




Madrid May 2018
SDR Tactical Communications Workshop



EUROPEAN DEFENCE AGENCY: Perspectives on SDR Standards

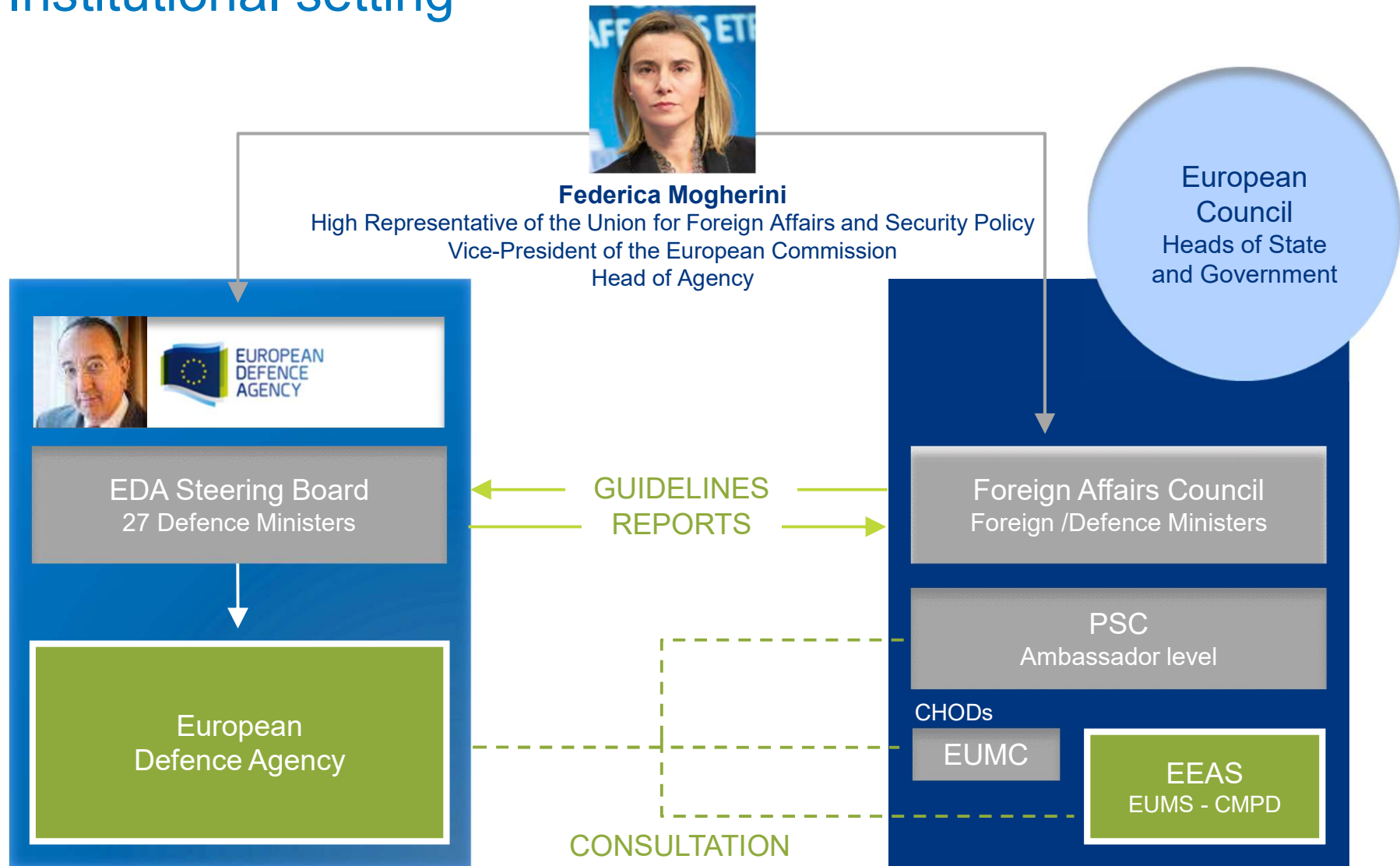
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Institutional setting



Main Mission

... to support the Council and the Member States in their effort to improve the Union's defence capabilities in the field of crisis management and to sustain the CSDP *

* Council decision 2015/1835 of 12 October 2015 on statute, seat and operational rules of the EDA

