



# European Defence Agency

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EDA Project Proposal on Standardisation of T&E for BioDIM

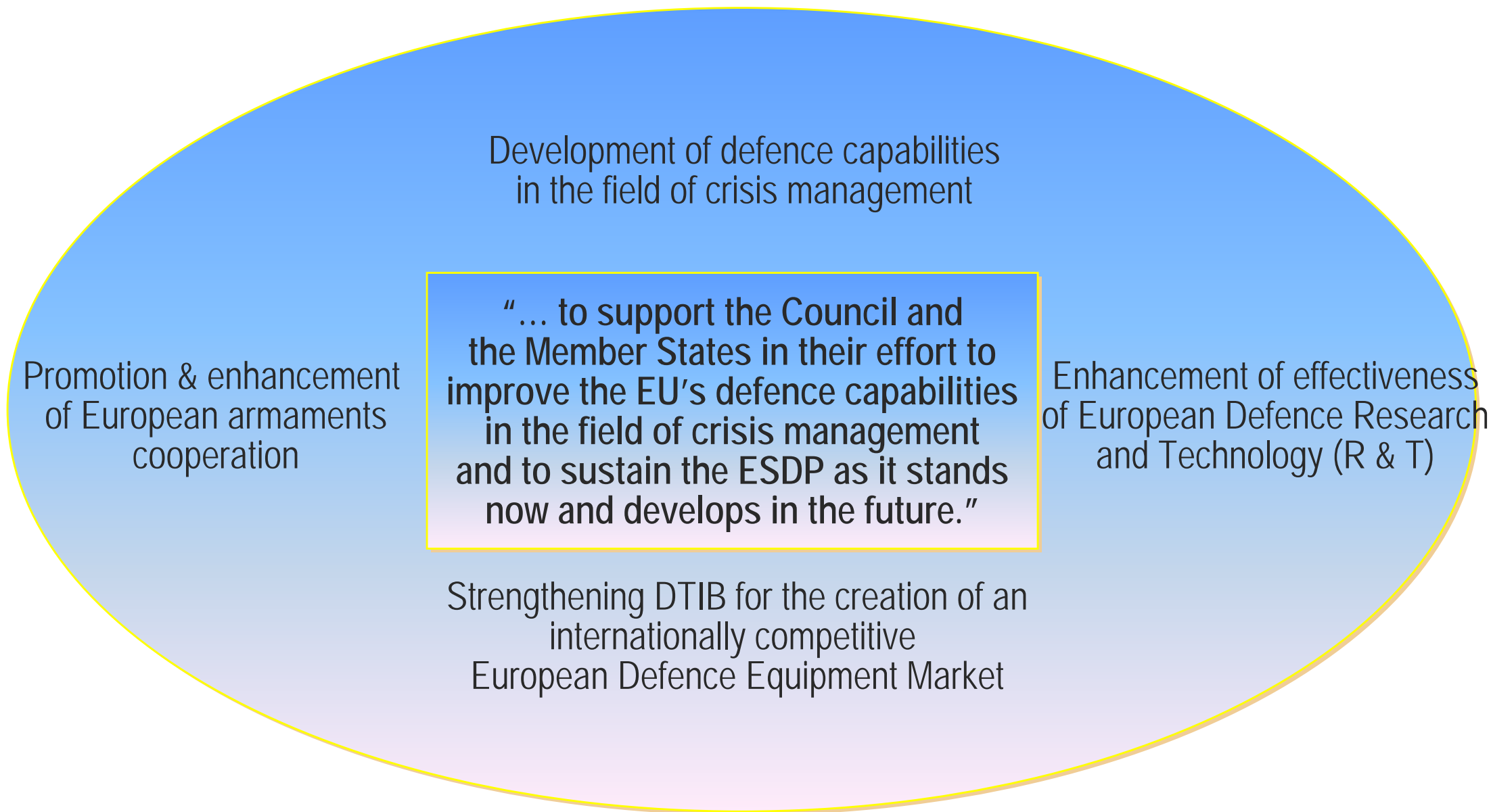
**European Defence Agency**

*Building Capabilities for a Secure Europe*

CREATIF –Testing of  
CBRNE detection equipment  
4 November 2009



# EDA Mission and functions



# The 12 technological areas – the EDA CapTechs

Information, Acquisition & Processing	Guidance, Energy & Materials	Environment, Systems & Modelling
IAP01 Components	GEM01 Materials & Structures	ESM01 Naval Systems & their Environment
IAP02 RF Sensor Systems & Signal Processing	GEM02 Energetics, Missiles & Munitions	ESM02 Aerial Systems & their Environment
IAP03 Optical Sensor Systems & Signal Processing	GEM03 Ground Systems & their Environment	ESM03 Systems of Systems, Space, Simulation & Experiment
IAP04 CIS & Networks	GEM04 Guidance & Control	ESM04 Human Factors & CBR Protection

# ‘How’ – Projects and Programmes in EDA

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## Two Categories of Budget:

- General Budget from **participating** Member States
- Project-based budget from **contributing** Member States

## Three Categories of Projects:

- Common (EDA funded) Activities (especially studies)
- Ad Hoc Category A Projects – large, ‘top down’
- Ad Hoc Category B Projects - smaller, ‘bottom-up’

# CBRN Protection: Recent Background

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- CBRN as one of 4 priority action areas identified by linking 22 Key Technologies from EDRT and 12 Capability priorities from Capability Development Plan
- Strategic Context Case issued 19/01/2009. Includes proposal to establish Capability-led PT CBRNE Countermeasures
- Good communication & understanding between Cap & R&T experts in the CBRN area
- Regular coordination with EC/FP7 – ESRP in CBRN domain
- Regular co-ordination with NATO

# CBRN Protection: Current Status

## Potential R&T Topics are:

**Short Term** – Supporting R&T (high TRL) to **BIO EDEP**

### Medium Term

- Stand Off Bio Detection
- Improved Prophylaxis/Medical Countermeasures
- Exposure to Toxic Industrial Chemicals
- Individual Protection
- Containment (C&B)
- Decontamination Tools & Techniques
- **Standardisation of Testing Methods**

**Long Term** - ? Advanced NBC Counter Terror Techniques

Area - PROTECT

Area -  
Prevent

# Why Standardise?

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We know the challenges:

Sensitivity

Selectivity

