

CD TEXP

Kick-off CD TEXP project



24ABR2016



CINAMIL
MILITARY ACADEMY RESEARCH CENTER

CD TEXP
CONSORTIUM
PRESENTATION

CONSORTIUM

- Consortium
 - GMV (industry perspective)
 - CINAMIL / AM (academic perspective / final user)
- Workgroup
 - José Neves (GMV Director)
 - **João Cintra** (GMV, Project Manager)
 - António Costa (GMV, Quality)
 - **Bruno Tavares** (GMV, Analyst)
 - Ricardo Alves (GMV, Analyst/Developer)

 - **José Borges** (CINAMIL / AM, Expert)
 - José Lourenço Martins (CINAMIL / AM, Expert)

GMV - A GLOBAL TECHNOLOGY GROUP

Multinational
technology
group



Headquarters
in Spain
(Madrid)

Over 1,100
employees



Aeronautics, Space, Defense,
Security, Transportation, Healthcare,
Banking & finances, and ICT
industries.

Private
capital

Subsidiaries in 10 countries



Roots tied
to the
Space
industry



Engineering,
development and
integration of
systems, software,
hardware, specialized
products and
services

Founded in
1984

GMV RELEVANT BACKGROUND



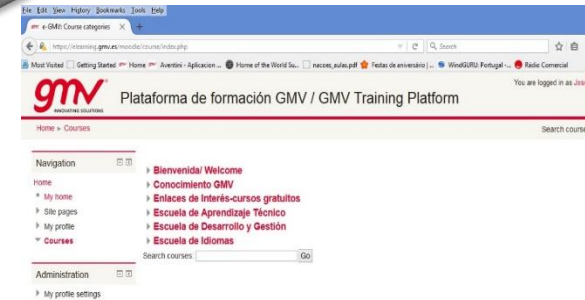
Spanish MoD



Portuguese
Ministry of
External
Affairs



NAV Portugal



MILITARY ACADEMY



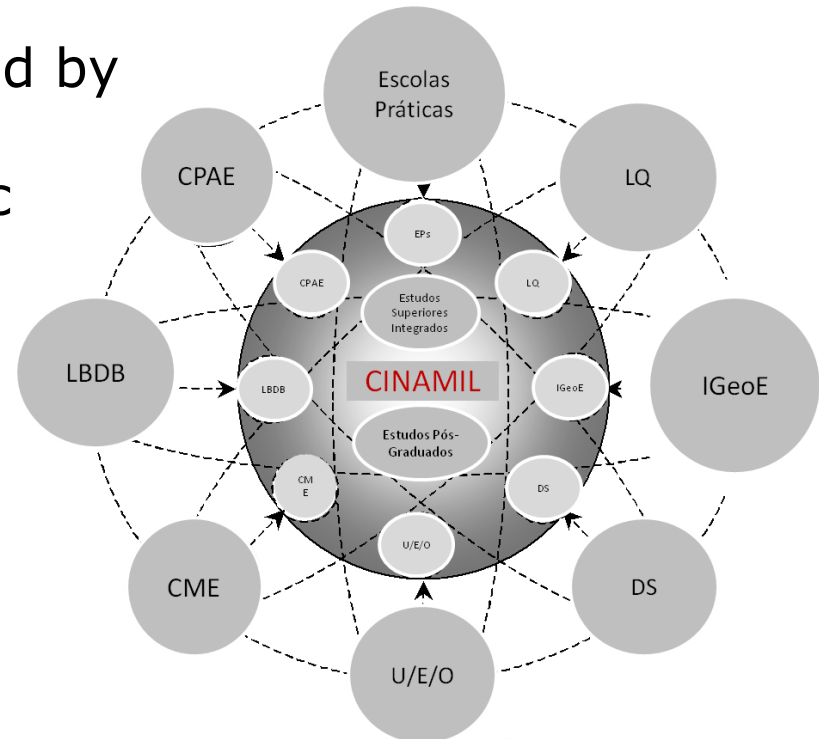
Military Academy (AM) is a Public Military University that has the mission of training officers for the **Portuguese Army** and the **Republican National Guard**.

The core pillars of AM are based on developing technical skills and competences needed to accomplish the mission of both Army and GNR officers, while promoting individual development needed for the exercise of command, leadership and management.

(Ordinance n.º 22/2014, 31st of January)

CINAMIL

- CINAMIL is the Coordinator for Research, Development and Innovation Projects (RD&I) in the Portuguese Army;
- Facilitator of capabilities provided by Army Units, Practical Schools, Laboratories and the Geographic Institute;
- RD&I Interface with Academic and Civil Society Institutions, Organizations and Companies;
- Located in Lisbon, Portugal, at the Military Academy premises.