A catalyst: from Member States to Member States



Reinforced Mission

In May 2017, after EDA's **Long Term Review**, Defence ministers **reinforced** the Agency's mission:

- as main instrument for intergovernmental capability planning & prioritization
- as the prime forum and coordinator for the whole lifecycle of capability development
- as Member States' central interface & gateway towards EU institutions & stakeholders



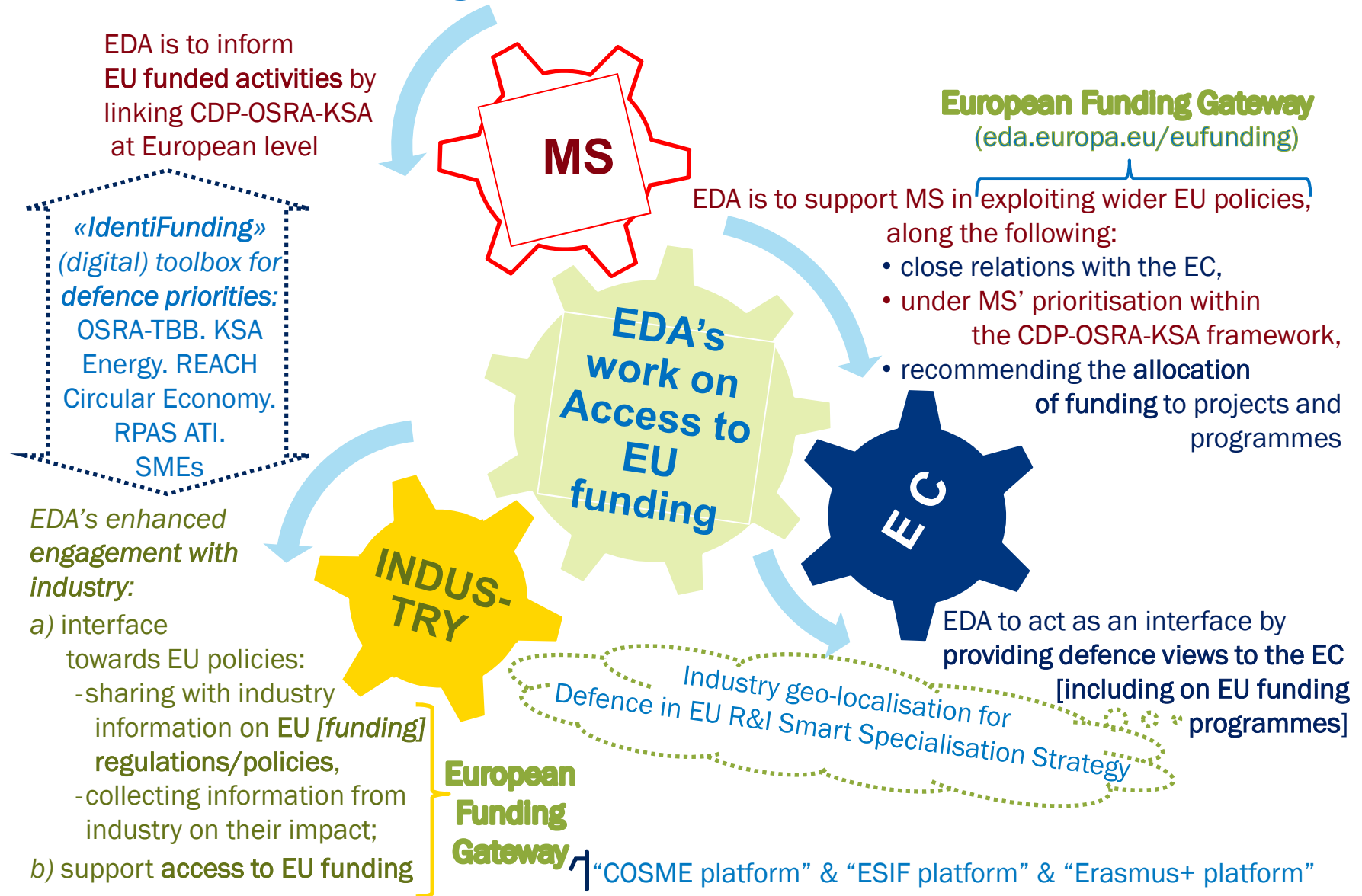
EDA's role in CARD, PESCO and EDF matters

