

Information Technologies in Support to Counterterrorism in Culturally and Linguistically Diverse Communities

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NATO ARW "COUNTER TERRORISM IN CULTURALLY AND
LINGUISTICALLY DIVERSE COMMUNITIES"

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21st Century “Terrorism” Phenomenon



9/11/2001
New York



10/23/2002
Moscow, Nord Ost



3/11/2004
Madrid



7/7/2005
London



1/25/2011
Domodedovo, Moscow



4/11/2011
Minsk



5/2/2011
Abbottabad, Pakistan



What's next...

New Security Environment Challenges



- ☐ **Globalization;**
- ☐ **Information Technologies;**
- ☐ **Terrorism;**
- ☐ **Nuclear Weapons & WMD Proliferation;**
- ☐ **Key Environmental & Resource Constraints;**
- ☐ **...**

CALD Communities Challenges



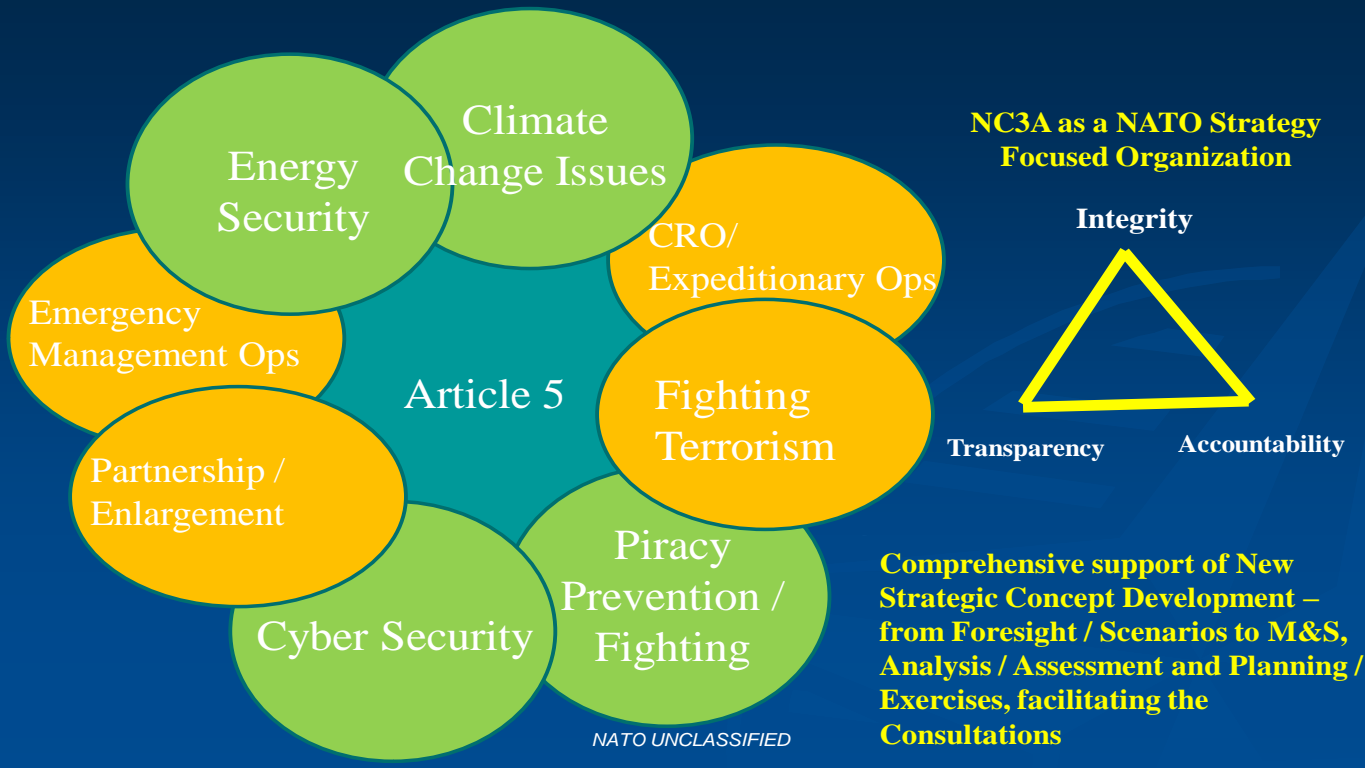
- ❑ Language Barriers
- ❑ Cultural Differences
- ❑ Globalization
- ❑ Societal Synergy
- ❑ Information Technologies
- ❑ ...