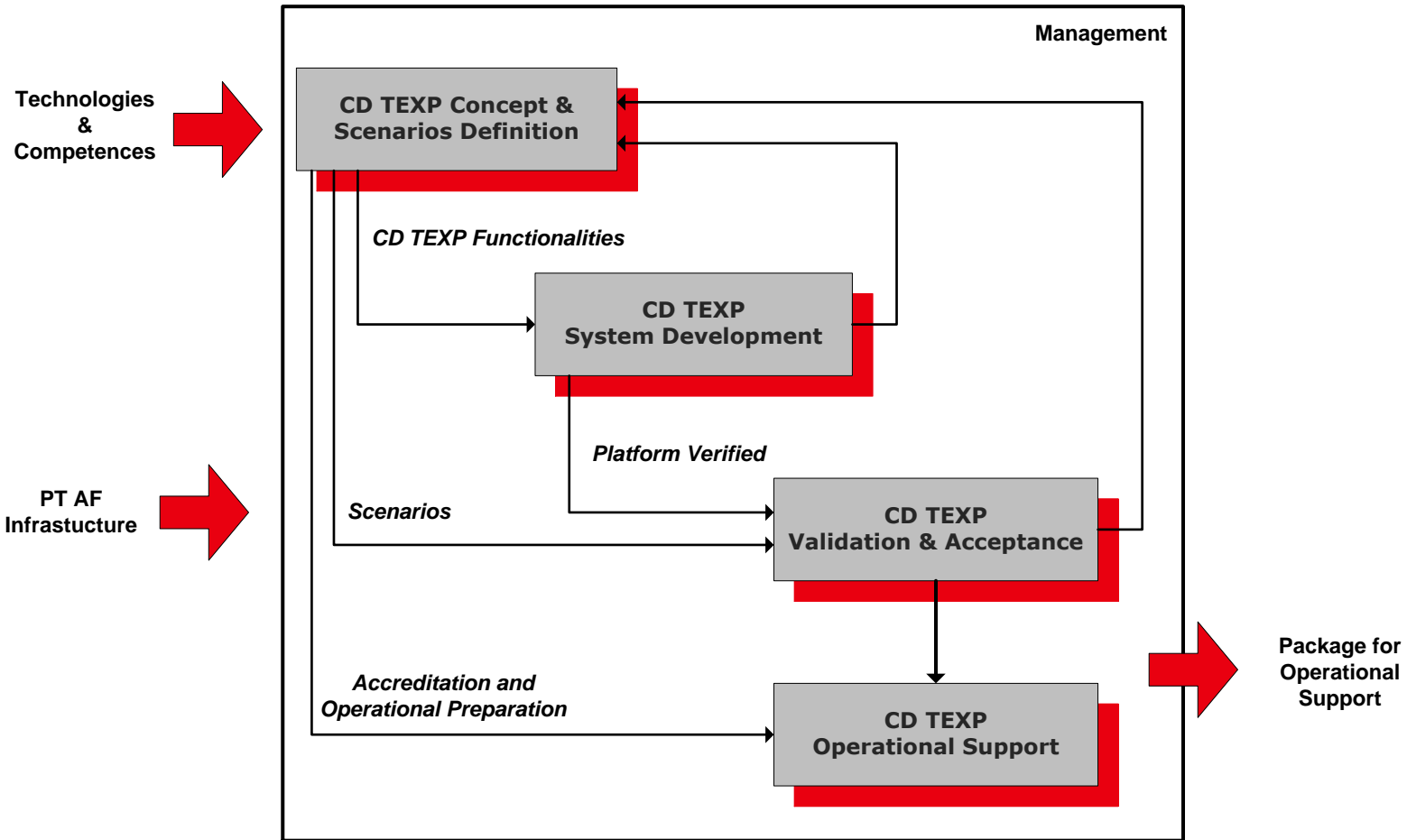
CD TEXT
PROJECT
OBJECTIVES

PROJECT OBJECTIVES

- Creation of an TMS/LMS platform to **enable** the **supporting** and **coordination** of Cyber Defence **Training** and **Exercises** (T/E);
- Different **training paradigms: individual** eLearning; **Group** eLearning/**Virtual Classrooms/Webinars; in place** courses; **blended learning**; different **exercise formats**;
- Build a structure to **deliver contents** related to Cyber Defence (standards: SCORM; AICC; xAPI,; others);
- Development based on **best practices** and **requirements** captured from (Cyber Defence) experts in T/E.