- **In 2016 EU Global Strategy implementation**, the EU launched a series of new initiatives to boost European defence cooperation in which EDA plays an important role :
 - the Coordinated Annual Review on Defence (CARD) - **Secretariat**
 - the Permanent Structured Cooperation (PESCO) – **secretariat** (together with the EEAS and EUMS),
 - the European Defence Fund (EDF). **Central Operator**
 - the European defence technological and industrial base, **a privileged interlocutor and promotor.**
- Aiming to strengthen Europe's defence and reach the **strategic autonomy** objective set out in the **EU Global Strategy**

PESCO : set of projects

- **On 6 March 2018**, the Council adopted Decision (CFSP) 2018 establishing the list of 17 projects to be developed under PESCO :
 - **European Secure Software defined Radio (ESSOR)** : France, Belgium, Germany, Italy, Netherlands, Poland, Portugal, Finland

Access to EU funding - an integrated/coordinated/prioritised work





EDA Standardisation : key enabler for EDA projects

Defence Standardisation Strategy

EU Defence Standardisation should be considered

- Integral element of project
- A formal reference

Keys Objectives

- To enhance the awareness in the field of standardisation,
- To be able to select the most relevant standards for the defence user's needs and to develop new standards when deemed necessary,
- To master the portfolio of standards for European defence,
- To interact with European and global standardisation-related activities,

Key Principles

Transparency – Openness – Coherency – Reliability

<http://edstar.eda.europa.eu/>

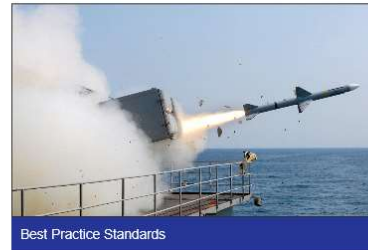


European Defence Standards Reference System (EDSTAR)

Welcome to the European Defence Standards Reference System (EDSTAR) containing references to "Best practice" standards and "standard-like" specifications. The expert Group report contains the recommendations associated to each technical domain with the rationale backing up the final selection, advice in connection with the most efficient way to apply the recommended standards and elements for being aware of the future standardization to be developed. The "Best practice" standards are standards which have been selected by consensus by industry and governmental organisations to be the best applicable standards for defence purposes.



Expert Group Report



Best Practice Standards

Description of EDSTAR




- EDSTAR is the **European Defence Standards Reference system** containing references to “Best practice” standards and standard-like specifications to support Programme organizations.
- The EDSTAR database is owned by the European Defence Agency and maintained in cooperation with standardization stakeholders.

NOTE: “Best practice” standards are standards which have been selected by consensus by industry and governmental agencies to be the best applicable standards for defence purposes.

