

PROJECT

FLARE

Flooding Accident REsponse

Funding: European (Horizon 2020)

Duration: Jun 2019 - May 2022

Status: Ongoing

Total project cost: €9,385,730

EU contribution: €9,375,730



[CORDIS RCN : 223204](#)

Objectives:

The FLARE consortium comprises key stakeholders from industry, academia and policy makers, involved in ship flooding risk research as a Group for over twenty years (HARDER, SAFEDOR, GOALDS, EMSA III, eSafe), the latter three focussing on passenger ships. This offers a unique knowledge base and capability to support targeted new developments and expedite implementation. The overriding objective is to develop a Risk-Based methodology for 'live' flooding risk assessment and control, to be achieved by:

- Creating an updated accident database for passenger ships and damages. Using this with support from suitably verified flooding simulation tools to develop a generic risk model for flooding incidents, accounting for collision and grounding with focus on cost-effective risk containment in emergencies.
- Ensuring the risk model is generic (all incidents in one model), holistic (active and passive measures) with potential application to new buildings and existing ships.
- A risk-aware approach, post-flooding incidents, from susceptibility to flooding to emergency response, including mustering and abandonment in extreme flooding scenarios. - Innovative technical solutions at TRL5 in ship concepts and equipment targeting risk containment, including: crashworthiness; minimising the risk from WT doors; use of highly expandable foam post-incident; decision support for crisis management.
- Developing a proposal for the revision of relevant IMO regulations towards a risk-based approach to contain and control risk in passenger ships from flooding incidents.

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:

Balance Technology Consulting

Address:

Contrescarpe 33
28203 BREMEN
Germany

Organisation Website:

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

EU Contribution: €607,028

Partner Organisations:

Hamburgische Schiffbau - Versuchsanstalt Gmbh

Address:

Bramfelder Str. 164
22305 HAMBURG
Germany

Organisation Website:

<http://www.hsva.de>

EU Contribution: €1,075,813

Color Line Marine As

Address:

Leif Weldingsvei 6
3202 SANDEFJORD
Norway

Organisation Website:

<http://www.colorline.no>

EU Contribution: €255,563

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: €285,313

Meyer Turku Oy

Address:

Telakkakatu 1
20240 Turku
Finland

EU Contribution: €331,688

Shipyards And Maritime Equipment Association Of Europe

Address:

Rue Marie De Bourgogne 52 54 52
1000 Bruxelles
Belgium

Organisation Website:

<http://www.seaeurope.eu>

EU Contribution: €329,813

Aalto Korkeakoulusäätiö Sr

Address:

N/a
FIN/A00076 Aalto
Finland

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

EU Contribution: €678,313

Association De Gestion De L Institut Catholique D Arts Et Metiers De Nantes

Address:
AVENUE DU CHAMP DE MANOEUVRES 35
44470 CARQUEFOU
France

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

EU Contribution: €413,063

Dnv Gl As

Address:
Veritasveien
1322 Hovik
Norway

Organisation Website:
<http://www.dnv.com>

EU Contribution: €293,750

Fincantieri - Cantieri Navali Italiani S.p.a.

Address:
Via Genova, 1
34121 TRIESTE
Italy

Organisation Website:
<http://www.fincantieri.com>

EU Contribution: €305,813

Carnival Plc

Address:
100 HARBOUR PARADE CARNIVAL HOUSE
SOUTHAMPTON HAMPSHIRE
SO15 1ST
United Kingdom

Organisation Website:
<http://www.carnival.com>

EU Contribution: €0

Brookes Bell Llp

Address:
WALKER HOUSE EXCHANGE FLAGS
LIVERPOOL
L2 3YL

United Kingdom

EU Contribution: €262,463

Meyer Werft - Jos. L. Meyer GmbH

Address:

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1555 PAPENBURG
Germany

Organisation Website:

<http://www.meyerwerft.com>

EU Contribution: €408,438

Rina S.p.a.

Address:

Via Corsica 12
16128 Genova
Italy

Organisation Website:

<http://www.rina.org>

EU Contribution: €179,063

Stichting Maritiem Research Instituut Nederland

Address:

Haagsteeg 2
6708 PM WAGENINGEN
Netherlands

Organisation Website:

<http://www.marin.nl>

EU Contribution: €1,254,813

Napa Ltd

Address:

Tammasaarekatu 3
180 Helsinki
Finland

Organisation Website:

<http://www.napa.fi>

EU Contribution: €671,750

Chantiers De L'atlantique

Address:

AVENUE ANTOINE BOURDELLE
44600 SAINT NAZAIRE
France

Organisation Website:

<http://www.stxeurope.com>

EU Contribution: €398,178

Rcl Cruises Ltd**Address:**

3 TH HEIGHTS BROOKLANDS WEYBRIDGE
SURREY
KT13 0NY
United Kingdom

Organisation Website:

<http://www.royalcaribbean.co.uk>

EU Contribution: €207,813

Lloyd's Register Emea Ips**Address:**

FENCHURCH STREET 71
LONDON
EC3M 4BS
United Kingdom

Organisation Website:

<http://www.lr.org>

EU Contribution: €197,813

Stena Rederi Ab**Address:**

Masthuggsterminalen
405 19 Gothenburg
Sweden

EU Contribution: €182,813

University Of Strathclyde**Address:**

Richmond Street
Glasgow
G1 1XQ
United Kingdom

Organisation Website:

<http://www.strath.ac.uk>

EU Contribution: €1,036,438

Technologies:

Safety systems
Low cost fire and flooding escalation monitoring sensor
notes

STRIA Roadmaps: Infrastructure
Water transport (sea &

Transport mode: inland)

Transport sectors: Passenger transport, Freight transport

Transport policies: Safety/Security

Geo-spatial type: Other