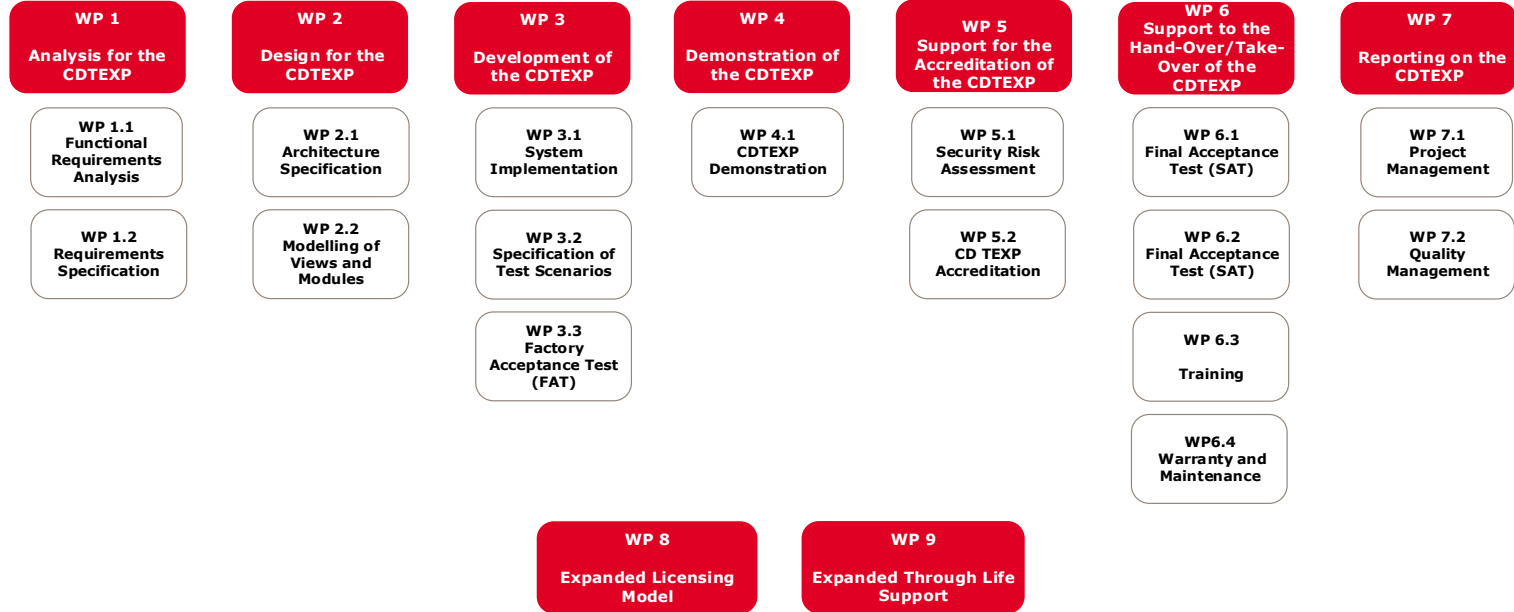
CD TEXT
PROJECT
APPROACH

PROJECT OVERVIEW

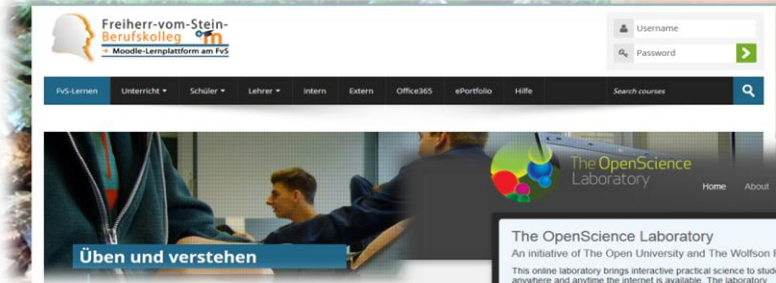
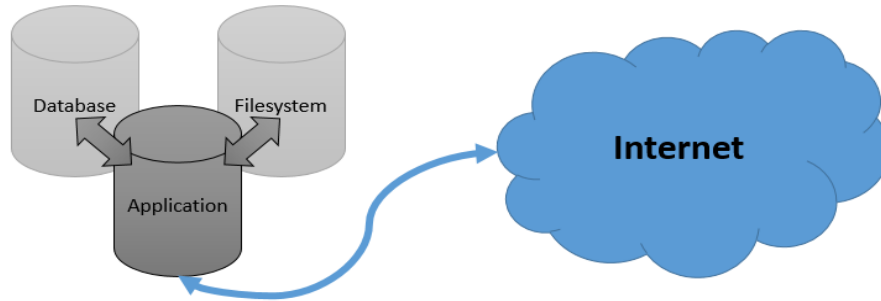


PROJECT OVERVIEW

EDA "CD TEXP" PROJECT " CYBER DEFENCE TRAINING & EXERCISE, COORDINATION AND SUPPORT PLATFORM "

