

# CHEMRING GROUP PLC

**Introduction to Chemring Group PLC** 







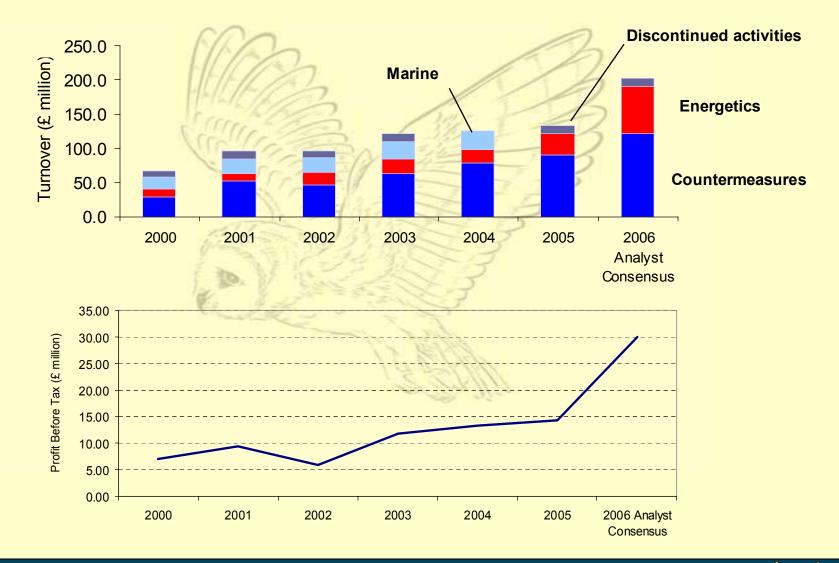
# **Chemring Group PLC**

- Chemring, a FTSE 250 company, has:
  - > a market capitalisation in excess of £500m.
  - a compound underlying EPS growth rate of 14% for the last 6 years.
  - > operations in UK, USA, Germany, Spain, France & Australia
  - > successful market access to 70+ countries world-wide
- World Leader in expendable countermeasures.
- Core Competencies in:
  - > the design & manufacture of energetic materials
  - high volume manufacturing
  - high reliability & safety





## **Historical Performance**







### **Our Vision**

"....To be the leading producer of countermeasures & energetic materials for the global defence market."

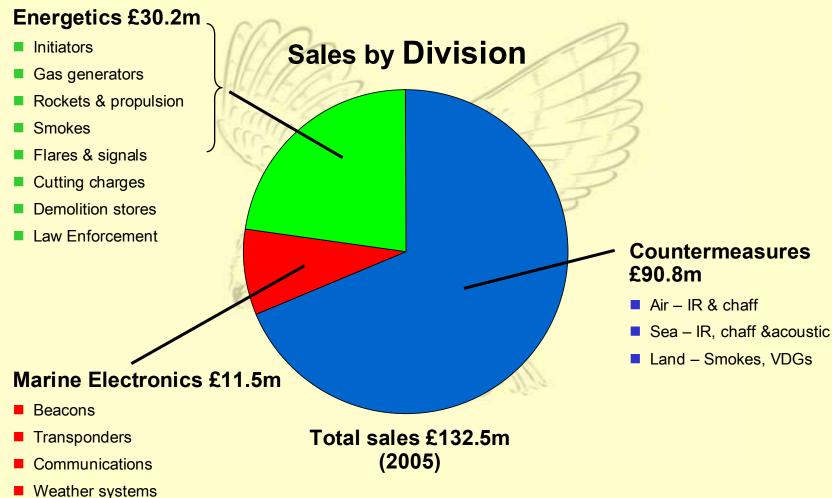
### A strongly focussed company:

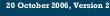
- Priority to deliver above average shareholder returns
- Balanced US/European production
- Global supply to defence, government & law enforcement Customers





### **Chemring Group PLC – The Company Today**





Survivor location lights





# CHEMRING GROUP PLC Operating Companies

Countermeasures Companies **Alloy Surfaces** Philadelphia, USA **Kilgore Flares** Tennessee, USA Chemring Countermeasures Salisbury, UK Cirra (49%) **France** 

