



Safe maritime operations under extreme conditions: the Arctic case

Fact Sheet

Project Information

SEDNA

Grant agreement ID: 723526



DOI

[10.3030/723526](https://doi.org/10.3030/723526)

Project closed

EC signature date
25 April 2017

Start date	End date
1 June 2017	30 November 2020

Funded under
SOCIETAL CHALLENGES - Smart, Green And Integrated Transport

Total cost
€ 6 726 565,00

EU contribution
€ 6 498 752,50

Coordinated by
BMT GROUP LTD
 United Kingdom

This project is featured in...



Project description

Safe navigation in the Arctic

The rapid increase in maritime traffic in the Arctic region has led to an increase in marine casualties caused by the region's extremely harsh environment. Therefore, any growth in shipping opportunities in the Arctic must prioritise the safety of ships' navigation teams and the natural environment. The EU-funded SEDNA project will develop an innovative and integrated risk-based approach to safe Arctic navigation, ship design, and operation. The project will create and demonstrate a human-centred operational environment for the ice going ship bridge using augmented reality technology – the Safe Arctic Bridge – integrate dynamic meteorological and oceanographic data with real-time ship monitoring and ice movement predictions, and deliver anti-icing engineering solutions, a risk-based design framework, and a CEN Workshop Agreement.

Fields of science

[natural sciences](#) > [computer and information sciences](#) > [data science](#) > [big data](#)

[natural sciences](#) > [chemical sciences](#) > [organic chemistry](#) > [alcohols](#)

[engineering and technology](#) > [environmental engineering](#) > [energy and fuels](#)

[engineering and technology](#) > [mechanical engineering](#) > [vehicle engineering](#) > [naval engineering](#) > [sea vessels](#)

[natural sciences](#) > [computer and information sciences](#) > [software](#) > [software applications](#) > [simulation software](#)

Programme(s)

[H2020-EU.3.4. - SOCIETAL CHALLENGES - Smart, Green And Integrated Transport](#)

Topic(s)

[MG-3.3-2016 - Safer waterborne transport and maritime operations](#)

Call for proposal

[H2020-MG-2016-2017](#)

[See other projects for this call](#)

Sub call

H2020-MG-2016-Two-Stages

Funding Scheme

[RIA - Research and Innovation action](#)

Coordinator



BMT GROUP LTD

Net EU contribution

€ 632 555,00

Total cost

€ 721 966,25

Address

GOODRICH HOUSE WALDEGRAVE ROAD 1

TW11 8LZ Teddington

 **United Kingdom** 

Region

London > Outer London — West and North West > Hounslow and Richmond upon Thames

Activity type

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

Links

Participants (16)

 **THIRD-PARTY** 

BMT SMART LIMITED 

 United Kingdom

Net EU contribution

€ 89 411,25

Address

**GOODRICH HOUSE, 1 WALDEGRAVE ROAD, TEDDINGTON
TW11 8LZ LONDON** 

SME 

Yes

Region

London > Outer London — West and North West > Hounslow and Richmond upon Thames

Activity type

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

Links

Total cost

€ 89 411,25

 **THIRD-PARTY** 

BMT ARGOSS BV 

 Netherlands

Net EU contribution

€ 0,00

Address

**Voorsterweg 28
8316PT Marknesse** 

SME 

Yes

Region

Oost-Nederland > Flevoland > Flevoland

Activity type

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

Links

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

Total cost

No data



UNIVERSITY COLLEGE LONDON

United Kingdom

Net EU contribution

€ 959 700,00

Address

GOWER STREET
WC1E 6BT London



Region

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

Activity type

Higher or Secondary Education Establishments

Links

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

Total cost

€ 959 700,00



CHALMERS TEKNISKA HOGSKOLA AB

Sweden

Net EU contribution

€ 705 875,00

Address

-

412 96 GÖTEBORG 

Region

Södra Sverige > Västsverige > Västra Götalands län

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 705 875,00



ARKITEKTUR OG DESIGNHOGSKOLEN I OSLO

 Norway

Net EU contribution

€ 695 375,00

Address

MARIDALSVEIEN 29

0175 Oslo 

Region

Norge > Oslo og Viken > Oslo

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 695 375,00



UNIVERSITY OF SOUTHAMPTON

 United Kingdom

Net EU contribution

€ 364 892,50

Address

Highfield

SO17 1BJ Southampton 

Region

South East (England) > Hampshire and Isle of Wight > Southampton

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 364 892,50



MET OFFICE

 United Kingdom

Net EU contribution

€ 765 893,75

Address

FITZROY ROAD

EX1 3PB Exeter 

Region

South West (England) > Devon > Devon CC

Activity type

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

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 765 893,75



MUNSTER TECHNOLOGICAL UNIVERSITY

 Ireland

Net EU contribution

€ 348 558,75

Address

ROSSA AVENUE BISHOPSTOWN

T12 P928 Cork 

Region

Ireland > Southern > South-East

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 348 558,75



AALTO KORKEAKOULUSAATIO SR

 Finland

Net EU contribution

€ 335 625,00

Address

OTAKAARI 1

02150 Espoo 

Region

Manner-Suomi > Helsinki-Uusimaa > Helsinki-Uusimaa

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 335 625,00



LLOYD'S REGISTER EMEA IPS

United Kingdom

Net EU contribution

€ 222 815,00

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](#)
- [HORIZON collaboration network](#)

Total cost

€ 222 815,00



AKER ARCTIC TECHNOLOGY OY

Finland

Net EU contribution

€ 345 087,50

Address

Merenkulkijankatu 6
00980 Helsinki

Region

Manner-Suomi > Helsinki-Uusimaa > Helsinki-Uusimaa

Activity type

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

Links

- [Contact the organisation](#)
- [Website](#)
- [Participation in EU R&I programmes](#)

Total cost

€ 345 087,50



Stena Rederi AB

 Sweden

Net EU contribution

€ 421 562,50

Address

Masthuggsterminalen
405 19 Gothenburg 

Region

Södra Sverige > Västsverige > Västra Götalands län

Activity type

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

Links

- [Contact the organisation](#) 
- [Participation in EU R&I programmes](#) 
- [HORIZON collaboration network](#) 

Total cost

€ 421 562,50



Dalian University of Technology

 China

Net EU contribution

€ 0,00

Address

Linggong Road, Ganjingzi District No.2
116024 Dalian 

Activity type

Higher or Secondary Education Establishments

Links

- [Contact the organisation](#) 
- [Participation in EU R&I programmes](#) 

Total cost

€ 117 187,50



Harbin Engineering University

 China

Net EU contribution

€ 0,00

Address

Harbin Engineering University

150001 Harbin 

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 110 625,00



ULSTEIN POWER & CONTROL AS

 Norway

Net EU contribution

€ 389 250,00

Address

OSNESVEGEN 118

6065 ULSTEIN 

Region

Norge > Vestlandet > Møre og Romsdal

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

Total cost

€ 389 250,00



SP/F DECISION3

 Faeroe Islands

Net EU contribution

€ 222 151,25

Address

HOYVIKSVEGUR 54

FO 100 TORSHAVN 

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 222 151,25

Last update: 23 August 2022

Permalink: <https://cordis.europa.eu/project/id/723526>

European Union, 2024