Summary

- An opportunity to improve NATO approach to IM, HC and Risk has been identified

- The NATO WG has developed outline proposals for a simplified document structure, new improved content, and the work programme needed to deliver these.

- **We are now seeking comment, engagement and support from the wider IM and HC community for what is an ambitious and complex undertaking: to standardize, harmonize and streamline the NATO approaches to IM, HC and Risk Assessment.**

IMEMG MURAT
EUROPEAN MANUFACTURERS GROUP

The 3rd European IM Day
Amsterdam, 18-19th May 2017

Session chair
Serge Bordachar

SESSION 2

REGULATION & LEGAL FRAMEWORK

IM Policies & Implementations

Overarching Framework

João Castelao de Abreu

Project Officer Ammunition & Logistic Support, EM, Missiles & Munitions – EDA

Thomas Honke

Project Officer Qualification, Test & Evaluation, Standardisation – EDA

"How European qualification may be driven and influenced by technology"

EUROPEAN DEFENCE AGENCY

How European Qualification may be driven and influenced by Technology

João ABREU, PO Ammunition & Logistic Support
Thomas HONKE, PO Qualification, T&E and Standardization
18 May 2017

Contents

EUROPEAN DEFENCE AGENCY

Introduction

Together for a stronger Europe


Mission
… to support
the Council and the Member States in their effort to improve the European Union's defence capabilities for the Common Security and Defence Policy.*
*Treaty of Lisbon, signed in 2007, entered into force in 2009

Institutional setting

Federica Mogherini
High Representative of the Union for Foreign Affairs and Security Policy
Vice-President of the European Commission
Head of Agency

