

Smiths Detection

Perimeter security summit

Washington, 17 May 2005

Presentation by: **Bill Mawer**

VP strategy, business development, technology. Smiths Detection



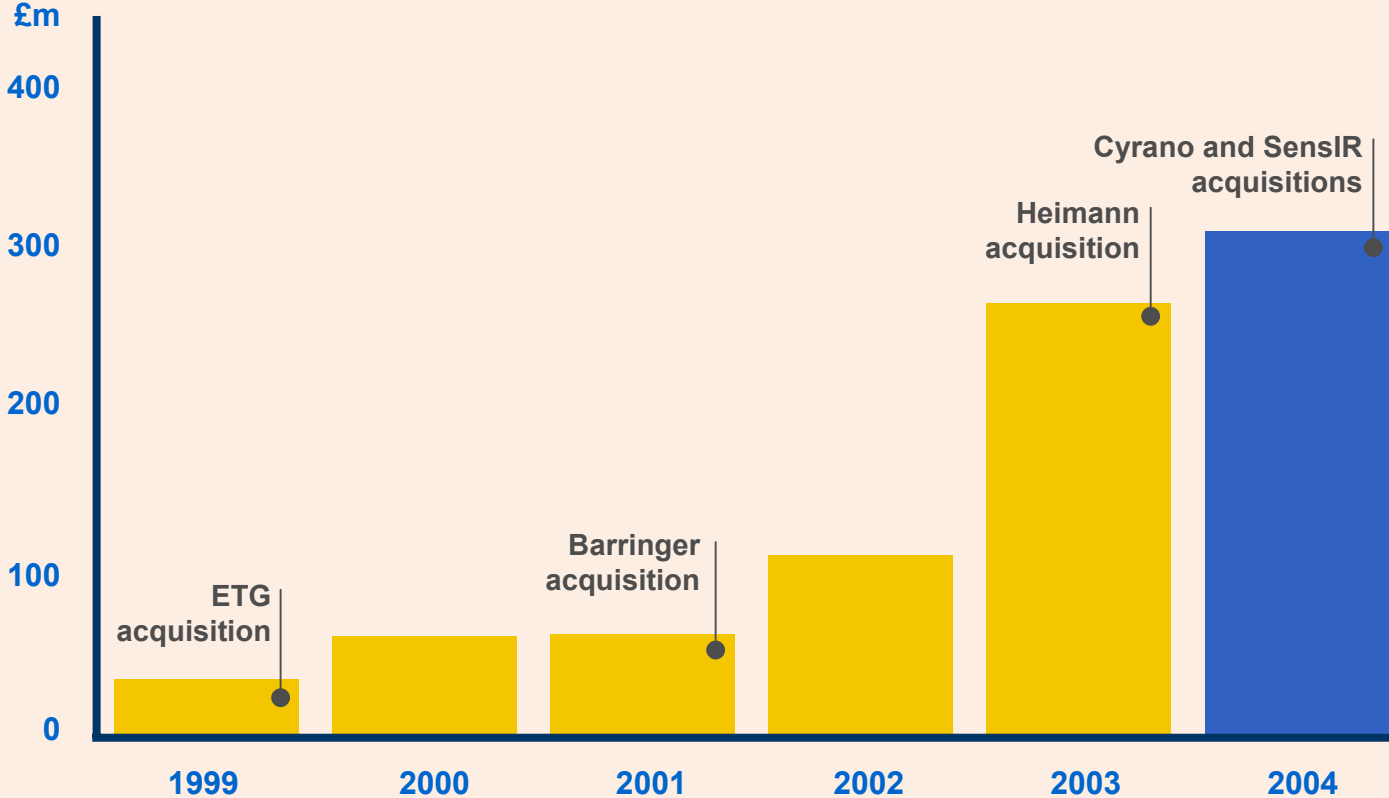
Who is Smiths Group plc?

