

Oportunidades de especialização da frente Atlântica

Emilio Fernández
Director do Campus do Mar



CAMPUS DO MAR
KNOWLEDGE IN DEPTH

Foro Marítimo do Eixo Atlântico - Viana do Castelo, 25 de marzo de 2015

Especialização e aquisição de massa crítica ao nível regional

A especialização e a aquisição de massa crítica a través da agregação de capacidades institucionais ao nível regional é necessário para conseguir credibilidade e visibilidade internacional nos territórios de baixa intensidade em I+D.

I+D do mar: uma opção estratégica para a Euroregião Galiza-N Portugal

- A Galiza e o Norte de Portugal, com mais de 1.500 km de costa, baseiam uma parte importante da sua economia no mar
- Uma extensa rede de I+D relacionada com o meio marinho (Universidades, Centros de Investigação, Centros tecnológicos, etc.)
- Condições de partida idóneas para converter o noroeste da Península Ibérica num polo de excelência na geração de conhecimentos e de atração de talento nos âmbitos marinho e marítimo

A I+D marinha da Euroregião em números

- ⑩ 3000 investigadores
- ⑩ 1300 doutores
- ⑩ 24 instituições
- ⑩ 10500 JCR trabalhos de investigação*
- ⑩ > 500 teses de doutoramento*
- ⑩ > 600 projectos de investigação*
- ⑩ > 270 M€ contratos I+D*

* período 5 anos

INTERNATIONAL CAMPUS OF EXCELLENCE



CAMPUS DO MAR

KNOWLEDGE IN DEPTH

**BUILDING THE FUTURE
THROUGH THE OCEANS**

Universidade de Vigo



UNIVERSIDADE DA CORUÑA



CSIC
CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS



Instituto
Español de
Oceanografía



Océanos y Alianzas Libres Europeas
del Programa Horizonte

www.campusdomar.com

Project funded by the Spanish Ministry of Education
in the Framework of International Campus
of Excellence Program

Acquiring critical mass at the regional level: International Campus of Excellence

- To identify projects of aggregation in specialized areas to improve competitiveness in the global world
- To strengthen the interaction of university campuses with local and regional stakeholders through aggregation and strategic alliances
- To identify strengths of knowledge with social and economic, local and territorial agents



Campus do Mar: a strategic decision

- Galicia and Northern Portugal, with more than 1500 km of coast, center a significant share of their economy on marine activities
- An extensive wide network of R&D related to the marine environment (Universities, Research Centres, Technology Centres, etc.)
- Initial conditions suitable for converting the northwest Iberian peninsula in a centre of excellence in knowledge generation and attraction of talent in the marine and maritime fields



Visão do Campus do Mar

⑩ Desenvolver um Campus de Excelência Internacional no âmbito da Ciência e a Tecnologia Marinha, com o objectivo de criar valor económico e social e tornar-se um motor de desenvolvimento regional.

⑩ Posicionar estrategicamente o Campus como um líder internacional de geração de conhecimento marinho e marítimo.

Missao do Campus do Mar

- To become a dynamic force behind a transnational and integrated network of research, education and technology transfer units, which:
 - Train and prepare the best professionals and researchers in the field of Ocean Science and Technology,
 - Generate high quality research and international impact
 - Provide the industry with the most effective tools to improve competitiveness at a global scale