European Council
Heads of State and Government

EUROPEAN DEFENCE AGENCY

EDA Steering Board
27 Defence Ministers

GUIDELINES
REPORTS

Foreign Affairs Council
Foreign /Defence Ministers

PSC
Ambassador level

CHODs

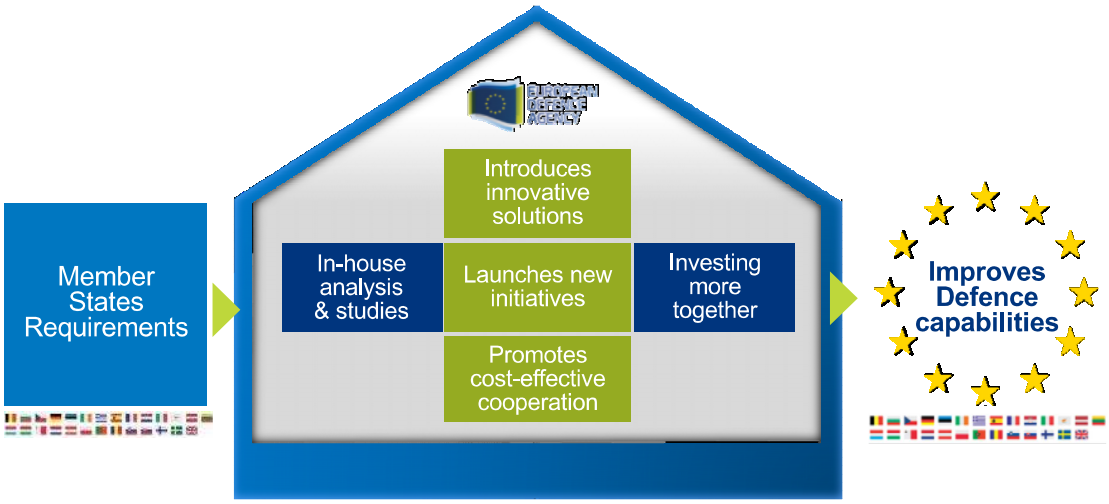
EUMC

EEAS
EUMS - CMPD

