EUROPEAN DEFENCE AGENCY

OCEAN2020 PROJECT

Project Overview

OCEAN2020

This project has received funding from the European Union's Preparatory Action on Defence Research under grant agreement No 801697

OCEAN2020 Project Objectives

- **Operational objectives**
  - Significant improvement to maritime Situation Awareness
  - Extended ISTAR performance by use of UXS and integration into CMS
  - EU-NATO interoperability by the use of open architecture and standards

- **Technical objectives**
  - High integration among EU countries and heterogeneous systems, demonstrated in full scale-demo
    - ***Mediterranean Sea demonstration in 2019, Baltic Sea demonstration in 2020***
  - Integration of EU/NATO/civil framework data
  - Increased autonomy for UXS and swarm operations
  - Application of advanced data and information fusion techniques for shorter decision time
  - Development of EU C4ISR open architecture
  - Identification of open and industry endorsed standards

- **Impact-making objectives**
  - Diverse EU wide consortium to demonstrate large military R&T effort
  - Improve market position of European defence industry in UXS
  - Involve End-User in design choices

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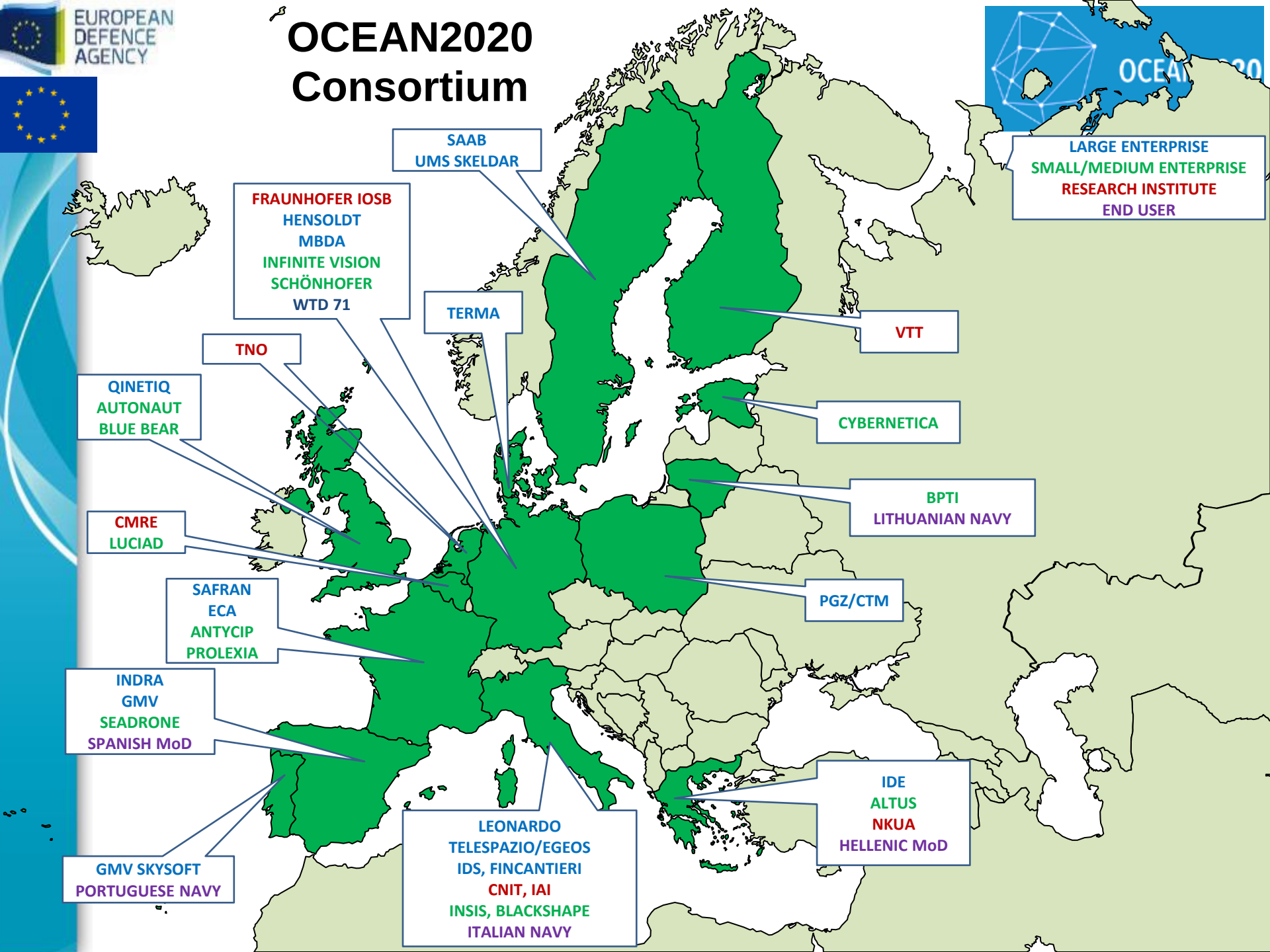
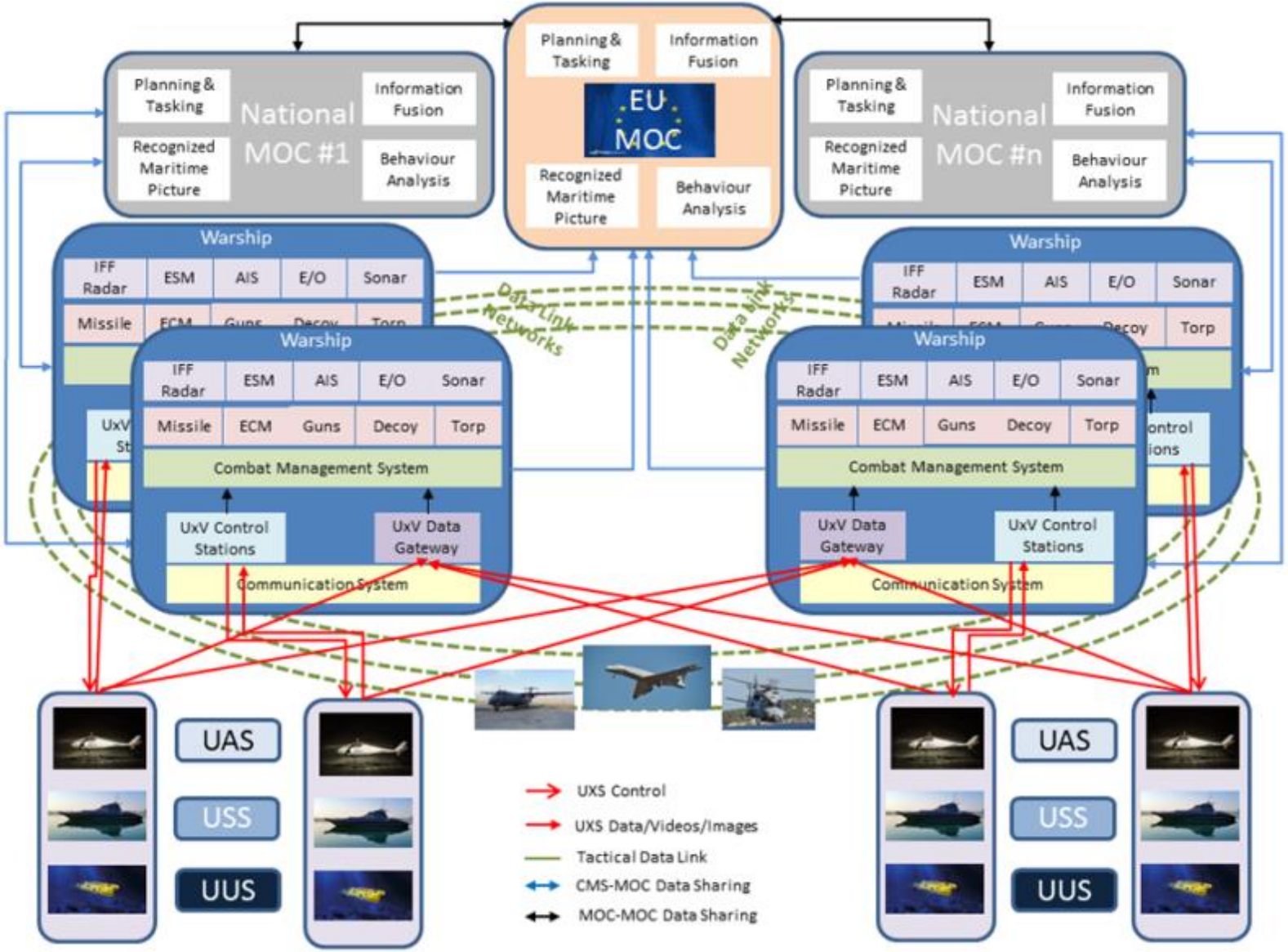
OCEAN2020 Consortium



