



**Cyprus EU Presidency's Seminar**

# **“European Initiatives in the Maritime Environment Future Capabilities, Technologies and Civil-Military Synergies”**

**Co-organised by the European Defence Agency**



**18 and 19 October 2012**

**Nicosia, Filoxenia Conference Centre**

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# 1. Concept of the Seminar

## Overall aim:

Maritime security and defence is of prime importance for Europe as highlighted by the Council conclusions on Maritime Security Strategy (26 April 2010) and the Commission's Green paper "Towards a future Maritime Policy for the Union" (7 June 2006). Maritime Security could be considered as three separate pillars of knowledge, regulations and capacity to act. The aim of this seminar was to highlight the need to address the future capacity of Europe to act, taking into account the requirement for appropriate maritime assets within the current financial climate and the need for identification of civil-military synergies.

## Background:

Cyprus, being a Member State located at the outer boundaries of the European Union and with strong maritime interests, is supporting the EU initiatives in the maritime environment. Consequently, it is organizing several seminars aiming at highlighting the need for a holistic approach in addressing European maritime security and governance, taking into account all three of the above pillars (see also seminars: « Towards a global approach of Maritime Security for the Mediterranean », Paris 6th of September 2012; and « For an EU comprehensive approach against piracy in the Horn of Africa », Larnaka 12-13 of November 2012).

The European Defence Agency has been actively involved in improving Common Security and Defence Policy capabilities in the maritime domain. The successful demonstration of Maritime Surveillance cooperation, the work on Maritime Mine Counter-Measures and the launch of a significant cooperative Research and Technology programme on maritime robotics, are only a part of its current maritime activities.

The Agency, adopting a more strategic approach in support of its Member States, has initiated three strategic studies in the Capability (Maritime Landscaping), Research & Technology (Strategic Research Agenda for the Naval domain) and the Industry & Market (Naval key industrial capabilities). These three strategic documents provide respectively an assessment of current and future maritime operations with subsequent effects on national plans; a joint governmental and industrial vision of what are the most important naval technological issues to address in the following 10-15 years; and finally an examination of the capacity of the European Naval industry to support the European naval capability requirements.

Elements of the above studies highlight the fact that the European Naval community is facing today opposing drivers. On the one hand, the requirement for a greater number of more advanced naval assets, able to engage not only in defence but also security missions (piracy, smuggling, illegal immigration, etc), is increasing. On the other hand the budgets are

decreasing. The current EDA Pooling and Sharing initiative is a significant tool in the hands of the defence community for addressing this issue and enabling affordable solutions.

However, there are also a great number of European civil maritime stakeholders, whose activities and goals also have an impact on maritime security. The European coastal population is continuously increasing, maritime resources are more and more exploited (e.g. raw materials, natural gas and food), while other industrial activities are continuously evolving (e.g. transportation and wind-energy). In order to make better use of the limited defence funds available, it is important to understand the civil maritime trends, identify synergies and where possible coordinate and cooperate to avoid duplication of efforts. This includes efforts in R&T in order to de-risk future procurement investment. Encouraging examples of civil-military cooperation already exist in the area of knowledge and regulations (see for example the Common Information Sharing Environment or the European project BlueMassMed).

Furthermore, maritime security is strongly linked to the capacity of the European naval technological and industrial base to deliver the actual assets that are needed. Given the current budget reduction and fragmented European landscape, the naval industry is focusing more and more on exports. This entails significant risks ranging from loss of intellectual property rights to the creation of new competitors but also the possible fuelling of new security threats through the proliferation of defence technology.

In conclusion, the naval community will face in the coming decades new challenges, which are operational, economic and societal. It is difficult to predict today how future threats may evolve. However, it is certain that whatever these challenges and threats are, European navies should be able to engage them, providing the maritime security required.