**Energetic Materials Companies BDL Systems** Poole, UK Comet Bremerhaven, Germany Leafield Engineering Corsham, UK **Nobel Energetics** Ardeer, UK Chemring Australia Victoria, Australia **PW Defence** Derby, UK **PWSS** Portsmouth, UK **Technical Ordnance** South Dakota, USA Oroquieta (51%) Pamplona, Spain

Marine Electronics
Companies

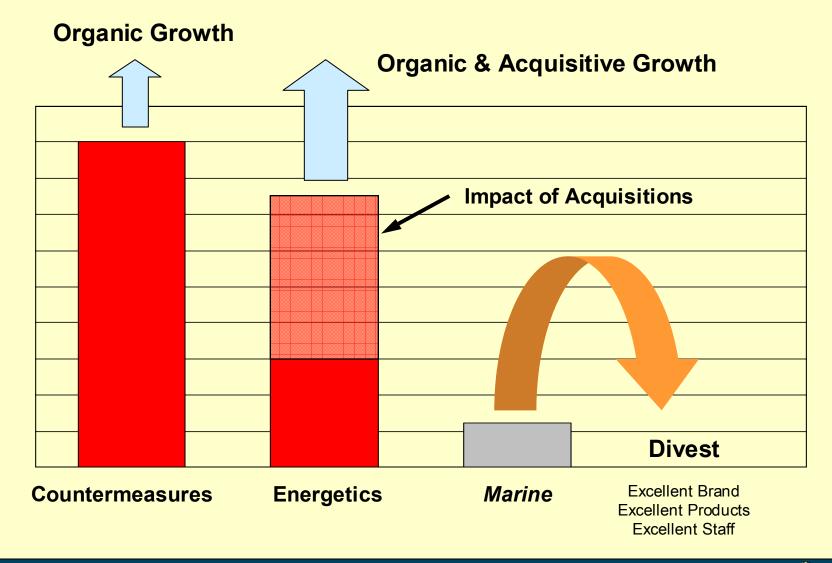
McMurdo
Portsmouth, UK

ICS Electronics
Arundel, UK





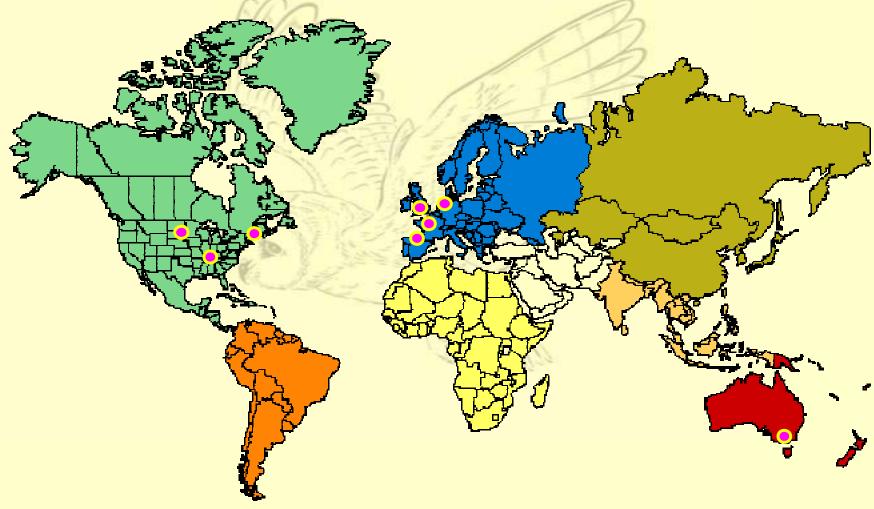
### **Corporate Strategy**







# Chemring is a Multi-domestic Group with Manufacturing in the USA, UK, Germany, Spain and Australia

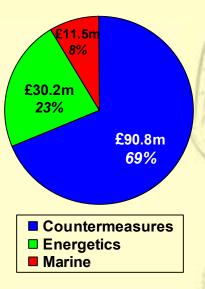






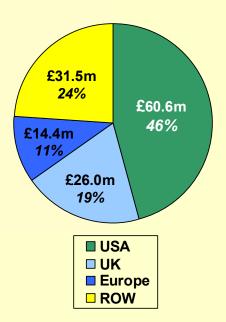


### **Analysis of Turnover**



- Countermeasures remains dominant business.
- New acquisitions will enhance size of Energetics.

