

Introduction to Chemring July 2011



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Chemring Group



Pyrotechnics

£1.6bn

10-20%



Counter-IED

£3bn

c.4%



Munitions

£10bn

c.1%



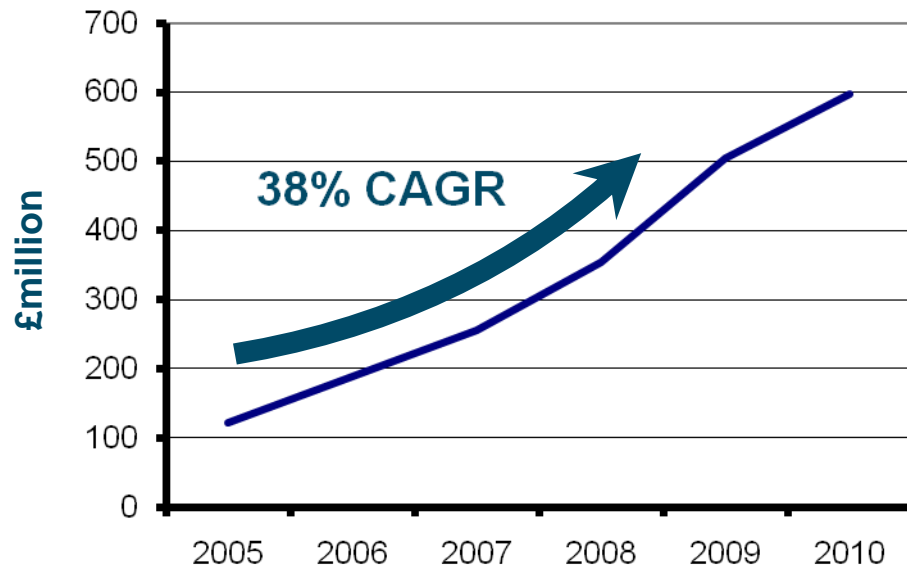
Countermeasures

£390m

47%

Global Market

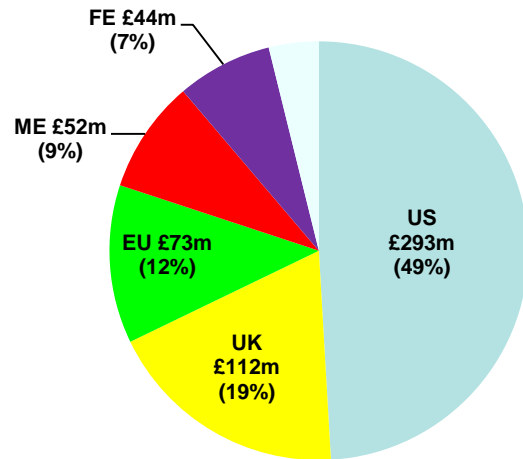
**Chemring
Market Share**



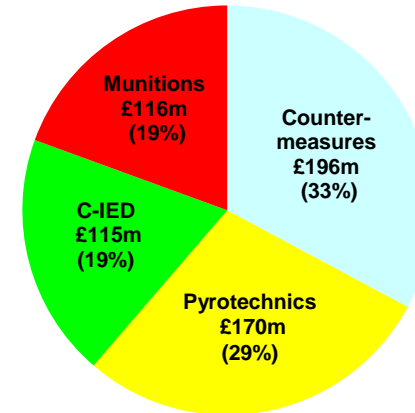
- 2010 Revenues: £597m
- 2010 underlying PBT: £117m
- 4,000 employees
- High margin, niche growth
- Sales to 80 countries around the world
- 21 facilities in 8 countries

