



EDA Perspective on SDR standards

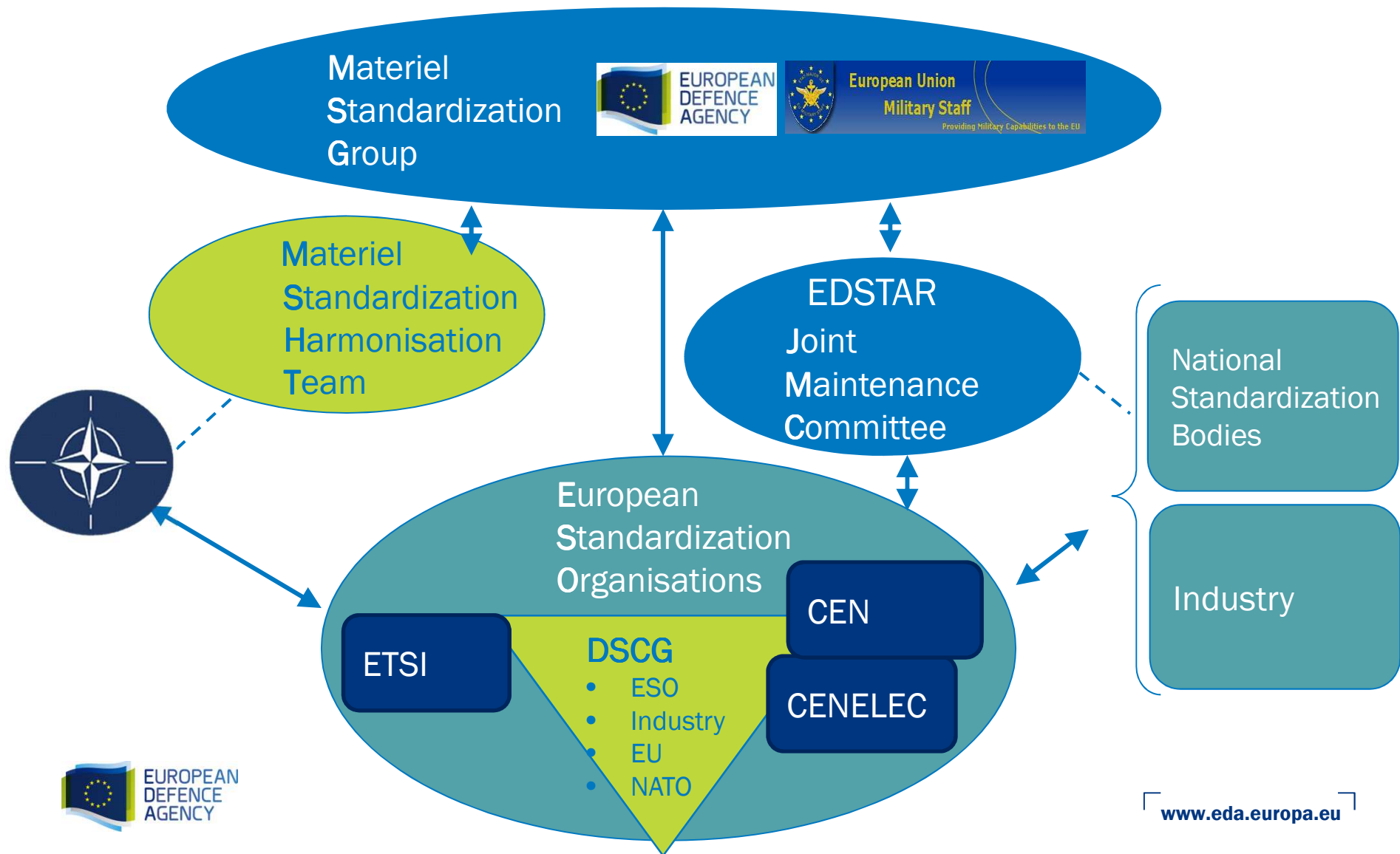
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