An innovative people localisation system for safe evacuation of large passenger ships

Fact Sheet

Project Information

<table>
<thead>
<tr>
<th>LYNCEUS2MARKET</th>
<th>Funded under</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SOCIETAL CHALLENGES - Smart, Green And Integrated Transport</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DOI</th>
<th>EU contribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.3030/636286</td>
<td>€ 7 260 975</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Closed project</th>
<th>Coordinated by</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>RTD TALOS LIMITED</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Start date</th>
<th>End date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 June 2015</td>
<td>30 November 2018</td>
</tr>
</tbody>
</table>

This project is featured in...

RESEARCH*EU MAGAZINE
Vast, complicated, (dis)orderly? Unlocking the secrets of the cosmos

NO. 85, AUGUST 2019 / SEPTEMBER 2019
Objective

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 Lynceus2Market project addresses this challenge through delivering a revolutionary operational system for safe evacuation based on innovative people localisation technologies.

The system consists of: 1) Localisable life jackets that can provide passenger location in real-time during emergency 2) Smart smoke detectors that also act as base stations of an on-board localisation system 3) Innovative localisable bracelets able to send activity data to the emergency management team 4) Low cost fire and flooding escalation monitoring sensor notes 5) novel mustering handheld devices for automatic identification and counting of passengers during evacuation 6) Smart localisable cabin key cards 7) Intelligent decision support software able to fuse all localisation, activity and disaster escalation data to provide an integrated real-time visualisation, passenger counting and evacuation decision support 8) Innovative shore or ship-launched Unmanned Aerial Vehicle for localising people in the sea in short time and assisting search and rescue operations when accident occurs in extreme weather, during the night or in a remote location 9) Low-cost rescue-boat mounted radars for people localisation in the vicinity of the boat.

The proposed project is based on the promising results developed in the FP7 LYNCEUS project where the innovative technologies were tested in lab and in small scale pilots. Lynceus2Market brings together European global players in the field, such as cruise ship owners, operators, ship builders, maritime equipment manufacturers, a classification society, industry associations and important technology organisations with the aim to implement the first market replication of these technologies and products. The Lynceus2Market will create significant impact by saving passenger lives during maritime accidents.

Fields of science

social sciences › media and communications › graphic design
electrical engineering, electronic engineering, information engineering ›
electronic engineering › control systems
electrical engineering, electronic engineering, information engineering ›
sensors › smart sensors
electrical engineering, electronic engineering, information engineering ›
telecommunications › radio technology › radar
electrical engineering, information engineering ›
robotics › autonomous robots › drones

Programme(s)
H2020-EU.3.4. - SOCIETAL CHALLENGES - Smart, Green And Integrated Transport

Topic(s)

MG-4.2-2014 - Safer and more efficient waterborne operations through new technologies and smarter traffic management

Call for proposal

H2020-MG-2014-2015

See other projects for this call

Sub call

H2020-MG-2014_TwoStages

Funding Scheme

IA - Innovation action

Coordinator

RTD TALOS LIMITED
Net EU contribution
€ 194 250,00

Address
Diogenous 1 Block A Egomi
2404 Lefkosia
Cyprus

Region
Κύπρος

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links
Contact the organisation
Website
Participants (15)

LLOYD’S REGISTER EMEA IPS

United Kingdom

Net EU contribution
€ 274 575,00

Address
Fenchurch Street 71
EC3M 4BS London

Region
London > Inner London — West > Camden and City of London

Activity type
Other

Links
Contact the organisation
Website
Participation in EU R&I programmes
H2020 collaboration network

Non-EU contribution
€ 117 675,00

RCL CRUISES LTD

United Kingdom

Net EU contribution
€ 566 125,00

Address
3 Th Heights Brooklands Weybridge
KT13 0NY Surrey

Region
South East (England) > Surrey, East and West Sussex > West Surrey
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Non-EU contribution

€ 242 625,00

AUTRONICA FIRE AND SECURITY AS

Norway

Net EU contribution

€ 1 075 375,00

Address

Haakon Vii S Gate 4
7041 Trondheim

Region

Norge > Trøndelag > Trøndelag

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Non-EU contribution

€ 460 875,00

CELESTYAL SHIP MANAGEMENT LIMITED

Cyprus

Net EU contribution

€ 490 875,00

Address

Lemesou 11
2112 Lefkosia
SIGNALGENERIX LIMITED

Cyprus

Net EU contribution

€ 939 750,00

Address

Grigori Afxentiou 23c Mesa Geitonia
4003 Limassol

SME
Yes

Region

Κύπρος

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

Contact the organisation Website
Participation in EU R&I programmes
H2020 collaboration network

Non-EU contribution

€ 402 750,00

FORO MARITIMO VASCO

Spain

Net EU contribution

€ 214 750 00
MARITIME INSTITUTE OF EASTERN MEDITERRANEAN - MAR. IN. E. M.

