

# **Regional Joint Training Simulation and Analysis Center for Black Sea Emergency Management Cooperation**

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**CoE in Operational Analyses**

**<http://www.gcmarshall.bg/sfp981149/>**

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# **Black Sea Initiative – CMEP cooperation in the region**

- **Emergency Management and TACOM are key areas for regional cooperation.**
- **Effective EM requires development of new concepts on regional basis and providing joint training, analysis and planning.**
- **Regional JTSAC is needed as a first step to regional coordination in real emergency management operations.**

# Situation

- **Naval Academy is good base for JTSAC, but scenario development, architecture governance, software development and analysis is a task for academic / NGO community.**
- **Public – private partnership is key for not only scenario development, but providing best off the shelf hardware and software as well as transfer of the lessons learned into the practice.**

# **Architecture of JTSAC on CMEP – base to start**

- **NATO SfP981149 established CoE-OA**
- **National Science Coordination Council to Standing Committee for Protection of Population developed community for R&D and E&T in emergency management**
- **EU TACOM SEE-2006 established framework to develop Joint Training Simulation and Analysis Center on CMEP**

# **Architecture of the JTSAC as a network around IPP-BAS / CoE-OA encompasses:**

- 1. CAX Management and Analysis Cell**
- 2. CAX Development and Simulation Cell**
- 3. Computer Support Cell**
- 4. Briefing Cell**
- 5. Emergency Operations Center Cell with:**
  - 1. Main Command and Control Center***
  - 2. Analytical Support Cell***
  - 3. Communications Cell***
  - 4. Field Operations Cell***

# Software structure

- **All elements are in Intranet and special software is used for message handling and information display (incl. GIS) as a layer above classical office support system.**
- **Simulation software is developed for CAX development and simulation cell as well as for analytical support cell**
- **C2 software is developed for Communications and Field Operations Center Cell and Emergency Operations Center Cell**
- **Special models for planning are developed for the management support as well as CAX coordination and analysis cell.**

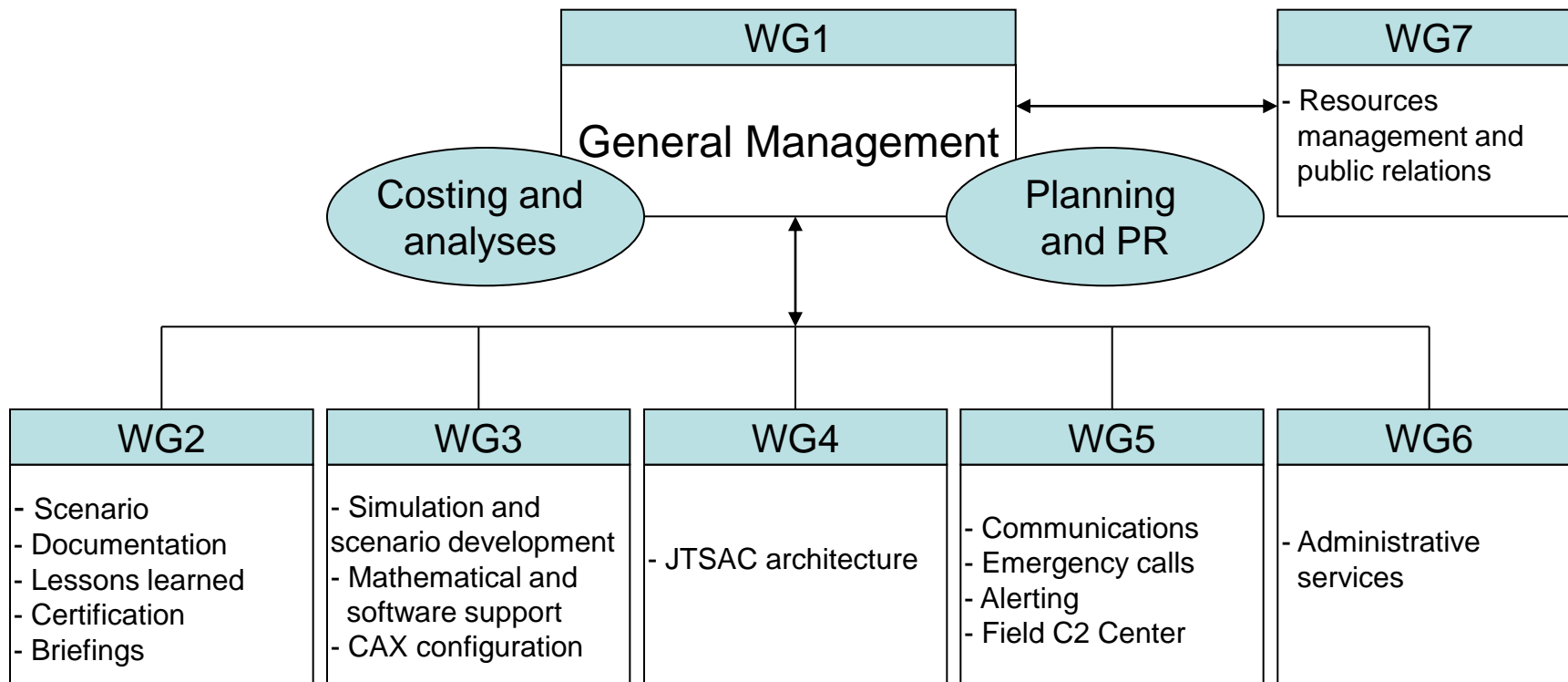
# TACOM SW Package consists of:

- 1. TACOM – National CM Center (NCCMC)**
- 2. TACOM – District CM Center (DCCMC)**
- 3. TACOM – Field CM Center (FCCMC)**
- 4. TACOM – Agency CM Center (ACCCMC)**
- 5. TACOM – International POC (IPOC)**
- 6. TACOM – M&S Tools (MST)**
- 7. TACOM – Scenario Management (SM)**



# JTSAC-IPP

## Organization Structure



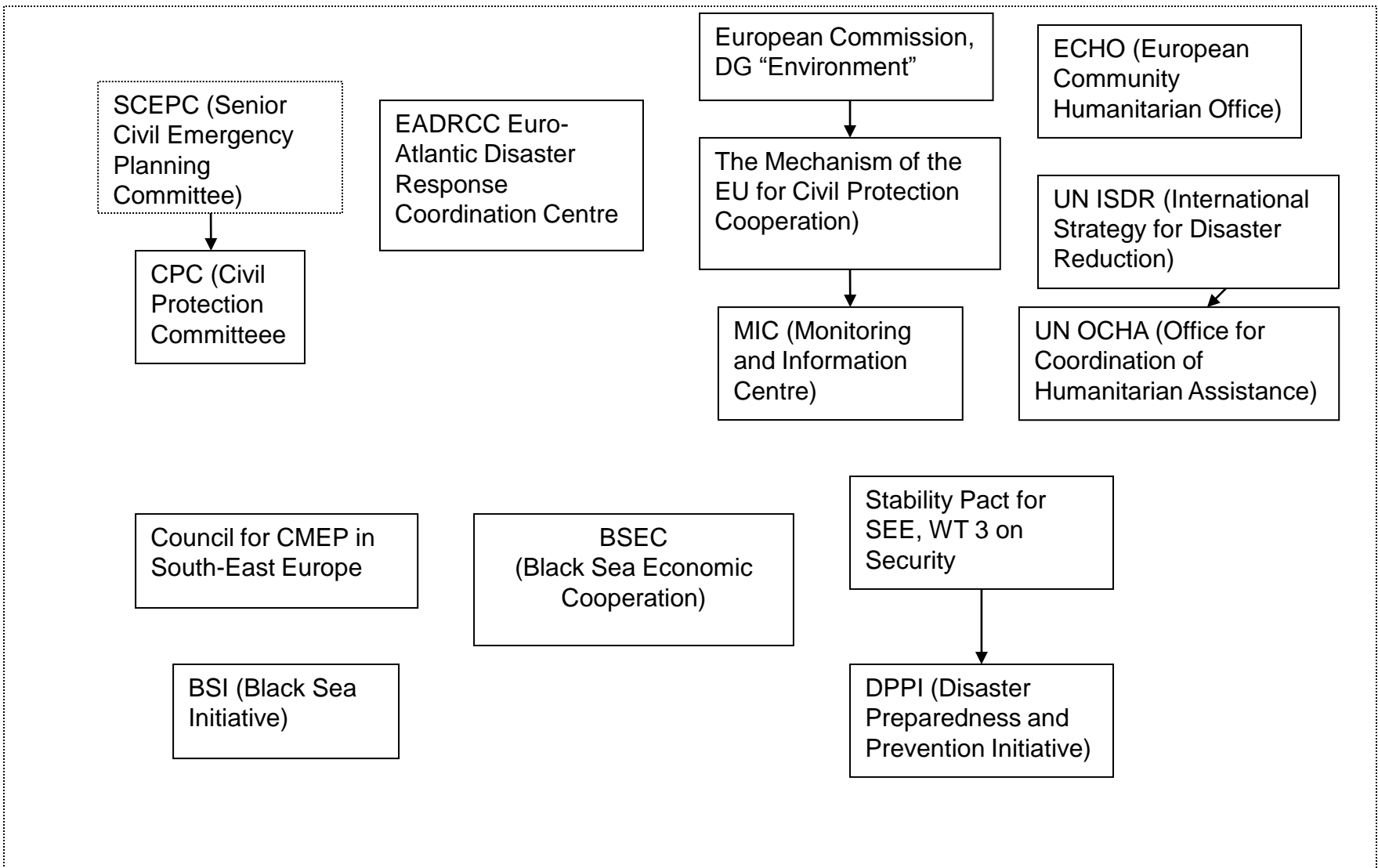
# **Experimentation of CMEP concepts in the Black Sea Area**

