

PROJECT

PALAEMON

PALAEMON - A holistic passenger ship evacuation and rescue ecosystem

Funding: European (Horizon 2020)

Duration: Jun 2019 - May 2022

Status: Ongoing

Total project cost: €8,943,776

EU contribution: €8,943,775



[CORDIS RCN : 223190](#)

Objectives:

PALAEMON proposes the development and evaluation of a sophisticated mass centralised evacuation system, based on a radical re-thinking of Mass Evacuation Vessels (MEVs) combined with an intelligent ecosystem of critical components providing real-time access to and representation of data to establish appropriate evacuation strategies for optimizing the operational planning of the evacuation process on damaged or flooded vessels.

The intelligent ecosystem of PALAEMON incorporates innovative technologies for sensing, people monitoring and counting and localisation services as well as real-time data during accident time. These will be integrated into an independent, smart situation-awareness and guidance system for sustaining an active evacuation route for large crowds, making emergency response in EU passenger ships more efficient. Continuous monitoring and permanent control will enhance the capacity to detect, prevent and mitigate any issue and potential harm arising from physical and/or man-made accidents and disasters. The proposed ecosystem will include the new IMO standard for data exchange-VDES.

Since maritime disasters in recent years are a stark reminder of the imperative need for timely and effective evacuation of large passenger ships during emergency the aim of this project is to maximize the effectiveness of passenger evacuation, during an emergency and/or a serious incident, from large Cruise and RoPax ships by combining the expertise of stakeholders from the field of cruise ship manufacturing, large cruise ship operators, classification societies, sensor and technology organizations, with a multidisciplinary group of innovators (incl. innovative start-ups, consolidated SMEs in the smart ICT domain, experts in the ship evacuation domain from research institutes, international networks in maritime and key industry drivers.

MEVs prototypes will be validated in controlled environment and the smart evacuation ecosystem will be demonstrated in two use cases.

Parent Programmes:

[H2020-EU.3.4. - Horizon 2020: Smart, Green and Integrated Transport](#)

Institute type: Public institution

Institute name: European Commission

Funding type: Public (EU)

Other programmes: MG-2-2-2018 Marine Accident Response

Lead Organisation:

Airbus Defence And Space Sas

Address:

31 RUE DES COSMONAUTES ZI DU PALAYS
31402 TOULOUSE CEDEX
France

Organisation Website:

<http://www.airbusdefenceandspace.com>

EU Contribution: €652,000

Partner Organisations:**Jade Hochschule Wilhelmshaven/oldenburg/elsfleth****Address:**

FRIEDRICH PAFFRATH STRASSE 101
26389 WILHELMSHAVEN
Germany

Organisation Website:

<http://www.jade-hs.de>

EU Contribution: €401,150

Dnv GI Hellas Sa**Address:**

5 AITOLIKOU STREET
18545 PIRAEUS
Greece

EU Contribution: €411,750

Oesterreichischer Lloyd Seereederei (Cyprus) Ltd**Address:**

67 FRANKLIN ROOSEVELT AVE / 3RD FLR
3011 Limassol
Cyprus

EU Contribution: €250,000

Astilleros De Santander Sa**Address:**

CALLE FERNANDEZ HONTORIA 24
39610 ASTILLERO (CANTABRIA)
Spain

Organisation Website:

<http://www.astander.es>

EU Contribution: €413,334

Ericsson Hellas Sa Tilepikoinoniakoy Ilinox**Address:**

40 2 KM ATTIKI ODOS 2
19002 PAIANIA
Greece

EU Contribution: €318,750

National Technical University Of Athens**Address:**

Heroon Polytechniou 9 (polytechnic campus)
15780 ZOGRAFOS

Greece

Organisation Website:

<http://www.martrans.org>

EU Contribution: €434,000

Advantic Sistemas Y Servicios SI

Address:

C ZURBANO 83 ESCALERA IZQUIERDA 3A
28003 MADRID
Spain

Organisation Website:

<http://www.advanticsys.com>

EU Contribution: €362,500

Thales Italia Spa

Address:

VIA PROVINCIALE LUCCHESI 33
50019 SESTO FIORENTINO
Italy

Organisation Website:

<http://www.thalesgroup.com>

EU Contribution: €403,750

Danaos Shipping Company Limited

Address:

Christaki Kompou 3
3300 Limassol
Cyprus

EU Contribution: €455,000

Johanniter Osterreich Ausbildung Und Forschung Gemeinnutzige Gmbh

Address:

IGNAZ KOCK STRASSE 22
1210 WIEN
Austria

EU Contribution: €439,500

Atos Spain Sa

Address:

CALLE DE ALBARRACIN 25
28037 MADRID
Spain

Organisation Website:

<http://www.atos.net>

EU Contribution: €505,375

Wiser Srl

Address:

VIA FIUME 23
57123 LIVORNO
Italy

EU Contribution: €150,000

Siveco Romania SA**Address:**

Victoria Business Park, Corp C4,
Șoseaua București-Ploiești 73-81
013685 București
Romania

Organisation Website:

<http://www.siveco.ro>

EU Contribution: €432,500

Universidad De Alcala**Address:**

PLAZA DE SAN DIEGO
28801 ALCALA DE HENARES/MADRID
Spain

Organisation Website:

<http://www.uah.es>

EU Contribution: €152,500

Engitec Systems International Limited**Address:**

143 SPYROU KYPRIANOU AVENUE CHRYSANTHOU BUSINESS C
3083 LIMASSOL
Cyprus

EU Contribution: €501,000

Admes Monoprosopi Idiotiki Kefelaiouchiki Etaireia**Address:**

CHRISOPIGIS 34
73200 SOYDA
Greece

EU Contribution: €251,791

Engineers For Business Ipiresies Technologias Kai Michanikis Anonimi Etaireia**Address:**

DOIRANIS 17
546 39 THESSALONIKI
Greece

EU Contribution: €358,125

Internet Of Things Applications Andmulti Layer Development Ltd**Address:**

AGIAS FILAKSEOS 64 KTIRIO ARISTODEMOU 30S OROFOS DIAMERISM

3025 LEMESSOS
Cyprus

EU Contribution: €276,875

Dsb Deutsche Schlauchboot Gmbh

Address:

ANGERWEG 5
37632 ESCHERSHAUSEN
Germany

EU Contribution: €480,000

Autoritatea Navala Romana

Address:

STR CONSTANTA PORT NR 1
900900 CONSTANTA
Romania

EU Contribution: €188,750

Panepistimio Aigaiou

Address:

University Hill
81 100 Mytilene
Greece

Organisation Website:

<http://www.aegean.gr>

EU Contribution: €300,625

Anonimi Naftiliaki Eteria Kritis (Anek) S.a.

Address:

LEOFOROS KARAMANLI
73100 CHANIA
Greece

Organisation Website:

<http://www.anek.gr>

EU Contribution: €304,500

Konnekt Able Technologies Limited

Address:

FDW HOUSE BLACKTHORN BUSINESS PARK COES ROAD
R32
DUNDALK CO LOUTH
Ireland

Organisation Website:

<http://www.konnekt-able.com>

EU Contribution: €500,000

Technologies:

Safety systems
Evacuation model validation data-sets

STRIA Roadmaps: Cooperative, connected and automated transport
Water transport (sea &
Transport mode: inland)
Transport sectors: Passenger transport, Freight transport
Transport policies: Safety/Security
Geo-spatial type: Other