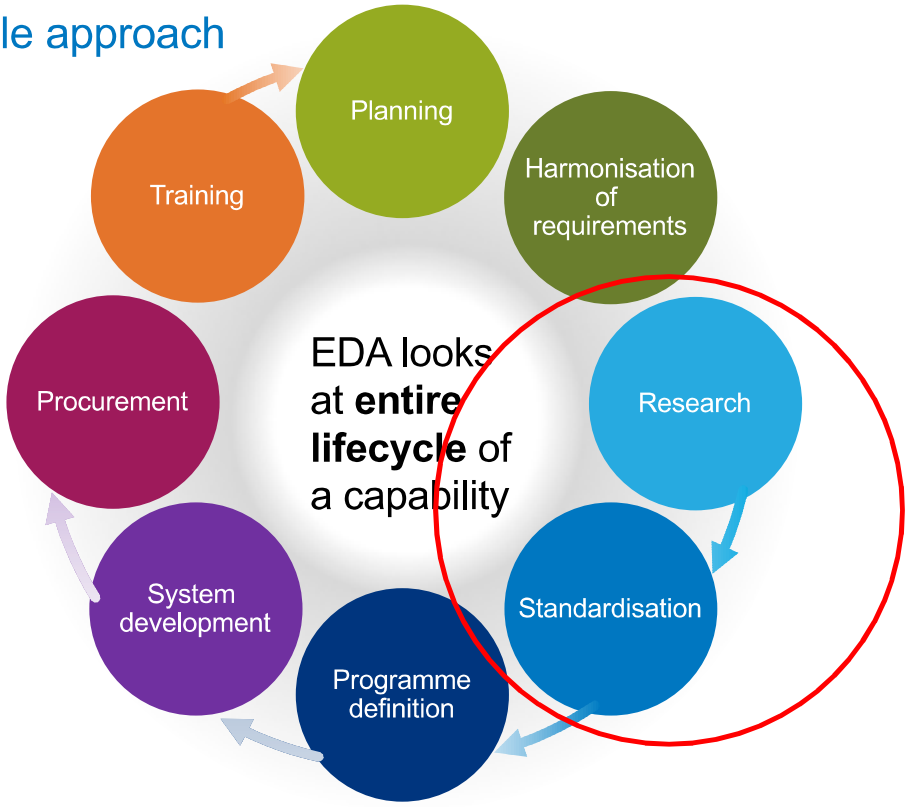
European Defence Agency

CONSULTATION

A catalyst:
from Member States to Member States



Lifecycle approach



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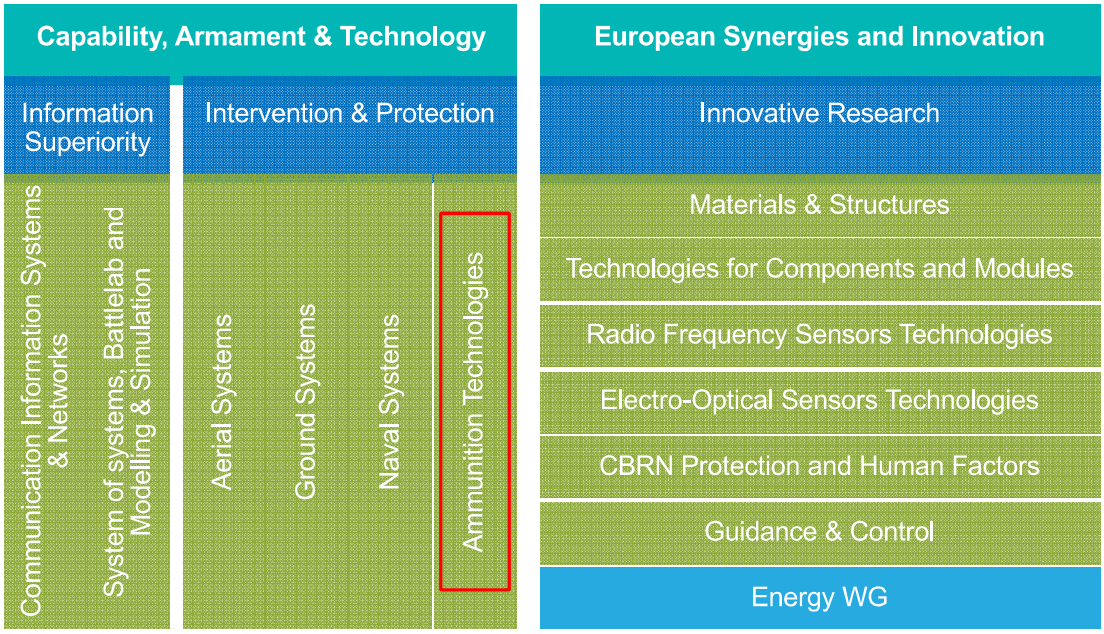
Research on Ammunition Technologies