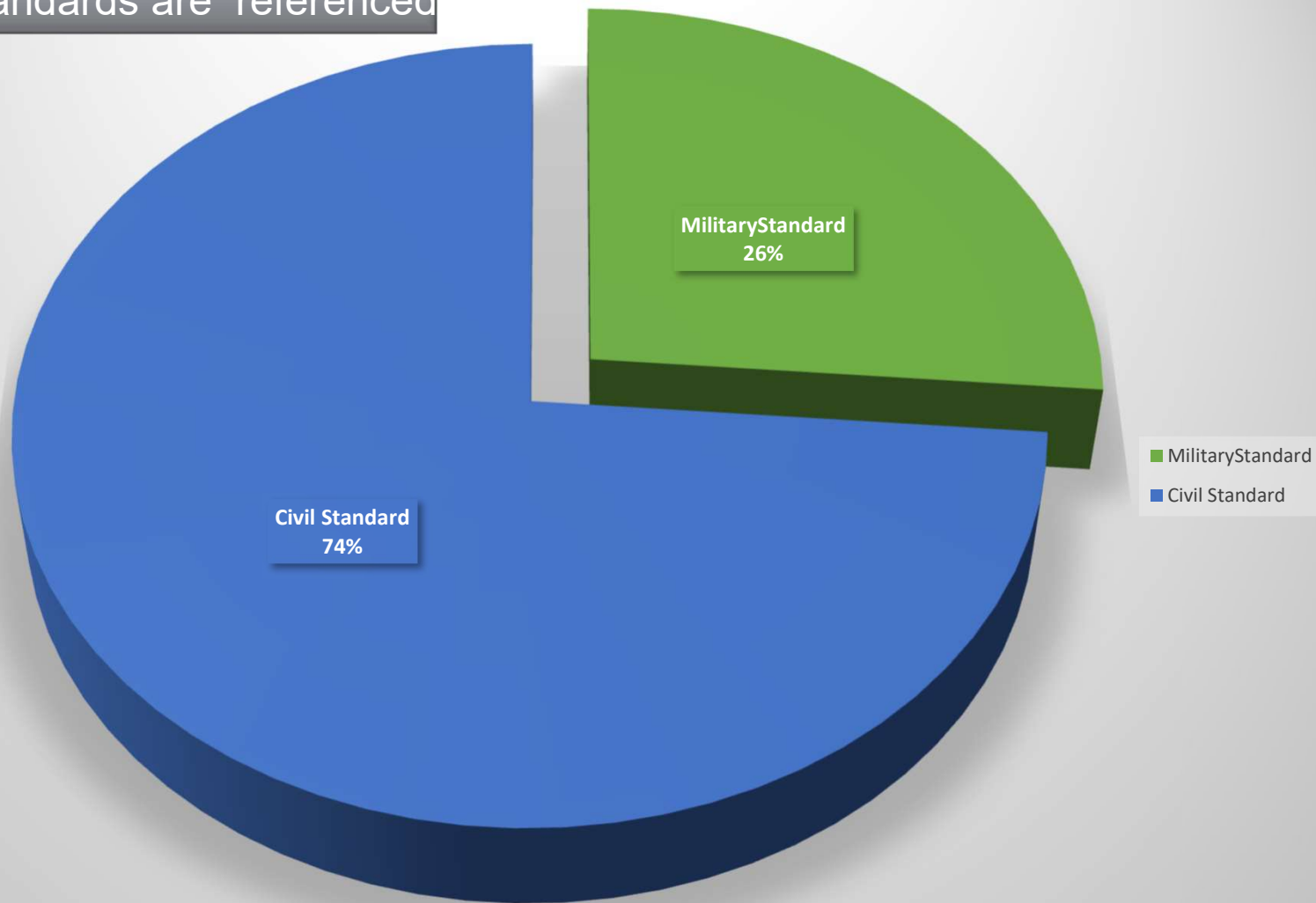


EXPERT GROUPS

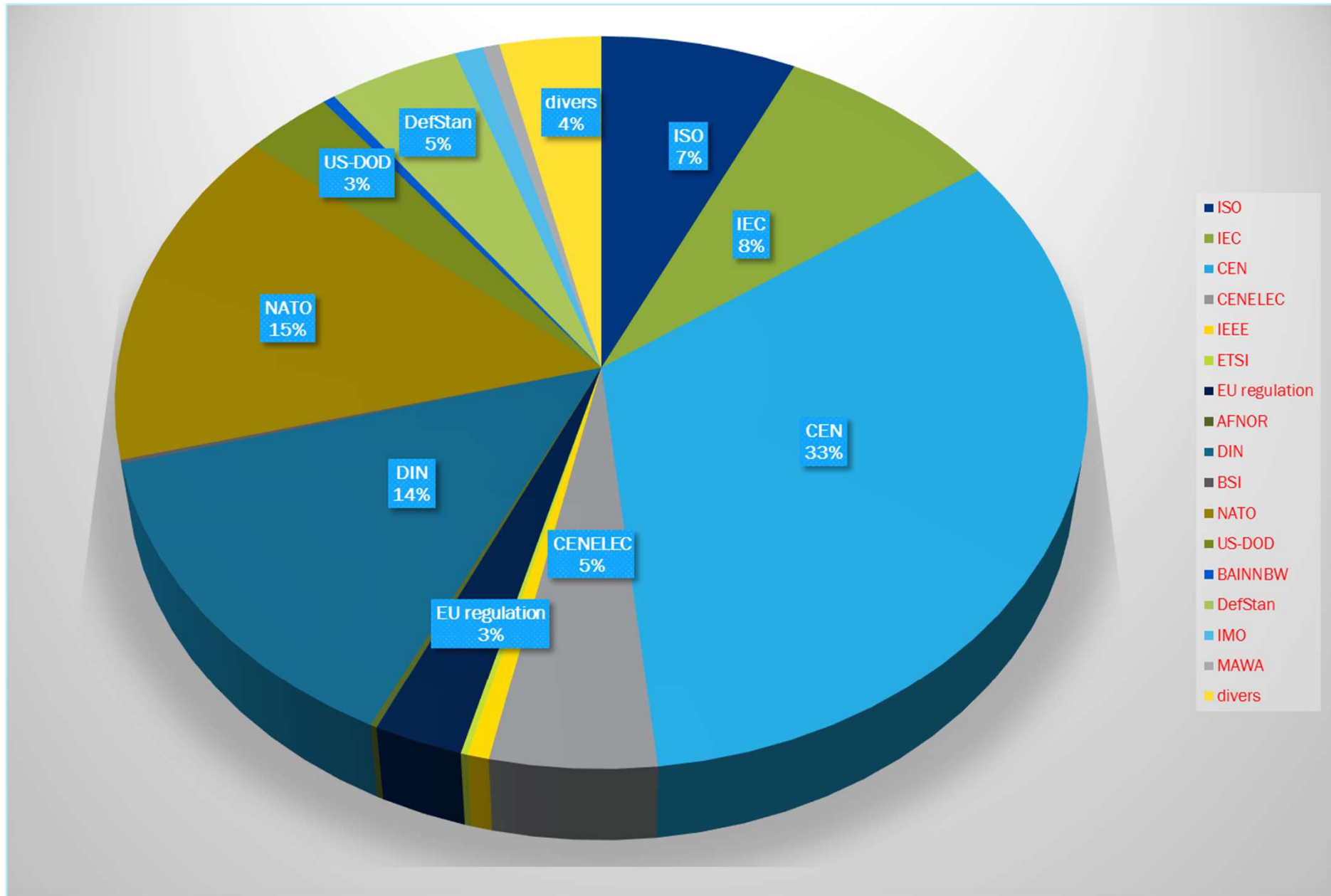
Title	Type	Manage Links
EG 17 - Dependability and Safety	EDSTAR Best Practice	VIEW
EG 18 - Life Cycle Waste Management	EDSTAR Best Practice	VIEW
EG 19 - Disposal of munitions	EDSTAR Best Practice	VIEW
EG 20 - System Architecture	EDSTAR Best Practice	VIEW
EG 21 - Obsolescence Report	EDSTAR Best Practice	VIEW
EG 22 - Water Purification Report	EDSTAR Best Practice	VIEW
EG 23 - Test & Evaluation	EDSTAR Best Practice	VIEW
EG 24 - Certification Report	EDSTAR Best Practice	VIEW
PG01 Military airworthiness	EDSTAR Best Practice	VIEW
 Network Enabled Abilities - Service-Oriented Architecture for civilian and military crisis management - cwa15537	EDSTAR Best Practice	VIEW