Global Customer Base

Revenue by Destination



Revenue by Segment

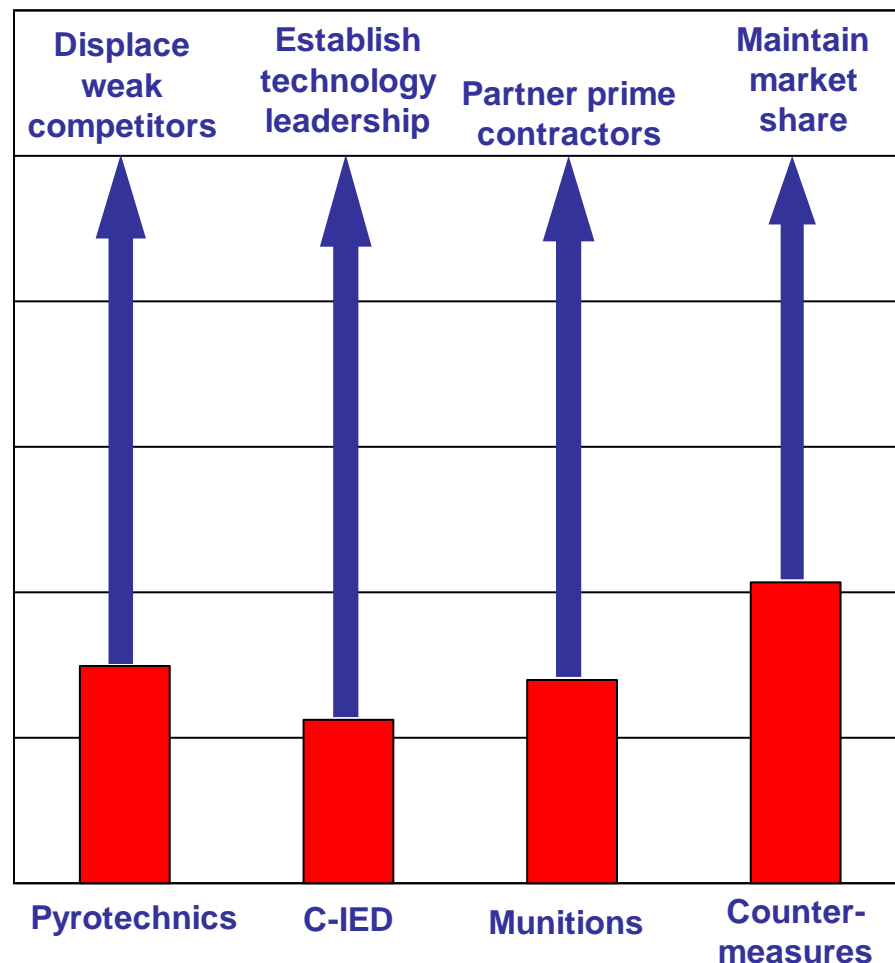


- US DoD is Chemring's largest single customer; US Air Force is largest component
- Chemring is the principal supplier of flares to US DoD and UK MoD
- Chemring has extensive relationships with prime contractors
 - *BAE Systems*
 - *ATK*
 - *Saab Dynamics*
 - *Raytheon*
 - *General Dynamics*
 - *Martin Baker*
 - *Boeing*
 - *Lockheed Martin*

Core Strategy

Strategic Intent:

- **Excellence in core competences**
 - *Energetic materials*
 - *High product reliability and integrity*
 - *High volume manufacturing*
 - *Growing dependence on electronics*
- **Balanced global geographic market profile**
- **Expand Pyrotechnics**
 - *...become undisputed World Leader*
 - *...new products transform user operations*
- **Counter-IED**
 - *... be a World Leader in detection & neutralisation*
 - *...maintain lead in GPR and jamming technology*
- **Develop a strong Munitions business**
 - *...be a supplier of choice for Munition Primes*
 - *...be a niche Prime Contractor*
- **Maintain world lead in Countermeasures**
 - *...exploit lead in SMD, spectral & thrusted flares*
 - *...be the leader in naval launchers and rounds*
- **Consolidation for synergy & critical mass**



