

# MN CD E&T Project



**MN CD E&T**

Multinational Cyber Defence Education & Training



2<sup>nd</sup> CD SDP Conference

(Portugal, Military Academy 27April 2016)



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# Agenda

- MN CD E&T Objective
- Working Plan
- State of Play
- Synergies and Coordination
- Way-ahead



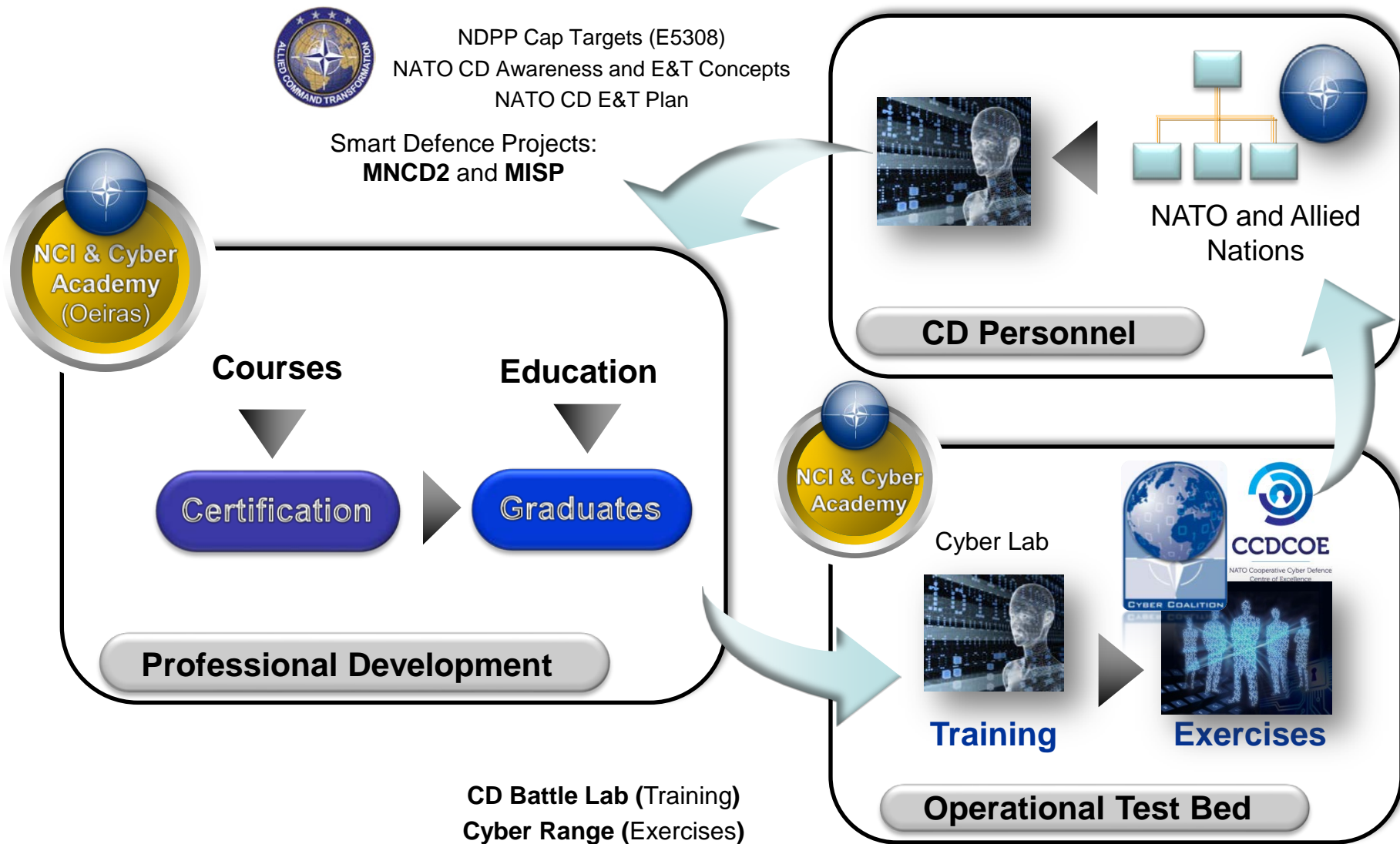
# MN CD E&T Objective

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**

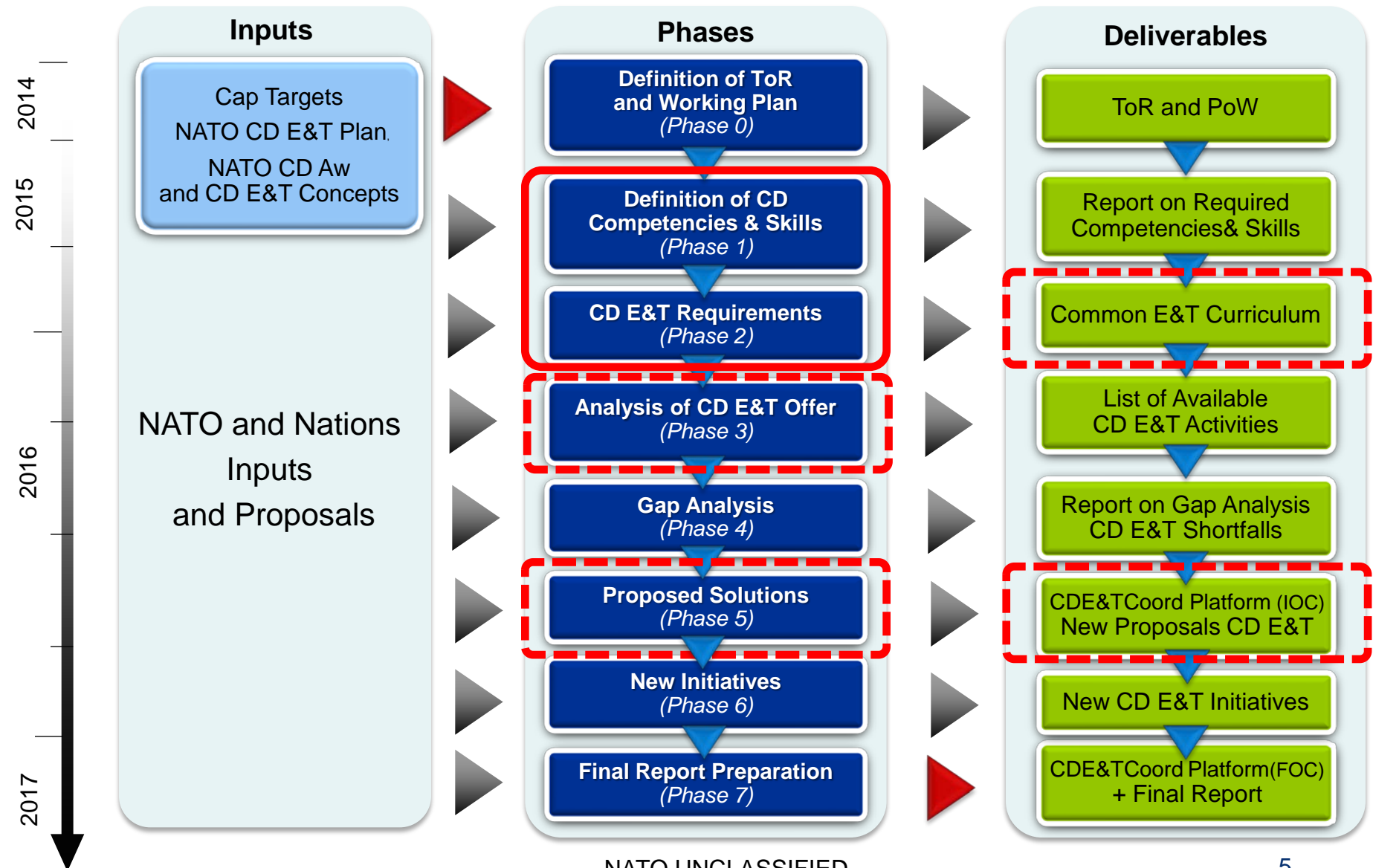
## Added Value

- **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



# Working Plan: Phases & Deliverables



# 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):



### Other Stakeholders and Interested Nations:



### Interested Partners:





**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.



# CD E&T Requirements Analysis – Methodology

**Cyber Force Development**  
is mainly focused in defining  
**Capability Needs**



# E&T Requirements Analysis

Challenge : What CD E&T is required ?



CD Value Chain

Group	Task	Training Audiences								
		Strategic				...	Technical			
		DoK					DoK			
		1	2	3	4		1	2	3	4
1	1.1			X				X		



Tasks

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