www.eda.europa.eu

CAPTechs – Technology domains & networks



The detailed technical coverage of each group is posted on the EDA WEBSITE

CapTech Ammunition Technologies

CapTech Ammunition Technology is a group of Energetic, Missiles and Munitions (EMM) experts whose task is to act as a contributor to enhancing European Defence capabilities, trough harvesting new technological opportunities and launching collaborative efforts

CAPABILITY NEEDS:

- Deliver effects (via EMM) in a precise, scalable and safe way

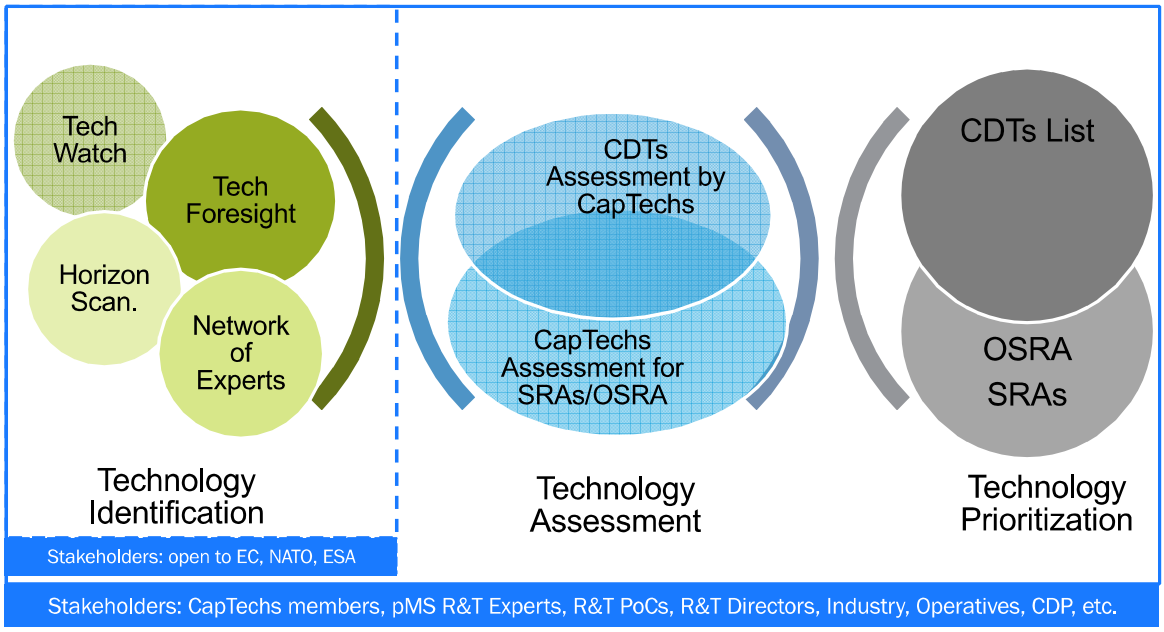
TECHNOLOGIES/RESEARCH DOMAINES:

- Energetic Materials
- Lethality and Platform Protection
- Propulsion (rocket engines, ramjets, gun launch)
- Design Technologies for Platforms and Weapons
- Sensor Systems
- Weapons (Missiles and Mines)

PROJECTS/PROGRAMMES:

- Munition-Life Management [MLM]
- Guided Munitions Mission Abort System [MAS]
- Energetic Materials Towards an Enhanced European Capability [EMTEEC]
- Reduced Sensitivity Energetic Materials for the Higher Performance of the Inertial Confinement [RSEM]
- Additive Manufacturing Techniques for Energetic Materials [AMTEM] – under preparation

Comprehensive R&T Planning to support pMS



Strategic Research Agenda (SRA)

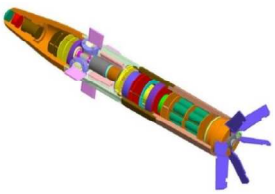
Member States R&T Directors task (2008):

- to develop **Strategic Research Agenda (SRA) for each EDA CapTech**
- **corresponding technological roadmaps**

CapTech AMMO SRA aims to provide:

- **strategic guidance**
- clear **technological roadmap** for developing future technologies

encompassing Member States views and ambitions concerning EMM research.



Munition Life Managemet [MLM]

TNO innovation for life

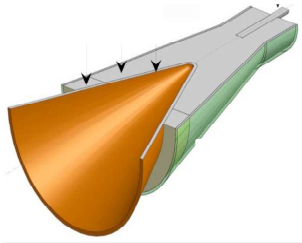
FOI

MBDA MISSILE SYSTEMS

CapTech AMMO
It's more than rocket science

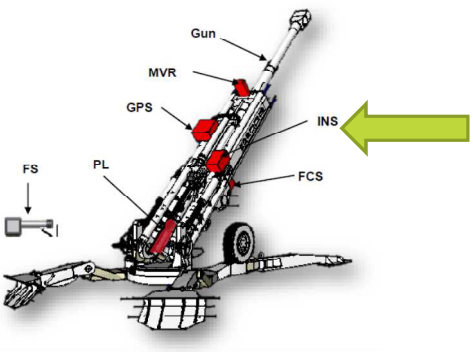
powered by EUROPEAN DEFENCE AGENCY

Reduced Sensitivity Energetic Materials (RSEM - HPIC)



Energetic Materials Towards an Enhanced European Capability

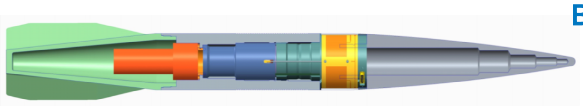
CCF Integration with Artillery Systems in EU
EDA Study



CapTech Guidance & Control

CAPABILITY DEVELOPMENT PLAN (CDP)

Collaborative Data Base (CODABA)



CapTech Ground Systems

ENNSA

CapTech Materials & Structures

Land Programmes

Preparatory Action

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DTEB and ENNSA

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DTEB – ENNSA
EUROPEAN APPROACH TO MAKE FUTURE DEVELOPMENTS SAFER

Defence Test & Evaluation Base DTEB powered by EUROPEAN DEFENCE AGENCY

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EUROPEAN DEFENCE AGENCY

EUROPEAN NETWORK FOR AMMUNITION SAFETY

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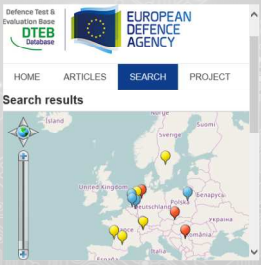

And more...

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ROAD TO HARMONISED CERTIFICATION