#### **Seminar sub-objectives in support of the overall aim:**

Based on the above background, and to support the overall aim of the workshop, a number of sub-objectives were addressed. These included firstly the examination of the state of play of current operational, industrial and civil-military aspects. Secondly, the seminar looked into future civil and military operational and technological trends and finally, the seminar examined future possible actions for the European naval community focusing on the strategic and cooperative approach in security and defence domain in order to ensure best use of limited funds.

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## 2. Final Programme

### 1<sup>st</sup> Day

**18 October 2012**

Seminar Moderator: Dr Solon Mias, Cy MoD

08.30 – 09.00

**Registration**

09.00 – 10.00

**Setting the scene**

- Welcome Note by Christos Malikkides (Permanent Secretary of CY MoD)
- Key Note Address by Demetris Eliades, Minister of Defence of the Republic of Cyprus
- Key Note Address by Dr Adam Sowa, EDA Deputy Chief Executive

10.00 – 10.15

**Participants Photo**

10.15 – 10.45

**Networking Coffee**

#### **Session 1: State of play**

10.45 – 11.15

The Maritime Environment – current and future challenges: The EU's Integrated Maritime Policy (IMP) and Maritime Security Strategy (MSS) approach  
- Dr. Marcus Houben, EEAS CMPD

11.15 – 11.45

On-going and future maritime CSDP operations  
- BG Herman Geens, Director of OPS at the EUMS

11.45 – 12.15

State of Play and Maritime Landscaping – On-going work and CDP hints to the future  
- Christian Madsen, Head of Capabilities Support Unit, EDA

12.15 – 12.45

Maritime Landscaping - current and future challenges for the maritime industrial sector  
- Lanfranco Benedetti, Technical Director of SEA Europe

12.45 – 13.15

European Maritime Border Surveillance  
- Erik Berglund, Frontex Director of Capacity Building

13.15 – 14.30

**Light Lunch**

#### **Session 2: Future trends**

14.30 – 15.00

European Naval R&T – Current initiatives, future trends and synergies  
- Christian Breant, EDA Research & Technology Director

15:00 – 15:30	UK MoD Black-swan concept - Cdr Max Rance, RN, Development Concepts and Doctrines Centre	
15.30 – 16.00	Challenges for the European naval industry : a Commission perspective - Luigi Vitiello, DG Enterprise, Deputy Head of Defence, Aeronautic and Maritime Industries Unit	
16.00 – 16.30	Future Naval Systems - Naval industrial capabilities in Europe and trends for the future - Karina Glapka, EDA Industry & Market Senior Officer for Defence Industry	
16:30 – 18:30	Tour of Nicosia	Host
18:30 – 19:00	Transport to hotel	Host
20:30 – 23:00	Official Dinner	Host

### **End of first day**

## **2<sup>nd</sup> Day**

**19 October 2012**

08.30 – 09.00	<b>Registration and Coffee</b>	Host
09.00 – 10.30	<b>Panel Discussion “Time for Synergies to meet future challenges”</b> Panel Moderator: Admiral Fernando Del Pozo (Wise Pen) Panel participants: - DG MOVE: Mr Massimo Mosconi (Unit Land and Maritime Security) - Athens Multinational Sea Lift Coordination Centre: Mr George Pateras (Shipping Advisor of AMSCC) - Irish initiative on Naval Training: Cdr Dave Barry (OC NS College of Ireland) - EDA: Dr Joerg Hillmann (Capability Manager Engagement)	
10:30 – 11:00	<b>Coffee Break</b>	
11:00 – 12:00	<b>Continuation of Panel Discussion</b>	
12:00 – 12:30	Wrap-Up and Conclusions	Host
12:30 – 14:00	<b>Light Lunch</b>	
14:00	<b>End of Seminar - Transport to Hotel or Airport</b>	

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### 3. Seminar Summary

Overall, through the seminar's presentations and discussions, the participants received the most up to date information concerning different European maritime initiatives and possible directions with regards to future capabilities, technologies and civ-mil synergies.



