Programme

- EDA Background
- Ongoing EDA Projects
- EDA CBRN
- EDA CIED
Programme

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<table>
<thead>
<tr>
<th>Category</th>
<th>Europe*</th>
<th>US**</th>
</tr>
</thead>
<tbody>
<tr>
<td>GDP:</td>
<td>€11,3 Trillion</td>
<td>€ 10,5 Trillion</td>
</tr>
<tr>
<td>Total Defence Expenditure:</td>
<td>€201 Bn</td>
<td>€491 Bn</td>
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<tr>
<td>Personnel Expenditure:</td>
<td>€110 Bn</td>
<td>€100 Bn</td>
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<tr>
<td>Operations &amp; Maintenance:</td>
<td>€43,3 Bn</td>
<td>€169,2 Bn</td>
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<tr>
<td>Equipment Procurement:</td>
<td>€29,1 Bn</td>
<td>€83,0 Bn</td>
</tr>
<tr>
<td>Research &amp; Development:</td>
<td>€9,7 Bn</td>
<td>€58,0 Bn</td>
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<tr>
<td>(Includes: Research &amp; Technology)</td>
<td>€2,6 Bn</td>
<td>€13,6 Bn</td>
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</tbody>
</table>

*Europe means 26 EDA participating Member States

**Euro/Dollar exchange rate is based on average for 2006: rate of 1,2556
European Collaborative Equipment Procurement as a Percentage of Total Equipment

- Belgium: 24.5% in 2007, 28.4% in 2008
- France: 18.3% in 2007, 23.8% in 2008
- Finland: 6.0% in 2007, 17.6% in 2008
- Germany: 13.9% in 2007, 13.1% in 2008
- Italy: 39.6% in 2007, 23.8% in 2008
- Lithuania: 51.3% in 2007, 34.4% in 2008
- Luxembourg: 48.7% in 2007, 71.6% in 2008
- Portugal: 51.3% in 2007, 48.7% in 2008
- Spain: 60.4% in 2007, 71.2% in 2008
- United Kingdom: 51.3% in 2007, 78.7% in 2008

2007: Remaining Percentage of Equipment Procurement
2008: Percentage of European Collaborative Equipment Procurement
EDA Participating Member States pMS
The EDA in the European Institutions
Mission and functions

Promotion & enhancement of European armaments cooperation

Development of defence capabilities in the field of crisis management

Enhancement of effectiveness of European Defence Research and Technology (R & T)

Strengthening DTIB for the creation of an internationally competitive European Defence Equipment Market

“... to support the Council and the Member States in their effort to improve the EU’s defence capabilities in the field of crisis management and to sustain the ESDP as it stands now and develops in the future.”

Improve the EU’s defence capabilities
EDA Background

- Small Agency approximately 110 people
- Small budget only for enabling activities
- Only exists for member states to enhance their capabilities
- No inherent EU Capability is being built – resides entirely in Member States
- Can only do what member states want to do
- Collaborative Forum
- Can inject proposals
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EDA Industry & Markets

- European Defence Equipment Market EDEM
- European Defence Technological and Industrial base EDTIB
- Electronic Bulletin Board EBB
  - Code of Conduct (> 1 M€)
  - Code of Best Conduct in the Supply Chain
Armaments Cooperative Strategy

- More and Effective Cooperation
  - Promote Cooperative Programmes
  - Ensure the future of the EDTIB
  - Improve effectiveness and efficiency

- Strategic Approach
  - CST, CSR & CPP

- Setting the Preconditions
  - Harmonised Military Requirements
  - Member States Share Plans
Armaments Cooperative Projects

- On Going efforts
  - European Secure Software Radio
  - Mid Air Collision Avoidance System
  - Active Protection Systems for Armoured Vehicles
- Category B
  - Multinational Space based Imagery
  - Naval Mine Counter Measures
  - BIO EDEP
  - Heavy Lift Helicopter
  - Helicopter Availability
Armaments Transversal Issues

- Military Airworthiness
- European Defence Test and Evaluation Base
- Matchmaking Database
- SDR Certification
- Armaments Strategy
- EDA / OCCAR Interface
- Standardization
EDA R&T – 12 technological areas

- Capability-Technology Area = CapTech

- 12 CapTechs in 3 major blocks reflecting Capabilities

- IAP = Information Acquisition & Processing
  ----> Knowledge

- GEM = Guidance, Energy & Materials
  ----> Engage

- ESM = Environment, Systems and Modeling
  ----> Manoeuvre
### EDA R&T – 12 technological areas

<table>
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<tr>
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<tbody>
<tr>
<td>IAP01 Components</td>
<td>GEM01 Materials &amp; Structures</td>
<td>ESM01 Naval Systems &amp; their Environment</td>
</tr>
<tr>
<td>IAP02 RF Sensor Systems &amp; Signal Processing</td>
<td>GEM02 Energetics, Missiles &amp; Munitions</td>
<td>ESM02 Aerial Systems &amp; their Environment</td>
</tr>
<tr>
<td>IAP03 Optical Sensor Systems &amp; Signal Processing</td>
<td>GEM03 Ground Systems &amp; their Environment</td>
<td>ESM03 Systems of Systems, Space, Simulation &amp; Experiment</td>
</tr>
<tr>
<td>IAP04 CIS &amp; Networks</td>
<td>GEM04 Guidance &amp; Control</td>
<td>ESM04 Human Factors &amp; CBR Protection</td>
</tr>
</tbody>
</table>