Smiths is a forward-thinking, focused engineering company with market-leading positions worldwide in its chosen areas of specialization - detection systems, medical devices, aerospace systems, mechanical seals and interconnect products



History of Smiths Detection

Sales growth since Smiths Group acquired Graseby in 1997



Wide range of detection technologies

Trace detection

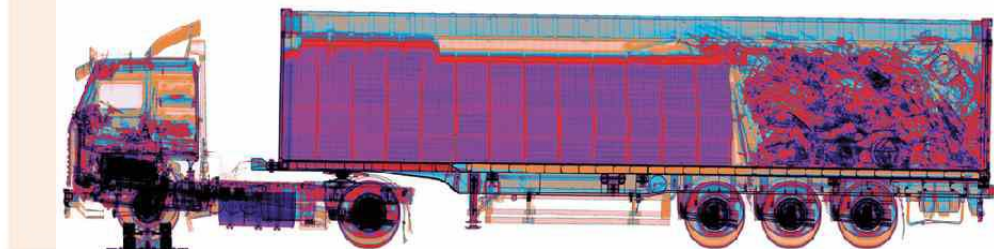
(Explosives, chemical & bio agents)



Conventional x-ray



Cargo x-ray



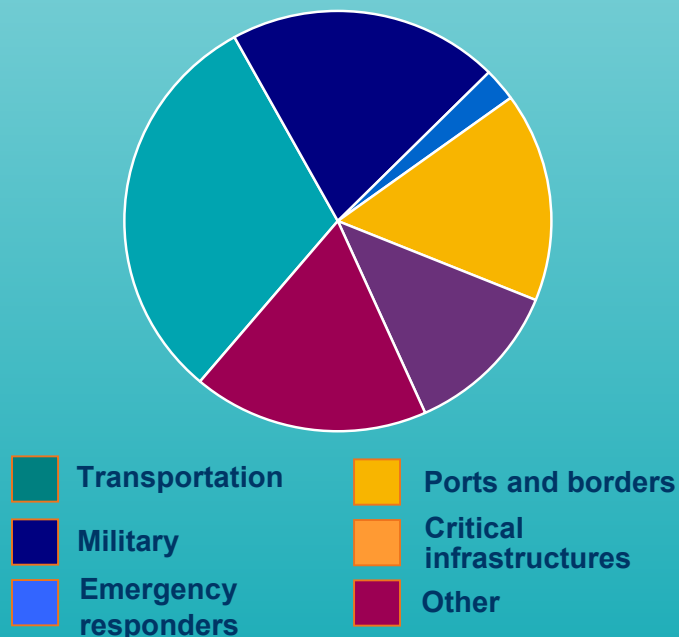
Infra-red chemical analysis



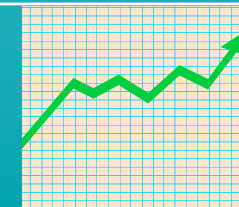
Broad range of markets

Military	
Transportation	
Critical infrastructures	
Emergency responders	
Ports and borders	

