



A holistic  
passenger  
ship  
evacuation  
and rescue  
ecosystem

# PALAEMON Review

## 23<sup>rd</sup> March 2023

General presentation

2nd review - Months 18 to 44



# Agenda

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09h30- 10 00: General overview of the project - Objectives and system presentation (Coordinator)

10h00 - 10h15: WP3 (JU)

10h15 - 10h30: WP4 (ASTANDER)

10h30 - 10h45: WP5 (ADVANTICS)

10h45 - 11h00: WP6 (KT)

11h00 - 11h15: WP7 (ATOS)

11h15 - 11h30: Small ,coffee Break

11h30 - 11h45: WP8 (UAegean)

11h45 - 12h15: PALAEMON movies and end-users feedback

12h15 - 12h30: Speech of the Lord Mayor of Piraios - the municipality has been closely associated to the project

12h30 - 12h45: WP9 (EFB)

12h45 - 13h00: WP1, Project management, costs (ADS)

13h00 - 13h15: EC deliberation

13h15 - 13h30: EC feedback and conclusion

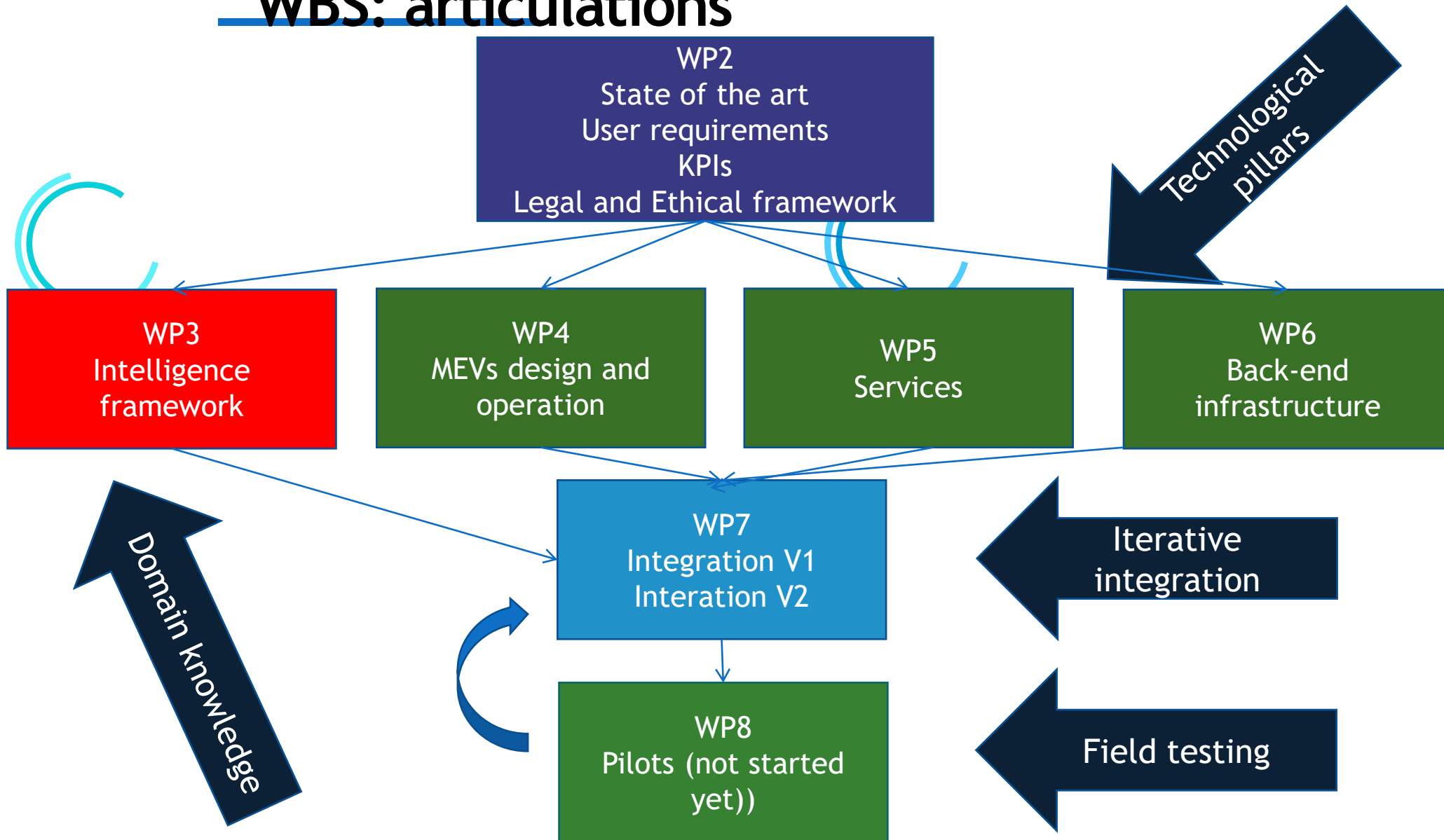
Due to limited activity in the second period, WP2 is not included in the presentation.



