PERSEUS
Project ID: 287600
Funded under: FP7-ENVIRONMENT

Policy-oriented marine Environmental Research in the Southern EUropean Seas

From 2012-01-01 to 2015-12-31, closed project

Project details

<table>
<thead>
<tr>
<th>Total cost:</th>
<th>Topic(s):</th>
</tr>
</thead>
<tbody>
<tr>
<td>EUR 16 994 500,54</td>
<td>OCEAN.2011-3 - Assessing and predicting the combined effects of natural and human-made pressures in the Mediterranean and the Black Sea in view of their better governance</td>
</tr>
<tr>
<td>EU contribution:</td>
<td>Call for proposal:</td>
</tr>
<tr>
<td>EUR 12 973 123,40</td>
<td>FP7-OCEAN-2011 See other projects for this call</td>
</tr>
<tr>
<td>Coordinated in:</td>
<td>Funding scheme:</td>
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<tr>
<td>Greece</td>
<td>CP-IP-SICA - Large-scale integrating project for specific cooperation actions dedicated to international cooperation partner countries(SICA)</td>
</tr>
</tbody>
</table>

Objective

The overall scientific objectives of PERSEUS are to identify the interacting patterns of natural and human-derived pressures on the Mediterranean and Black Seas, assess their impact on marine ecosystems and, using the objectives and principles of the Marine Strategy Framework Directive as a vehicle, to design an effective and innovative research governance framework based on sound scientific knowledge. Well-coordinated scientific research and socio-economic analysis will be applied at a wide-ranging scale, from basin to coastal. The new knowledge will advance our understanding on the selection and application of the appropriate descriptors and indicators of the MSFD. New tools will be developed in order to evaluate the current environmental status, by way of combining monitoring and modelling capabilities and existing observational systems will be upgraded and extended. Moreover, PERSEUS will develop a concept of an innovative, small research vessel, aiming to serve as a scientific survey tool, in very shallow areas, where the currently available research vessels are inadequate.

In view of reaching Good Environmental Status (GES), a scenario-based framework of adaptive policies and management schemes will be developed. Scenarios of a suitable time frame and spatial scope will be used to explore interactions between projected anthropogenic and natural pressures. A feasible and realistic adaptation policy framework will be defined and ranked in relation to vulnerable marine sectors/groups/regions in order to design management schemes for marine governance. Finally, the project will promote the principles and objectives outlined in the MSFD across the SES.

Leading research Institutes and SMEs from EU Member States, Associated States, Associated Candidate countries, non-EU Mediterranean and Black Sea countries, will join forces in a coordinated manner, in order to address common environmental pressures, and ultimately, take action in the challenge of achieving GES.

Related information

| Result In Brief | Marine areas and research-based policies |
| Report Summaries | Exploitable results – Improvement of ARGO network in the Mediterranean and the Black Sea |
| | Exploitable results – A Clean Seas and Outreach Best Practice Guide |
Exploitable results – A Marine Strategy Framework Directive (MSFD) complementary approach for the assessment of pressures, knowledge and data gaps in Southern European Seas: The PERSEUS experience

Exploitable results – A comparative study of long term nutrients and phytoplankton biomass in selected sites of the Mediterranean and Black Seas (Poster)

Exploitable results – A comparative study of marine litter on the seafloor of coastal areas in the Eastern Mediterranean and Black Seas

Exploitable results – A data submission handbook for scientists

Exploitable results – A long-term glider monitoring program in the Ibiza Channel

Exploitable results – Accumulation and trophic transfer of Persistent Organic Pollutants (POPs) in plankton in the Gulf of Lion, Western Mediterranean

Exploitable results – Accurate assessment of nutrients exchange through straits (Gilbraltar Strait and Turkish Straits)

Exploitable results – Alien species in the Mediterranean Sea by 2012

Exploitable results – Appearance of Physalia physalis in the Mediterranean Sea

Exploitable results – Assessing Bluefin tuna populations status

Exploitable results – Assessment of effects of extreme dense water formation events on the export of chemical elements from the coastal zone to the deep environments