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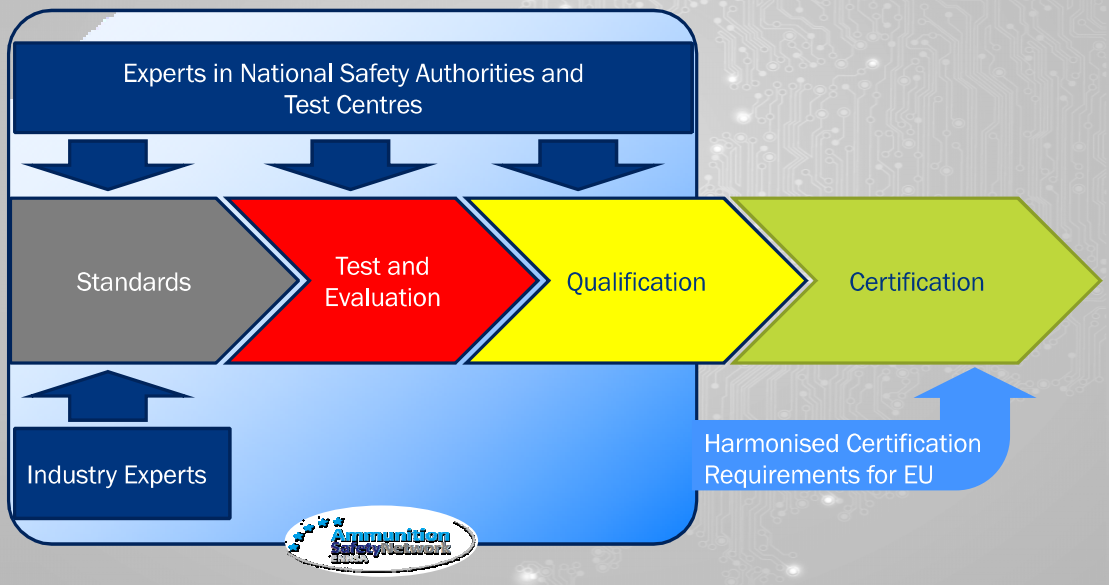

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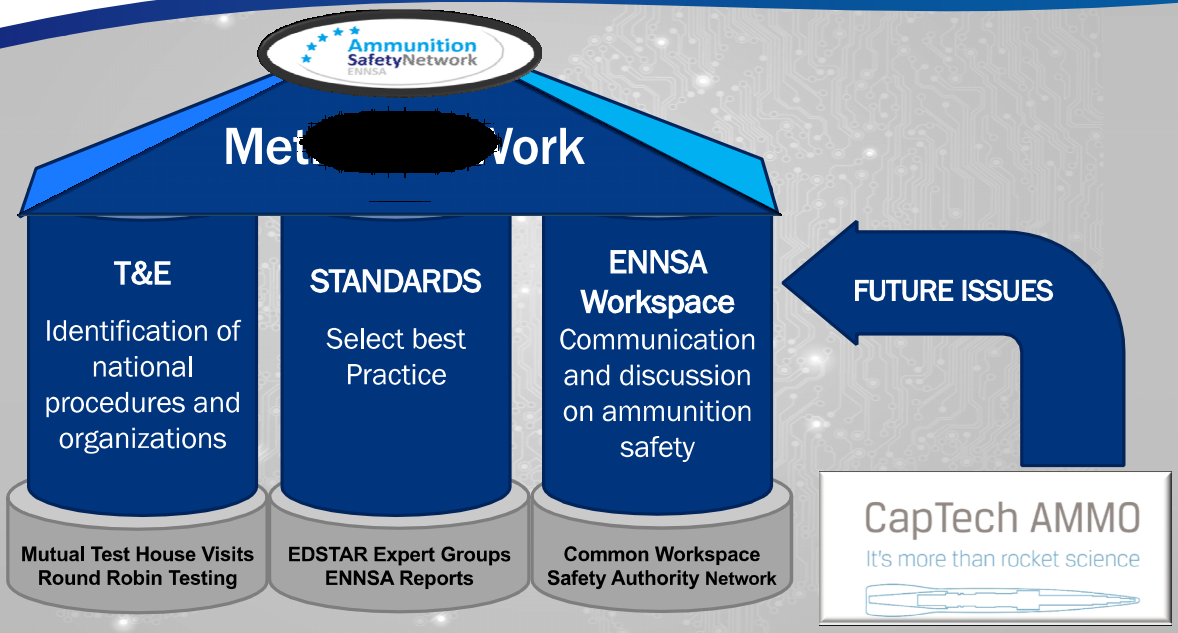
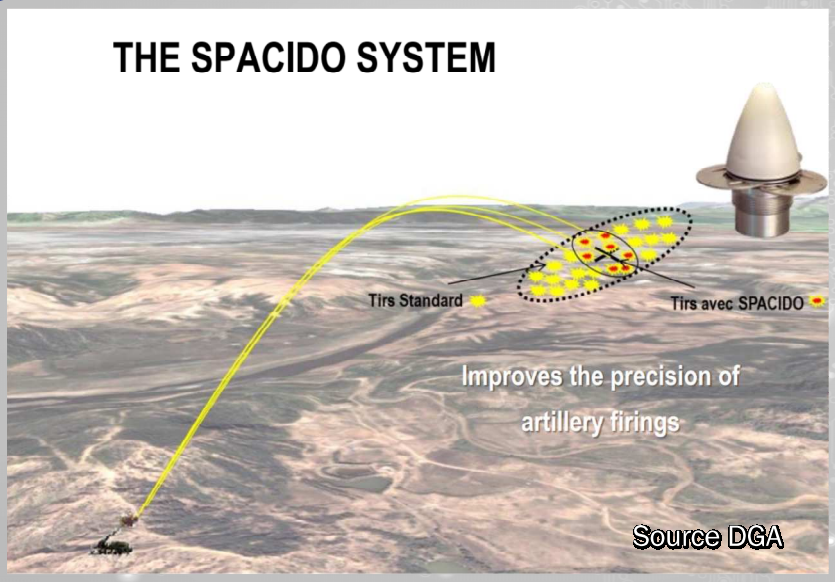
HOW IT WORKS

