Smiths Detection
Perimeter security summit
Washington, 17 May 2005

Presentation by: Bill Mawer
VP strategy, business development, technology. Smiths Detection

www.smithsdetection.com
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

- ETG acquisition
- Barringer acquisition
- Heimann acquisition
- Cyrano and SensIR acquisitions

Sales growth in £m from 1999 to 2004.
Wide range of detection technologies

Trace detection
(Explosives, chemical & bio agents)

Conventional x-ray

Cargo x-ray

Infra-red chemical analysis

Smiths Detection
### Broad range of markets

<table>
<thead>
<tr>
<th>Market Type</th>
<th>Image</th>
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<tbody>
<tr>
<td>Military</td>
<td><img src="image" alt="Military" /></td>
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<tr>
<td>Transportation</td>
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<td>Ports and Borders</td>
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#### Smiths Detection Sales 2004

£317 million

- Transportation
- Military
- Critical Infrastructures
- Emergency Responders
- Ports and Borders
- Other

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

- **Wider range of threats at longer ranges**
- **Increasing automation**
- **Networking, sensor fusion, situational awareness**
# Technology in threat detection

<table>
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<th></th>
<th>Access Control</th>
<th>Building</th>
<th>Perimeter or area</th>
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<td><strong>People</strong></td>
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<td><strong>Explosives</strong></td>
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<td>Handheld detectors</td>
<td>Handheld detectors (Requires cargo search)</td>
<td>Trace detection in HVAC</td>
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*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
## Technology in threat detection

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<td>Networked trace detectors, Standoff detection</td>
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<td>Trace detection in HVAC</td>
<td>Dry filter units. Point Bio detectors ($$$)</td>
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*Available now Coming*
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

CBRNE Building Monitoring

Cargo X-Ray

UAV

Bio-Seeq

ACADA

Visualization / Display

Environmental Protection

Situation Awareness

CBRNE Building Monitoring

SABRE 2000

GID 24/7

LCD-3

Sentinel II

FULLY NETWORKED TOTALLY INTEGRATED SOLUTION

Smiths Detection