OCEAN2020 System Reference Architecture



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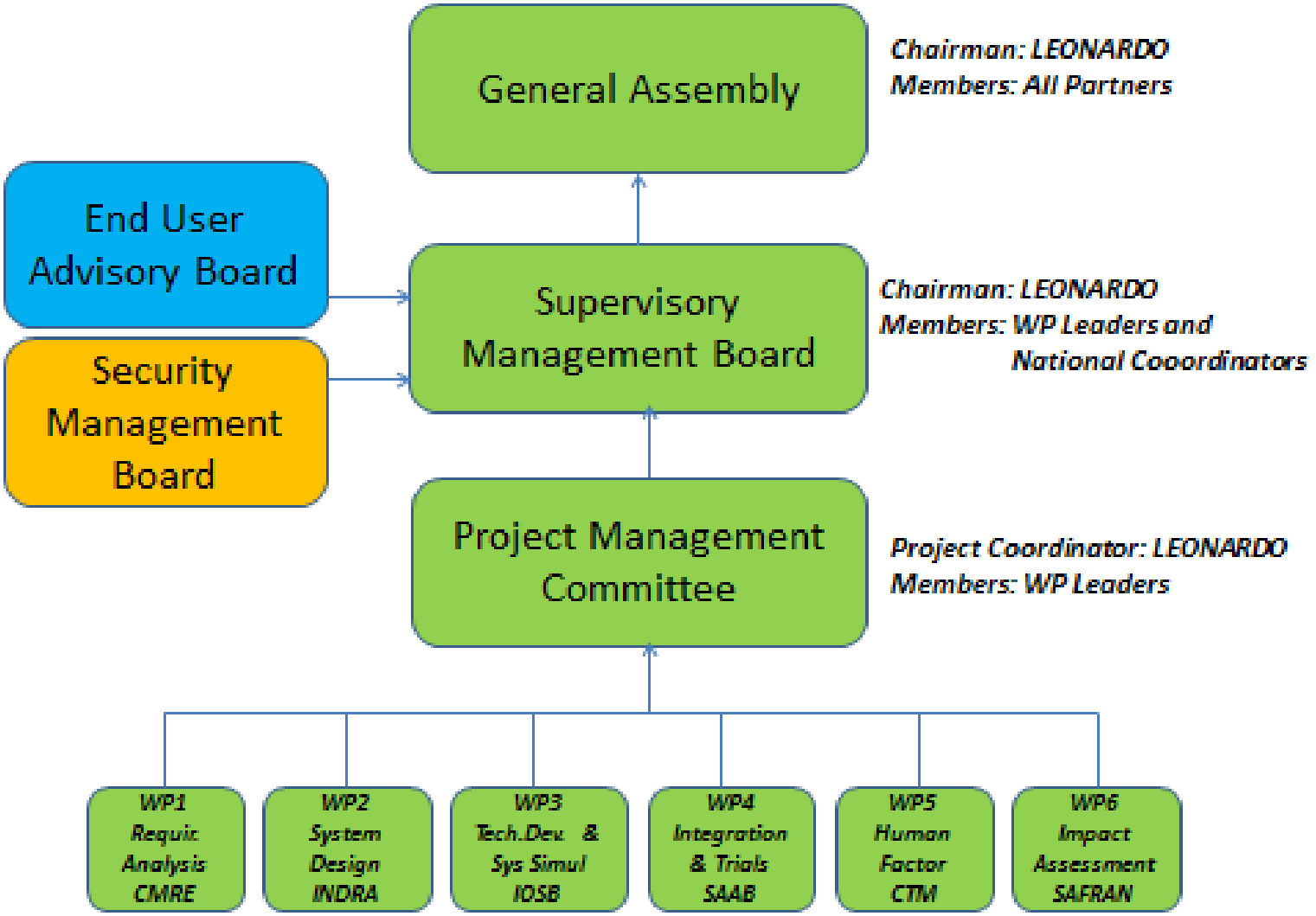
OCEAN2020 Unmanned Systems