Welcoming and key note speeches from the Permanent Secretary of the Cyprus Ministry of Defence, **Mr. Christos Malikkides**; the Minister of Defence of the Republic of Cyprus, **Mr. Demetris Eliades**; and Deputy Chief Executive of the European Defence Agency (EDA), **Dr. Adam Sowa**; emphasised the growing importance of the sea for Europe. The need for maritime security as enabler of growth was stressed, which then was translated to a need for Europe as a key world player to be able to act within the context of maritime security. Two contradicting drivers then appeared. On one hand the changing and in some cases volatile environment with unpredictable threats and on the other the need for affordable, cost-effective solutions.

Moving from the political to the strategic level, **Dr. Marcus Houben** of the Crisis Management and Planning Department of the European External Action Service (EEAS) provided back ground information on the on-going work towards an EU Security Strategy for the Global Maritime Domain. Marcus Houben mentioned as important source documents the European Security Strategy as well as the Integrated Maritime Policy. There is renewed and growing momentum for a European maritime security strategy that articulates both European maritime interests - which are global and systemic - and national interests - which are in the complex and interlinked maritime environment indivisible. Such a strategy was deemed necessary if Europe wishes to take up its global maritime responsibilities and contribute to the governance of seas and oceans. It was stressed that the maritime security strategy needs to be bold, innovative, integrated and comprehensive; with solid reasoning describing clearly the need for investment in maritime security and the capacity to protect. The Maritime Security Strategy was described as a civil-military coordination issue. The aim is to deliver a Joint EEAS-Commission communication in the first half of 2013 and propose this Joint Communication for adoption by Member States later that year. A possible maritime stakeholder forum is considered as an element that could assist the overall strategic work and reflection.

Current European naval CSDP operations and the capacity of Europe to act against piracy were then presented by **Brigadier General Herman Geens**, Director of Operations at the European Union Military Staff (EUMS). The success of the current operations in reducing the effectiveness of pirate attacks was a result of comprehensive approach and of innovative solutions, which included amongst others the creation of a maritime information centre and a best management practices guide for civil ships. However, despite this success, the limitations of European naval forces have also been highlighted. The reality of a requirement for an overarching EU endorsed maritime security strategy was made apparent.

These gaps were more clearly analysed through the presentation on the maritime landscaping study performed by the EDA. **Christian Madsen**, Head of Capabilities Support Unit at EDA, talked about the ageing European fleets and the need to reduce capability gaps with more enduring and available European naval assets with a mix of high and low end capabilities

to assure the need for quantity despite the tight budgets. A number of cooperative opportunities were mentioned that could support this endeavour such as pooling of spare parts, coordinating maintenance, improving support structures and submarine related activities. The appropriate mix of high/low value/capacity units was mentioned as a solution that needs further European examination. The overall message was the need to cooperate on a military and civil-military level for affordable solutions or risk losing European naval capabilities.

**Lanfranco Benedetti**, Technical Director of SEA Europe then described the current status of the European maritime civil and naval industry, which is a significant European job-supplier. On the civil side, European shipyards are currently specialised on high-value units but markets are facing financial difficulties and overcapacities. Despite this, industry believes that the importance of the sea will increase significantly in the coming years but stressed the need for its sustainable and environmentally sound use. The leadership 2020 initiative will work towards this direction aiming to achieve recovery for the European maritime industry with focus on competitiveness, financing, R&T, employment and skills. On the naval side industry is encouraging the Ministries of Defence to move towards the implementation of the EDA ESM1 "Naval Systems and their Environment" Strategic Research Agenda and its three strategic pillars of Affordable Mission Modular Ships, Unmanned Maritime Systems, and Modular/Safe submarines.

European cooperation already exists and the successful story of EUROSUR was then described by **Erik Berglund**, Frontex Director of Capacity Building. EUROSUR currently operates on a pilot basis, but from October 2013 it will become an EU regulation. EUROSUR enables the exchange of information between national coordination centres in relation to border surveillance and control. The importance of the maritime elements was highlighted with already existing examples of information exchange demonstrating some of the services provided. Frontex is active in further developing border surveillance services and expanding the existing EUROSUR network, while steering FP7 funding towards appropriate technological developments.