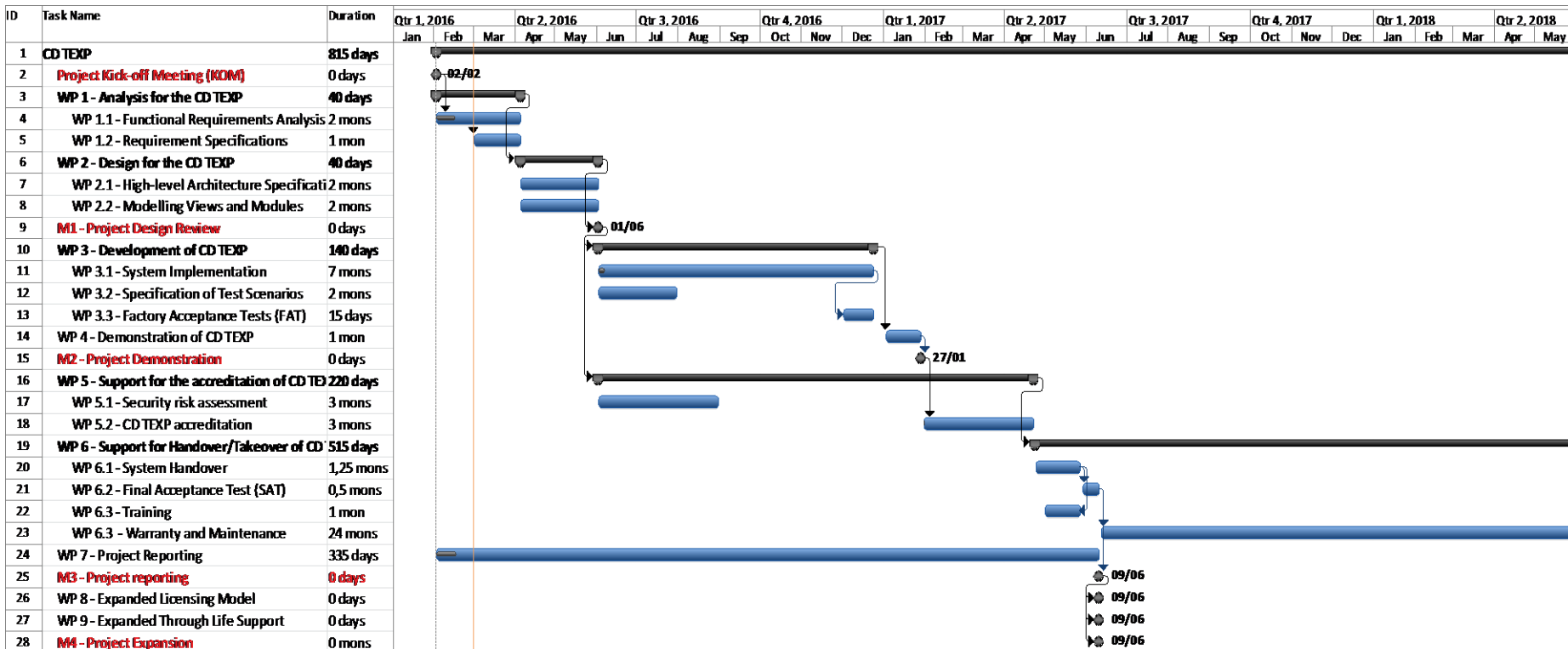


TECHNOLOGY



CD TEXT MANAGEMENT

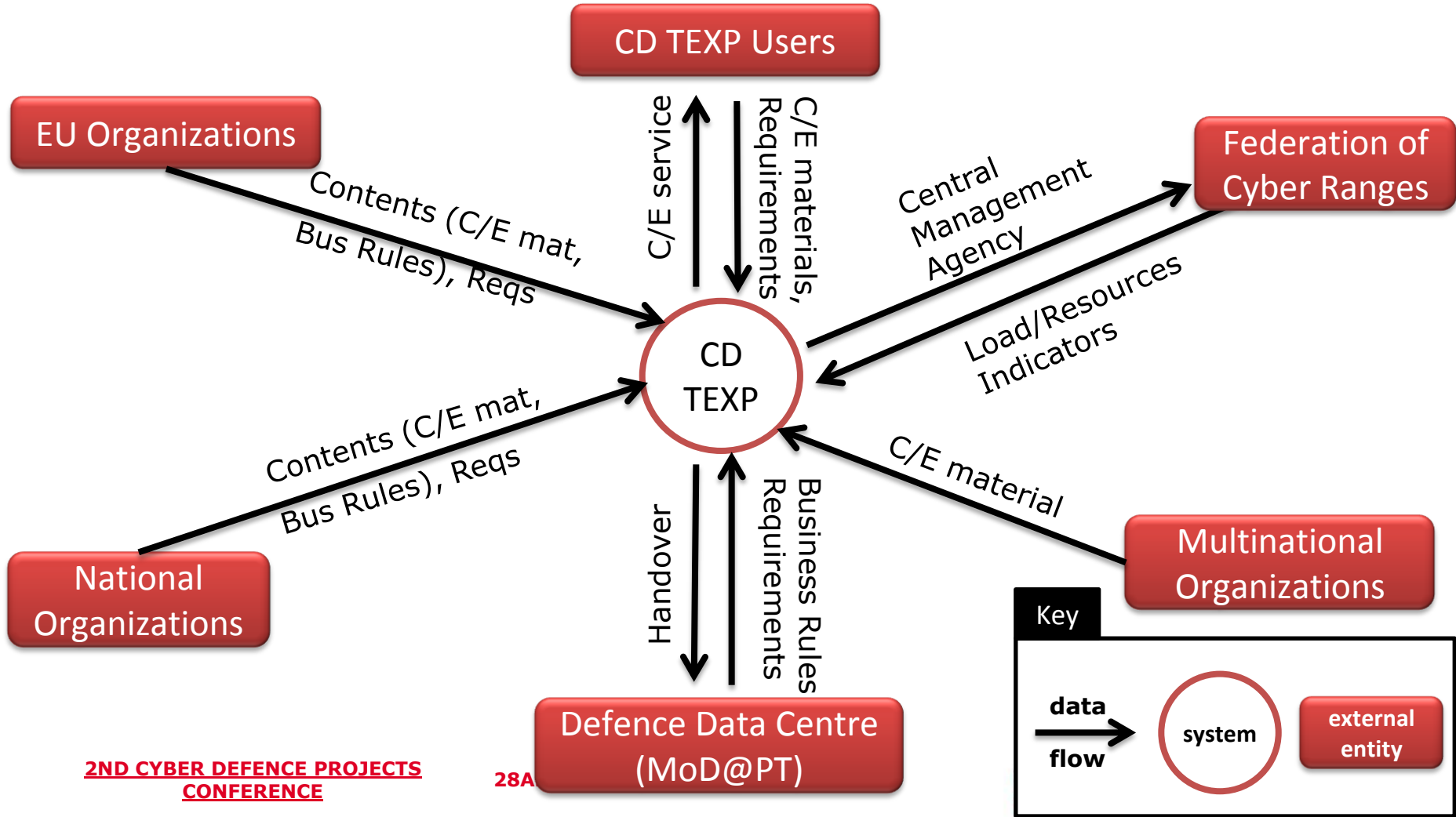
TIMELINE



CD TEXP

**OVERVIEW OF
THE PROJECT
EXECUTION**

PROJECT CONTEXT DIAGRAM



STAKEHOLDER ANALYSIS

Outside the Developing Organization

- EU Organizations
- National Organizations (Military & Civilian)
- Multinational Organizations (Military & Civilian)