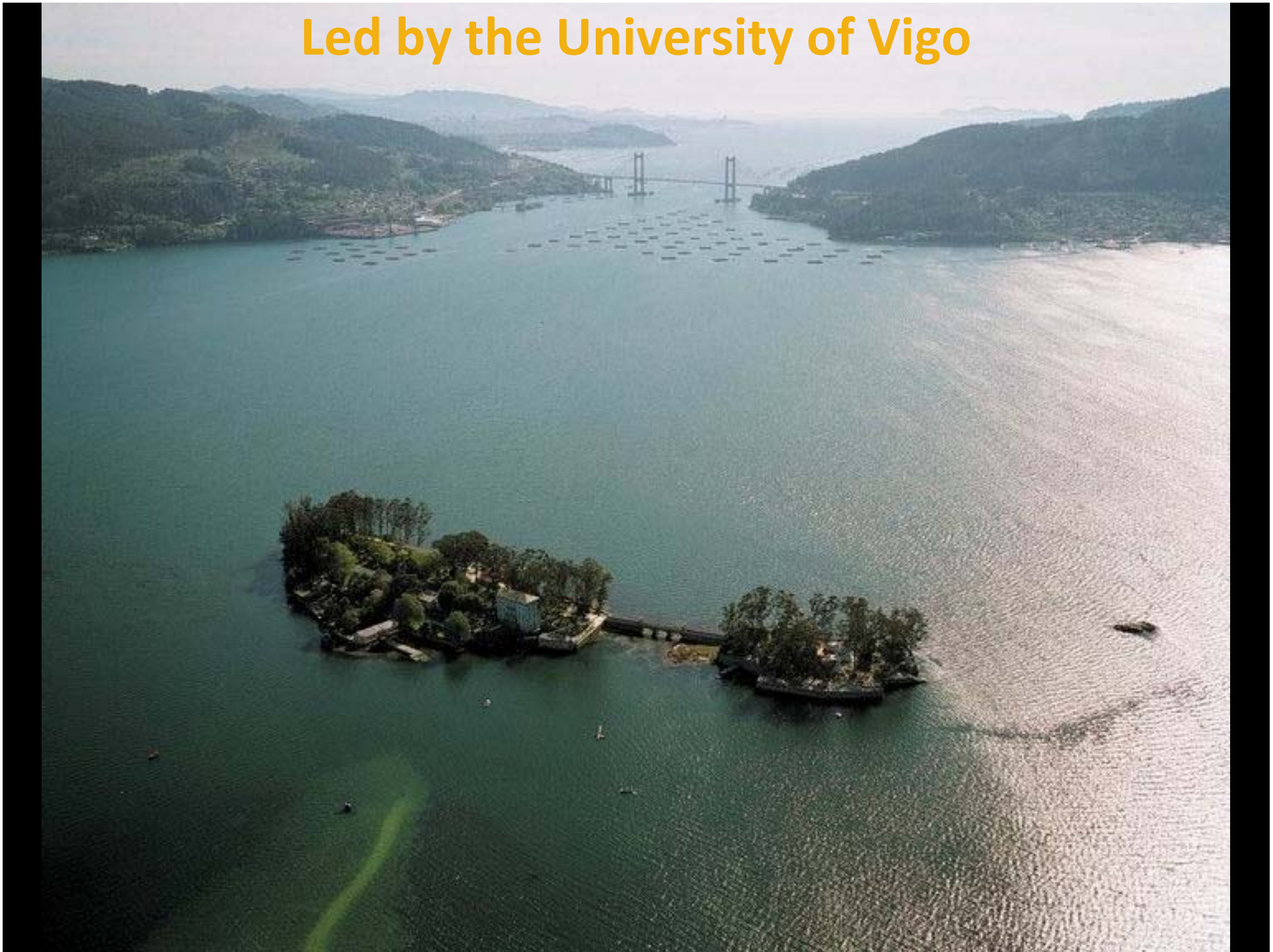


O que é o Campus do Mar?

Uma agregação formada pelas Universidades da Galiza, do Norte e Centro de Portugal, o Consejo Superior de Investigaciones Científicas e o Instituto Español de Oceanografía para desenvolver um Campus de excelência internacional no âmbito do Mar.



Led by the University of Vigo



Led by the University of Vigo



Marine Research Centers in Vigo





R&D Aggregation

HIGH QUALITY MARINE RESEARCH FROM THE EURO-REGION GALICIA-NORTE DE PORTUGAL

A STRONG MARINE R&D NETWORK



GALICIA

- 1 • Universidade de Vigo
• Consejo Superior de Investigaciones Científicas (CSIC)
• Instituto Español de Oceanografía (IEO)
• Centro Tecnológico do Mar (CETMAR)
• Asociación Nacional de Fabricantes de Conservas (ANFACO - CECOPECA)
• Centro tecnolóxico das Telecomunicacións de Galicia (GRADIANT)
• Centro tecnolóxico de Eficiencia e Sostenibilidade Enerxética (EnergyLAB)
• Centro Tecnolóxico da Automoción de Galicia (CTAG)
• Asociación de Investigación Metalúrxica do Noroeste (AIMEN)
• Plataforma Tecnolóxica Tecnopeixe
• Laboratorio Europeo de Referencia en Biotoxinas Marinas
• Centro Tecnológico do Naval Galego (CETNAGA)
- 2 • Universidade da Coruña
• Instituto Español de Oceanografía (IEO)
- 3 • Instituto Tecnológico para o control do Medio Mariño de Galicia (INTECMAR)
• Centro de Investigacións Mariñas (CIMA)
- 4 • Universidade de Santiago de Compostela
• Centro de Supercomputación de Galicia (CESGA)
• Cluster da Acuicultura de Galicia
- 5 • Centro de Investigacións Mariñas (CIMA)
- 6 • Plataforma Tecnolóxica Galega Agroalimentaria (PTGAL)