# Cyber Curriculum : Modular Approach

Generation of Competencies

Education Level

BASIC

INTERMEDIATE

ADVANCED

**Cyber User**  
(Individuals)

All Users

A

A1

A1

A2

**Cyber Law**  
(Cyber-Lawyer)

Lawyers

A

B1

B2

B3

**Cyber Leader**  
(Leadership /Staff)

Strategic

A

A1

B1

C2

C3

Operational

C1

D1

E1

**Cyber Security**  
(Cyber-Specialist)

Technical

A

A1

C1

D2

D3

Tech Assistant

D1

E1

**Cyber Defence**  
(Cyber-Warior)

Tactical

E1



































E2

E3

Academic Programs

# New Initiatives – National and International Involvement

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

	NATO	EU	National	Industry	Academia	CD SDP
 <b>Cyber Defence Awareness Course</b> (Cyber User)						
 <b>Cyber Security and Cyber Defence Master</b> (Bologna Protocol and “Erasmus” Framework)						
 <b>Cyber Defence and Cyber Security Law Master</b> (Bologna Protocol and “Erasmus” Framework)						
 <b>Cyber Intelligence Course</b> (Intel Analysts)						
 <b>Cyber Defence Staff Officers' Course</b> (J6/Cyber and other Staff – e.g. J3)						
 <b>Cyber Defence Capability Development Course</b> (Capability Planners)						