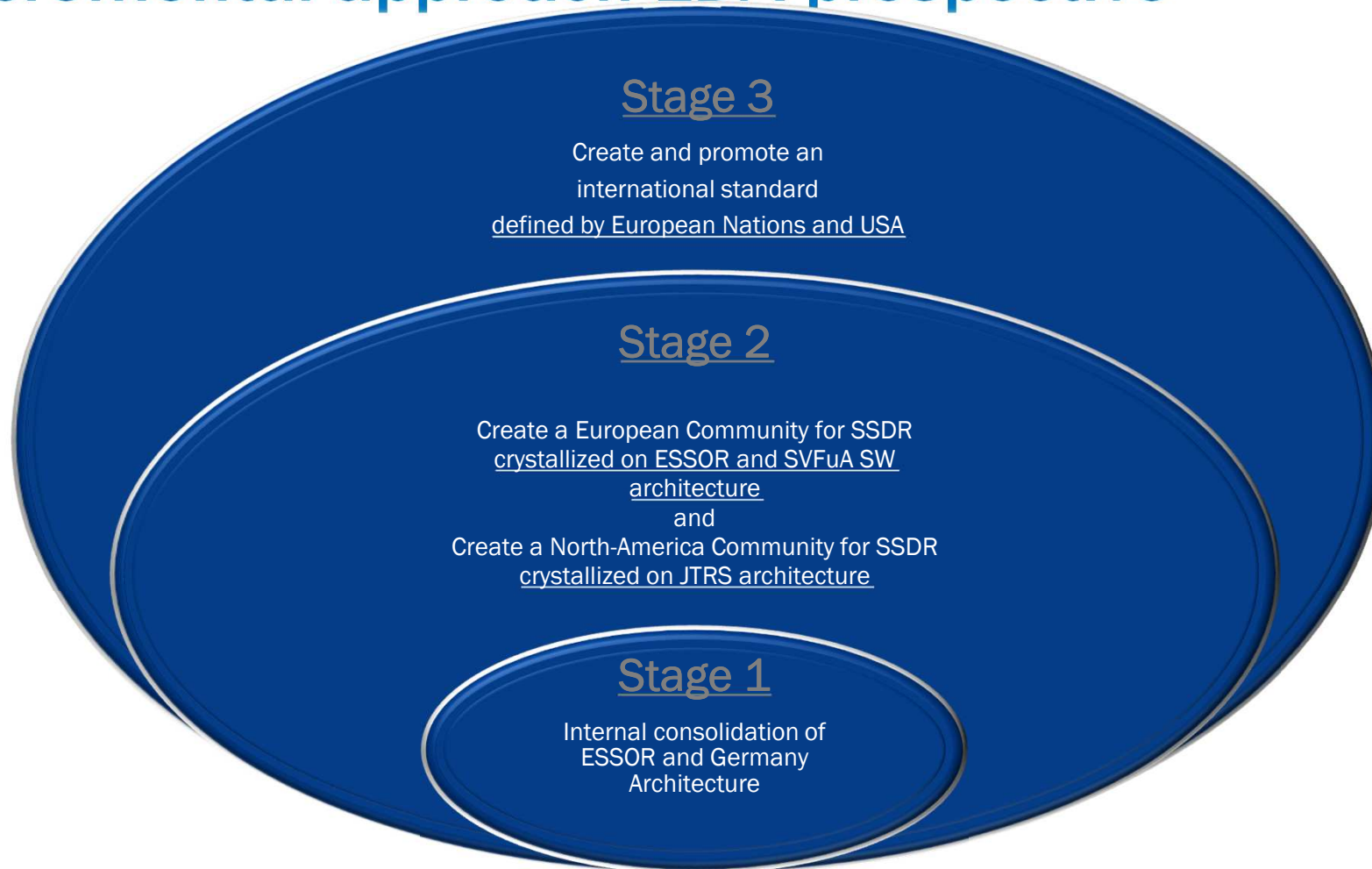
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EDA : THE MAIN STANDARDIZATION STAKEHOLDERS