Geographic Strategy



Global Manufacturing Footprint



- Manufacturing operations in eight strong defence-spending countries
- Global manufacturing footprint provides flexibility to match customer orders
- Focussed programme of capital investment

Pyrotechnics Market – Global Market c.£1.6bn



Screening



Marine Distress



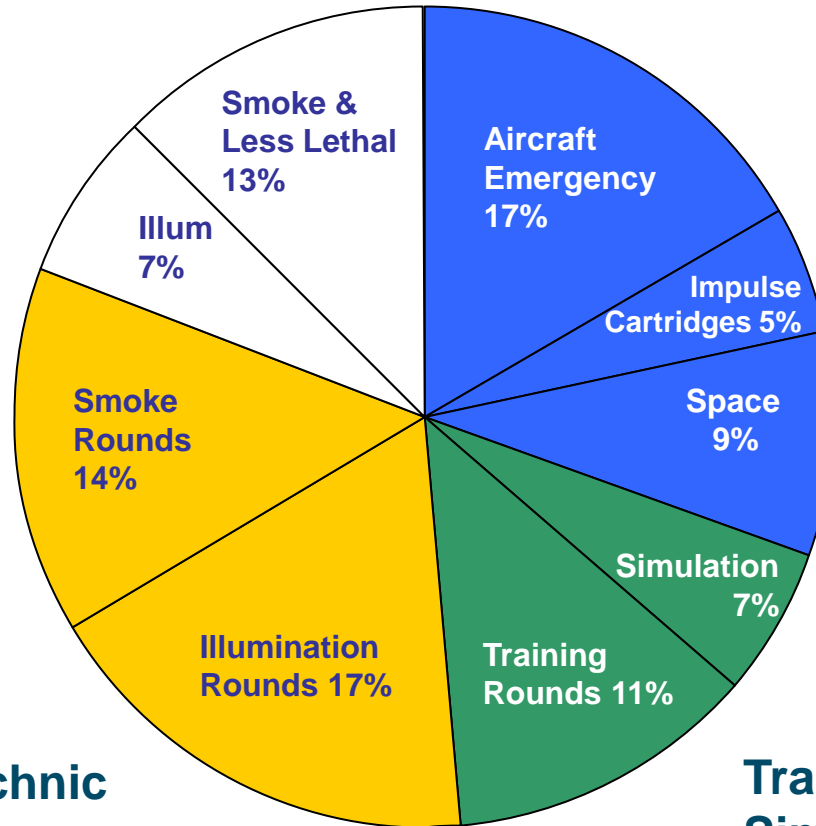
Mortar Illum



Black Light Payloads

**Smoke & Illumination
Products 20%**

**Pyromechanisms
31%**



**Pyrotechnic
Rounds 31%**

**Training &
Simulation
18%**



Aircraft Egress



Impulse Cartridges



Space



IED Simulator