**R&T Directorate : 16 people**
EDA Research & Technology

- **Ad Hoc Cat A**
  - **JIP FP**
    - 20 Contributing members (inc NO)
    - Joint budget 55M€.
    - 3yrs initial programme.
    - 8 contracts let to date
  - **JIP ICET**
    - 11 cM (including NO)
    - Joint budget 15.58M€
    - Call 1 resulted in the selection of 4 proposals that are contracted in Q4/2009.
    - Call 2 ended 16 October 16 2009

- **Ad Hoc Cat B projects**
  - Contract signed – 26
  - Awaiting contract – 3
  - In preparation – 22

- **OB R&T Contracts** – 5 total value 1.4M€
Integrated Development Teams (IDT) Project Teams (PT)

Various Lines of Development:
- Concepts & Doctrine (e.g. NEC, ISTAR Architecture, CBRN Detection, Seaborne Logistics, etc.)
- Training (e.g. Intelligence Understanding of Mission Environment, Helo Pilots Advance Training, etc.)
- Armament Cooperation (e.g. Maritime Airborne Unmanned System, 21 Cent. Soldier System, etc.)
- Operational Cooperation (e.g. Radio Spectrum Management, Information Management, etc.)
- Industrial Cooperation (e.g. Third Parties Logistic Support, etc.)
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CBRN

- PT CBRN DIM
- Ad Hoc Project Cat B BIO EDEP PREP
- PT CBRN CM
- PT CBRN EOD
PT CBRN EOD

- Taken over from the Equipment Capability Programme (ECAP) in the Western European Armaments Group (WEAG).
- Made significant progress in concepts, training, and standardisation.
- Looking to move into wrap everything together into a Common Staff Target to present this to a package to the Member States.
- Will still take forward RDD, IND, and MNT.
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EDA CIED

**Aim**
- Develop capabilities in common
- Better use resources and ensure that a plan and staff structure exists for ESDP operations; in order
- Enhance capability of the pMS to Counter an IED Campaign.

**Strategic Context**
- One of the top 12 CDP actionable points.
- Many pMS involved in current operations involving IEDs.
- Capability Development needed quickly, but enduring.

**PT Members** AT, BE, CZ, DE, EE, ES, FI, FR, IE, IT, NL, PL, RO, SE, SK, UK

**3rd Parties**
- EU Commission
- EU Council
- EuroPol
- NATO
Guidelines for Developing a National CIED Capability

- Search
- Exploitation / Weapons Intelligence
- Route Clearance
- IEDD (Including Manual Neutralisation Techniques)
- Mitigation
- TTPs
- ECM

Defeat the System
Current & Planned Work

- **CSDP Concept**
- **EU Commission to conduct an overarching review of EU CIED multi-nationally and multi-agency. (Civ / Mil) – Proposals for examination.**
  - Level 3 CIED Exploitation (EU)
  - Information / Intelligence Sharing
  - Interoperable Framework, Common Capability Requirements
  - Common Standards
  - External links

- **Manual Neutralisation Techniques**
  - Kick off meeting 27 Jan
  - 2010 - Awareness Training
  - 2011 – Exercise

- **Lessons Learned 8 & 9 June 2010**
Search Route & Clearance

- Search continue 5 year plan
  - 2011 – Basic Search TTT.
  - 2012 – Specialist Search.
  - 2013 – CBRN Search.
  - Fits with Italian National Plan
  - Courses run at Italian National CIED COE (Eng School)
  - Run by Ex-Brit Mil RESA s
  - EDA funded for pMS

- Route Clearance
  - Kick Off 10 June 2010 TALISMAN Briefing
  - pMS to express interest by end May
  - Possible IT lead
Exploitation

- **Level 3**
  - Discussed in Overarching EU CIED Review
  - Currently 1 Bespoke Laboratory in the EU (UK)
  - National Crime Laboratories.

- **Level 2**
  - EDA may spend 1m€ on Laboratory (demonstrator) this FY
  - France as Lead Nation
  - CSDP Pooled Asset
  - Could be made available to ISAF

- **Level 1 - Nil**
Potential CIED Exercise 2011

- Exercise format to be agreed
- Possible multiple vignettes
  - Strategic Civ / Mil over view seminars
  - Operational Exercise of CIED Staff Branch
  - Tactical level scenarios for CIED based on
    - Search
    - IEDD (Including MNT)
    - Scene Management
    - Exploitation
- To follow and build on IE CIED (IEDD)
- Possible venues being examined
EDA Role

- Providing a collaborative platform for pMS to develop capabilities
  • Coming together to fulfill “National Responsibilities”

- EDA Can:
  • Address conceptual issues, but not doctrine.
  • Establishment of training courses and running of 1 off pilot training.
  • Reach agreement on pan-European standards
  • The in depth development of 1 off capabilities and capacities
  • Provide a platform for pMS to find “Economies of scale” in training
  • Work on Category B Programmes
  • Be responsive to pMS requirements.

- EDA Cannot:
  • Provide on going enduring training
  • Be seen to be work FOR NATO, but MUST work WITH NATO
  • Work specifically for single or exclusive groups of Member States (within reason)