Target: Achieving society resilience against terrorism

The Comprehensive Approach



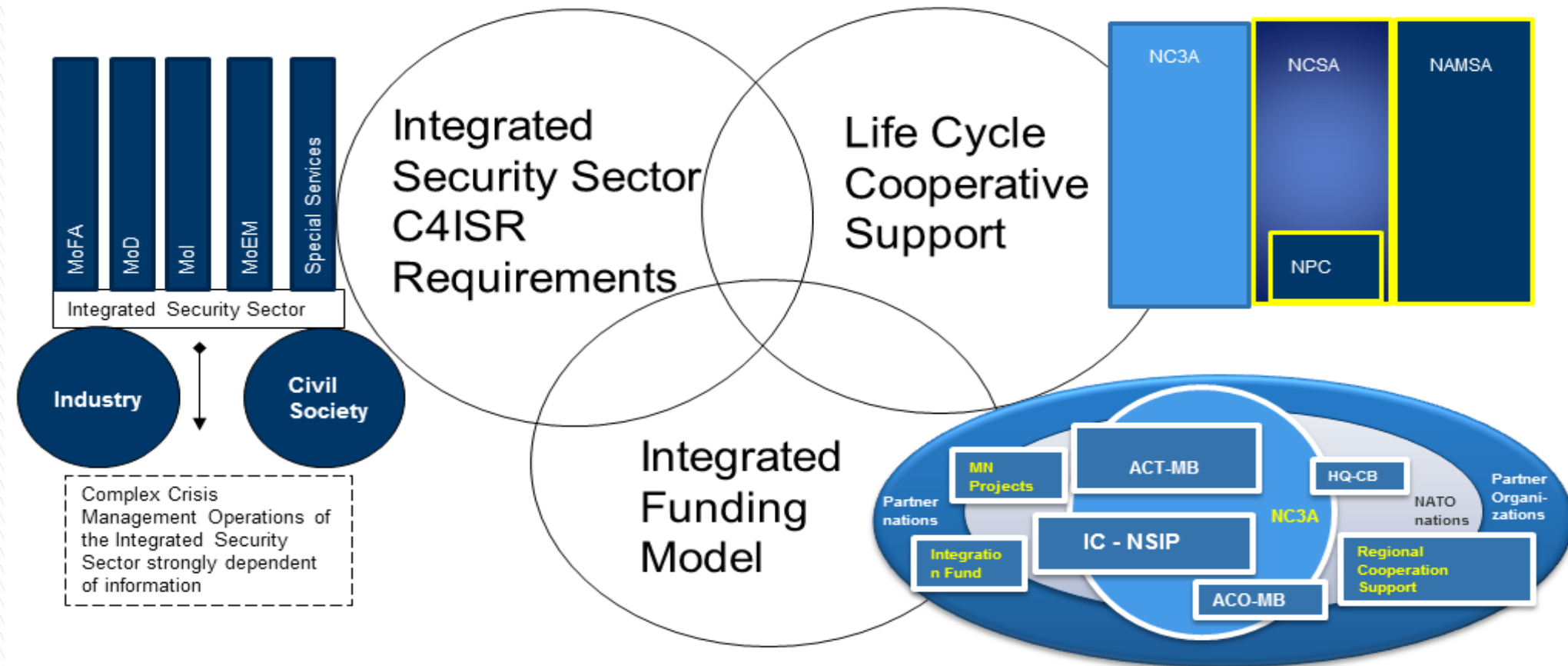
Areas of C3 support to NATO & Nations success: Realignment with the New Strategic Concept and National Strategies



Comprehensive Approach in NATO seeks to make improvements in five key areas of work:

- ☐ Planning and conduction of operations;
- ☐ Lessons learned, training, education and exercises;
- ☐ Enhancing cooperation with external actors;
- ☐ Public messaging;
- ☐ Stabilization and reconstruction.