Developing Organization

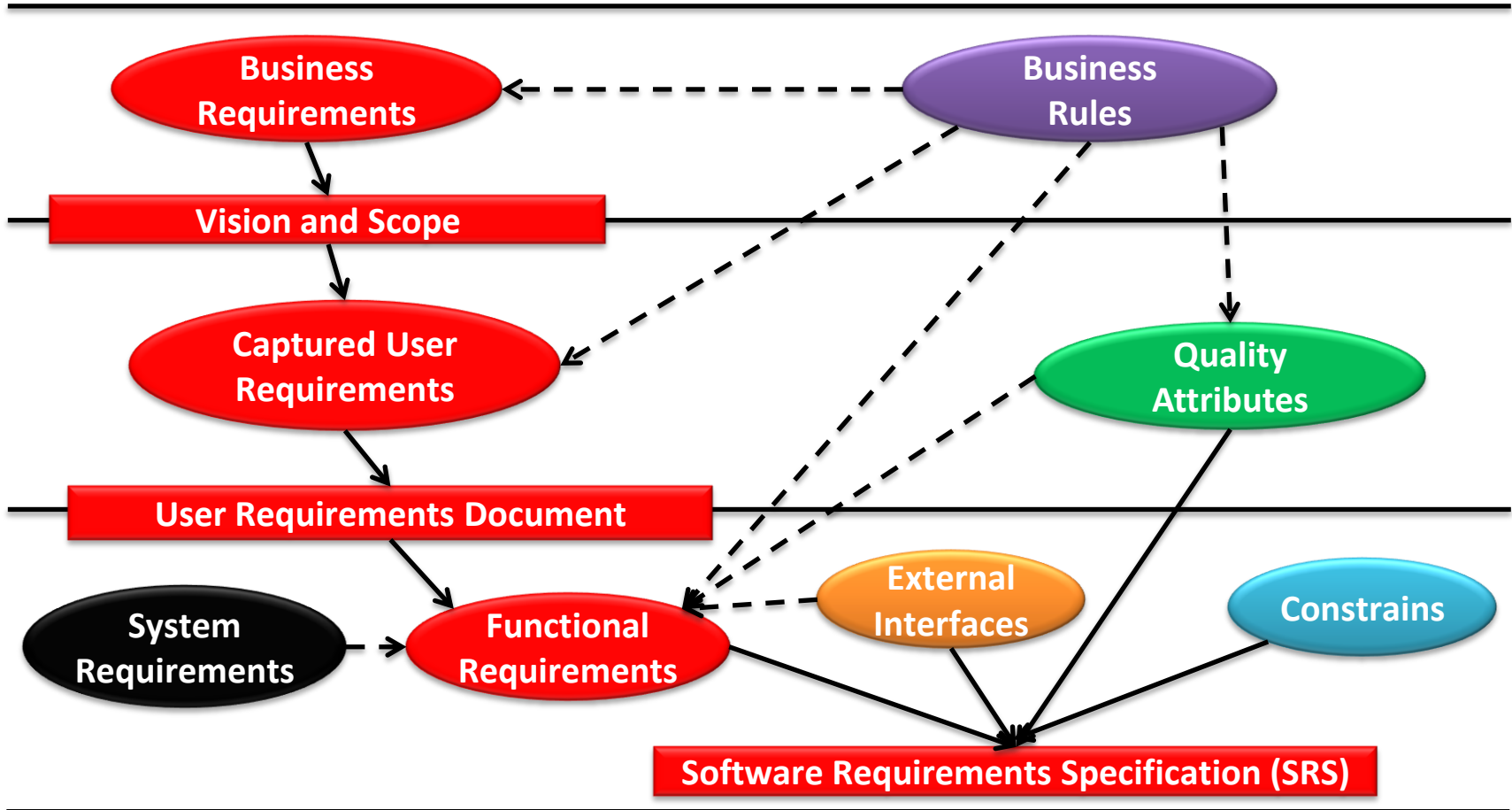
- EDA (Programme Manager Cyber Defence Wolfgang Röhrig)
- National POCs for CD TEXP
- PT AF (MoD Defence Data Centre)

Project Team

- GMV Skysoft
- CINAMIL

SRS CAPTURING PROCESS

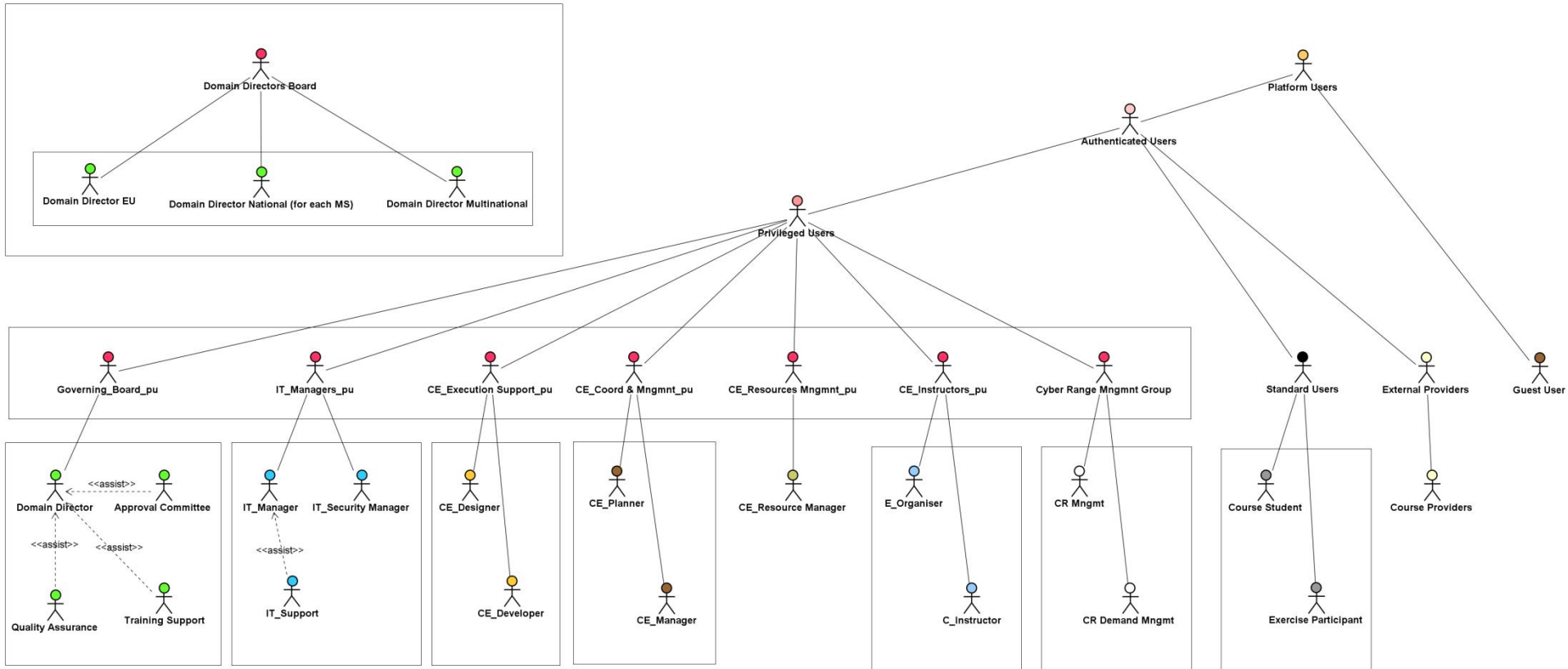
Wieggers et al. (2013)