Pyrotechnics Strategy



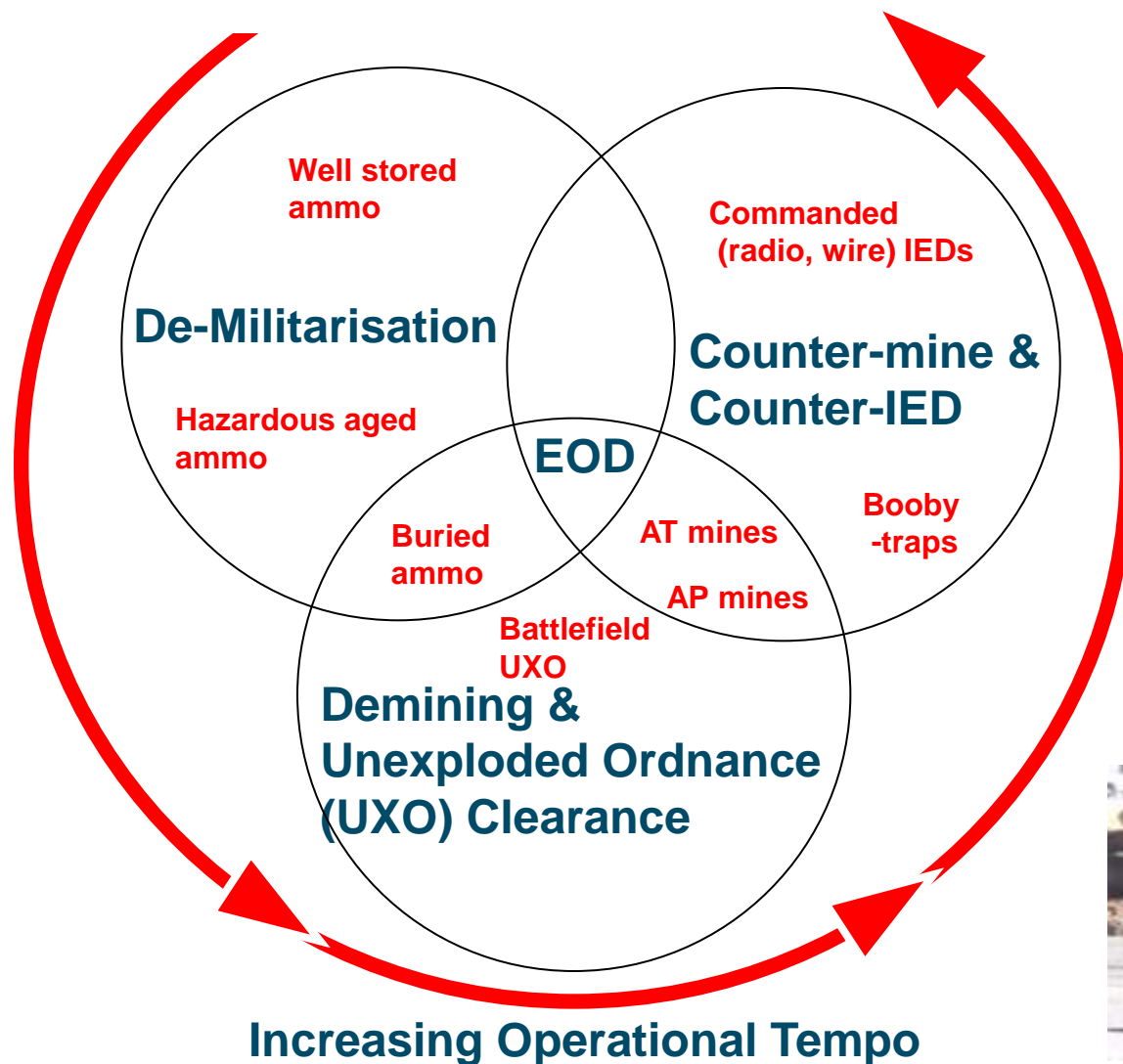
Pyrotechnics is a highly fragmented market

- Chemring has a 15% market share
- Large number of small competitors
- Not considered a priority market by large companies
- Many national champions with limited international access
- Often small or family-run businesses with:
 - *Manual manufacture and assembly*
 - *Low product investment*
 - *Aging technology*

Chemring strategy

- Rapidly develop new products
- Displace current incumbents
- Establish position as cost-competitive second source
- Become world leader in pyrotechnics