- US remains largest market at 46%.
  - US Airforce is largest Customer
  - US Army using more Special Material Decoys
- UK sales have grown from £21m to £26m
  - RAF using more Special Material Decoys
  - Chemring largest supplier to MOD









# **Geographic Strategy**



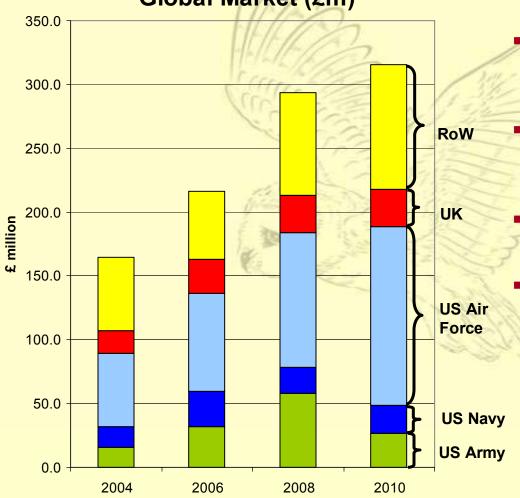






### The Global Countermeasure Market





- Decoy market expected to grow steadily with ongoing threat
- UK deployment in Afghanistan increases decoy usage
- Typhoon flare suite adds to existing demand
- USAF largest user & plans to buy new products:
  - ➤ M.JUJ-10
  - **ALA-17 for B-52**
  - F-22 advanced flares
  - JSF advanced flares
  - V-22 introduction

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





### **New Platforms**







### **Helicopters:**

- Tiger France, Germany, Spain, Australia
- NH-90 Germany, France, Italy, Holland, Sweden, Finland, Norway, Australia, Greece, New Zealand, Spain
- EH 101 UK, US, Japan, Portugal, Canada, Italy, Denmark

### **Transport Aircraft:**

- > V-22 US, others?
- A400m Germany, France, Spain, UK, Turkey, South Africa, Belgium, Malaysia, Luxembourg

### **Combat Aircraft:**

- > **F-22** US, Japan(?)
- JSF US, UK, Italy, Holland, Turkey, Canada, Norway, Australia
- Typhoon UK, Germany, Italy, Spain, Austria Saudi Arabia
- Su-30 India, Indonesia, Malaysia, Algeria