Exploitable results – Assessment of marine transect glider activity over the last 10 years in the Mediterranean and Black Seas

Exploitable results – Citizen Science online campaign: Jellyfish spotting campaign and Marine Litter Watch Campaign

Exploitable results – Citizen Science: PERSEUS & Sailing "Eco-campaign"

Exploitable results – Common methodological procedures for analysis of Vessel Monitoring System (VMS)

Exploitable results – Conditions for jellyfish proliferation in the Mediterranean and the Black Sea

Exploitable results – Contaminant levels in regional Mediterranean sediments

Exploitable results – Continuous Plankton Recorder (CPR) survey for the Mediterranean Sea

Exploitable results – Contrasting food web structures and trends across Mediterranean Areas

Exploitable results – DNA technique can be used to monitor non-native marine species

Exploitable results – Data collaborations with key partners in South Mediterranean Sea

Exploitable results – Definition and assessment of the integrated Good Environmental Status (GES) for benthic communities

Exploitable results – Determination of the hydrological variability and changes in the Cretan Sea from the combined datasets of Argo floats, mooring stations and R/V (research vessel) measurements.
Exploitable results – Determination of the seasonal cycle of the Mixed Layer, the Seasonal Thermocline and the Upper-Ocean Heat Storage Rate in the Mediterranean Sea derived from observations

Exploitable results – Full blueprints of a small research and survey vessel

Exploitable results – Identification of Pressures in the Southern European Seas (SES) open and coastal waters in socio-economic terms - Gap Analysis on data and knowledge

Exploitable results – Identification of dominant phytoplankton functional types in the Mediterranean Sea based on a regionalized remote sensing approach

Exploitable results – Identification of the main environmental risks for not achieving Good Environmental Status (GES) in mediterranean and Black Seas (PERSEUS Fact Sheet Series)

Exploitable results – Impact of dense shelf water cascading and open-sea convection in the northwestern Mediterranean during winter 2012, on deep-sea biological activity particle fluxes and sediment dynamics

Exploitable results – Impacts of invasive alien marine species on ecosystem services and biodiversity: a pan-European review

Exploitable results – Important expansion of biogeochemical monitoring in the Mediterranean and Black Seas

Exploitable results – Important expansion of glider monitoring lines to the Southern Mediterranean.

Exploitable results – Increasing temperature and salinity trend in the Levantine Basin

Exploitable results – Integrated Mediterranean and Black Seas Ocean Observing System (IMBOOS)

Exploitable results – Integrated socio-economic assessment of marine and coastal sectors

Exploitable results – Intercomparison of the ecological quality assessment methodologies involving benthic indices in different regions across the South European Seas (SES). Evaluation of assessments and selection of indices

Exploitable results – Invading European Seas: Assessing pathways of introduction of marine alien species

Exploitable results – Mapping the Ecoregions of the Mediterranean

Exploitable results – Marine Strategy Framework Directive (MSFD) food web indicators

Exploitable results – Marine litter distribution and density in the Mediterranean Sea, Northeastern Atlantic Ocean and Arctic Ocean

Exploitable results – Methods for estimating Chla data from satellite products for the Aegean Sea

Exploitable results – Multidisciplinary approach to managing Atlantic Blue fin tuna in the Mediterranean

Exploitable results – New Mean Dynamic Topography for the Mediterranean Sea (SMDT-MED-2014)

Exploitable results – New understanding of character of northern Aegean...
Exploitable results – New understanding of character of northern Aegean

Exploitable results – Observations of the mixed layer depth, nitrate and chlorophyll concentrations in the North Western Mediterranean

Exploitable results – Ocean Literacy: PERSEUS@School

Exploitable results – Overview of the status of each MSFD indicator in the Mediterranean and Black Sea

Exploitable results – PERSEUS Oceanographic Mediterranean and Black Sea Data Management

Exploitable results – PERSEUS message from Izmir to reduce marine litter

Exploitable results – Prototype (b-version) of an early warning system for oil spill

Exploitable results – Recommendations for advancing the assessment and management of non-indigenous species (NIS) in marine ecosystems.