Explosive Ordnance Disposal – Global Market c.£3bn



EOD Strategy



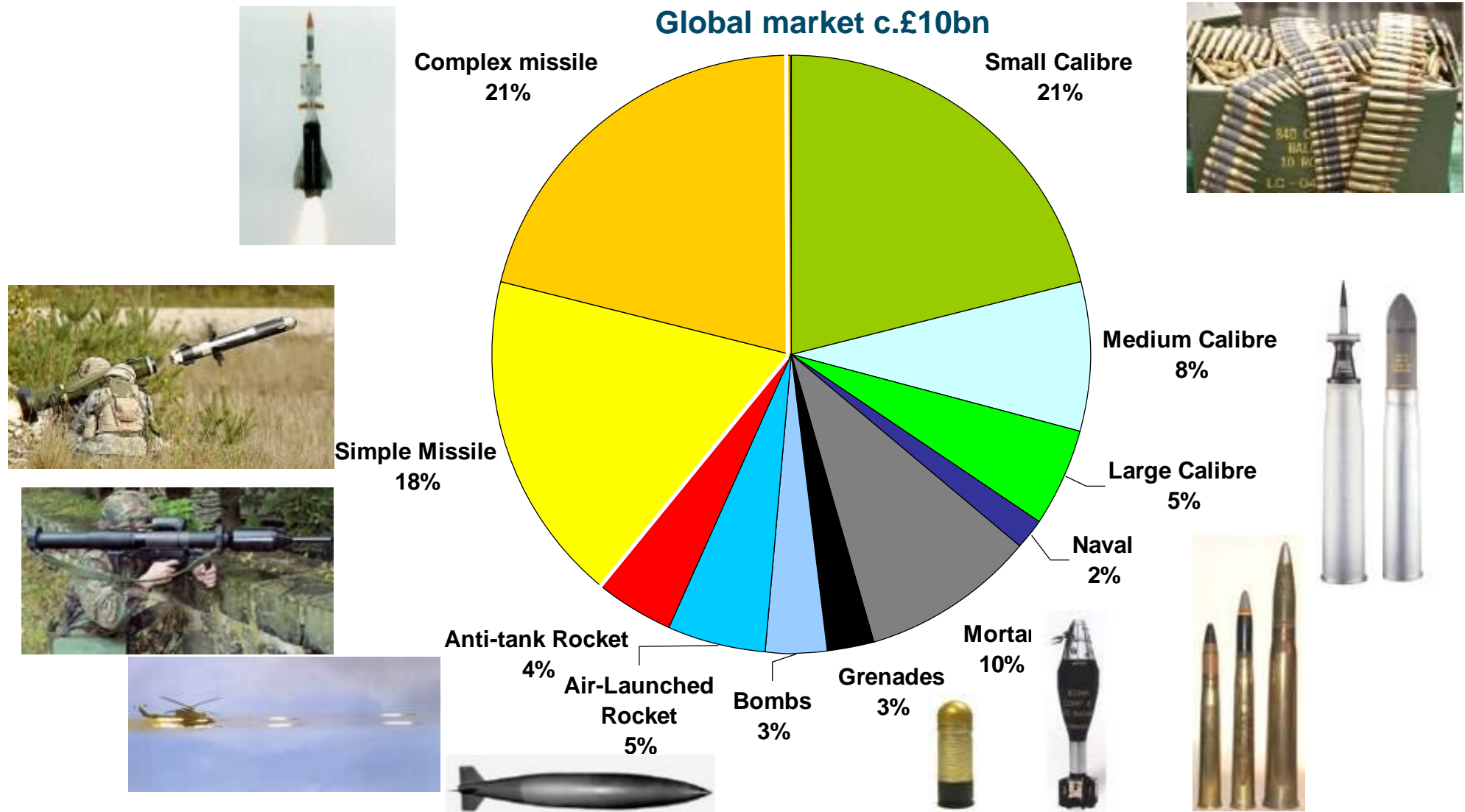
Highly fragmented market

- Large number of small players
- Users have a strong explosives background
- Fast technology cycle
 - *Rapidly evolving threat*
 - *Users need rapid prototyping*
- Constraints on sensitive technologies
- Electronics are a significant part of the market

Chemring strategy

- *Maintain world lead in:*
 - *Disrupter technology*
 - *Weapon carriers*
 - *Demolition stores*
- *Expand detection & jamming*