The seminar then moved to the second session concentrating firstly on future trends. **Christian Breant**, R&T Director of the EDA presented the ESM1 "Naval systems and their environment" Strategic Research Agenda (SRA). This agenda attempts to address the issue of affordability and increased flexibility through the use of Unmanned Maritime Systems for both surface and submarine platforms. The presentation focussed on one of the three pillars of the SRA the Affordable Mission Modular Ships, which was described as an excellent cooperative opportunity for future procurement de-risking, offering significant civil-military possibilities and addressing the high /low mix mentioned earlier. EDA aims at launching a relevant R&T programme late 2013 or early 2014 with a meeting taking place next month.

The EDA ESM1 Naval SRA was complimented by the UK Black Swan concept which aims at providing a balanced UK fleet capable of acting in a global maritime security role. The Black Swan pivots on the concept of "systems not platforms" to obtain the full spectrum of maritime capability, according to **Commander Max Rance** of the Development Concepts and Doctrines Centre of the UK Ministry of Defence. The concept proposes the use of cheaper civil-spec ships build using a modular-approach, making significant use of unmanned systems and networked enabled capabilities of multiple manned and unmanned platforms (a Russian Doll concept of unfolding capability); this will offer a solution for obtaining a balanced fleet with a significant number of assets. It requires a change of mind-set and projects a systems approach rather than focusing on platform vulnerabilities. The concept is at an early stage: more work is needed



and the similarities between the UK Black Swan and the ESM1 SRA could possibly be the catalyst for a European cooperative project.

Having some ideas on future solutions for regenerating European fleets with more advanced and at the same time affordable naval assets, the seminar then focussed on industry and its capacity to deliver these future naval capabilities.

**Luigi Vitiello**, Deputy Head of Defence, Aeronautic and Maritime Industries Unit of DG Enterprise, first analysed challenges for the European defence industry highlighting the current fragmentation, duplication and overcapacity, which lead to inefficiencies, notably in the naval sector. The Commission described also their current initiative on Defence Task Force, which aims at developing a strategic approach to reinforce the long term competitiveness of the industry. Looking at introducing the principle of the Internal market to defence: open competition and greater transparency; favouring the structural adjustment process, notably by supporting existing centres of excellence and favouring a better access of defence-related SMEs to the market of other Member States; developing synergies between civilian and military technologies are the main pillars of this strategy.

Finally, **Karina Glapka**, Senior officer for Defence Industry at the Industry & Market Directorate of EDA, presented her Agency's views on the European naval industrial capabilities, highlighting the fact that the national approach is not affordable nor possible any more. Exports may offer short-term solutions but they include significant long-term risks. On the contrary what is needed is more defragmented and cooperative approach both from the end-user and the supplier in order to deliver the future naval capabilities required by Europe. This entails a change of mind-set of European stakeholders along with a clear roadmap providing the best way for addressing identified gaps through appropriate technological solutions.

On the second day, the seminar concentrated on the aspects of civil-military synergies needed to reduce duplication and make best use of European tax-payer's money in order to deliver improved naval capabilities. One of the Wise Pens, **Admiral Del Pozo**, provided an excellent analysis of civil-military synergies in the maritime security domain providing examples of existing civil-military cooperation but also significant areas that need improvement.



This was completed by the presentations of other panellists that provided their experience and views on civil-military coordination. Firstly, **Mr Massimo Mosconi**, Policy Officer of Unit Land and Maritime Security of DG Move described existing operations highlight the benefits of civil-military cooperation, like the Common Information Sharing Environment, with regards to maritime security and safety. He also described future possibilities of civil-military coordination, highlighting a study on the building of a European coastguard. The next two speakers described how civil-military synergies could be extended from maritime surveillance to other domains. **Mr. George Pateras**, Permanent Advisor for the Athens Multination Sea Lift Coordination Centre, emphasised the need for more outsourcing to industry in order to make savings, enlarging the civil-military cooperation spectrum to all types of transportation and other operations such as evacuation operations, as well as humanitarian aid and crisis response operations. This was complemented by **Commander Dave Barry**, Officer Commanding the Naval College of Ireland, who presented the current developments on the "Naval Training" Pooling & Sharing initiative lead by Ireland, describing amongst others civil-military synergies in the area

of training. Finally, **Dr Joerg Hillmann**, Capability Manager of Engagement at EDA, provided several examples of civil-military coordination where EDA is involved and emphasised that the most difficult part for civil-military cooperation was in fact the need for a change of mind-set in order to be able not just to use existing assets cooperatively but also develop jointly.

