Agenda

- MN CD E&T Objective
- Working Plan
- State of Play
- Synergies and Coordination
- Way-ahead
To fulfill Nations’ and NATO’s CD E&T shortfalls identified in the GAP analysis that will be performed in cooperation with ACT, in order to support Nations and NATO to comply with NDPP Capability Targets.

Added Value

- **Offers Allies CD E&T Activities** (from strategic to technical level) not available through NATO, National, bilateral or commercial arrangements;

- **Contributes to the future NCI & Cyber School Capability Enhancement** – links ACT Gap Analysis with NCISS future activities;

- **Promotes NATO Certification** – high quality of courses and interoperability of experts;

- **Multinational Character** – greater flexibility and benefits with participation of EU, Industry and Partners;

- **Open and Inclusive** – New members could join at later stage.
Competencies and Skills Development: Integrated Model

- NDPP Cap Targets (E5308)
- NATO CD Awareness and E&T Concepts
- NATO CD E&T Plan

Smart Defence Projects:
- MNCD2 and MISP

NCI & Cyber Academy (Oeiras)

Courses
- Certification

Education
- Graduates

Professional Development

CD Battle Lab (Training)
CD Cyber Range (Exercises)

NCI & Cyber Academy

NATO and Allied Nations

CD Personnel

Cyber Lab

Training

Exercises

Operational Test Bed
Working Plan: Phases & Deliverables

Inputs
- Cap Targets
- NATO CD E&T Plan
- NATO CD Aw and CD E&T Concepts

NATO and Nations Inputs and Proposals

Phases
- Definition of ToR and Working Plan (Phase 0)
- Definition of CD Competencies & Skills (Phase 1)
- CD E&T Requirements (Phase 2)
- Analysis of CD E&T Offer (Phase 3)
- Gap Analysis (Phase 4)
- Proposed Solutions (Phase 5)
- New Initiatives (Phase 6)
- Final Report Preparation (Phase 7)

Deliverables
- ToR and PoW
- Report on Required Competencies & Skills
- Common E&T Curriculum
- List of Available CD E&T Activities
- Report on Gap Analysis CD E&T Shortfalls
- CDE&TCoord Platform (IOC) New Proposals CD E&T
- New CD E&T Initiatives
- CDE&TCoord Platform (FOC) + Final Report
Project 1.36 - MN CD E&T

PURPOSE

To create a CD E&T Coordination Platform and provide new initiatives to fulfil Nations’ and NATO’s CD E&T shortfalls

Participating Nations (Formal Statement of Interest):

- Albania
- Belgium
- Bulgaria
- Czech Republic
- Estonia
- France
- Finland
- Georgia
- Germany
- Netherlands
- Poland
- Portugal
- Romania
- Slovenia
- Spain
- Turkey
- United Kingdom
- United States

Main Stakeholders:

- ACT
- NCISS
- CCDCOE

Other Stakeholders and Interested Nations:

- ACO
- NSO
- NIAG
- NMSG -117 , IST Panel
- Luxembourg
- Canada
- Denmark
- Greece
- Hungary
- Italy
- Latvia
- Lithuania
- Norway
- Slovakia

Interested Partners:

- EU
- Japan
- Ukraine
- Moldova
- FYROM
- Austria
- Ireland
- Switzerland
- Georgia
- Luxembourg
- NCISS
- CCDCOE
Training Requirements Analysis
What is the best alignment?
CD Training Requirements - Ongoing Initiatives

NATO CD Training Requirements Analysis
(identifies CD E&T Gaps)

EDA Cyber Defence Landscaping Study
(Shortfalls in all 20 pMS in Exercises and Training)

EU Military Training Requirements for CSDP
(includes specific Cyber Defence Requirements)

US National Initiative for Cybersecurity Education (NICE)
Provides an overview of the methods, challenges, and best practices for investigating cybersecurity workforce capabilities and competencies.

VISION:
Inform the development and enhancement of cybersecurity education to foster a cybersecurity workforce capable of defending the infrastructure and interests of the United States.
Cyber Force Development is mainly focused in defining Capability Needs.
E&T Requirements Analysis

**Challenge:** What CD E&T is required?

For each competency/skill to be developed and for each training audience answer the question:

**What Education & Training is required to ensure that the Organization is able to perform its tasks as needed?**
Cyber Curriculum – New CD E&T Initiatives

Exploratory Ideas
New Initiatives – National and International Involvement

Shortfalls identified at both EU, NATO (CD TRA) and National Levels

Cyber Defence Awareness Course
(Cyber User)

Cyber Security and Cyber Defence Master
(Bologna Protocol and “Erasmus” Framework)

Cyber Defence and Cyber Security Law Master
(Bologna Protocol and “Erasmus” Framework)

Cyber Intelligence Course
(Intel Analysts)

Cyber Defence Staff Officers’ Course
(J6/Cyber and other Staff – e.g. J3)

Cyber Defence Capability Development Course
(Capability Planners)
Coordination and Cooperation:

- Participation at other SDP Workshops/Meetings
- Identification of Common Areas of Interest (CAI)
- Coordination of Activities

Joint Initiatives

- 1st NATO CD SDP Conference (Lisbon, 09 April 2015)
- 2nd NATO CD SDP Conference (Lisbon, 28 April 2016)
Workshop #8 (27 April 2016)
MNCDE&T – Synergies and Coordination of Efforts

EUROPEAN DEFENCE AGENCY

EU

NATIONAL

NATO

Cyber Ranges P&S

PT CD EDA

Apr 15

EUMTG – CD Discipline

Feb 15

MNCDE&T National

May 14

PoW

Common Vision CD E&T

Dec 15

CD E&T P&S

Products (Deliverables)

• Masters
• Cyber Range
• Taxonomy
• Courses

Products (Deliverables)

Common Curriculum

Cyber Defence Training and Exercises Platform (EU – National – Multinational)
Way – Ahead

Cyber Curriculum
Build a Skilled Cyber Defence Workforce
New Initiatives – Link to ACT and NCI & Cyber Academy

Hub for a Web of E&T activities
Coordination node of a federation of E&T institutions

Academia and Industry Involvement
New Challenges and a “Window of Opportunity”

NATO, National and EU – Alignment of Efforts
National synergies and international Cooperation
– Common vs. tailored solutions

Smart Wins - C3
Coherence, Capability Building and Cost Reduction

Next Events:
- Workshop #9 (Brussels, 18-19 July 16– TBC)
- Workshop #10 (Brussels: October16 - TBC)
A Smart Project for a Smarter Cyber Defence …