Munitions Market – Global Market c.£10bn



Munitions Subsystems Strategy



■ Propellants and rocket motors

- *Complete qualification of 155mm Modular Charge System*
- *Build on NLAW position and expand relationships with missile primes*
- *Expand position on 70mm & 81mm rockets*

■ Fuzing

- *40mm grenades – develop self-destruct fuze technology*
- *Mortars – complete development of cost competitive fuze products*
- *Medium calibre – establish position on US programmes*

■ Warheads

- *Expand position on European missile programmes – start PAAMS production*
- *Complete work with Nexter on NTO IM technology*
- *Penetrate US and European markets with range of IM products (DPX series)*

■ Pellets & Primers

- *Grow partnerships with leading prime contractors in US and Europe*

Munitions Strategy



■ 40mm Grenades

- *Develop complete family of ammunition including pyrotechnic rounds*
- *Grow strategic supplier relationships with US prime contractors*
- *Introduce medium velocity technology to US and Europe*
- *Build position as major exporter*

■ Mortars – 60mm, 81mm, 120mm calibres

- *Maintain BAE Systems partnership*
- *Develop GD relationship on lightweight mortar*
- *Develop pyrotechnic payloads for US market*

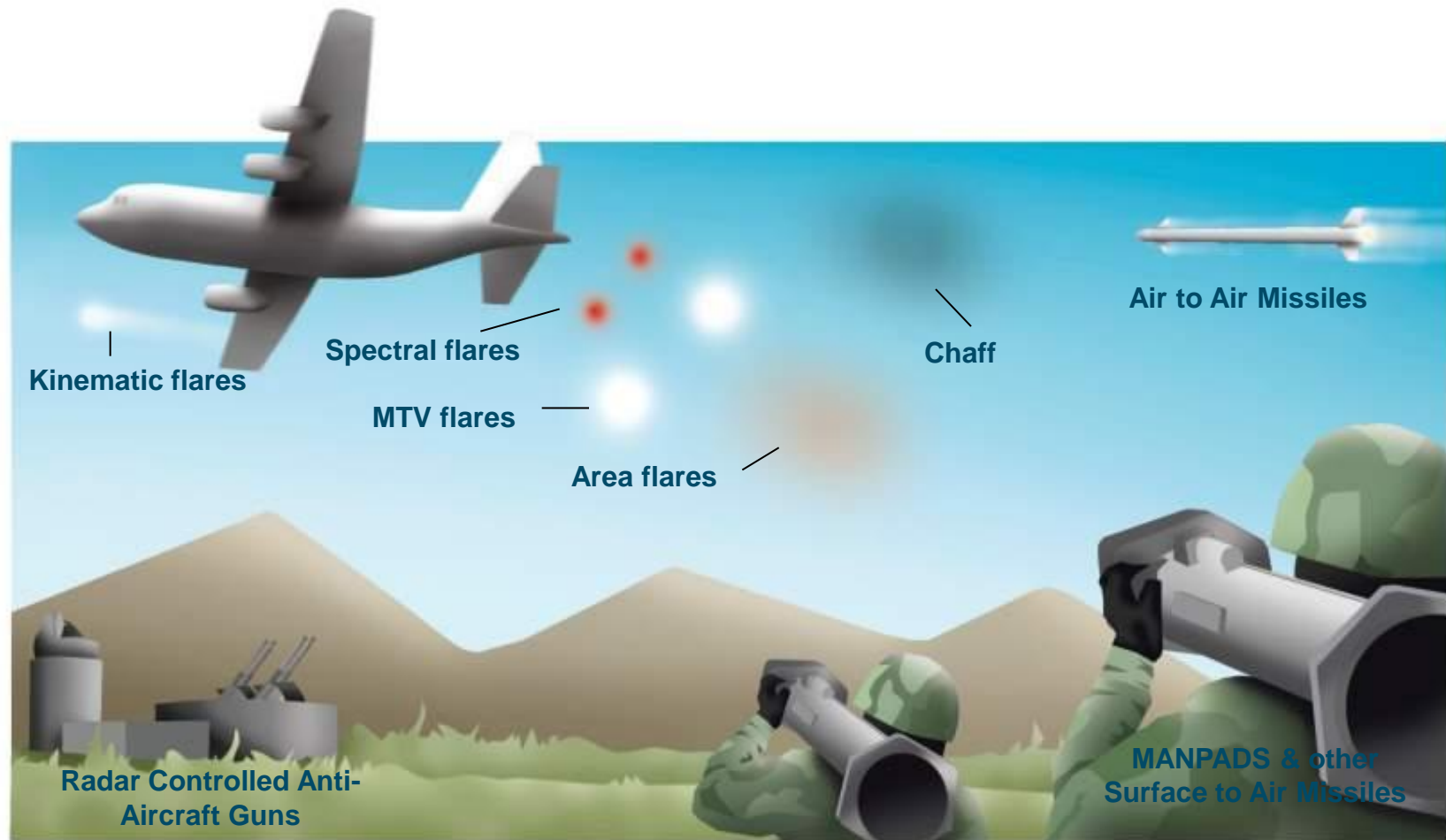
■ Naval ammunition

- *40mm L60 & L70 – expand export market position, including US Air force*
- *76mm L62 – maintain position with key customers (NATO, Middle East, India)*
- *127mm L54 – complete development of IM, microwave fuze and PFF variants*