OCEAN2020

Project Impact

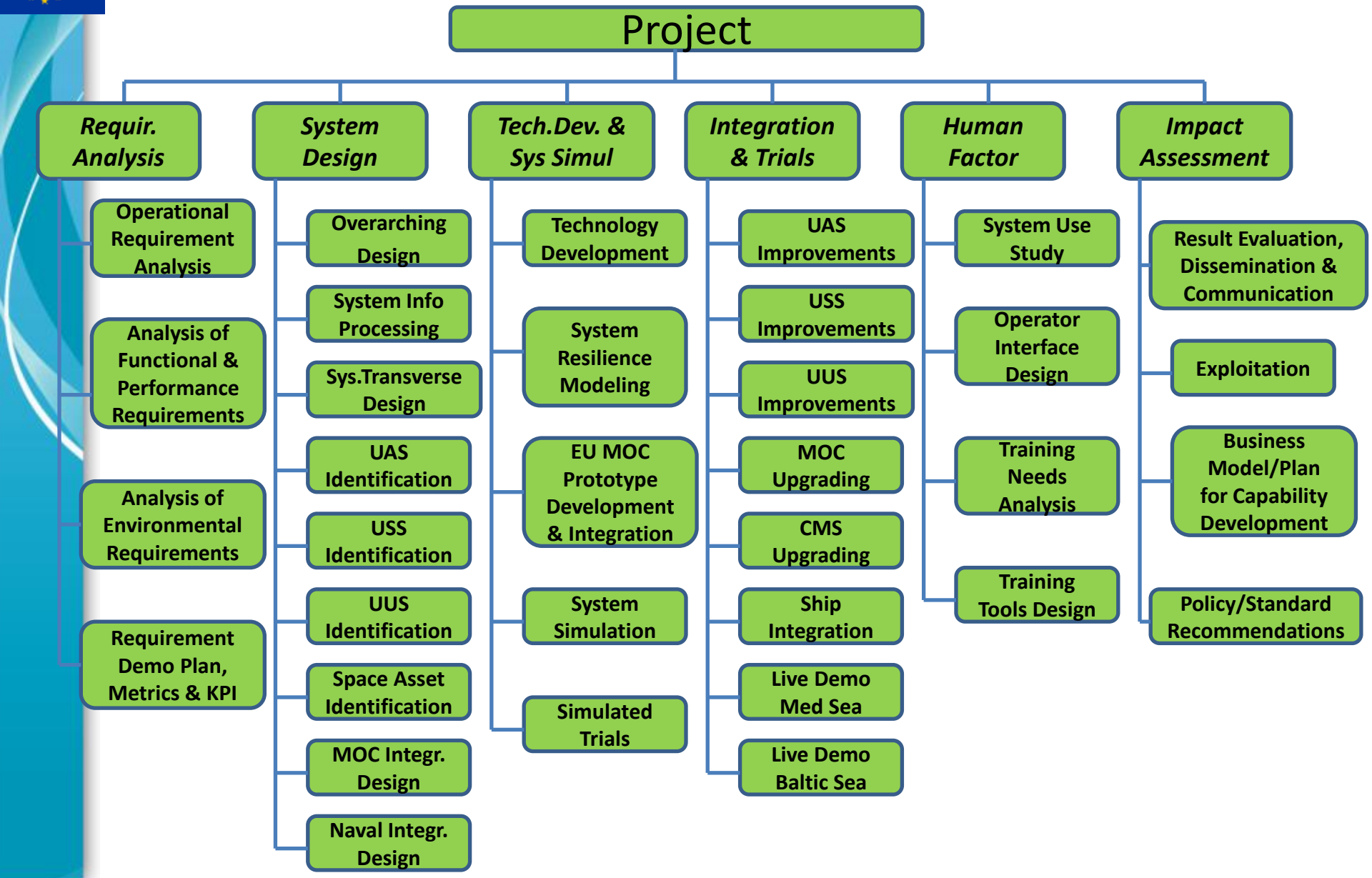
- Potential of EU-funded research for defence applications
  - Convincing demonstration of the potential of EU-funded research for defence applications
- Unmanned systems industry for European defence
  - Development of the European industrial capability in the market segment of unmanned systems for defence capabilities
- Military structures evolution resulting from the use of unmanned assets
  - Informing the shape of future military structures in view of the use of advanced unmanned systems
  - Improved efficiency and cost-effectiveness
- Demonstration of enhanced operational capabilities through the use of unmanned assets
  - Substantial gain towards autonomous and safe operation from Navy ships of UxS providing suitable payload, range, endurance and handling
  - Enhancement of maritime situational awareness and command and control capabilities
  - Reliable operation in complex and severe maritime environment
  - Improved interoperability between manned and unmanned systems, with naval platforms and mission systems, and with multilateral EU defence systems