Origin of EDSTAR referenced standards 1/2

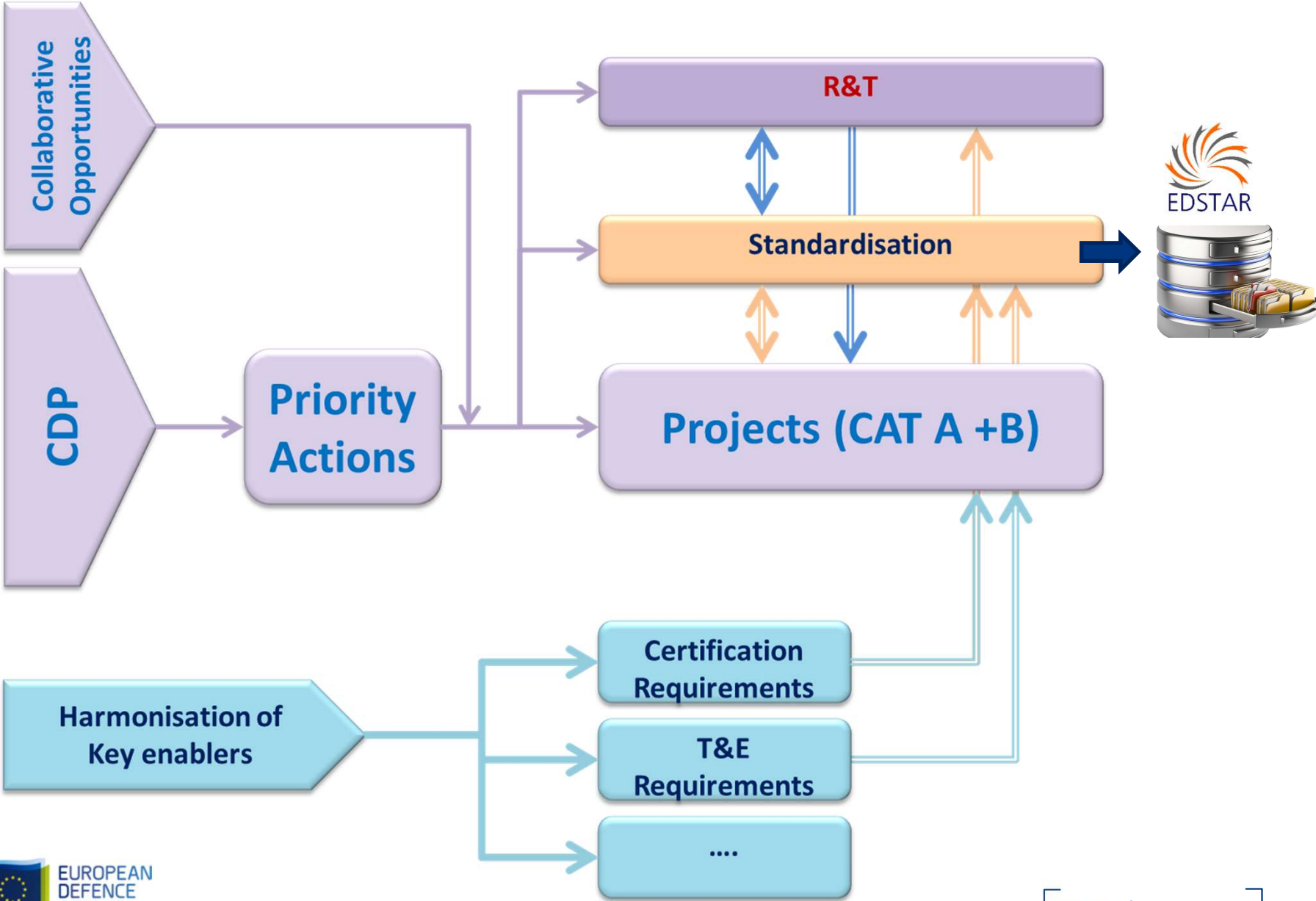
> 2400 Standards are referenced



Origin of EDSTAR referenced standards 2/2



Standardisation : TRANSVERSAL KEY ENABLERS IN EDA





EDA SDR SSG : SDR Standardisation Strategic Guidance (SDR SSG) Activities

EDA SDR SSG Objectives and priorities

1. The main objective is to improve WF Portability from the WF and platform perspective.
2. ESSOR Nations and Germany have exchanged information about their respective architectures;
3. Some key elements for an initial collaboration have been identified in the following architecture area of:
 - a. Operating Environment (OE) , Core Framework : SCA 2.2.2 / SCA 4.1
 - b. Radio Devices (RD) : e.g Transceiver
 - c. Radio Services (RS) : e.g. Timing Service

EDA SDR SSG Activities and Outcomes

1. Identification of potential risks for a broader adoption of SCA 4,1
 - a) Compliancy Rules : PIM or PSM Compliancy
 - b) Certification : Standard procedures for verification of SCA 4,1 implementation.
2. Initiation of the project Federated Time Services
3. SDR project Standardisation Management Plan in view to feed EDSTAR with SDR best practice standards.

EDA SDR standardization Incremental approach

Stage 3

Create and promote
an international standard
defined by European Nations and USA

Stage 2

Create a North-America Community for SDR
crystallized on JTRS architecture
and
Create a European Community for SDR
crystallized on ESSOR and Germany architecture

Stage 1

Internal consolidation of
ESSOR and Germany Architecture



Conclusion

European SDR programmes have proven to be an important source of contributions for global SDR standards (i.e. Complements to SCA architecture for increased flexibility) ;

European Nations are ready and willing to cooperate with stakeholders of global SDR market for the enhancement of existing standards towards better interoperability.

EDA SDR SSG WG looks at the WinnF as the preferred place for technical harmonization of existing SDR standards.



Thank you for your attention!