## 4. Proposed further actions

Based on the above presentations and subsequent discussions, the following actions are proposed for the European naval community, focussing on a strategic approach in the maritime security domain. These actions could support the quest for improving the affordability and availability of naval capabilities:

- 1) Identify holistic strategic directions including civil-military for re-enforcing the European naval capacity to act despite the current financial constraints. The drafting of a European Maritime Security Strategy is an important step in this context;
- 2) Establish a continuous strategic dialogue between naval end-users and industry; and in general all maritime stakeholders in order to make best use of limited available budgets and civil-military synergies; harmonise the requirements of the naval end-users especially in the context of Pooling and Sharing possibilities;
- 3) Support existing cooperative initiatives especially those promoting reduction of fragmentation both from the end user and supplier sides (setting of common priorities, standardization, cooperative R&T incl. through the joint investment programme on Unmanned Maritime Systems, etc);
- 4) Launch new cooperative initiatives :
  - a. to promote the most efficient use of existing assets and existing support structures, including through Pooling & Sharing of capabilities; and
  - b. to address through cooperative R&T the future need for more advanced naval assets (i.e. the Affordable Mission Modular Ship initiative) ;
- 5) Strengthen civil-military coordination expanding from the domains of knowledge and regulations to the capacity to act through :
  - a. exchange of information,
  - b. joint use of existing capacities but also joint development of new capacities against the background of commonly identified needs (assets, networks, dual-use technologies/civ-mil SRAs, etc);

## 5. Seminar Conclusions

For the European Union to be a global actor in the maritime environment, it requires the ability to act within the context of maritime security. In the current maritime setting a multiplicity of actors is engaged in a complex dynamic environment with interconnected interests, while the current financial climate continues to pose challenges.

Given the issue of affordability, we need to identify, in a strategic, integrated and comprehensive approach innovative and bold solutions for short- and long-term response. All actors, governmental, industrial and institutional, have a role to play in this comprehensive approach. Civil-military solutions would need to be used to the maximum possible to ensure that the most cost-effective solutions are identified for regenerating the European naval capabilities. Relevant actions towards these directions have been proposed.

## 6. Closing Remarks



**Adam Sowa**, Deputy Chief Executive of the EDA, and **Christos Malikkides**, the Permanent Secretary of the Cyprus Ministry of Defence provided final remarks. Adam Sowa thanked the Cyprus Presidency and Minister of Defence of the Republic of Cyprus, Demetris Eliades for their efforts in promoting Maritime Security. He expressed his appreciation for the seminar and its outputs and emphasised the need to identify through a pragmatic approach, smart and innovative solutions. He also said that EDA would

highlight the importance of Maritime Security at the next EDA Steering Board in November. He finally stated that EDA would continue its efforts in the maritime domain and be ready to support further maritime initiatives by Cyprus. Finally, Christos Malikkides thanked the participants for their interventions and discussions, which provided innovative ideas and proposals on the way forward. He expressed the Cyprus commitment in maintaining strong relations with the EDA and expressed the wish of Cyprus to continue its contribution in the maritime domain through future relevant events.