Exploitable results – Recommendations for monitoring of non-indigenous species (NIS) in some hot spot areas

Exploitable results – Regulation on the Aristeus antennatus fishery in Catalonia (published on the Official Spanish Gazette)

Exploitable results – Relationship between offshore marine constructions and the dispersal of moon jellyfish polyps in northern Adriatic

Exploitable results – Relationship between the anchovy recruitment in the Alboran Sea and the associated circulation features in the basin


Exploitable results – Report on operation and data analysis from Multi-Platform Synoptic Intensive Experiment (ALBOREX) (Deliverable 3.8)

Exploitable results – Review of ocean observing systems in the South European Sea (SES) and recommendations on upgrades to serve PERSEUS needs

Exploitable results – SOCIB: The Balearic Island Observing and Forecasting System

Exploitable results – Seagrass presence and distribution as Ecological Status indicators: Case studies in the Eastern Mediterranean and the Black Sea

Exploitable results – Spatial gradients of organic chemical pollutants in the coastal environment linked to coastal cities.

Exploitable results – Spreading of Levantine Intermediate Waters by submesoscale coherent vortices in the northwestern Mediterranean Sea as observed with gliders

Exploitable results – State of Environment Report of the Western Black Sea

Exploitable results – Status of alien species in the Marmara Sea and in the Black Sea

Exploitable results – Stock assessment of small pelagic fish in the NW Black Sea

Exploitable results – Study of the formation of very dense water in the northern Adriatic Sea and propagation into the southern Adriatic Sea.

Exploitable results – Testing the biomass size spectrum as an indicator of the impact of combined pressures on the pelagic community of Saronikos Gulf -
Exploitable results – The Adaptative Marine Policy Toolbox

Exploitable results – The environmental status in three coastal areas of Mediterranean and Black Seas: a eutrophication approach towards the implementation of the Marine Strategy Framework Directive (MSFD)

Exploitable results – Time-series comparison of coverage of sea grass meadows in Mediterranean

Exploitable results – Time-series of environmental indices defining South European Seas (SES) pressures

Exploitable results – Tool for the indentification and assesment of environmental aspects in ports (TEAP)

Exploitable results – Website for uploading data from jellyfish

Final Report Summary - PERSEUS (Policy-oriented marine Environmental Research in the Southern EUropean Seas)

PERSEUS: Final Scientific Conference and Final Stakeholders meeting

Coordinator

HELLENIC CENTRE FOR MARINE RESEARCH
LEOFOROS ATHENS SOUNIO 46 7KM
19013 ATTIKIA ANAVISSOS
Greece

EU contribution: EUR 1 806 956,85

See on map

Activity type: Research Organisations

Administrative contact: Adamantios Lykousis
Tel.: +302291076345
Fax: +00302291076347
Contact the organisation

Participants

MIDDLE EAST TECHNICAL UNIVERSITY
DUMLUPINAR BULVARI 1
06800 ANKARA
Turkey

EU contribution: EUR 495 000,83

See on map

Activity type: Higher or Secondary Education Establishments

Administrative contact: Ahmet Kideys
Tel.: +90 324 521 2150
Fax: +90 324 521 2327
Contact the organisation
INSTITUT FRANCAIS DE RECHERCHE POUR L'EXPLOITATION DE LA MER
1625 ROUTE DE SAINTE ANNE ZONE INDUSTRIELLE DE LA POINTE DU DIABLE
29280 PLOUZANE
France
EU contribution: EUR 799 836,38

AGENCIA ESTATAL CONSEJO SUPERIOR DEINVESTIGACIONES CIENTIFICAS
CALLE SERRANO 117
28006 MADRID
Spain
EU contribution: EUR 810 055,75

CONSORZIO NAZIONALE INTERUNIVERSITARIO PER LE SCIENZE DEL MARE ASSOCIAZIONE
PIAZZALE FLAMINIO 9
00196 ROMA
Italy
EU contribution: EUR 410 000,40

Activity type: Research Organisations

Administrative contact: Mari-Jose Clement
Tel.: +33 4 94 30 49 36
Fax: +33 4 94 30 44 15
Contact the organisation