Cyprus

Net EU contribution
€ 582 500,00

Address
Plateia Vasileos Pavlou
6023 Larnaca

SME
Yes

Region
Κύπρος

Activity type
Other

Links
Contact the organisation
Participation in EU R&I programmes
H2020 collaboration network

Non-EU contribution
€ 0,00
ASOCIACION DE EMPRESARIOS TEXTILES DE LA REGION VALENCIANA

Spain

Net EU contribution
€361,250,00

Address
Calle Els Telers P I El Pla 20
46870 Ontinyent

SME
Yes

Region
Este > Comunitat Valenciana > Valencia/València

Activity type
Other

Links
Contact the organisation
Participation in EU R&I programmes
H2020 collaboration network

Non-EU contribution
€0,00

TECHNISCHE UNIVERSITAET DRESDEN

Germany

Net EU contribution
€590,000,00

Address
Helmholtzstrasse 10
01069 Dresden

Region
Sachsen > Dresden > Dresden, Kreisfreie Stadt

Activity type
Higher or Secondary Education Establishments

Links
Contact the organisation
Website
SAFE MARINE SRL

**Italy**

Net EU contribution

€ 176 750,00

Address

Via Mazzini 47
34077 Ronchi Dei Legionari Go

SME

Yes

Region

Nord-Est > Friuli-Venezia Giulia > Gorizia

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

Contact the organisation
Website
Participation in EU R&I programmes
H2020 collaboration network

Non-EU contribution

€ 75 750,00

---

CSEM CENTRE SUISSE D'ELECTRONIQUE ET DE MICROTECHNIQUE SA - RECHERCHE ET DEVELOPPEMENT

**Switzerland**

Net EU contribution

€ 0,00

Address

Rue Jaquet Droz 1
2000 Neuchatel

Region

Schweiz/Suisse/Svizzera > Espace Mittelland > Neuchâtel
Activity type

Research Organisations

Links

Contact the organisation Website Participation in EU R&I programmes H2020 collaboration network

Non-EU contribution

€ 654 752,50

G.G. DEDALOS TECHNOLOGY SERVICES LTD

Cyprus

Net EU contribution

€ 418 250,00

Address

Yiangou Michaeledi 26
1048 Lefkosia

SME

Yes

Region

Κύπρος

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

Contact the organisation Website Participation in EU R&I programmes H2020 collaboration network

Non-EU contribution

€ 179 250,00

I. PANARETOU - CHAR. KOSTOPOULOS OE

Greece

Net EU contribution

€ 444 150,00

Address
Maizonos Str 121
262 22 Patra

SME
Yes

Region
Αχαΐα > Δυτική Ελλάδα > Κεντρική Ελλάδα

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links
Contact the organisation Website
Participation in EU R&I programmes
H2020 collaboration network

Non-EU contribution
€ 190 350,00

---

CANEPA & CAMPI SRL

Net EU contribution
€ 644 875,00

Address
Via Lercari Megollo Edificio 18
16126 Genova

SME
Yes

Region
Nord-Ovest > Liguria > Genova

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links
Contact the organisation Website
Participation in EU R&I programmes
H2020 collaboration network

Non-EU contribution
€ 276 375,00
MINISTRY OF TRANSPORT, COMMUNICATIONS AND WORKS

Cyprus

Net EU contribution
€ 287,500.00

Address
Acheon 28
1424 Nicosia

Region
Κύπρος > Κύπρος > Κύπρος

Activity type
Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Links
Contact the organisation
Participation in EU R&I programmes
H2020 collaboration network

Non-EU contribution
€ 0,00

EC signature date: 14 April 2015
Last update: 15 August 2022
Record number: 193392

Permalink: https://cordis.europa.eu/project/id/636286

© European Union, 2022