Defence Test & Evaluation Base DTEB powered by EUROPEAN DEFENCE AGENCY



CONCRETE EXAMPLE SENSOR FUSE, WHERE TO TEST?



Where to test?

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TEST IN THE OWN EUROPEAN HOUSE

TEST ARRANGEMENT

TEST ARRANGEMENT

APPLYING THE
GENERAL PROVISIONS FOR APPLICATION TO AD HOC TEST PROJECTS AND PROGRAMMES FOR THE MUTUAL USE OF GOVERNMENT TEST FACILITIES AND COOPERATIVE TEST AND EVALUATION WITHIN THE SCOPE OF ARTICLE 20 OF THE COUNCIL DECISION 2011/411/CFSP OF 12 JULY 2011
DEFINING THE STATUTE, SEAT AND OPERATIONAL RULES OF THE EUROPEAN DEFENCE AGENCY AND REPEALING JOINT ACTION 2004/551/CFSP

SEARCHING

- Djibouti
- South Africa
- Sweden (DTEB Member State)

Final choice : Sweden → Discussions with FMV (FMV = Swedish procurement agency)

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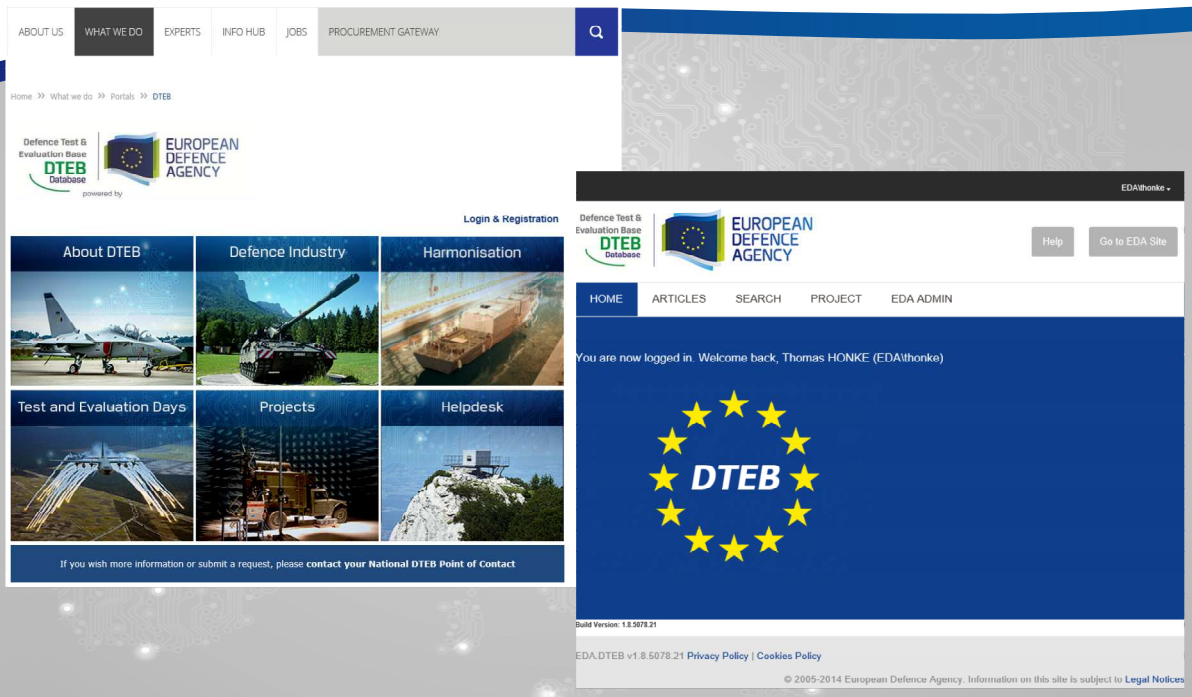
EDA MEMBER STATES HAVE ACCESS TO THE DTEB.DATABASE



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DTEB STRATEGY

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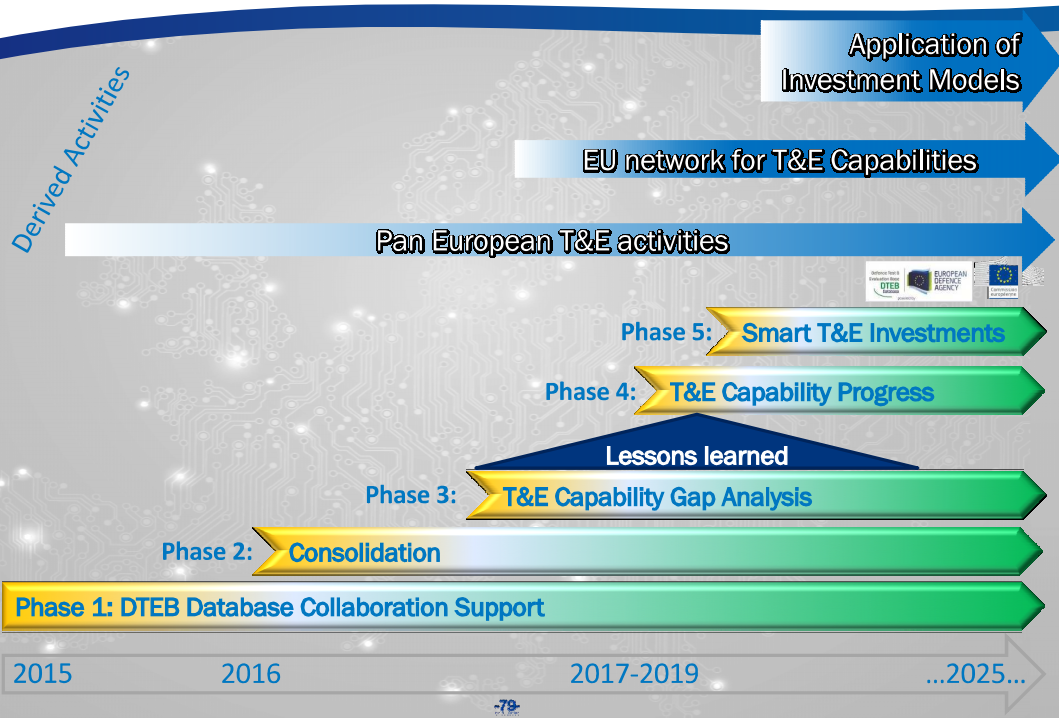