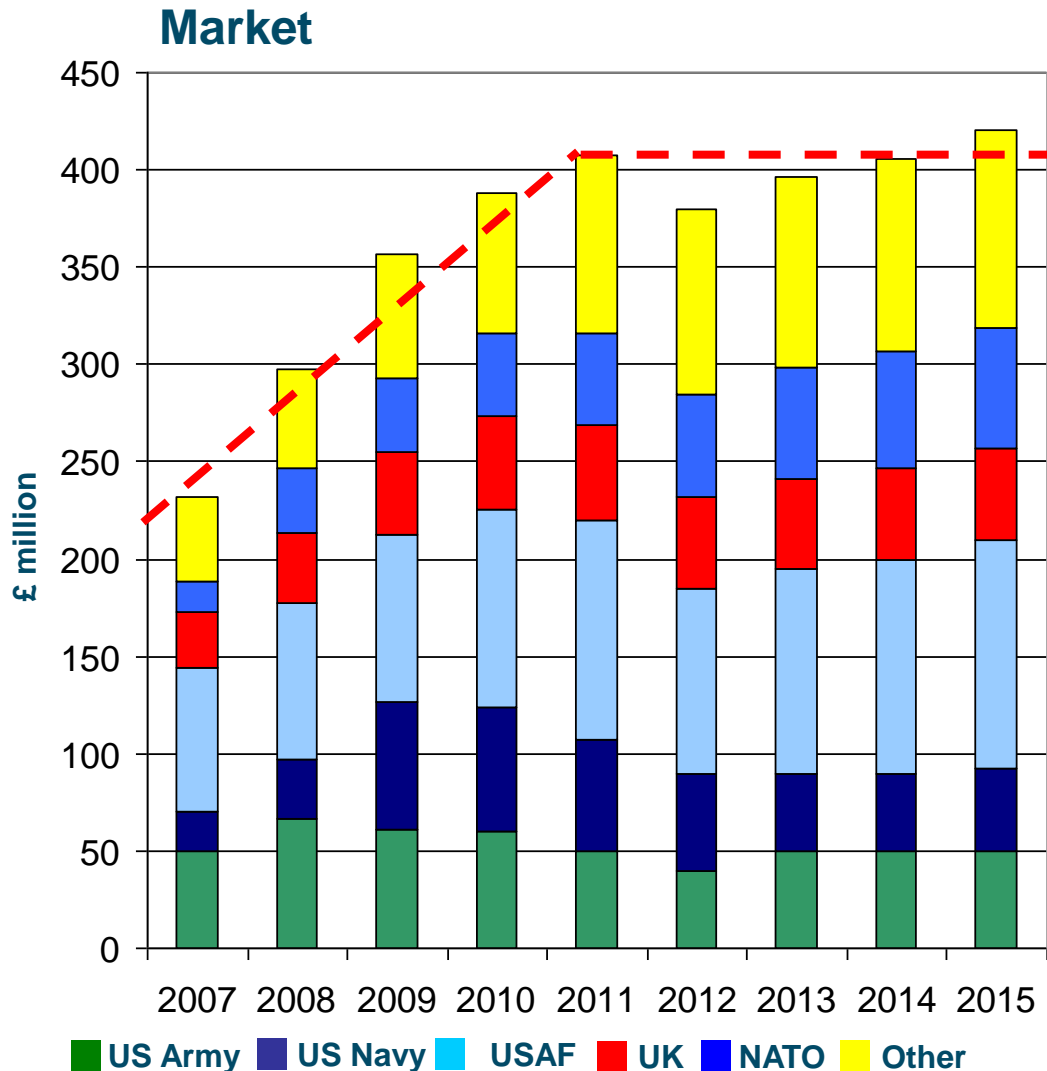
■ Tank ammunition

- *Maintain niche prime contractor position*

Countermeasures – Threat



Countermeasures Market



Source: Internal estimates based on US program documentation to FY 2011 & export market knowledge

Market plateaus from 2011

- 2012 dip due to 2011 US budget squeeze
- but further DAS / Dispenser penetration
- and increased cost of advanced flares

NATO & export market growth

- Increased peacekeeping and training
- Typhoon delivery profile to EU & ME
- Growing demand for naval countermeasures
- UK, Australia, India, Turkey & South America

US Air Force growth