Comprehensive C4ISR Approach Definition

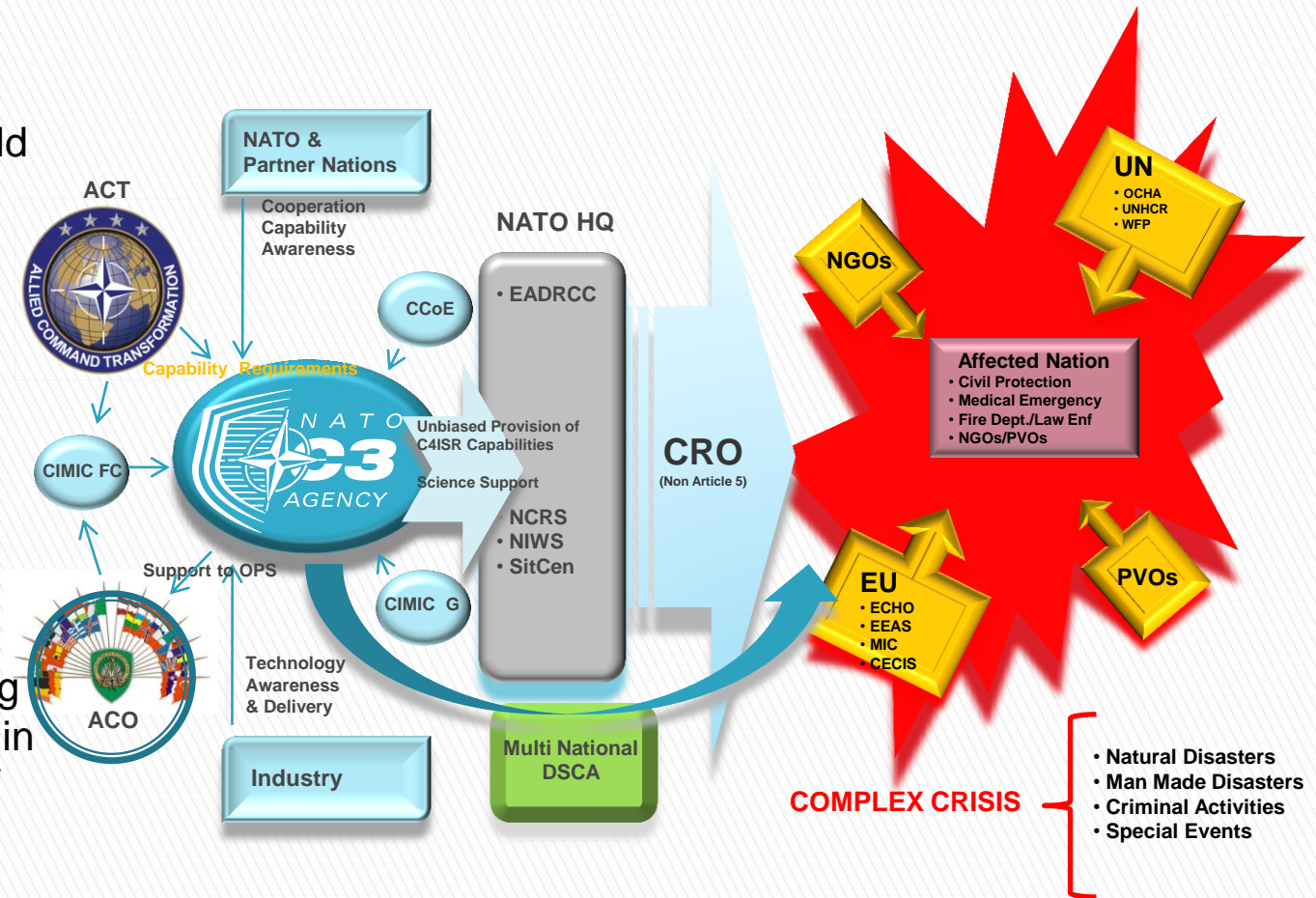


The Umbrella MoU between Nation and NC3A is used to address Scope, Governance, Financing and other issues as a base for implementing projects through simple Technical Agreements, referring to the MoU. Cooperation agreements with Public research & Training Institutions are used to involve deeper Nations. And similar approach is envisioned with Industry Associations. MoUs with other agencies are providing integrated support to the C4ISR systems life cycle.

MN DSCA Initiative: Support to the Comprehensive Approach

NC3A as in previous cases could be bottom up and NATO to Nations and Organizations facilitator to achieve interoperability through support to capabilities development process.

Matching the operational scenario with required interoperability solutions and later supporting them by existing and jointly developed expertise in NC3A is the goal of MN DSCA / CMI effort.



