HELLENIC MARITIME DOMAIN
SURVEILLANCE
Athens 11-12-2013
H.C.G. AREA OF RESPONSIBILITY

- Extensive Coastline (>18,000 km).
- Search and Rescue Region = FIR ATHINAI (1,150,000 sq. km.)
- Large number of islands, islets etc. (>9,000).
- Dense maritime traffic (9,100+ pleasure craft, 115,000+ fishing boats, 600+ passenger ships)
- 45,000,000 passengers annually
- Close proximity with neighboring countries
- Large number of ports, harbors, bays etc.
- Frequency of bad weather conditions
- Strategic importance of responsibility area
HELLENIC COAST GUARD

21st Century Challenges:

- Public order and state security
- Management of migratory flows
- Organized crime
- International terrorism
- Maritime/Port safety-security
- Piracy and armed robbery
- Search and Rescue
- Marine pollution
- Fisheries control
- Promote Fundamental Rights and professionalism in every HCG activity
Maritime Surveillance for HCG

- The HCG plans, develops, deploys and operates Systems and IT infrastructure for the effective maritime surveillance in order to fulfill its mission.
- The basic elements of this infrastructure are:
  - The coastal AIS base stations (maritime safety)
  - The LRIT System (maritime safety/security)
  - The Vessel Traffic Services/ Vessel Traffic Management and Information System (VTS/VTMIS)
  - The SafeSeaNet System (maritime safety)
  - The CleanSeaNet System (marine pollution control)
  - The VMS System (fisheries control)
- Furthermore, the HCG participates in various initiatives and EU projects aiming towards the improvement of maritime surveillance capabilities, situational awareness and response capacity.
- In addition, the HCG is planning to develop and deploy a National Integrated Maritime Surveillance System that is expected to be funded by the EU via the Internal Security Fund (ex EBF) in order to accomplish its mission related to the sea borders protection and maritime surveillance.
Vessel Traffic Services / Vessel Traffic Management and Information System

- **VTS / VTMIS**
  - From the beginning of the last decade our country has developed and installed a Vessel Traffic Management and Information System.
  - The VTS/VTMIS is comprised of a number of remote surveillance sensor stations (RSS) for collection and analysis of vessel traffic information.
  - VTS/VTMIS covers the ports and the surrounding areas of Attica (Piraeus, Rafina, Lavrio), Patras, Corfu and Igoumenitsa.
LRIT System

• Long Range Identification and Tracking (LRIT)
  – It is a satellite system that provides the current identity and position of vessels over 300 GT and upwards engaged on international voyages to the administration.
  – The system aims at improving: security, safety of navigation, effectiveness of SAR operations and protection of marine environment.
  – Greece, as all the EU member states, participates in the common European Data Centre, operated by EMSA, that manages over 9000 vessel reports.
  – The importance of the LRIT system in maritime safety and security is well recognized at world level since the data provided are used for EU counter-piracy mission planning. (e.g. EUNAVFOR OPS)
AIS Infrastructure

- **Automatic Identification System (AIS)**
  - The coastal AIS infrastructure is comprised of a large number of base stations providing extensive coverage.
  - The shore base stations receive structured AIS messages containing information about vessels position which is depicted on screen creating an operation picture of maritime traffic.
  - The AIS system is considered as a main safety of navigation aid but it has also a significant contribution to maritime surveillance.
  - The HCG’s AIS system has capabilities for data exchange at national and European level (via MARES and EMSA).
SafeSeaNet System

- **SafeSeaNet (SSN)**
  
  - Greece pursuant to EU Dir. 2002/59 has established the national SSN system cooperating with EMSA which constitutes the main IT system for maritime information exchange at EU level.
  
  - The SafeSeaNet operational use proved its robustness and its capability to exchange maritime data efficiently.
  
  - It provides information regarding vessels, cargoes, waste, ship voyages and incident information.
  
  - Greece participates and supports all initiatives maximizing the SSN use and capabilities.
CleanSeaNet System

• CleanSeaNet (CSN)

  – CleanSeaNet is a European satellite-based oil spill and vessel detection service. It offers assistance to participating States for the following activities:
    • identifying and tracing oil pollution on the sea surface
    • monitoring accidental pollution during emergencies
    • contributing to the identification of polluters
  – The CleanSeaNet service is based on radar satellite images, covering all European sea areas, which are analyzed in order to detect possible oil spills on the sea surface.
  – The service, aims to strengthen operational responses to accidental and operational discharges from ships and assists in detecting and identifying polluters.
Pilot and Research Projects

• The Hellenic Coast Guard is involved in various research activities and projects related to the domain of Security and especially in the area of Maritime Surveillance.

• Indicatively, the main projects that HCG participates:
  – BLUE MASSMED: The project reached its end by 2011
  – PERSEUS: The project is still in progress
  – IMDATE: The project is still in progress
  – The HCG was also invited and participated in various activities of pilot projects of other research bodies and other Coast Guards.
Pilot and Research Projects (2)

– **BLUE MASSMED**: BLUEMASSMED is pilot project initiated by the European Commission. 37 administrations from six member states (France, Italy, Spain, Greece, Malta and Portugal) cooperated in improving surveillance and exchange information in the areas of maritime safety, border control, preventing marine pollution and fighting drug traffickers, terrorism and the smuggling of illicit goods.