- Advanced flares for air-to-air superiority
- Record order book for F-22 & B-52
- Production of flares F-35s starts in 2011

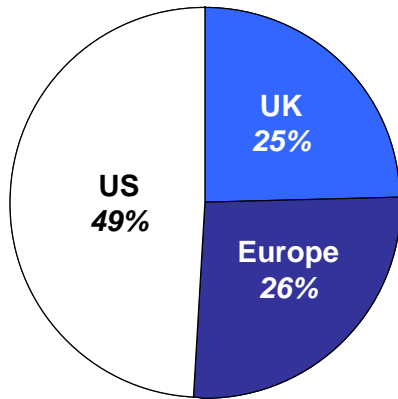
US Navy reduction

- FY11 budget squeeze
- Growing interest in Bol/IR for F-18 & MV22

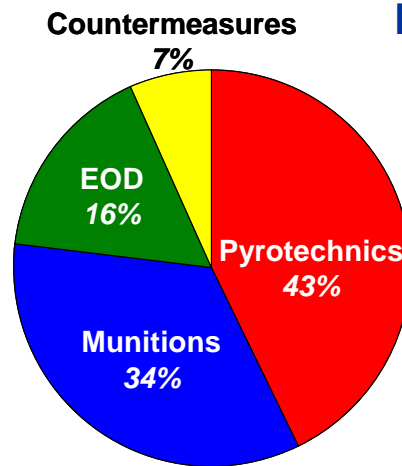
US Army reduction

- FY11 budget squeeze
- Withdrawal from Iraq
- 250 more helicopters in Afghanistan

Acquisitions



Geographic Balance

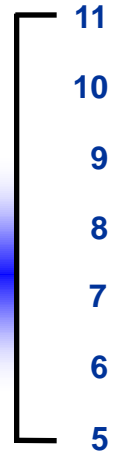


Split by Segment

PAT Multiple



EBITDA Multiple



Valuations in the range 9-16 x PAT

Total investment on acquisitions from 2005 – 2010 c.£430m

Acquisition Timeline 2005-2011