# NATO CD Smart Defence Projects

(Coordination and Cooperation with other SD Projects)

## Coordination and Cooperation:

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



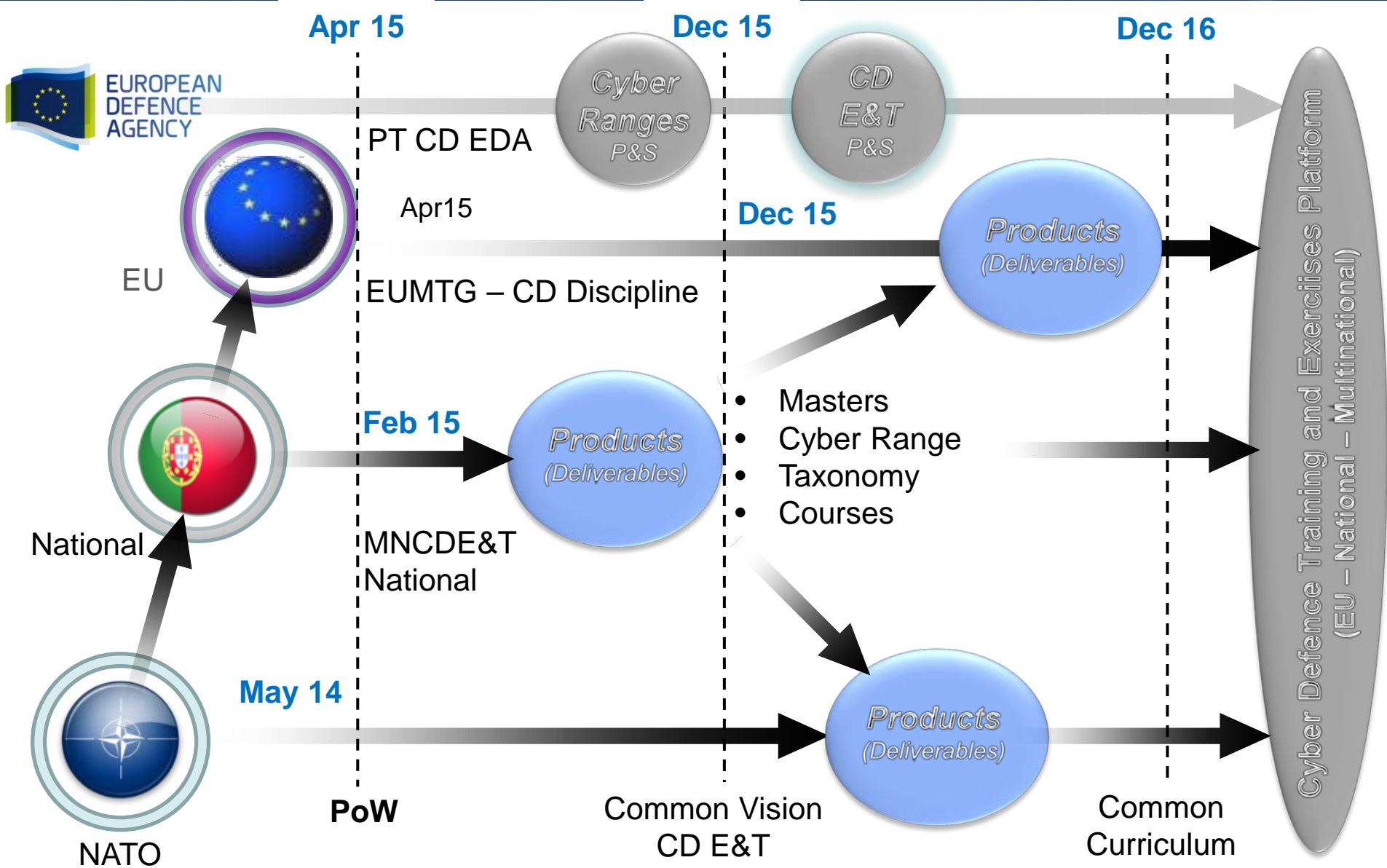
## *Joint Initiatives*

- **1<sup>st</sup> NATO CD SDP Conference**  
(Lisbon, 09 April 2015)
- **2<sup>nd</sup> NATO CD SDP Conference**  
(Lisbon, 28 April 2016)

# Workshop #8 (27 April 2016)



# MNCDE&T – Synergies and Coordination of Efforts





# 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, **C**apability Building and **C**ost Reduction

- **Next Events:**

- **Workshop #9** (Brussels, 18-19 July 16– TBC)
- **Workshop #10** (Brussels: October16 - TBC)





***A Smart Project for a Smarter Cyber Defence ...***