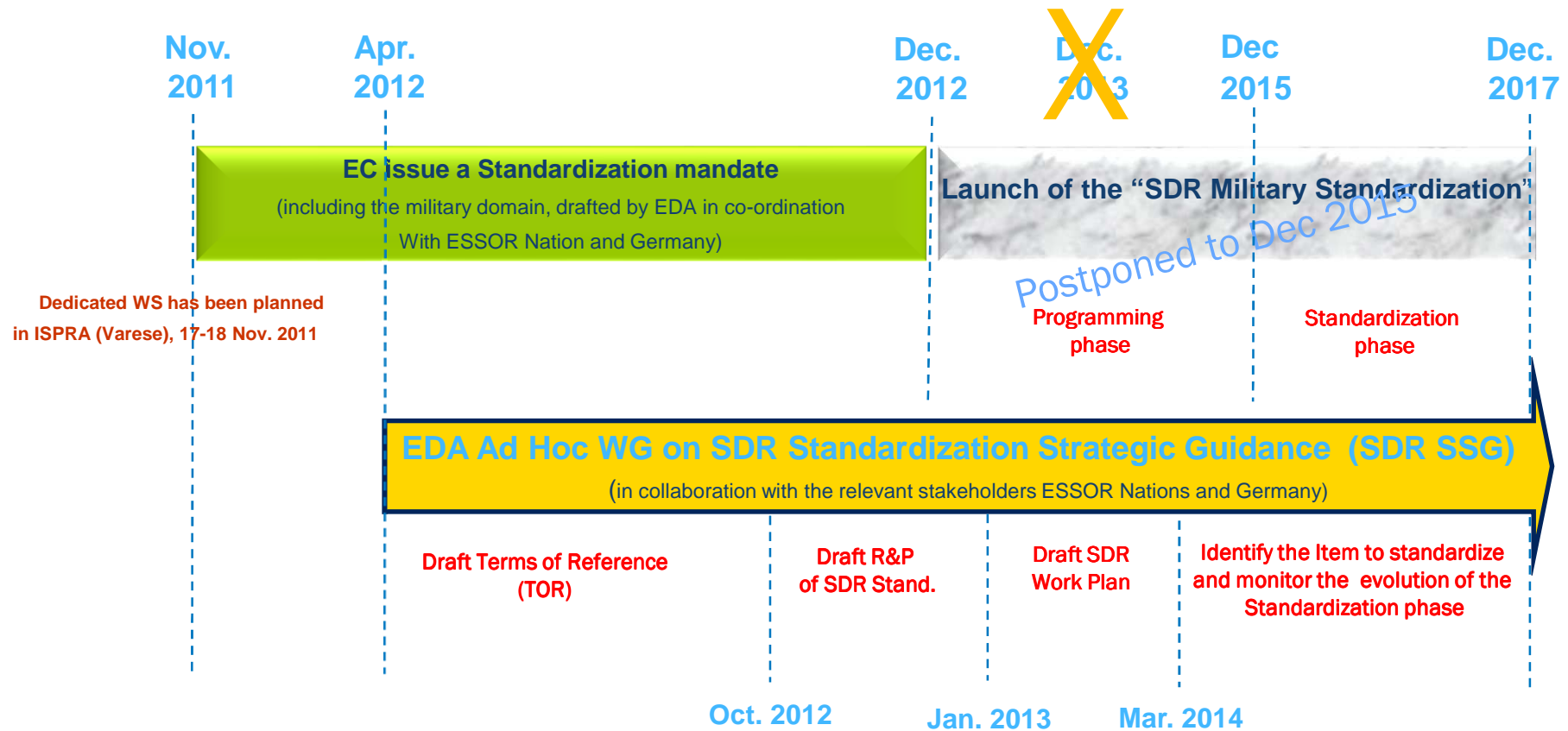


European SDR standardization

Incremental approach EDA prospective



SDR STANDARDISATION ROADMAP



Participants: EDA, ESSOR Nations and Germany (both governments and industries) OCCAR.

Why creating the EDA Ad Hoc WG on SDR SSG

1. To define and promote a common European Defence position on SDR SW Architecture standardization ;
2. To promote excellent working relation with the most important SDR stakeholders, in order to ensure portability and interoperability of the various SDR products;
3. To allow the best possible coordination among the “Participants” in the various forums dealing with SDR SW Architecture standardization.

The ultimate goal is a worldwide harmonization

PARTICIPANTS

As **Participating Members (PM)** of the SSG WG:

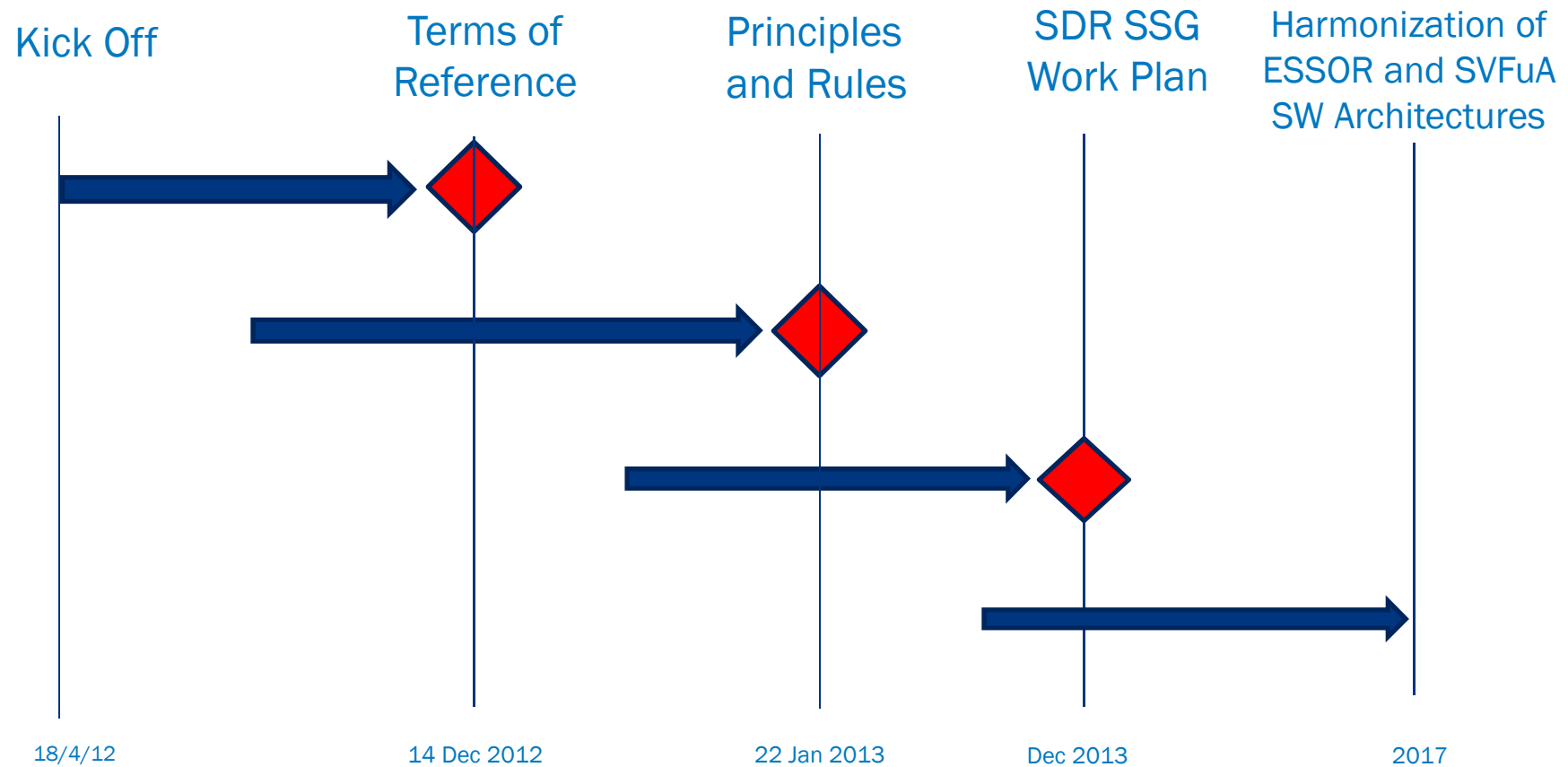
- Representative of EDA involved in EU SDR domain
- Representatives of nations:
 - Finland, France, Italy, Poland, Spain and Sweden involved in ESSOR program;
 - Germany involved in SVFuA program;
- Representatives of OCCAR managing the ESSOR program;
- Representatives of industries involved in above programs.

As **Invited participant** is a representative who can be invited by PM (e.g.: NATO, EC, WINNF, US JTNC), but it is not a member of the group.

SCOPE AND OBJECTIVES

- Identify/define items to standardize;
- Identify/define the global framework of the standardization including interfaces (e.g. NATO, WINNF, US JTNC) and policies;
- Identify/define harmonized Rules and Procedures to achieve the SDR SW Architecture Military Standard taking into account the MODs' requirement to maintain control on the process.
- address any financial resources associated with tasks' accomplishment.

EDA SDR standardization Strategic Guidance WG (Roadmap)



Participants: EDA, ESSOR Nations and Germany (both governments and industries), OCCAR