- GBSA is large and very diverse region itself.**
- The area of emergency management and CMEP is very complex issue when it comes to institutions involved and processes performed from other side.**
- So this is a great challenge for development of concepts and very intensive experimentation is needed – especially on organizational and information sharing level.**
- It is why CAX in CMEP on regional basis could facilitate finding solutions in different areas.**

# Development of a Code of Conduct in CMEP for Black Sea Area

- ***The Aim of the Code - to enhance emergency management cooperation in the Black sea Region and to establish standardized procedures for notification and activities***
- ***The Basis of the Code - comprehensive review of all existing international agreements, organizations and forums in the sphere of crisis management and civil protection***
- ***The Tool – regional CAX-s in emergency management***
- ***The Prospect - the Code of conduct will facilitate the development of further international agreements and regulations in the sphere within the framework of already existing international organizations and forums.***
- ***The Vision - the development of a Code for cooperation in CMEP is a prerequisite for the establishment of collective emergency management capacity in the Black Sea Area.***

# Existing international structures for CMEP covering the Black Sea Area



# **Information sharing Architecture for the Black Sea Area**

**Web based system for access of  
knowledge base in CMEP and common  
emergency picture to be shared to all  
participants according to their authority  
rights.**

# Information sharing architecture

## Joint Information Sharing Center and web-services / knowledge repository management

– **Players**

– **Activities**

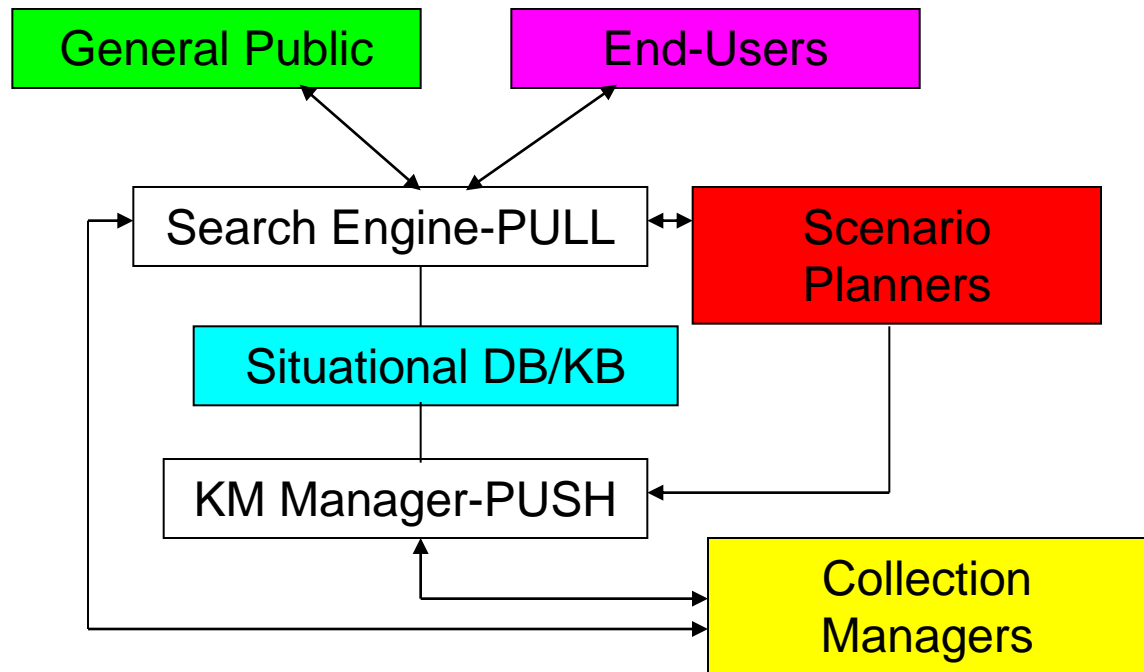
– **Locations**

– **Tools**

– **Strategies**

– **Tactics**

– **Events – link with implemented scenarios**



# **Possible role of Naval Academy and Bulgarian Navy**

- **Bulgarian Naval Academy is highly recognized with its high quality education and training capacity for both military and civilian students and post graduate students as well as with its relations with DSC and many universities.**
- **It is situated excellent way as Black Sea E&T institution with capabilities in the area of simulation.**
- **Extending its infrastructure in the area of CAX and ADL could position the Naval Academy (after celebration of its 125 anniversary) as key instrument in support of GBSA transformation in civil security area.**

# Larger Context

- **Established centers for CAX in DSC-Sofia and NMU-V. Tarnovo are signal for the need to build CAX center in Naval Academy with special attention to the problems of GBSA security.**
- **Considering of Naval Academy as very successful institution in civil – military cooperation (CIMIC) the CAX center could be really focused on CIMIC and especially in CMEP for Black Sea.**