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ONE PAGE ABOUT NEW EU GLOBAL STRATEGY AND T&E STRATEGY

Defence Test & Evaluation Base DTEB powered by EUROPEAN DEFENCE AGENCY

EUGS	→	DTEB Strategy
…capacity for rapid response…	→	Large EU network of test centres Quick EU T&E Collaboration
…Defence cooperation between Member States will be systematically encouraged…	→	DTEB Consolidated framework; DTEB Database linked to other Tools (CODABA, CDP,EDSTAR)
…invest more in development cooperation…	→	Smart EU T&E investments to cope with future capability gaps

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CONCLUSION

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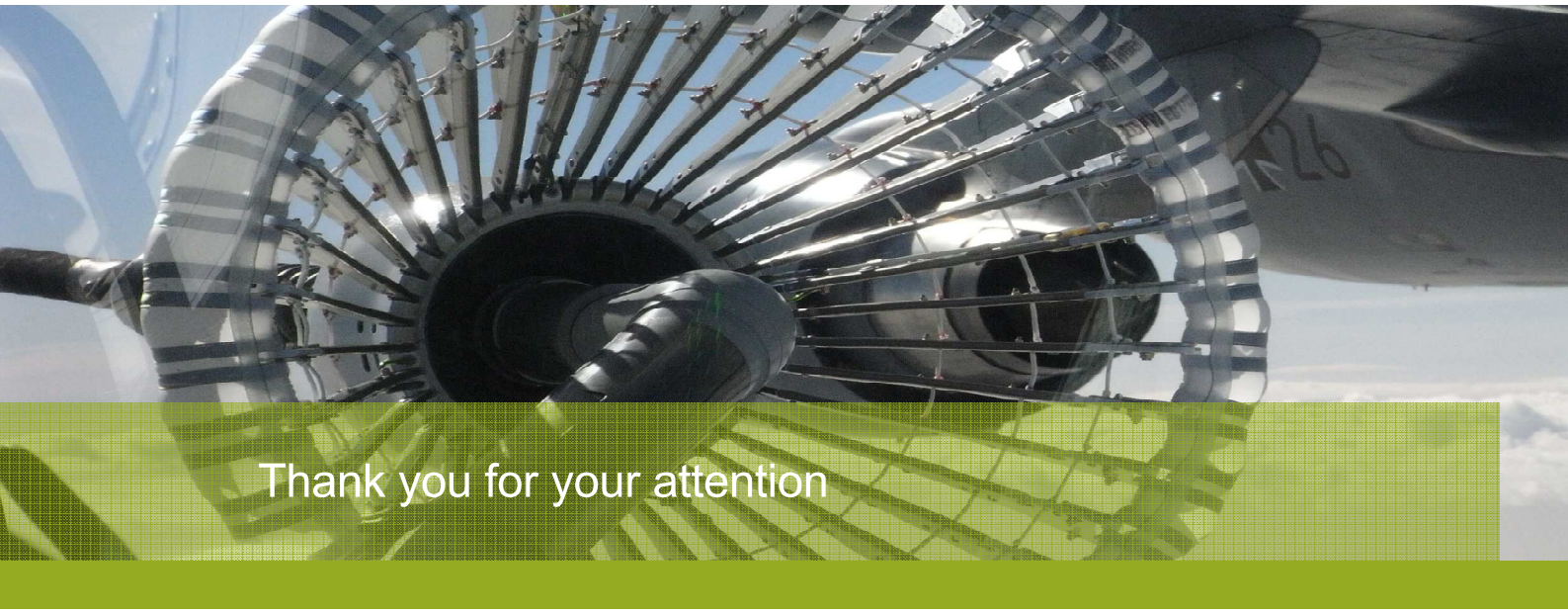

Thank you for your attention

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thomas.honke@eda.europa.eu