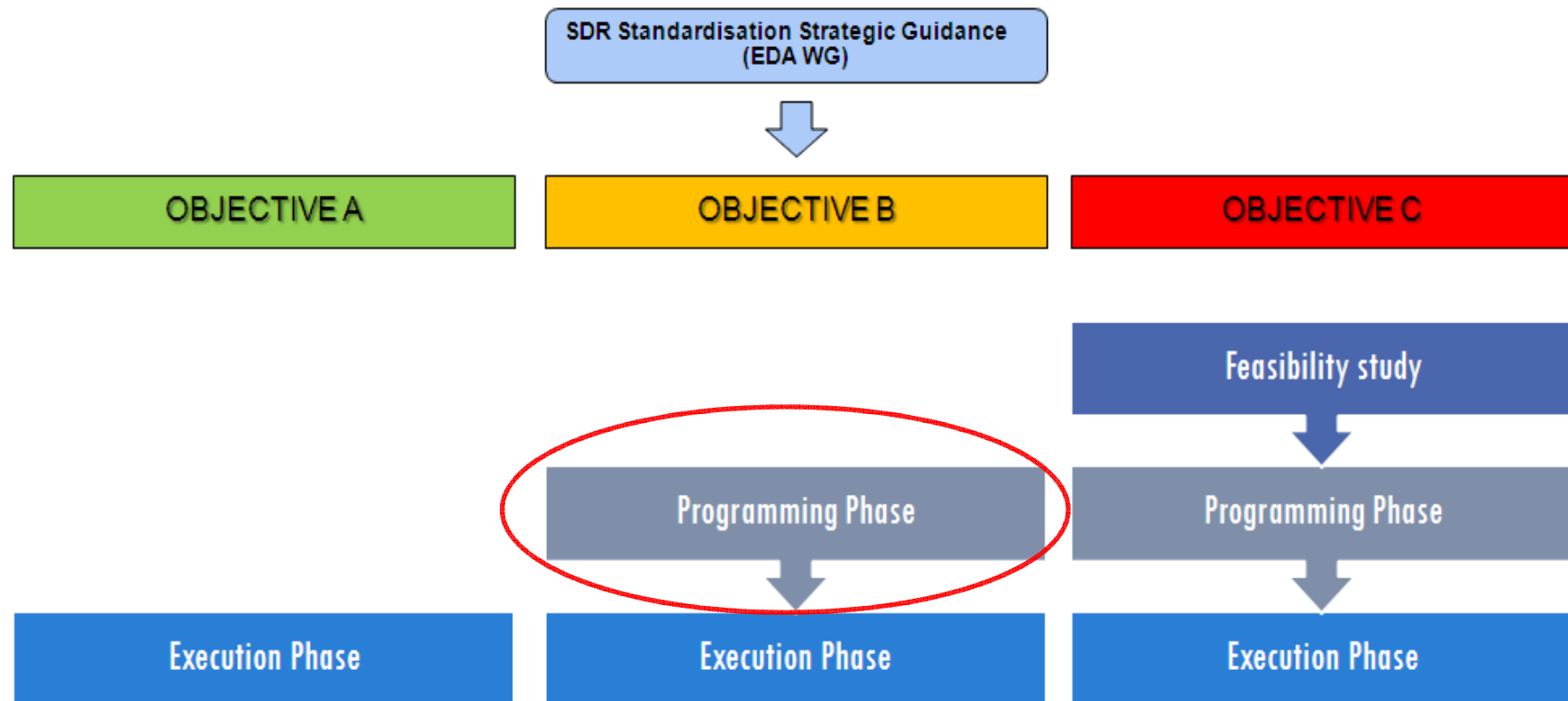
EC Mandate 512 : Objectives and legal context

Objective A, in the area of commercial applications, to enable the deployment and operation of cognitive radio systems (CRSs) including white space devices (WSD) and devices under Licensed Shared Access regime, dependent for their use of radio spectrum on information obtained from geo-location databases (GLDB). This includes the following goals:

Objective B, in the area of civil security and military applications, to ensure the standardisation of suitable SDR architecture(s) (SCA-based for the military domain). The ideal situation would be a single architecture fulfilling the requirements of both domains.

- **Objective C**: to explore potential areas of synergy among commercial, civil security and military applications

SDR SSG WORK REGARDING OF THE MANDATE 512



According to the TORs of the SDR SSG Ad Hoc WG, **the purpose of the work plan** is to describe, as detailed as possible, all activities necessary to achieve a European military SDR standard.

Two kinds of activities are considered in this plan:

- **The technical activities**, aiming at building the common technical specs for the European SDR Architecture, using the ESSOR and the SVFuA SW Architecture as a starting point;
- **The activities related to the custodianship model**, investigating what kind of standardization (eg.civil, military, etc) the different stakeholders want to achieve and its scope (basket #1, basket #2...), and also the most convenient body to conduct it.

Harmonization of the ESSOR and the SVFuA SW architectures

- ❑ The main objectives of the studies are to improve WF Portability from the WF and platform perspective.
- ❑ ESSOR Nations and Germany have already started exchanging some information about their respective architectures;
- ❑ some key elements for an initial collaboration have been identified in the following architecture area of:
 - Core Framework
 - Operating Environment (OE)
 - Radio Devices (RD)
 - Radio Services (RS)
 - Radio Security Services (RSS) ?

Some Conclusions from the Current SSG Work

- ❑ SCA 2,2,2 is a robust standard for Military SDR SW architecture.
- ❑ In addition of the development of specification Transceiver V2 , a standard for harmonising the Timing services APIs could be developed.

EDA Strategic political goal



EDA consider of paramount importance to create a strong and compact **European SDR military dimension.**



Thank you for your attention!