Administrative contact: Eusebio Jiménez Arroyo
Tel.: +34 91 566 8852
Fax: +34 91 566 8913
Contact the organisation

Administrative contact: Marco Zavatarelli
Tel.: +390512095060
Fax: +39051249644
Contact the organisation
INSTITUTUL NATIONAL DE CERCETARE-DEZVOLTARE PENTRU GEOLOGIE SI GEOECOLOGIE

MARINA-GEOECOMAR

DIMITRIE ONCIUL STREET 23-25
024053 BUCHAREST

Romania

See on map

**Activity type:** Research Organisations

**Administrative contact:** Gheorghe Oaie
Tel.: +40 212523039
Fax: +40 212522594

Contact the organisation

**EU contribution:** EUR 244,999,70

---

PLAN BLEU POUR L'ENVIRONNEMENT ET LE DEVELOPPEMENT EN MEDITERRANNEE

LUDWIG VAN BEETHOVEN 15
06560 VALBONNE

France

**Activity type:** Research Organisations

**Administrative contact:** Didier Sauzade
Tel.: +33491554816
Fax: +33492387131

Contact the organisation

**EU contribution:** EUR 323,000

---

COSNAV ENGINEERING SRL

VIA DEL CORONEO 21
34133 TRIESTE

Italy

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

**Administrative contact:** Cosmas Cosmidis
Tel.: +393355910360
Fax: +39040633793

Contact the organisation

**EU contribution:** EUR 249,993

---

UNIVERSITA TA MALTA

University Campus, Tal-Qroqq
2080 MSIDA

Malta

See on map

**Activity type:** Higher or Secondary Education Establishments

**Administrative contact:** Aldo Drago
Tel.: +356 23402843
Fax: +356 21440972

Contact the organisation

**EU contribution:** EUR 103,000
EU contribution: EUR 183 463,51

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

Administrative contact: Emily Koulouvaris
Tel.: +30 210 6458530
Fax: +30 210 6451244
Contact the organisation

EU contribution: EUR 139 833

Activity type: Research Organisations

Administrative contact: Nerea Ortiz
Tel.: +34 9 44014690
Contact the organisation

EU contribution: EUR 249 984

Activity type: Research Organisations

Administrative contact: Miguel Bernal
Tel.: +34 93 230 95 00
Fax: +34 93 2309555
Contact the organisation

EU contribution: EUR 150 000

Activity type: Higher or Secondary Education Establishments

Administrative contact: Xavier Gutiérrez
Tel.: +34934035385
Fax: +34934489434
Contact the organisation
UNIVERSITAT POLITECNICA DE CATALUNYA  
CALLE JORDI GIRONA 31  
08034 BARCELONA  
Spain  

**EU contribution:** EUR 225 000,63

**Activity type:** Higher or Secondary Education Establishments

**Administrative contact:** Cristina Costa Leja
Tel.: +34934017126  
Fax: +34934017130

Contact the organisation

CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS  
RUE MICHEL ANGE 3  
75794 PARIS  
France

**EU contribution:** EUR 600 000

**Activity type:** Research Organisations

**Administrative contact:** Etienne Ruellan
Tel.: +33494304461  
Fax: +33494301672

Contact the organisation

UNIVERSITE D'AIX MARSEILLE  
Boulevard Charles Livon 58  
13284 Marseille  
France

**EU contribution:** EUR 90 000

**Activity type:** Higher or Secondary Education Establishments

**Administrative contact:** Celine Damon
Tel.: +33 4 91 99 85 95

Contact the organisation

UNIVERSITE PIERRE ET MARIE CURIE - PARIS 6  
Place Jussieu 4  
75252 PARIS  
France

**EU contribution:** EUR 100 000

**Activity type:** Higher or Secondary Education Establishments

**Administrative contact:** Stéphanie Rossard
Tel.: +33144279712  
Fax: +33144277484

Contact the organisation
UNIVERSITE PAUL SABATIER TOULOUSE III
ROUTE DE NARBONNE 118
31062 TOULOUSE CEDEX 9
France
EU contribution: EUR 150 000
See on map