### **Growth in Helicopter Protection**

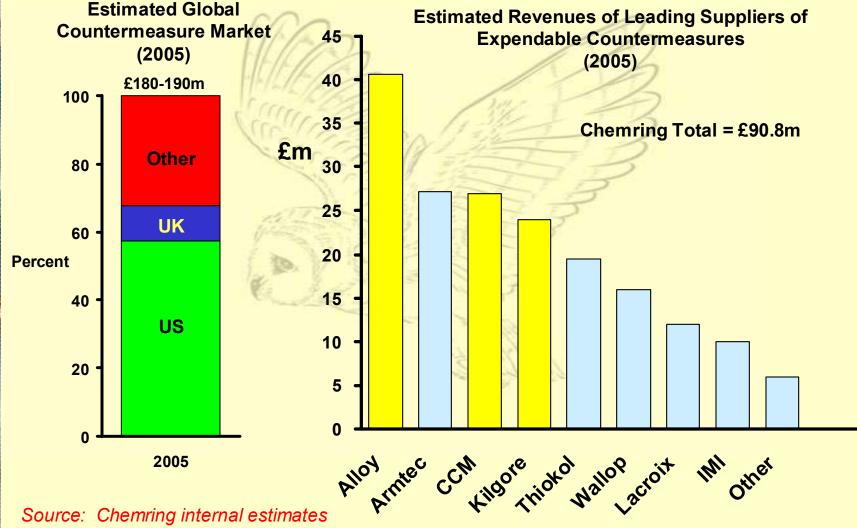


- Increasing threat to helicopter platforms
  - **High profile target**
  - Vulnerable to attack low altitude, slow
  - **Development of helicopter Defensive Aids** Suites (DAS) by major systems prime contractors
  - Growth in helicopter fleet fitted with countermeasures dispensers
    - Apache HIDAS upgrades for UK, Kuwait, UAE, Greece, Singapore, Saudi
    - > NH90 & Tiger DAS and countermeasure dispensers fitted as standard