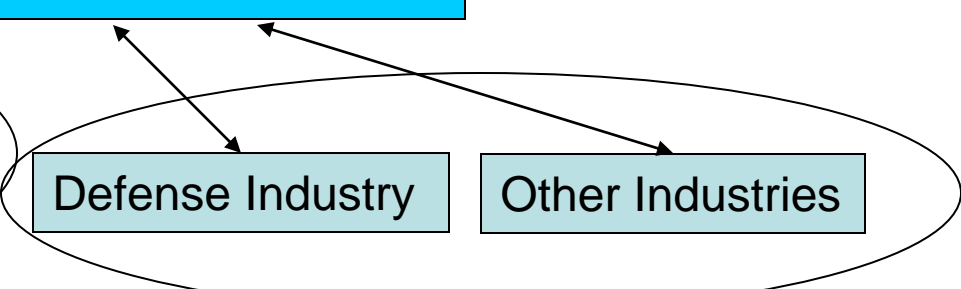
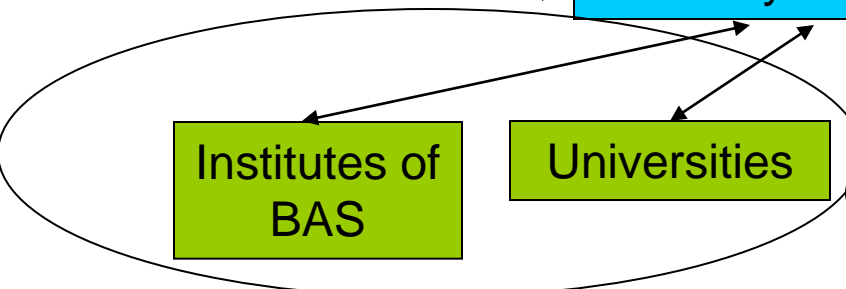
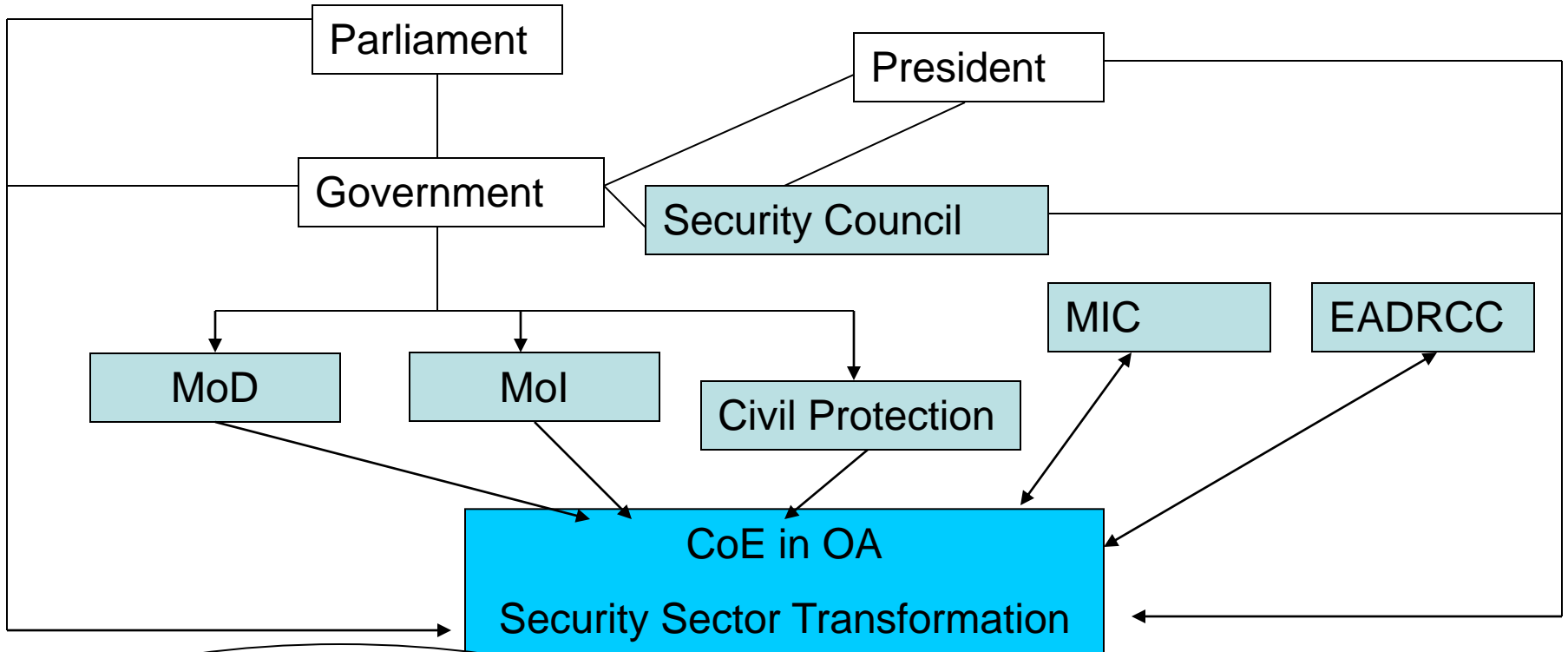


# Possible role of NGOs and the Center of Excellence on Operational Analysis in BAS

- ***CSEES is providing strong base in building community of experts in regional security, especially when it comes to young people and to bring them together with world class professionals from the region and NATO/EU countries. It is great base for development of concepts and scenarios for regional security.***
- ***CoE-OA in BAS is capable to provide scientific support in formalizing scenarios, development of CAX architecture, support of CAX planning and conducting as well as analysis of the results. Actually CoE-OA is a network between IPP, CNSDR, IMI, SRI and other institutes in the BAS as well as DSC, AMol, UNWE, SU. Base for the center are NATO/EU/US/NSF projects and young students working on their PhD theses as well as graduate students diploma research projects.***

# Where is the CoE situated among other organizations?

Governance / Costumers



Back office

Implementation / Competition

Costumers

Partners

# **Conclusion: Role of Public – Private Cooperation in Black Sea Area Emergency Management**

- Civil Security and its most visible element – emergency management is typical area for private-public partnership.
- Key aspect of this cooperation is in the field of concept development and experimentation, education and training, building common understanding and facilitating common planning.
- Public – private partnership could help to resolve financing problems in the first steps of introducing Civil Security Concept and for sure will facilitate large economic cooperation in the GBSA.

# First steps: Scenarios on ...

- *Maritime SAR*
- *Port protection*
- *...*

***To define NATO project, EU project, BSEC project, but initial investment is in building the Consortium for JTSAC on WBSA Civil Security with PPP***