

PROJECT

RAMSSES

Realisation and Demonstration of Advanced Material Solutions for Sustainable and Efficient Ships

Funding: European (Horizon 2020)

Duration: Jun 2017 - May 2021

Status: Complete

Total project cost: €13,494,091

EU contribution: €10,799,441



Call for proposal: H2020-MG-2016-Two-Stages

[CORDIS RCN : 210788](#)

Objectives:

The RAMSSES project has the strategic objective to obtain recognition and an established role for advanced materials in the European maritime industry.

To achieve this the project will demonstrate the benefits of new materials in thirteen industry led and market driven demonstrator cases along the entire maritime process chain from components through equipment and ship integration to repair. Those demonstrators will reach a high 'Technology Readiness Level' between TRL 6 and 8 and will either be installed on shore under close to reality conditions or validated on board.

The technical performance as well as life cycle cost efficiency and environmental impact will be assessed and validated by specific expert teams following common procedures and testing standards. The test program will be based on risk assessment and a widest possible use of existing test results. It will be supervised by rule making bodies, ensuring relevance for a commercial approval beyond the project. Test data as well as best practice procedures on design, qualification and production of new material solutions will be made available in a maritime test database and a central knowledge repository, thus allowing fast qualification and approval of similar maritime applications in the future.

RAMSSES also aims to improve the innovation capabilities of the European maritime sector by elaborating terms of reference of a future use of the test database and the knowledge repository beyond the project. In cooperation with other initiatives, it will contribute to the formation of a maritime materials innovation platform including continuous technology transfer to and from other industry sectors.

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)

Lead Organisation:

Cetena S.p.a. - Centro Per Gli Studi Di Tecnica Navale

Address:

Via Ippolito d'Aste 5
16121 GENOVA
Italy

Organisation Website:

<http://www.cetena.it>

EU Contribution: €496,388

Partner Organisations:

Evonik Degussa Gmbh

Address:

Rellinghauser Strasse 1-11
45128 ESSEN
Germany

Organisation Website:

<http://www.evonik.com>

EU Contribution: €145,226

Airborne Composites Automation Bv

Address:

LAAN VAN YPENBURG 70
2497 GB S GRAVENHAGE
Netherlands

Organisation Website:

http://www.airbornetechnologycentre.com/technology/index.phtml?p=atc_aboutus_atc

EU Contribution: €242,881

Scheepswerf Damen Gorinchem Bv

Address:

Avelingen West 20 Industrieterrein
4202 MS Gorinchem
Netherlands

EU Contribution: €28,193

Infracore Company Bv

Address:

OOSTDIJK 25
3077 CP ROTTERDAM
Netherlands

EU Contribution: €153,344

Becker Marine Systems Gmbh

Address:

BLOHMSTRASSE 23
21079 HAMBURG
Germany

Organisation Website:

<http://www.becker-marine-system.com>

EU Contribution: €329,919

Bureau Veritas Marine & Offshore Registre International De Classification De Navires Et De Plateformes Offshore

Address:

8 COURS DU TRIANGLE
92800 PUTEAUX
France

Organisation Website:
<http://www.bureauveritas.fr>

EU Contribution: €286,606

Nederlands Organisation For Applied Scientific Research

Address:
Schoemakerstraat 97
6060 DELFT
Netherlands

Organisation Website:
<http://www.tno.nl>

EU Contribution: €422,250

Swerea Sicomp Ab

Address:
Fibervaegen - Oejebyn 2
94126 Pitea
Sweden

EU Contribution: €139,771

Asociacion De Investigacion Metalurgica Del Noroeste

Address:
Calle Relva Torneiros 27A
36410 Porrino
Spain

EU Contribution: €413,775

Mec Insenerilahendused

Address:
Oismae Tee 30 58
13512 Tallinn
Estonia

EU Contribution: €73,631

National Technical University Of Athens

Address:
Heron Polytechniou 9 (polytechnic campus)
15780 ZOGRAFOS
Greece

Organisation Website:
<http://www.martrans.org>

EU Contribution: €73,563

Fraunhofer Gesellschaft Zur Foerderung Der Angewandten Forschung E.v.