# Consortium

- 1 Airbus Defence and Space
- 2 Atos Spain S.A.
- 3 KONNEKTABLE Technologies Ltd
- 4 ENGITEC Systems International
- 5 IoT applications and ML Development (ITML)
- 6 Johanniter Österreich Ausbildung und Forschung gemeinnützige GmbH
- 7 National Technical University of Athens- School of Naval Architecture and Marine Engineering
- 8 Advantic Sistemas y Servicios S.L.
- 9 SIMAVI Romanian SA
- 10 DSB Deutsche Schlauchboot GmbH
- 12 Jade University of Applied Sciences
- 13 Ericsson Hellas S.A
- 14 Romanian Naval Authority
- 15 Danaos Shipping Company Limited
- 16 Engineers for Business
- 17 Astilleros de Santander SAU
- 18 DNV GL HELLAS SA
- 19 ADMES - Advanced Mechanical Services
- 20 Thales Italia SpA
- 21 University of Alcala
- 22 University of the Aegean
- 23 WISER S.r.l.
- 24 Anonymos Naftiliaki Etaireia Kritis
- 25 Oesterreichischer Lloyd Seereederei (Cyprus) Ltd.

## WBS: articulations





# Project Objectives (1)



**Objective 1:** To develop a Mass Evacuation Vessel (MEV) which will be a) designed for existing and new ship buildings and b) for future ship designs, where the MEV will be a part of the superstructure and can be detached, in case of an accident or incident (first prototype at M24)

80%

**Objective 2:** To provide a smart digital on-board ecosystem by combining sophisticated ICT toolkits.

100%

**Objective 3:** Passenger-centric behavioural assessment.

100%

**Objective 4:** DSS for optimising operational capacity and planning, featuring automatic rapid reconfiguration of inspection and evacuation processes.

100%

**Objective 5:** Tailored Evacuation Services.

100%

**Objective 6:** To enable safe orientation in heterogeneous ship decks based on advanced AR technologies, indoor position technologies and hardware accelerated visual sensors.

80%

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**Objective 7:** To implement mechanisms for automated mustering evacuation operation planning and task scheduling.

100%

**Objective 8:** PALAEMON Evacuation System Simulator (PESS).

100%

**Objective 9:** PALAEMON Operational Centre & Academy.

100%

**Objective 10:** Continuous validation and Proof of concept demonstrations.

100%

**Objective 11:** PALAEMON system commercialisation and exploitation.

90%



Normal  
situation

Alarms, alerts  
and stability  
toolkit



Evacuation

End-to-end  
evacuation  
management

MEV

MEVI and MEV  
II



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## Technological blocks:

- End-to-end communications (based on 5G local network: tested and validated by the end-users in Perama demo (January 23)
- Integrated safety system (ICT): tested and validated by the end-users in Perama demo (January 23)
- Additional applications: tested in factory
- VDES: Tested in Florence in realistic conditions (factory) (October 22)
- PALAEMON academy and MEV digital twins: Tested in Vienna (November 22)
- MEV1: private tests in Astander premises.

## Synergies & exploitation

- Essential synergy with ISOLA project (ship security - Secure societies)
- Very good feed-backs from end-users for the integrated safety system



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# Thank you

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