EXAMPLE

Interoperability Focus Areas for DSCA

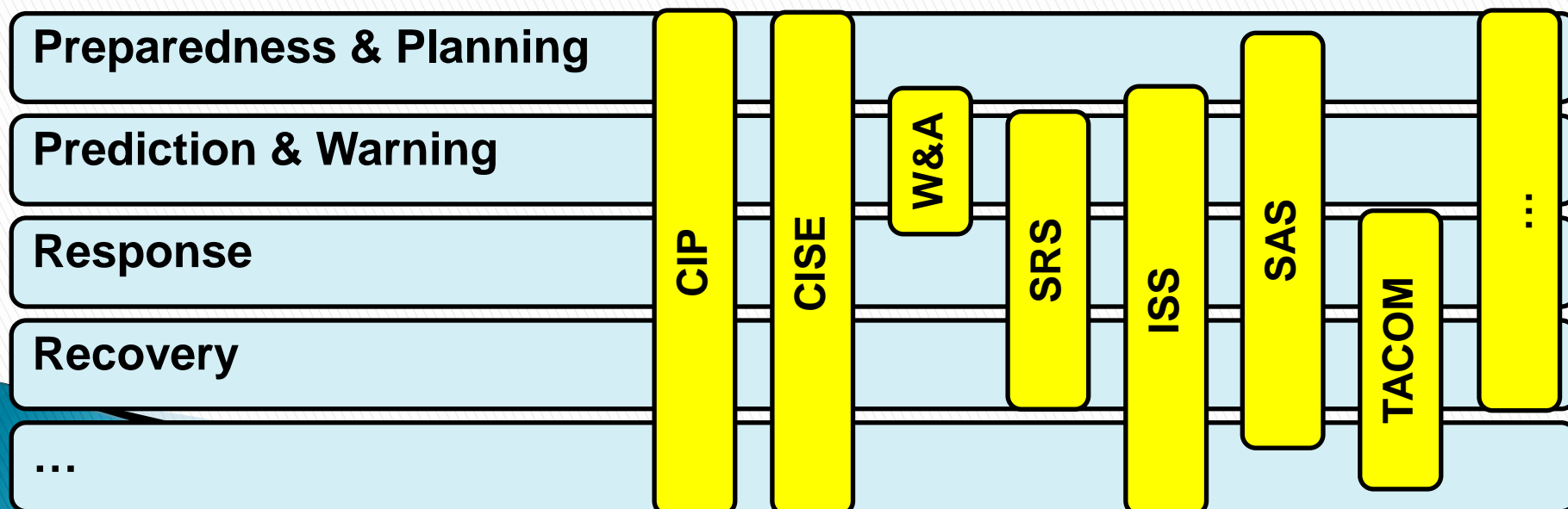
**Interoperability
Enablers**



Grouped into

IFA1	Community of Interest Info Protection (CIP)
IFA2	Collaboration & Info Sharing Environment (CISE)
IFA3	Warning & Alerting Services (W&A)
IFA4	Support Request Services (SRS)
IFA5	Info Sharing Services (ISS)
IFA6	Sit. Awareness & Common Oper. Picture (SAS)
IFA7	Tactical Communication (TACOM)
IFAx	...

Applicable to



Role of NC3A in Cooperation with CoE C-IED & NAMSA



NORTH ATLANTIC COUNCIL

CONFERENCE OF NATIONAL ARMAMENTS DIRECTORS

DEFENCE AGAINST TERRORISM PROGRAMME OF WORK

COUNTER-IED TASK FORCE

COUNTER-IED ROADMAP – CLEARING HOUSE

COE-CIED (doctrine and training)

1. Co-operate to increase security
2. Support the transformation
3. Drive the development of capabilities via support to:
 - education, training and multinational exercises.
 - improving interoperability.
 - development of concepts, doctrine, procedures and standards.
 - testing and validating concepts and materials.
 - contributing to the process of lessons learned.



NC3A (technology solutions)

1. **Clearing House Support**
2. **Multinational C-IED Programme Office**
Packages:
 - **Jammers**
 - **Remote Controlled Vehicles**
 - **Entry Control Point Suite**
 - **Persistent Surveillance**
 - **Biometrics**
3. **Research and Development support, Training support**



NAMSA (logistics)