Activity type: Higher or Secondary Education Establishments
Administrative contact: Claude Estournel
Tel.: +33 5 61332777
Contact the organisation

FONDAZIONE CENTRO EURO-MEDITERANEOSUI CAMBIAMENTI CLIMATICI
VIA A IMPERATORE 16
73100 LECCE
Italy
EU contribution: EUR 296 004
See on map

Activity type: Research Organisations
Administrative contact: Giulia Galluccio
Tel.: +390252036945
Fax: +39 02 520 36946
Contact the organisation

CONSIGLIO NAZIONALE DELLE RICERCHE
PIAZZALE ALDO MORO 7
00185 ROMA
Italy
EU contribution: EUR 455 000
See on map

Activity type: Research Organisations
Administrative contact: Cristina Sabbioni
Tel.: +390516399618
Fax: +390516399658
Contact the organisation

AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE, L’ENERGIA E LO SVILUPPO ECONOMICO SOSTENIBILE
LUNGOTEVERE GRANDE AMMIRAGLIO THAON DI REVEL 76
000196 ROMA
Italy
EU contribution: EUR 165 000
See on map

Activity type: Research Organisations
Administrative contact: Roberta Delfanti
Tel.: +39 0187 978258
Fax: +39 0187 978213
Contact the organisation
JRC -JOINT RESEARCH CENTRE- EUROPEAN COMMISSION
Rue de la Loi 200
1049 BRUSSELS
Belgium
EU contribution: EUR 264 999,60

Activity type: Research Organisations
Administrative contact: Engelen Kris
Tel.: +390332785018
Fax: +390332785631
Contact the organisation

ISTITUTO NAZIONALE DI OCEANOGRAFIA E DI GEOFISICA SPERIMENTALE
Borgo Grotta Gigante 42/C
34010 SGONICO-TRIESTE
Italy
EU contribution: EUR 514 999,86

Activity type: Research Organisations
Administrative contact: Alessandro Crise
Tel.: +390402140205
Fax: +390402140266
Contact the organisation

STAZIONE ZOOLOGICA ANTON DOHRN
Villa Comunale
80121 NAPOLI
Italy
EU contribution: EUR 90 000

Activity type: Research Organisations
Administrative contact: Giosue' Zurzolo
Tel.: +39 081 5833341
Fax: +39 081 7641355
Contact the organisation

PLYMOUTH MARINE LABORATORY
Prospect Place, The Hoe
PL1 3DH PLYMOUTH
United Kingdom
EU contribution: EUR 60 000

Activity type: Research Organisations
Administrative contact: Beaumont Nicola
Tel.: +44 1752 633476
Fax: +44 1752 633101
Contact the organisation
UNIVERSITY OF PLYMOUTH
DRAKE CIRCUS
PL4 8AA PLYMOUTH
United Kingdom
See on map

Activity type: Higher or Secondary Education Establishments

Administrative contact: Georgy Shapiro
Tel.: +441752584721
Contact the organisation

STICHTING DELTARES
BOUSSINESOWEG 1
2629 HV DELFT
Netherlands
See on map

Activity type: Research Organisations

Administrative contact: Saskia Hommes
Tel.: +31883357754
Contact the organisation

UNIVERSITEIT UTRECHT
HEIDELBERGLAAN 8
3584 CS UTRECHT
Netherlands
See on map

Activity type: Higher or Secondary Education Establishments

Administrative contact: Bas Leeflang
Tel.: +31302534980
Contact the organisation

UNIVERSITE DE LIEGE
PLACE DU 20 AOUT 7
4000 LIEGE
Belgium
See on map

Activity type: Higher or Secondary Education Establishments

Administrative contact: Catherine Ghymers
Tel.: +32 4 3665243
Contact the organisation
EU contribution: EUR 233 000

PANEPISTIMIO AIAGIOU
LOFOS PANEPISTIMIOU
81100 MYTILINI
Greece
See on map

Activity type: Higher or Secondary Education Establishments

Administrative contact: Areti Kontogianni
Tel.: +30 22510 36700
Contact the organisation