Complex Bio Background

Operation

Interpretation

Network Enabled Capability (NEC)

*et al.....*

With the aim to give force commanders the most accurate & reliable information possible in an appropriate timescale to react & recover if a bio-attack takes place.

# What are the Challenges for EDA pMS?

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BioDIM equipment, tools & techniques are for the most part developed nationally

They involve (increasingly) dual use technologies (increasing the number of stakeholders & actors)

Protocols may exist for T&E of items of equipment, but:

T&E is not co-ordinated across nations

There is a lack of European/International standardisation & interoperability for BioDIM equipment

Measuring performance needs to take into account real environmental conditions.

The purpose of the proposed project is not to provide T&E standards for equipment/systems as such, but by establishing a set of agreed testing & evaluation protocols which can be applied by the acquirers of equipment to support improved capability

Starting with a first Workshop in Summer 2009.....

# The Purpose of the 1st Workshop

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**“To draw together key stakeholders and major actors in the field of standardisation and current defence-related BioDIM research, to gather information on current activities, plans and areas of interest, and to establish a roadmap for future work to improve the level of standardisation for Bio DIM T&E”**



# Standardisation of Testing Methods for BioDIM

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Second Workshop to map technologies as a basis for co-operative projects/Programme held in October 09

Leading to a **proposal for an Ad Hoc Cat B project** with strong underpinning element of Govt-to-Govt information exchange

- Work will be based around 5 potential work packages:
  - Selection of bio-simulants
  - Evaluation of bio-aerosol collection and point & stand-off detection technologies
  - Evaluation of identification reagents and technologies
  - Comparison of simulation tools
  - Overall concept of standardisation

# What Next?

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Launch a formal project proposal to establish interest in participation by EDA pMS.

Prepare a detailed project plan including workshare, costs and IPR.

Launch the project (with as many Govt participants as possible) in 2010.

## To Find out more

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