Smiths Detection sales 2004
£317 million



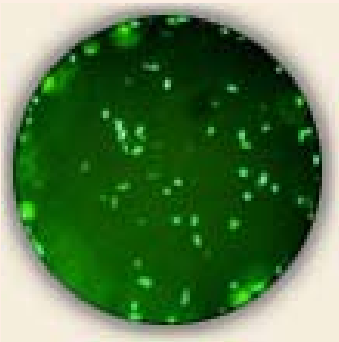
Double digit market growth in near term



Recent acquisitions



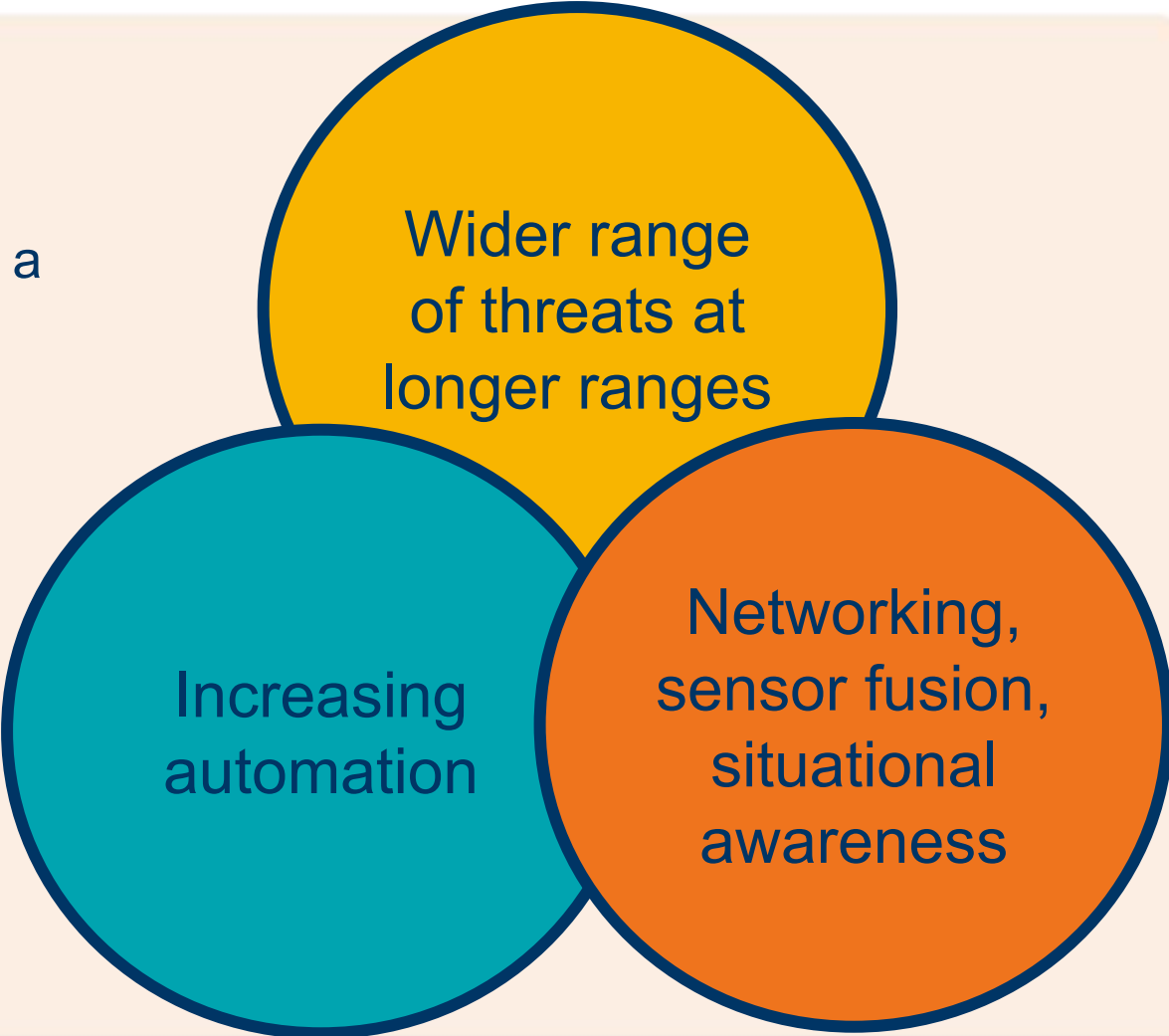
Farran – Millimeter wave imaging system and Millimeter wave devices and



ETI – Real time bio agent detection

Technology as a force multiplier

Technology will develop in three directions to act as a force multiplier for guard and security forces



Technology in threat detection

	Access Control		Building	Perimeter or area
	People	Vehicles/goods		
Weapons	AMD, millimetre wave, backscatter X-Ray	X-Ray,	N/A	Stand-off detection (MMV, laser)
Explosives	Trace portals, millimetre wave, backscatter X-Ray	Trace, EDS on board, bulk, Nuclear techniques	N/A	Stand-off detection (MMV, laser)
Chemicals	Handheld detectors	Handheld detectors (Requires cargo search)	Trace detection in HVAC	Networked trace detectors, Standoff detection
Bio	No	No	Trace detection in HVAC	Dry filter units. Point Bio detectors (\$\$\$)
Radiation	Simple gamma detectors, isotope discrimination	Simple gamma detectors, isotope discrimination	Trace detection in HVAC	Point Rad detectors