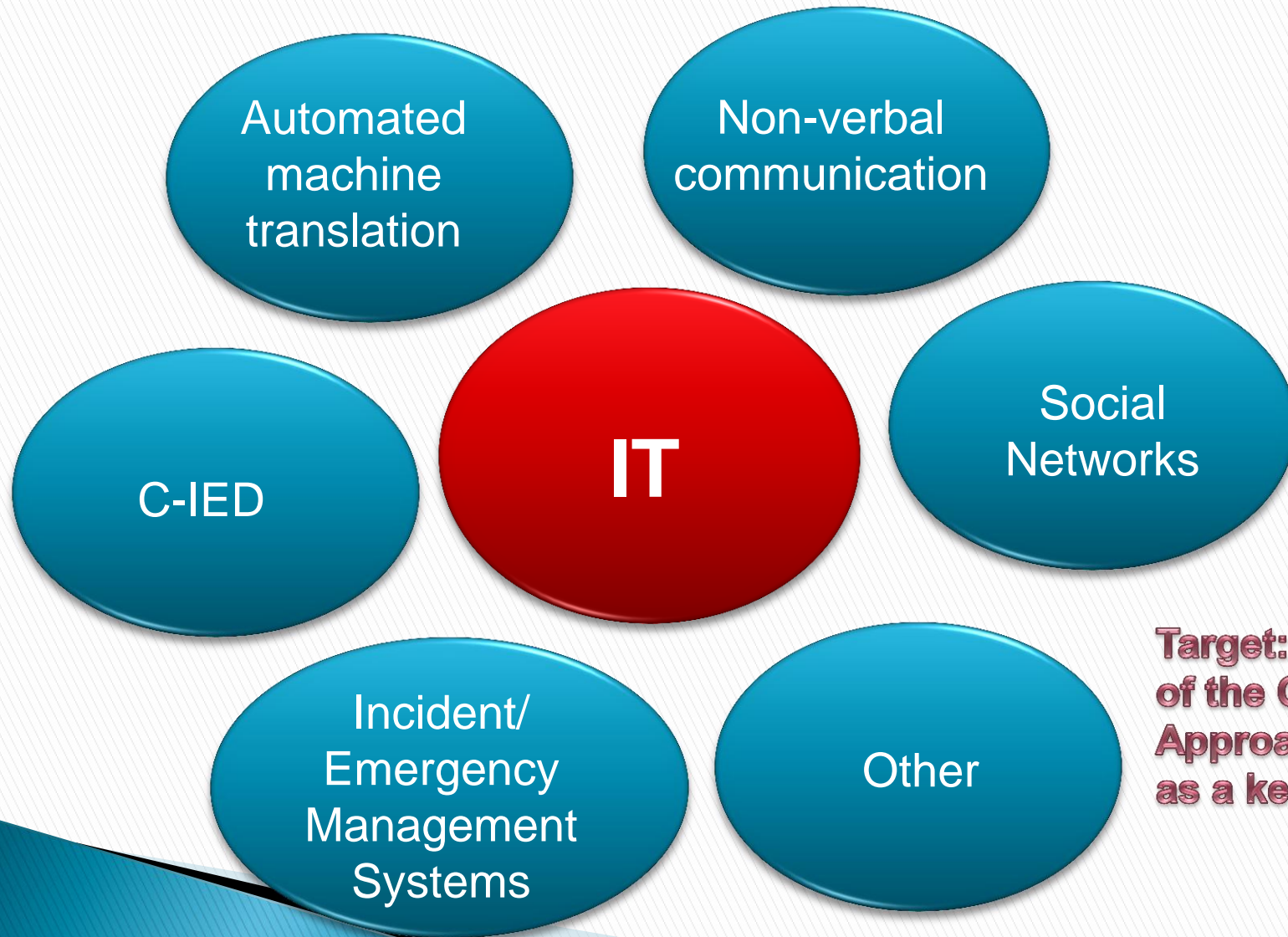
1. Logistics partnership & support ,
2. Urgent requirements & operations support in the field of logistics
3. Consolidation of the requirements and centralization of logistics activities