### **The Countermeasures Market in 2005**







### **Countermeasures - Air**









**Decoys for Fixed Wing A/C** 



**Decoys for Helicopters** 



Wide Range of Circular IR Flares





### Countermeasures - Naval











**Naval Rounds and Payloads** 





# **Energetics**



**Coloured Signaling Smoke** 



**Large Caliber Primers** 



**Stun Grenades & Explosives** 



**Propellants** 



**Pyromechanisms** 



Missile components



**Electrical and RF Initiators** 



**Battlefield Simulation** 

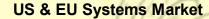


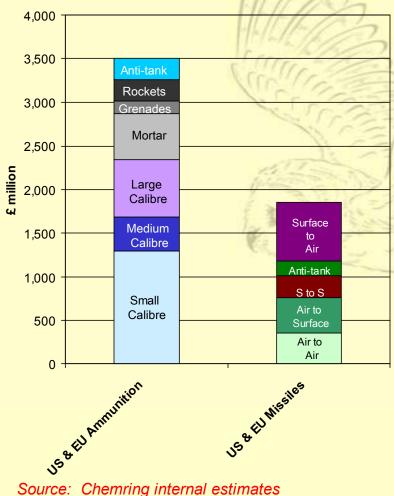
**Illumination Flares** 



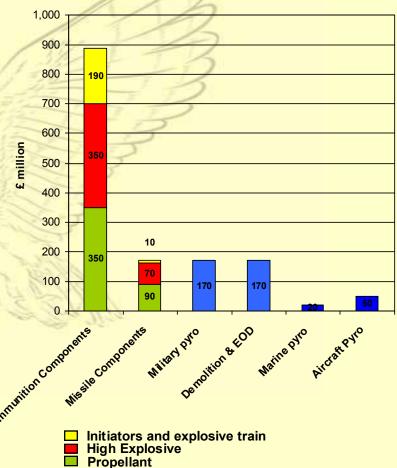


# **US & EU Energetics Market**





### US & EU Energetic Materials Market



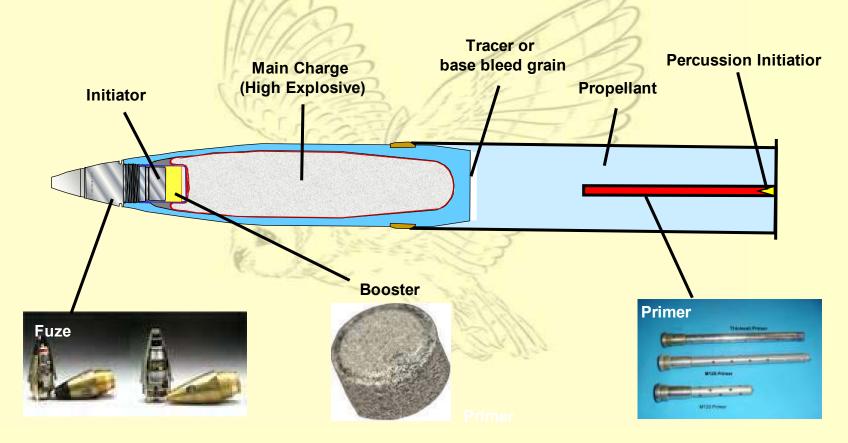
Pyrotechnics, cartridges and products







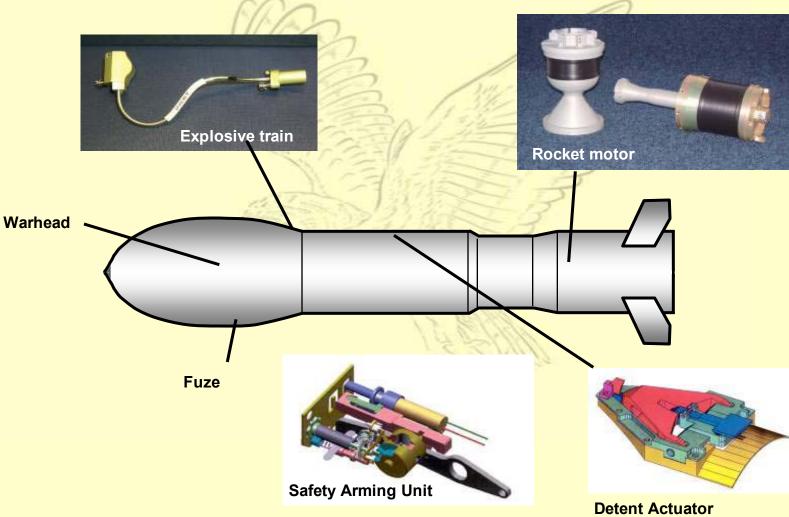
# Energetics – Ammunition Components







# **Energetics – Missile Components**







# **Energetics – Military Pyrotechnics**



**Coloured Signaling Smoke** 



Stun Grenades and Cutting Charges



**KC-25 Marine Location Marker** 



**MANPADS Simulation** 



**Battlefield Simulation** 



**Vehicle Discharge Grenades** 



# **Energetics – Demolition Stores**



**Explosives** 



**Electrical and RF Initiators** 



**Shaped Charges** 



Detonators and stores



Mine Breaching





# **Energetics – Aircraft Pyrotechnics**



Ejector seat and crew egress

- Seats
- Shaped cutting charges
- Fire suppression



Line cutters





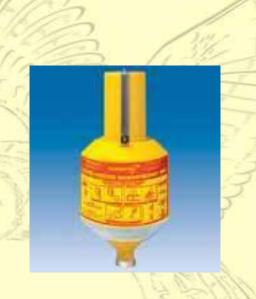
# **Energetics – Marine Pyrotechnics**



Handflares



Lifesmokes



Man Over Boards (MOBs)

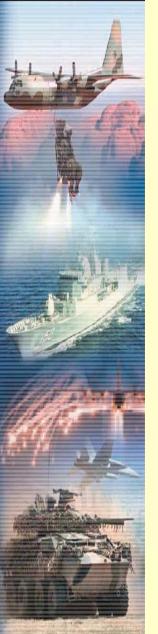


Para rockets



**Speedlines** 





## **Customer Strategy**

Customers

Defence OEM

Defence End User Defence Prime Contracting

**Marine** 

Market Segments

Service / Products

### **Segments**

- Ammunition
- Missiles
- Military Pyrotechnics
- Aircraft Pyrotechnics
- •Niche

### **Products**

- •Sub Systems.
- •Pyro mechanisms.
- •Propellants.
- •HE.
- Demolition Stores

### **Segments**

- Countermeasures
- •Ammunition
- Military Pyrotechnics
- •Dem Stores, EOD IED
- Aircraft Pyrotechnics

### **Products**

- •Countermeasures
- Ammunition
- Military Pyro
- Demolition Stores

### Segments

- Countermeasures
- Ammunition
- Military Pyrotechnics
- •Dem Stores, EOD IED
- Aircraft Pyrotechnics

### **Products**

•Chemring & Out Sourced Products

### **Segments**

- •Commercial Marine
  •Leisure Marine
  - **Products**
- •Commercial Pyro.
- •Leisure Pyro.