Project Governance

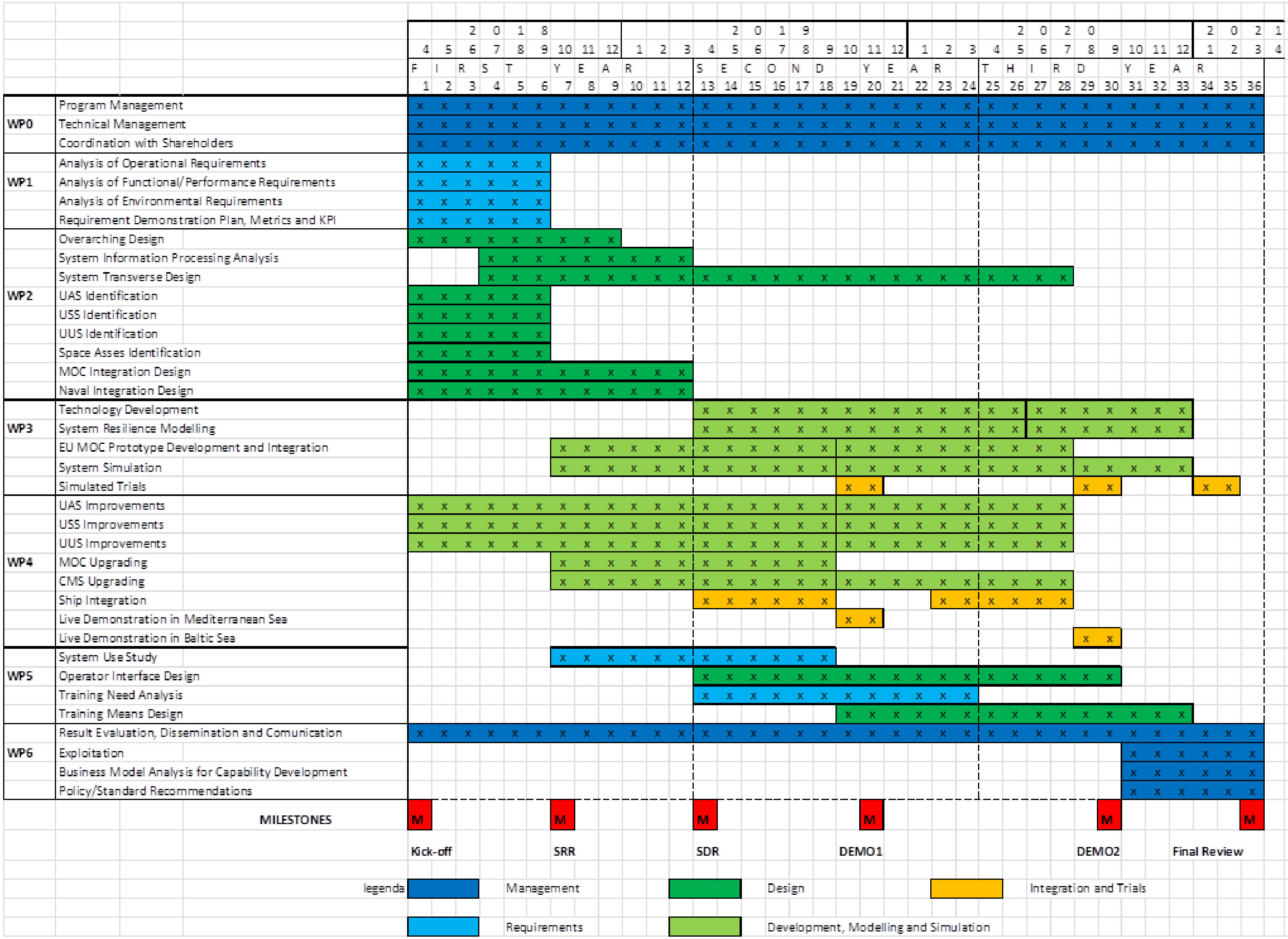


Work Breakdown Structure

(up to level 2)



Gantt Diagram



END OF PRESENTATION

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