NATO-EU CAPABILITY GROUP

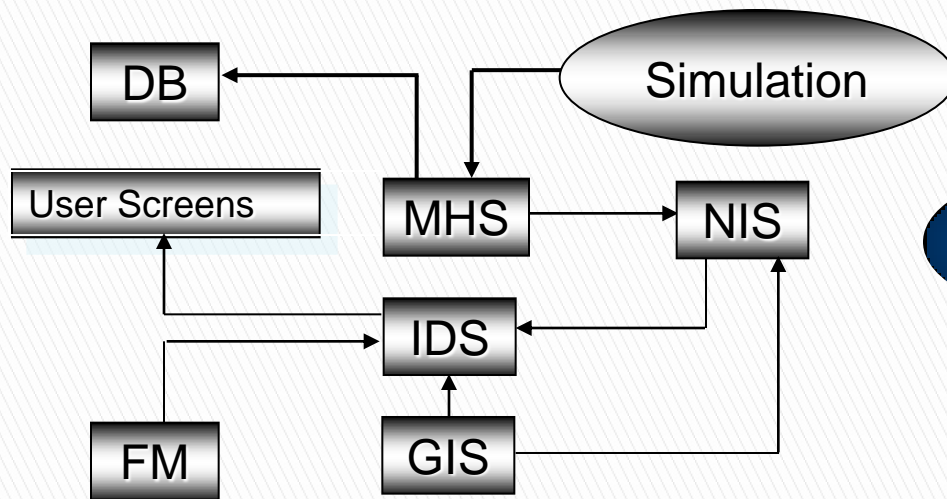
EUROPEAN UNION/ EUROPEAN DEFENCE AGENCY

Role of IT in Support to Counterterrorism in CALD Communities

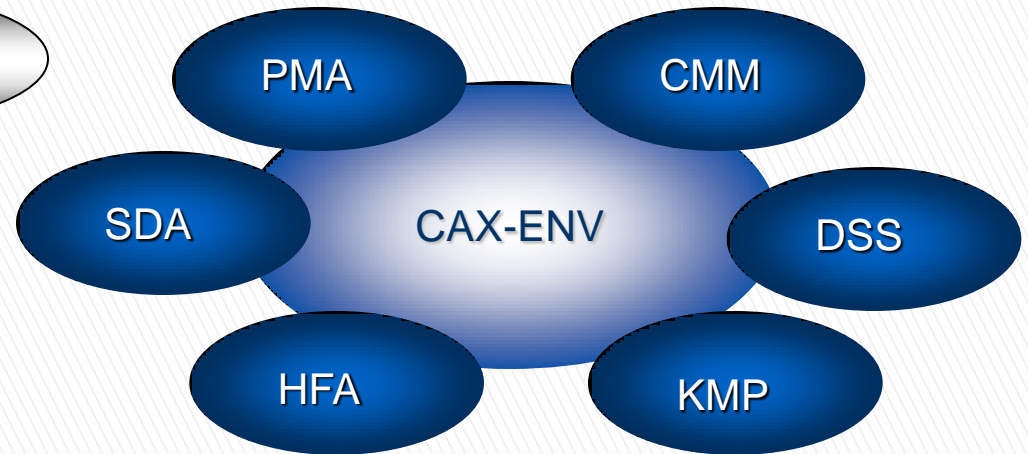


Target: Operationalization of the Comprehensive Approach supported by IT as a key enabler