Address:

HANSASTRASSE 27C
80686 MUNCHEN
Germany

Organisation Website:
<http://www.fraunhofer.de>

EU Contribution: €314,000

Naval Group

Address:
Rue Du Docteur Finlay 40-42
75015 Paris
France

EU Contribution: €633,700

Meyer Turku Oy

Address:
Telakkakatu 1
20240 Turku
Finland

EU Contribution: €285,136

Galventus Servicios Eolicos SI

Address:
AVENIDA JOSE COSTA ALONSO 34
MOANA
Spain

EU Contribution: €78,225

Institut De Recherche Technologique Jules Verne

Address:
TECHNOCAMPUS EMC2 ZI DU CHAFFAULT CHEMIN DU CHAFFAULT
44340 BOUGUENNAIS
France

EU Contribution: €231,750

Rise Research Institutes Of Sweden Ab

Address:
Scheelevägen 27
22370 Lund
Sweden

EU Contribution: €582,795

Ecole Centrale De Nantes

Address:
Rue De La Noe 1
44321 Nantes
France

Organisation Website:
<http://www.ec-nantes.fr>

EU Contribution: €128,125

Aalto Korkeakoulusäätiö Sr

Address:

N/a
FIN/A00076 Aalto
Finland

Organisation Website:

<http://www.aalto.fi/en/>

EU Contribution: €392,600

Fincantieri - Cantieri Navali Italiani S.p.a.

Address:

Via Genova, 1
34121 TRIESTE
Italy

Organisation Website:

<http://www.fincantieri.com>

EU Contribution: €85,116

Balance Technology Consulting

Address:

Contrescarpe 33
28203 BREMEN
Germany

Organisation Website:

<http://www.balance-bremen.de>

EU Contribution: €412,213

Podcomp Ab

Address:

Kompositvagen 3
943 33 Ojebyn
Sweden

EU Contribution: €186,441

Meyer Werft - Jos. L. Meyer GmbH

Address:

Postfach 1555
1555 PAPENBURG
Germany

Organisation Website:

<http://www.meyerwerft.com>

EU Contribution: €732,448

Netcomposites Limited

Address:

Bridge Way 4A Broom Business Park
Chesterfield
S41 9QG
United Kingdom

EU Contribution: €178,679

O.c.s. Plants, Technologies And Processes Korlatolt Felelossegu Tarsasag

Address:

VERES PALNE UTCA 14
BUDAPEST
1053
Hungary

EU Contribution: €105,175

Stichting Netherlands Maritime Technology Foundation

Address:

Boompjes 40
3011 XB Rotterdam
Netherlands

EU Contribution: €227,800

Stx France Cruise Sa

Address:

Avenue Bourdelle
90180 SAINT-NAZAIRE
France

Organisation Website:

<http://www.stxeurope.com>

EU Contribution: €542,631

Ecole Nationale Superieure De Techniques Avancees Bretagne

Address:

2, Rue Francois Verny
29806 BREST CEDEX 9
France

EU Contribution: €340,750

Francisco Cardama, S.a.

Address:

Avda. Beiramar 12
36208 Vigo
Spain

EU Contribution: €91,298

Baltico Gmbh

Address:

BUTZOWER STRASSE 1 D
18239 HOHEN LUCKOW
Germany

EU Contribution: €249,331

Baltic Workboats As

Address:

SADAMA TEE 26
93872 NASVA
Estonia

EU Contribution: €137,288

Damen Schelde Naval Shipbuilding B.v.

Address:

Glacisstraat 165
4380AN Vlissingen
Netherlands

EU Contribution: €437,124

Hutchinson Sa

Address:

Rue Balzac 2
75008 Paris
France

EU Contribution: €239,635

Uljanik - Brodogradnja, Strojogradnja, Elektroindustrija, Oprema, Plovidba, Trgovina, Turizam D. D.

Address:

FLACIUSOVA 1
52100 PULA GRAD PULA POLA
Croatia

Organisation Website:

<http://www.uljanik.hr>

EU Contribution: €136,894

Center Of Maritime Technologies E. V.

Address:

Bramfelder Strasse 164
22305 HAMBURG
Germany

Organisation Website:

<http://www.cmt-net.org>

EU Contribution: €1,244,744

Technologies:

Ship design and manufacturing
Advanced material solutions for efficient ships

Development phase: Demonstration/prototyping/Pilot Production

STRIA Roadmaps: Vehicle design and manufacturing

Water transport (sea &

Transport mode: inland)

Transport sectors: Passenger transport, Freight transport

Geo-spatial type: Other