REQUIREMENTS ELICITATION

- Analysis of tender specification (EN-15.CAT.OP.042);
- Meetings with PT stakeholders
 - MoD Defence Data Center (CDD)
 - PT Universities (Military & Civilian);
 - Industry stakeholders in CD context;
- Workshops at EDA premises
 - 24.02.2016 – 1st workshop with EDA staff & pMS
 - 01.03.2016 – 2nd workshop

CD TEXP USER ANALYSIS



CD TEXP FUNCTIONALITIES

CD TEXP Functionalities

Domains

User Groups

Users Module

Exercises

Training
Courses

System
Access

Configurations

Interoperability

Standards

Main
Documents

Design

Authorization

Development

Publishing

Management

Support

Competencies
and Skills

Workflows

CD TEXP SERVICES

CD TEXP Services

Help Functions

Search
Functions

Common
Glossary

Information
Agregation

Public
Information

Wiki

External Links

Survey

Calendar

Video
Conference

Audio
Conference

Internal Mail

Foruns

Chat

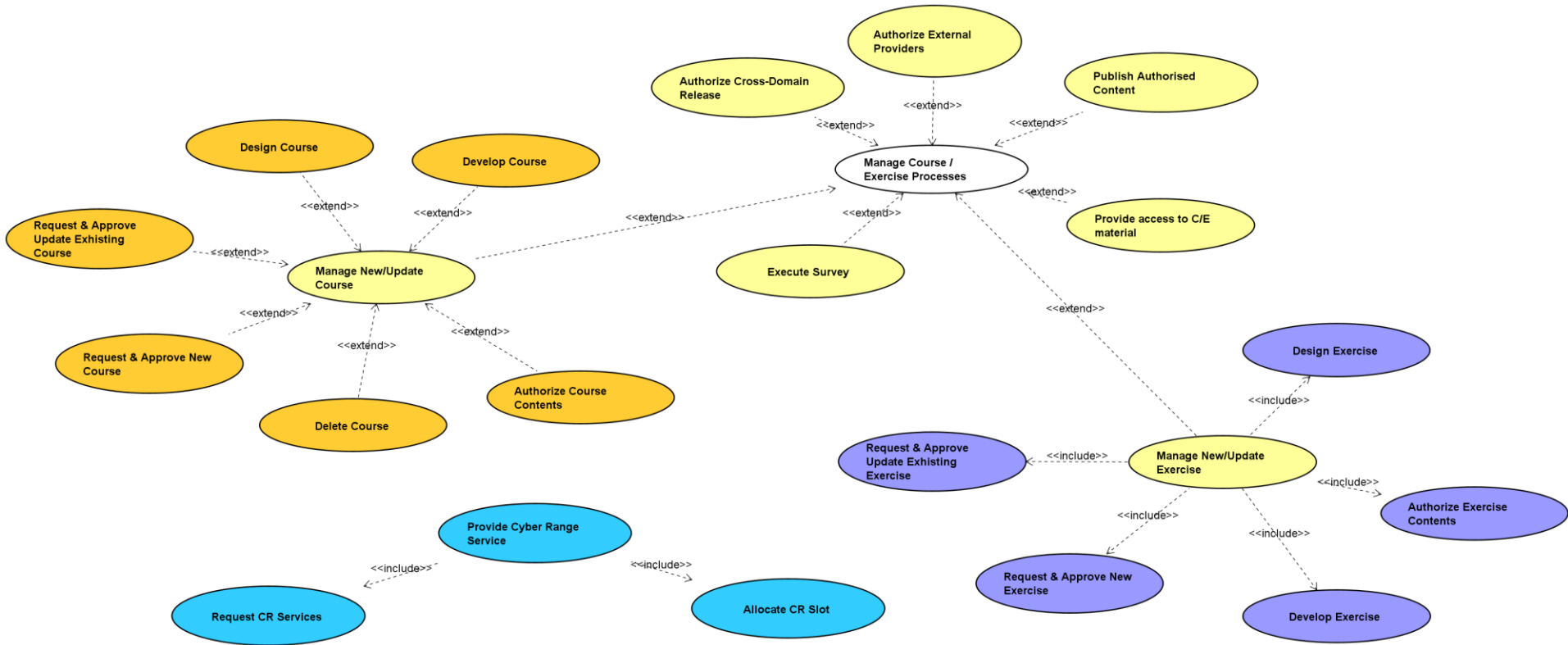
RSS Feeds

Virtual
Classroom

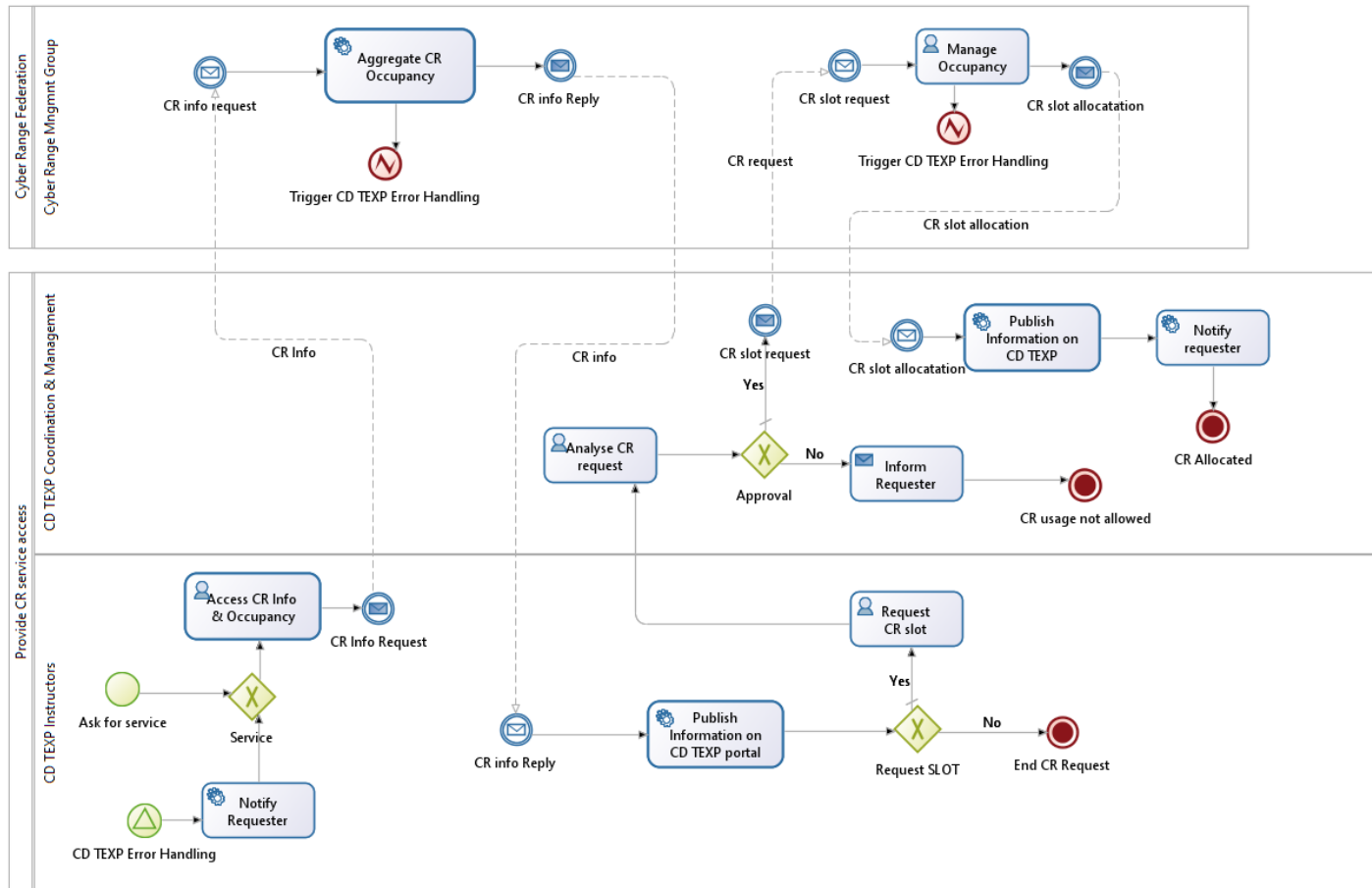
White
Boarding

Lesson
Learned

CD TEXP USE CASES (EXAMPLE)



CD TEXT WORKFLOWS (EXAMPLE)



INPUTS

- Stakeholder's requirements
- Cooperation with the Cyber Ranges working group
- DePoCyTe EDA

<http://www.academiamilitar.pt/>

www.gmv.com

THANK YOU



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