Some National & International Examples

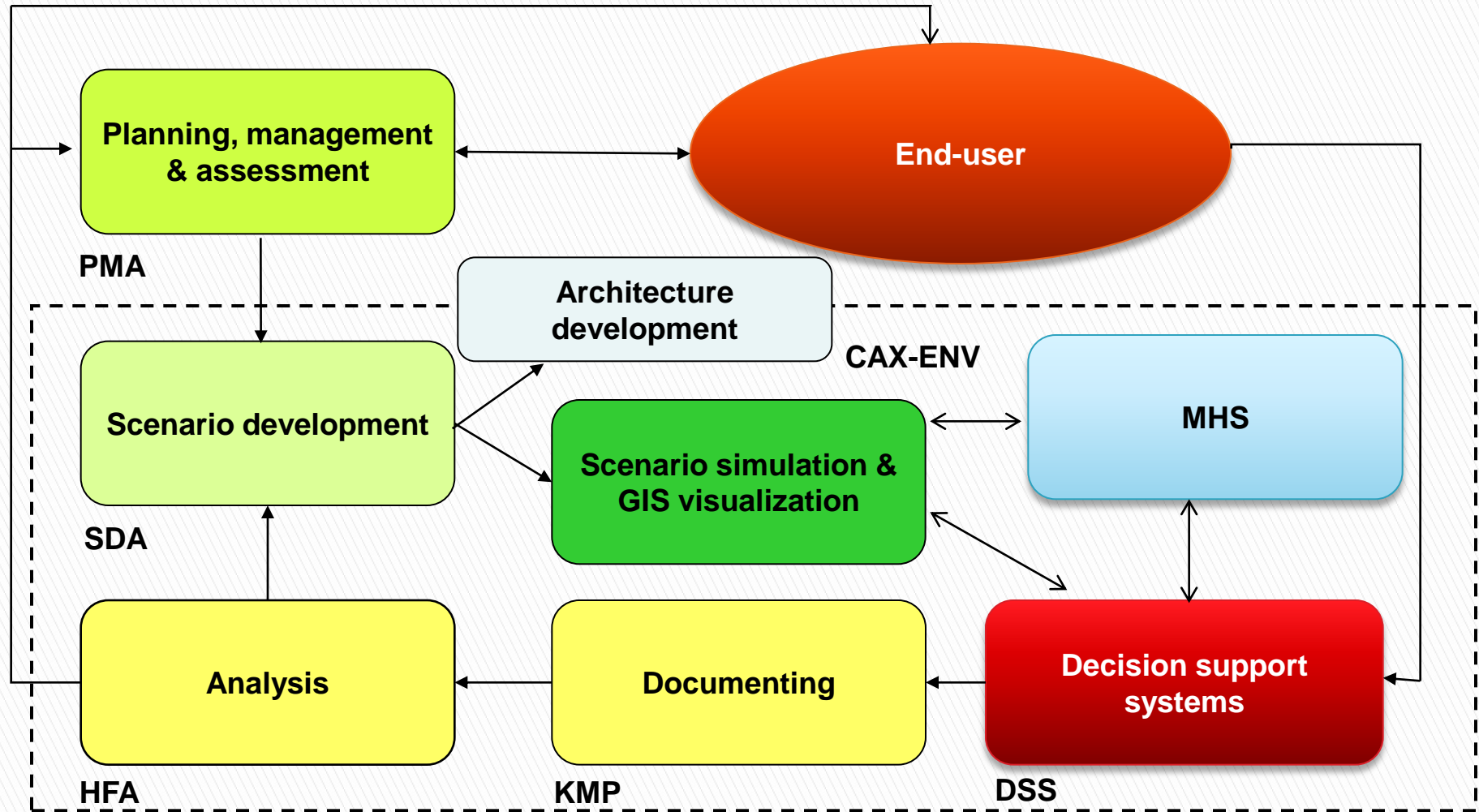


CAX - ENVironment



*Basic low-cost Environment for
Simulation & Training - BEST*

BEST Architecture



EU Network of Excellence on Cyber Security



syssec

Multinational Exercises



EU TACOM SEE 2006

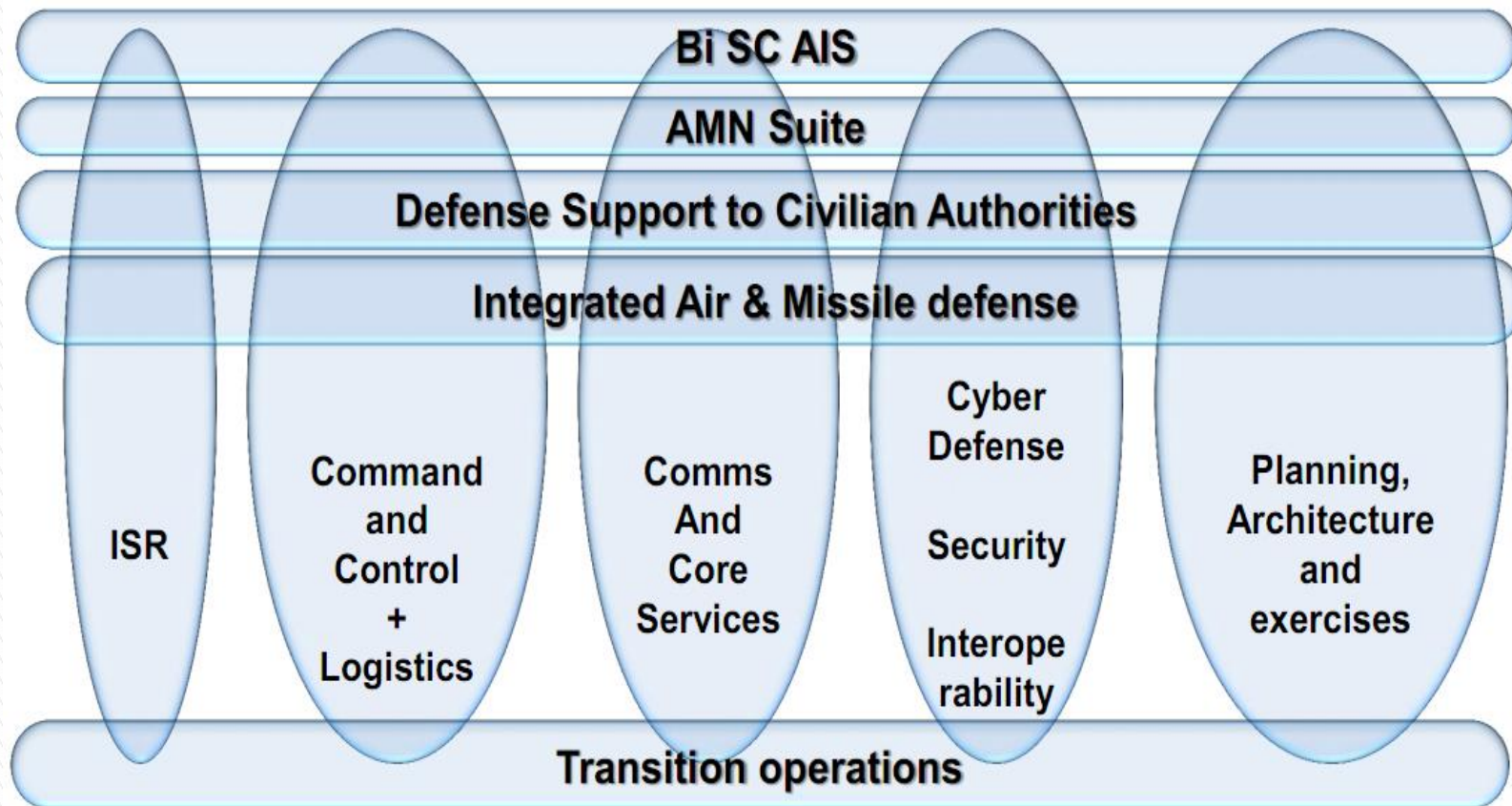


PHOENIX 2010

Target: Establishing a NATO CoE DSCA in Bulgaria



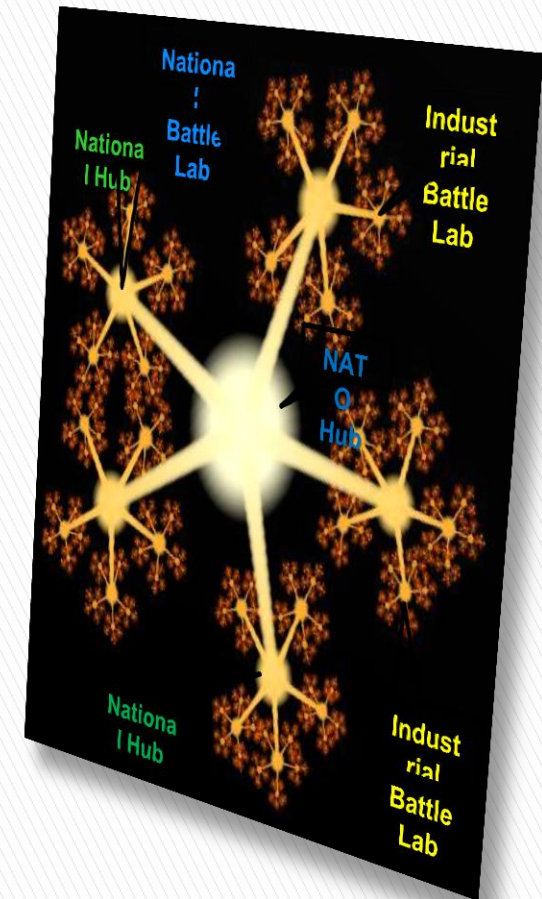
IT Governance in Support to Counterterrorism Operations



Target: Integrated 'smart defence'


Distributed Networked Battle Lab Support

- **Supports full lifecycle**
 - From Concept Development & Experimentation to pre-deployment testing
 - From functional testing to CONOPS evaluation
- **Federation of NATO and national laboratories**
- **NATO, government, industry and academia**
- **Different security classifications**



Proposal: NATO CoE cooperation

Conclusions

- ▶ IT could be a successful key enabler for operationalization of Comprehensive Approach in CALD Communities and thus countering terrorism;
 - ▶ Both horizontal & vertical Integration is required for achieving complete synergy of the operationalization of Comprehensive Approach;
 - ▶ A possible solution for supporting the IT governance challenges in operationalization of Comprehensive Approach and countering terrorism is a distributed Network of Excellence on the bases of DNBL with Bulgarian participation.
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Thank you for the attention!