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## 7. List of Registered Participants



### High Note Speakers

Mr	Eliades	Demetris	Minister of Defence, Republic of Cyprus
Mr	Malikkides	Christos	Permanent Secretary of the Ministry of Defence, Republic of Cyprus
Mr	Sowa	Adam	Deputy Chief Executive of the European Defence Agency

### Speakers

Mr	Berglund	Erik	Frontex
Mr	Benedetti	Lanfranco	Technical Director at SEA Europe
Mr	Breant	Christian	R&T Director, EDA
Mr	Geens	Herman	Director Operations European Union Military Staff
Ms	Glapka	Karina	Senior Officer for Defence Industry, EDA
Mr	Houben	Marcus	Action officer / CMPD-EEAS
Mr	Madsen	Christian	EDA/Head of Cap Dev Spt Unit
Mr	Rance	Maxwell	DCDC, UK MoD
Mr	Vitiello	Luigi	DG Enterprise

### Panel Moderator

Mr	Del Pozo	Fernando	Wisepens Intl Lt
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### Panellists

Mr	Barry	David	Naval Service Dept of Defence, Ireland
Mr	Hillmann	Joerg	Capability Manager Engagement, EDA
Mr	Mosconi	Massimo	European Commission, Directorate General Mobility & Transport
Mr	Pateras	Georgios	AMSCC, Greece

### Participants

Mr	Antoniou	Stylianos	MOD Cyprus
Mr	Boulat	Jean-Charles	DCNS, European Affairs Director
Mr	Bourgeois	Walter	LtCol / BEL Defence Staff
Ms	Bukala	Aleksandra	PIAP, Head of Division, Poland
Ms	Byrne	Mary	Asst Principal Department of Defence, Ireland
Mr	Castaing	Michel	French Embassy
Mr	Costaras	Costas	Senior Marine Surveyor, CY Ministry of Communication and Work
Mr	Di Capua	Domenico	Italian MoD
Mr	Falk	Ben	Strategic Analysis, EUMS-EEAS
Mr	Fitiris	Costas	Joint Coordination Centre (JRCC), Cyprus
Ms	Fysentzou	Elena	Press Officer/MoD Cyprus
Mr	Gennadiou	Constantinos	Cyprus Navy
Mr	Georgiou	Georgios	Defence Policy Director, MoD Cyprus
Mr	Georgiou	Giorgos	University of Cyprus
Mr	Houvaras	Marios	MOD Cyprus
Mr	Kazakos	Thomas	Cyprus Shipping Chamber
Mr	Koumnas	Christos	MOD Cyprus
Mr	Kuznetsov	Arkady	Embassy of Russia
Mr	Loizou	Theodoros	MOD Cyprus
Mr	Loizou	Savvas	Cyprus University Of Technology
Mr	Loizou	Christopher	Transas Mediterranean SAS, France
Mr	Makriyiannis	Marios	Director of the Minister's Military Staff, MoD Cyprus
Mr	Markou	Andreas	Cyprus Navy
Ms	Neophytou	Marina	University of Cyprus
Mr	Onopa	Vadim	Russina Embassy
Mr	Ovechkin	Igor	Embassy of Russia
Mr	Panteli	Giorgos	MOD Cyprus
Mr	Sjoberg	Staffan	Swedish Armed Forces
Mr	Stylianou	Stelios	MoD Cyprus
Mr	Trouve	Gabriel	MOD Cyprus
Mr	Vlioras	Evangelos	Embassy of Greece
Mr	Wiercinski	Michal	Polish MoD
Ms	Zerafa	Cynthia	Senior Principal / Defence Matters Directorate, Malta

### Organisers/Host

Mr	Mateou	Nicos	MOD Cyprus
Mr	Koulentis	Angelodemos	MOD Cyprus
Mr	Thomas	Savvas	MOD Cyprus
Ms	Kazamia Nicolaou	Katia	MOD Cyprus
Ms	Praxitelous	Julia	MOD Cyprus
Ms	Ergatoudes	Katerina	MOD Cyprus
Ms	Rousounidou Chappa	Christiana	MOD Cyprus
Mr	Koumenides	Christos	MOD Cyprus
Mr	Mikellides	Iakovos	PoC to EDA, MoD Cyprus

### Organiser/Moderator/Rapporteur

Mr	Mias	Solon	Senior Advisor
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