– **PERSEUS**: Protection of EuRopean SEas and borders through the intelligent USe of surveillance

PERSEUS is a demonstration project where 29 entities from 12 EU/MS participate including high-tech companies, research centers and competent authorities involved with maritime surveillance and security such as armed forces and Coast Guard Corps.

– **IMDATE**: Integrated Maritime Data Environment

IMDATE is an EMSA pilot project for integrating maritime information systems under a common platform concept. The project plans to integrate maritime surveillance and information Systems achieving data fusion
EUROSUR REGULATION

Milestones

• **22.10.2013**: adoption of EUROSUR Regulation

• **02.12.2013**: EUROSUR Regulation effective for 19 EU M-S / SAC of the southern and eastern E.U. external borders: BG, EE, EL, ES, FR, HR, IT, CY, LV, LT, HU, MT, PL, PT, RO, SI, SK, FI and SAC NO

• **01.12.2014**: EUROSUR Regulation effective for the remaining 11 E.U. M-S and SACs.
EUROSUR REGULATION

- **Scope**: Setting up a multipurpose system to detect and prevent cross-border crime and contribute to saving human lives along the external borders of Schengen area.

- **Means**: Common mechanism for near-real time information exchange and interagency cooperation during border surveillance.

- **Ways**: Coordination of activities through the N.C.C.s
EUROSUR REGULATION

Components

The EUROSUR framework consists of:

• National Coordination Centres (NCC)
• National Situational Picture (NSP)
• Communication Network
• European Situational Picture (ESP)
• Common Pre-frontier Intelligence Picture (CPIP)
Common Information Sharing Environment (CISE)

- The development of Common Information Sharing Environment (CISE) constitutes a structural element of the Integrated Maritime Policy of the EU.
- Its basic principles are the cross-sectoral and inter-agency approaches towards the cooperation and maritime information exchange.
- The CISE development and the systems interconnection will contribute to the effective collection, sharing and evaluation of information along with economies of scale.
- Its development is expected to unify systems and actions under a common concept that were development such as VMS, SafeSeaNet, EUROSUR, MARSUR etc.
Common Information Sharing Environment (CISE) - POV

• **Common Information Sharing Environment (CISE):**
  • Greece plans to participate in a large European consortium for the Pre-Operational Validation CISE (POV – CISE) project with a significant involvement of all competent authorities assigned with maritime domain safety and security tasks, including maritime surveillance and defense at national level, since both the HCG and HN will participate.

• The project is expected to be financed by FP7.

• The project will result to the pilot implementation of the CISE for each member state participating in the project.

• The outcome and the project results are expected to have a significant impact on the CISE further development.
THE HELLENIC N.C.C.

• NATIONAL BORDER MONITORING & CONTROL COORDINATION CENTER (NBMCCC)

INTERAGENCY CO-OPERATION

• The Hellenic NCC was founded by art. 27 of Law 4058/2012.

• It is a stand-alone agency answerable directly to the Minister of Public Order and Citizens Protection.

• **Functions:**
  • Coordination of the cooperation between national Authorities at the borders.
  • Cooperation with EU institutions, international organizations and respective third-country Agencies.
  • Implementation oversight of national – community legislation pertaining to external borders management.
THE HELLENIC N.C.C.

• NATIONAL BORDER MONITORING & CONTROL COORDINATION CENTER (NBMCCC)

➢ **Leadership:**

• By Decision of the Minister of Public Order and Citizen Protection, a General Officer of either the HP or the HCG is appointed as the Head of the NBMCCC. The current NBMCCC-Head is an HCG Commodore.

➢ **Staff:**

• Personnel from the HP, HCG, Customs Authority, HAF, NIS etc. is seconded to the NBMCCC for a 3-year term, pursuant to Joint Ministerial Decisions (currently 17 staff).
THE HELLENIC N.C.C.

• NATIONAL BORDER MONITORING & CONTROL COORDINATION CENTER (NBMCCC)

• Current Premises :
  • Piraeus - HCG HQ - Operations Center (6th floor)
    – Address: Akti Vasiliadi, Gates E1-E2,
      18510 PIRAEUS,
      GREECE
    – Tel: +30 213 137 4690
    – Fax: +30 213 137 4691
    – E-mail: el-ncc@ncc.gov.gr

• EUROSUR-node connection (18.05.2012)
• Tendering procedures for new premises to be launched upon adoption of new law
• Co-funding by EBF-National Funds.
HCG ISF INVESTMENT PLAN 2014-2020

• Integrated system of maritime surveillance
• Operational sustainability/resilience of existing assets
• Operational suitability of assets – equipment
• Acquisition of assets and equipment
• Acquisition of innovative aerial surveillance systems
• Sustainable compliance with Schengen acquis
• Upgrading of HCG’s cross-border and OC prevention/suppression capabilities
• Improve port infrastructure security resilience
Thank you for your attention