EU contribution: EUR 39 999,60

ETHNIKO KAI KAPODISTRIAKO PANEPISTIMIO ATHINON
6 CHRISTOU LADA STR
10561 ATHINA
Greece
See on map

Activity type: Higher or Secondary Education Establishments

Administrative contact: Efstathia Kafentzi
Tel.: +302107274893
Contact the organisation

EU contribution: EUR 180 000

PANEPISTIMIO KRITIS
UNIVERSITY CAMPUS GALLOS
74100 RETHIMNO
Greece
See on map

Activity type: Higher or Secondary Education Establishments

Administrative contact: Nikolaos Mihalopoulos
Tel.: +2810 545062
Contact the organisation

EU contribution: EUR 106 000

THE CYPRUS RESEARCH AND EDUCATIONAL FOUNDATION
KONSTANTINOU KAVAFI 20
2121 LEFKOSIA
Cyprus
See on map

Activity type: Higher or Secondary Education Establishments

Administrative contact: Manfred Lange
Tel.: +357 22 208621
Fax: +3572208625
Contact the organisation
UNIVERSITY OF CYPRUS
KALLIPOLEOS STREET 75
1678 Nicosia
Cyprus

**Activity type:** Higher or Secondary Education Establishments

**Administrative contact:** George Zodiatis
Tel.: +35722893988
Fax: +35722892575

**EU contribution:** EUR 80,000

VECNA POT 111
1000 Ljubljana
Slovenia

**Activity type:** Research Organisations

**Administrative contact:** Franc Potočnik
Tel.: +38659232704
Fax: +38612412980

**EU contribution:** EUR 145,000

SETAListe Ivana Mestrović 63
21000 Split
Croatia

**Activity type:** Research Organisations

**Administrative contact:** Ivona Marasović
Tel.: +385 21 408000
Fax: +385 21 358650

**EU contribution:** EUR 215,040

ISRAEL OCEANOGRAPHIC AND LIMNOLOGICAL RESEARCH LIMITED
Tel Shikmona
31080 Haifa
Israel

**Activity type:** Research Organisations

**Administrative contact:** Barak Herut
Tel.: +97248565221
Fax: +97248511911
UNIVERSITY OF HAIFA
ABBA KHUSHY BLVD MOUNT CARMEL
31905 HAIFA
Israel
See on map

**Activity type:** Higher or Secondary Education Establishments

**Administrative contact:** Suzan Aminpour
Tel.: +972 4 8240549
Fax: +972 4 8288035

EU contribution: EUR 90 000

BLACK SEA NGO NETWORK
ULICA DR ZAMENHOV 2
9000 VARNA
Bulgaria

**Activity type:** Other

**Administrative contact:** Emma Gileva
Tel.: +359 52 615856
Fax: +359 52 602047

EU contribution: EUR 84 936

SOFOA UNIVERSITY ST KLIMENT OHRIDSKI
BUL TZAR OSVOBODITEI 15
1504 SOFIA
Bulgaria

**Activity type:** Higher or Secondary Education Establishments

**Administrative contact:** Joanna Staneva
Tel.: +359286668719
Fax: +35928656413

EU contribution: EUR 99 999

INSTITUT PO BIORAZNOOBRAZIE I EKOSISTEMNI IZSLEDVANIYA BALGARSKA AKADEMIYA NA NAUKITE
UL. GAGARIN 2
1113 SOFIA
Bulgaria

**Activity type:** Higher or Secondary Education Establishments

**Administrative contact:** Georgi Daskalov
Tel.: +35952646892

EU contribution: EUR 105 000
INSTITUTE OF OCEANOLOGY - BULGARIAN ACADEMY OF SCIENCES
PARVI MAY STR 40
9000 VARNA
Bulgaria

