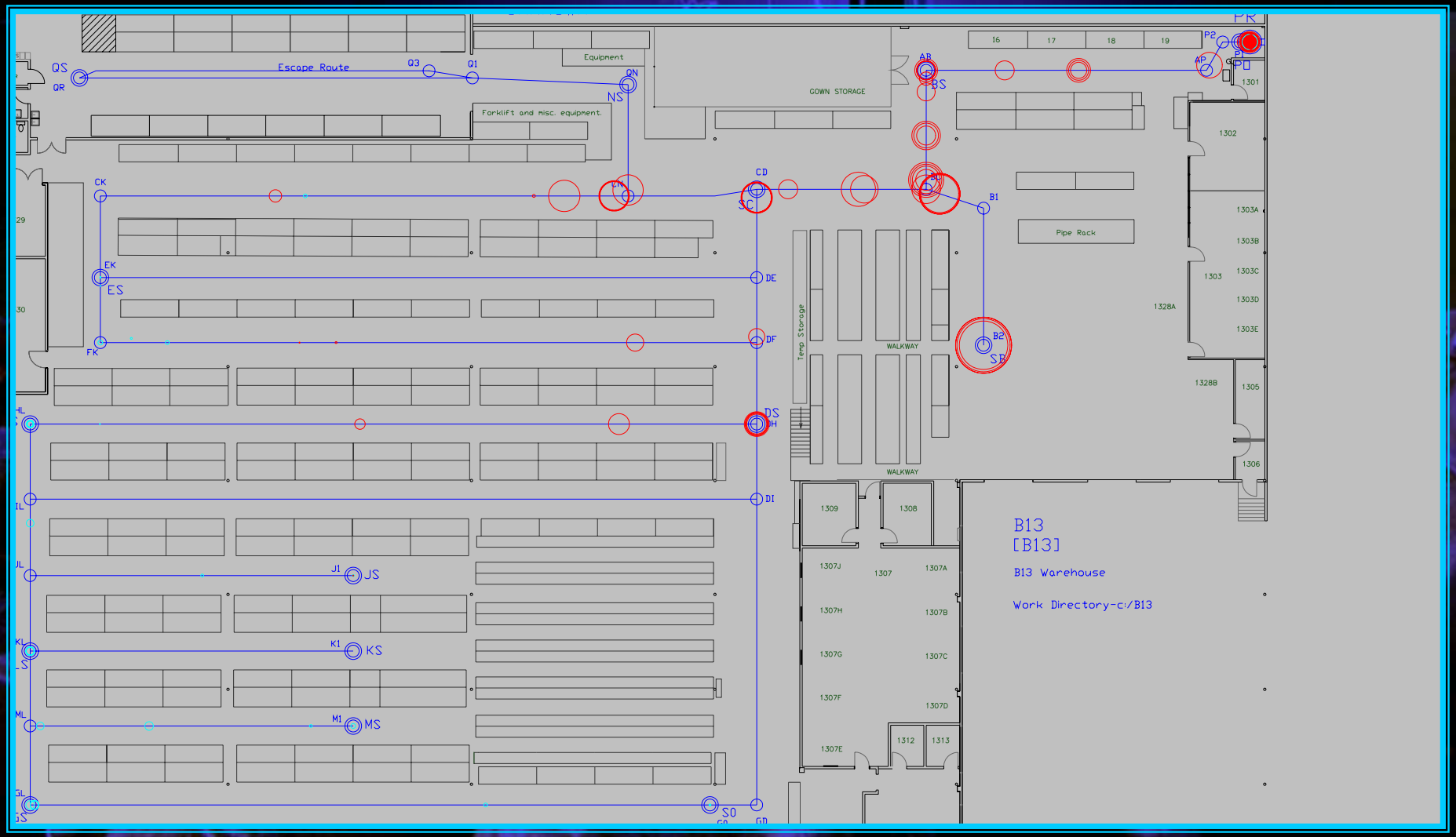


Incident Report

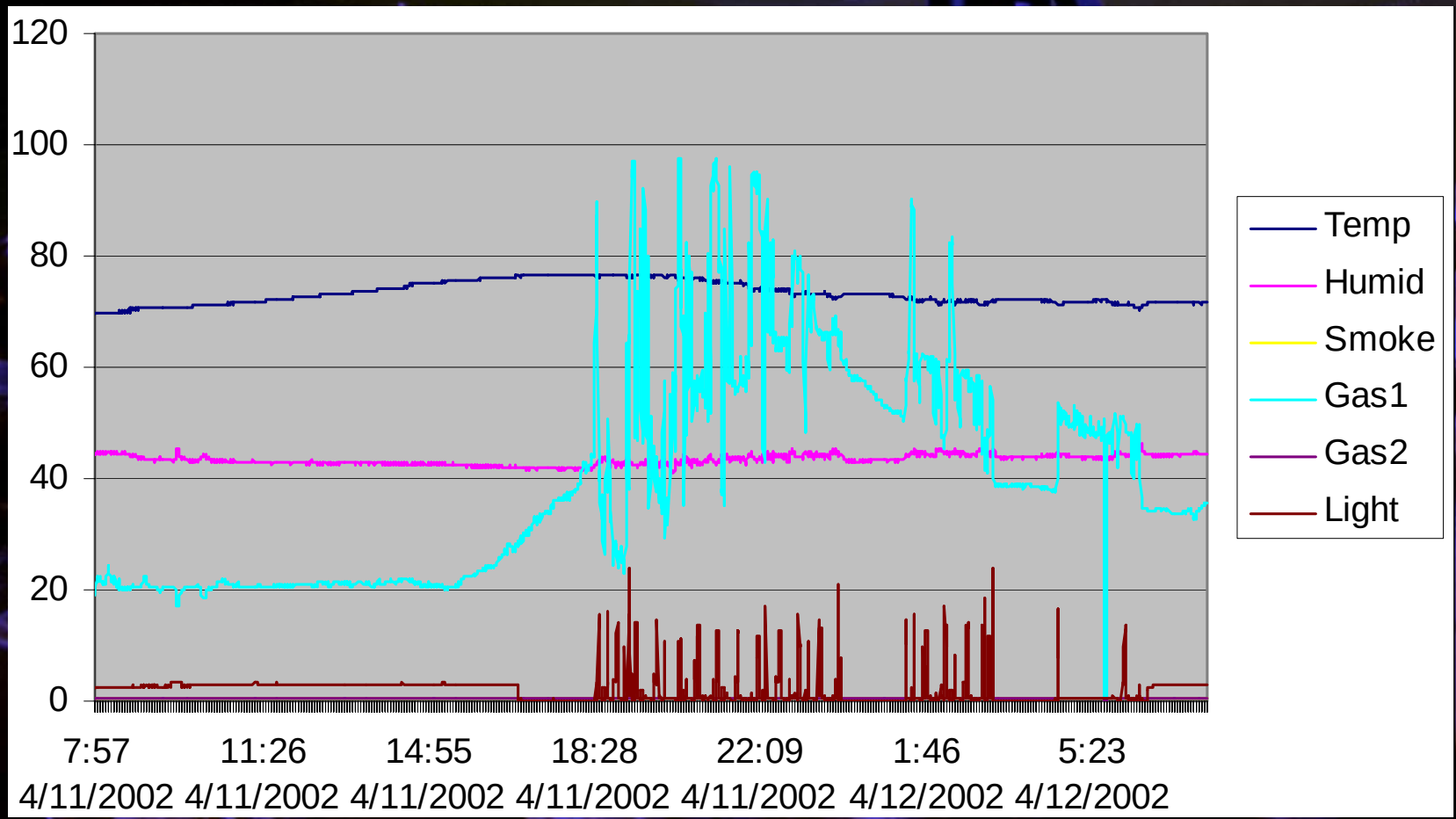
--- FIRE ALARM REPORT ---
C:\ROBOT1LOGS\04112325.FIR --
Robot 1 at B13 generated this report at:
Date: 04/11/2002 Time: 23:25:45
Status: ALARM!
Map: B13
Position: -107.74/-96.48
Heading: +380
Current Job: B13_DS to B13_HS
Origin Node: B13_DS
Destination Node: B13_HS
The Environment is unspecified.
Fire Threat = 099.6
ALARM - FIRE THREAT

Sensor	Reading	Threat
Smoke	000.7	000.0
Gas	067.1	047.2
Temp. F	073.3	000.0
Flame	006.2	052.4

Actual Incident : *Map Display*



Actual Incident : *Time Graph*



Safe and Effective

CyberGuard® demo at the United Nations–

CyberGuard® robots have a long record of safe and effective operation in facilities ranging from deserted warehouses to major airports.

Advantages over Foot Patrol

- Mitigates human foibles
- More consistent coverage
- Removes guard from threat
- Full reporting and recording
- Detects *much wider range* of threats
- Adds *an unknown element* for enemy/intruder
- Allows better use of human assets
- Reduces cost

Conclusions

Automated Safety Patrol is an invaluable tool for securing public and non-public places.

ASP systems can be deployed *now*.

Thank you !