Available now
Coming

Technology at the checkpoint – Automated detection of explosives on people

- Next Generation Sentinel
- Sentinel is the most sensitive portal available
- Presently being evaluated at US Airports in preparation for deployment
- Evaluated for drug detection in the UK with excellent results
- 7 people per minute



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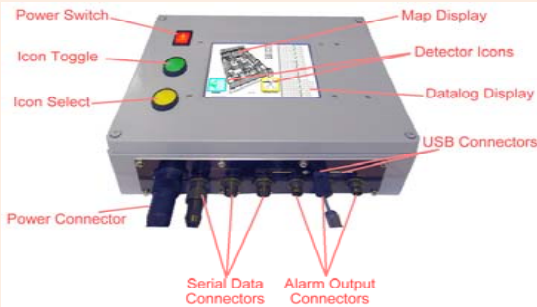
Technology in buildings protection

Automated chemical detection for buildings

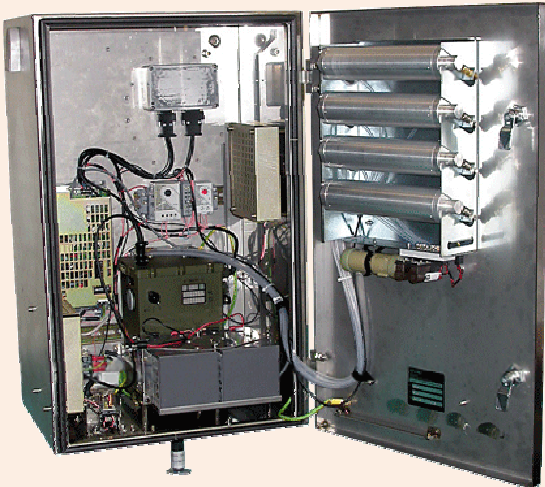
- Range of Chemical Detector are protecting major US Gov't Buildings
- Over 450 units deployed
- Broad detection capabilities/ Chemical weapons and TICs
- Fully networked



Centurion for HVAC systems



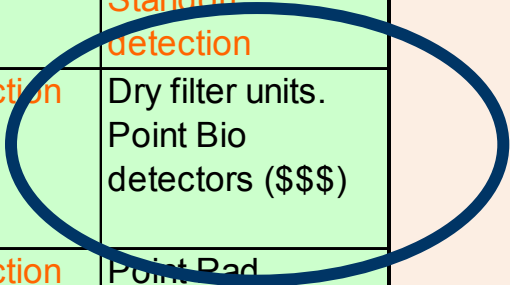
Typical control box



GiD 3 24/7 for area perimeters

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Technology in area protection

Automated point Bio detection (EPBD)

- **Capabilities**

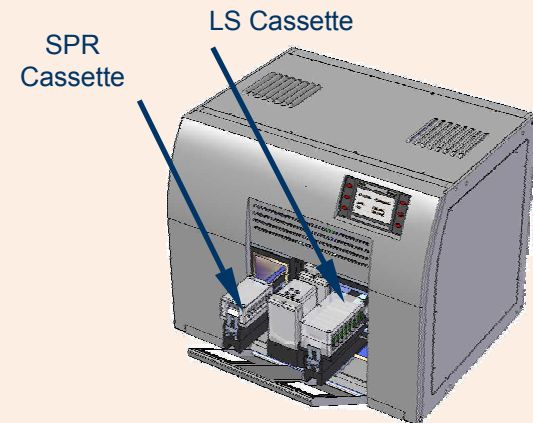
- Rapid, continuous, sensitive, real-time IDENTIFICATION
- Stand alone 24hr, 7 day operation.
- Simultaneous identification of all agent classes (bacteria, spore, virus, toxin).

- **Demonstrated Performance**

- Identification of all agent classes in lab and field trials within 5-15mins.

- **Anticipated availability**

- Evaluation units available early 2006.



Networked Integrated Defense



Cargo X-Ray



UAV



Bio-Seq



ACADA



Environmental Protection



Visualization / Display

Situation Awareness



Meteorological Data



CBRNE Building Monitoring



SABRE 2000



GID 24/7



LCD-3



Sentinel II

**FULLY NETWORKED
TOTALLY INTEGRATED
SOLUTION**

Smiths Detection