Activity type: Research Organisations

Administrative contact: Snejana Moncheva
Tel.: +35952370485
Fax: +35952370485

Contact the organisation

EU contribution: EUR 196 623,92

INSTITUTUL NATIONAL DE CERCETARE-DEZVOLTARE MARINA GRIGORE ANTIPA
MAMAIA BLVD. 300
900581 CONSTANTA
Romania

Activity type: Research Organisations

Administrative contact: Andra Oros
Tel.: +40 241 543288
Fax: +40 241 831274

Contact the organisation

EU contribution: EUR 200 000

ISTANBUL UNIVERSITESI
ISTANBUL UNIVERSITESI CENTER CAMPUS BEYAZIT EMINONU
34452 ISTANBUL
Turkey

Activity type: Higher or Secondary Education Establishments

Administrative contact: Bayram Ozturk
Tel.: +905327611140
Fax: +902125140379

Contact the organisation

EU contribution: EUR 59 895

A. O. KOVALEVSKIY INSTITUTE OF BIOLOGY OF SOUTHERN SEAS
NAKHIMOV AVENUE 2
99011 SEVASTOPOL
Ukraine

Activity type: Research Organisations

Administrative contact: Yurii Tokarev
Tel.: +380692545919

Contact the organisation

EU contribution: EUR 104 487,34
EU contribution: EUR 189,231,09

KAPITANSKAYA STR. 2
99011 SEVASTOPOL
Ukraine

**Activity type:** Higher or Secondary Education Establishments

**Administrative contact:** Gennady Korotaev
Tel.: +380692547279
Fax: +380692554253

Contact the organisation

EU contribution: EUR 90,000

KAPITANSKAYA STR. 2
99011 SEVASTOPOL
Ukraine

**Activity type:** Higher or Secondary Education Establishments

**Administrative contact:** Lyudmila Kalinina
Tel.: +38 048 7230353
Fax: +38 048 7237338

Contact the organisation

ODESSA NATIONAL I.I. MECHNIKOV UNIVERSITY
DVORYANSKA ST; 2
65026 ODESSA
Ukraine

**Activity type:** Higher or Secondary Education Establishments

**Administrative contact:** Lyudmila Kalinina
Tel.: +38 048 7230353
Fax: +38 048 7237338

Contact the organisation

P.P. SHIRSHOV INSTITUTE OF OCEANOLOGY OF RUSSIAN ACADEMY OF SCIENCES
NAKHMIMOFSKY PROSPECT 36
117997 MOSKVA
Russia

**Activity type:** Research Organisations

**Administrative contact:** Andrey Zatsepin
Tel.: +7 499 1246392
Fax: +7 499 1245983

Contact the organisation

IVANE JAVAKHISHVILI TBILISI STATE UNIVERSITY
1 ILIA TCHAVTCHAVADZE AVENUE
0179 TBILISI
Georgia

**Activity type:** Higher or Secondary Education Establishments

**Administrative contact:** Kakhaber Bilashvili
Tel.: +995322253222
Fax: +995322253222

Contact the organisation
INSTITUT NATIONAL DE RECHERCHE HALIEUTIQUE
RUE TIZNIT 2
20000 CASABLANCA
Morocco
EU contribution: EUR 140 000

Activity type: Research Organisations

Administrative contact: Omar Ettahiri
Tel.: +212522200567
Fax: +21252226967

See on map

CLU srl
VIA TOGLIATTI 17/C
41013 Castelfranco Emilia (MO)
Italy
EU contribution: EUR 100 000

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

Administrative contact: Luisella Bianco
Tel.: +39 338 3537185

See on map

ECOLOGIC INSTITUT gemeinnützige GmbH
Pfalzburger Strasse 43-44
10717 BERLIN
Germany
EU contribution: EUR 110 000

Activity type: Research Organisations

Administrative contact: Ljudmila Stamova
Tel.: +4930868880

See on map

SAROST SA
IMMEUBLE SAADI TOUR 8 ETAGE EL MENZAH IV
1082 TUNIS
Tunisia
EU contribution: EUR 110 949,60

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

Administrative contact: Slim Gana
Tel.: +21670132234
Fax: +21671230125

See on map
Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)

Administrative contact: Aimilia Koulouvari
Tel.: +3228087007
Fax: +3224016170
Contact the organisation

Subjects

Environmental Protection

Last updated on 2017-12-11
Retrieved on 2019-08-26

Permalink: https://cordis.europa.eu/project/rcn/102043_en.html
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