PORTUGAL

- 7 • Universidade do Minho
- 8 • Universidade de Trás-os-Montes e Alto Douro
- 9 • Universidade do Porto
- 10 • Universidade de Aveiro
- 11 • Instituto Politécnico de Viana do Castelo
- 12 • Instituto Politécnico de Leiria

A estrutura do Campus do Mar



CAMPUS DO MAR IN SPAIN

- Coordinated by: Universidade de Vigo
- Universidade da Coruña
- Universidade Santiago de Compostela
- Consejo Superior de Investigaciones Científicas (CSIC)
- Instituto Español de Oceanografía (IEO)



CAMPUS DO MAR IN PORTUGAL

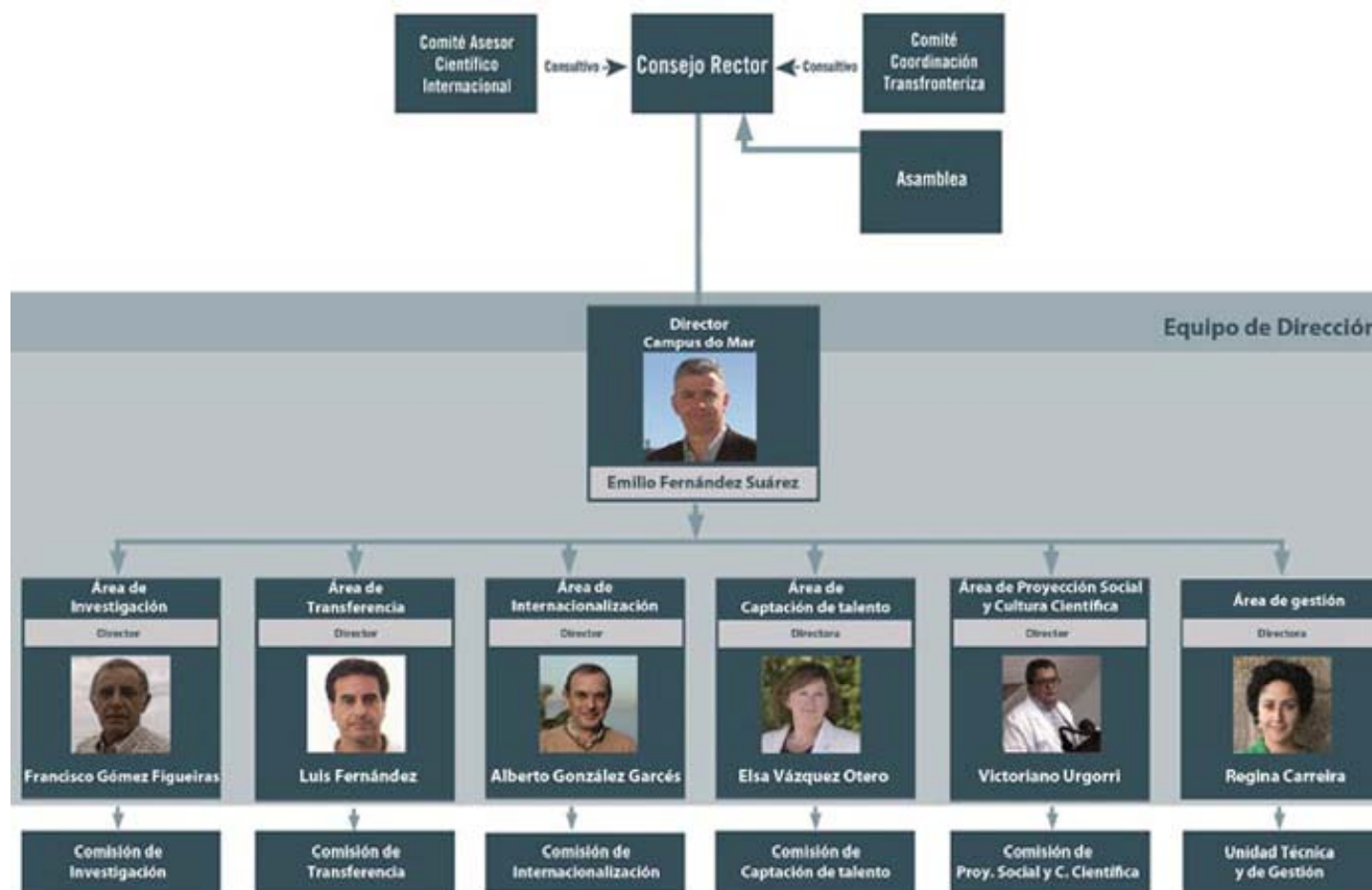
- Coordinated by: Universidade do Porto
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- Universidade de Aveiro
- Universidade de Trás os Montes e Alto Douro
- Instituto Politécnico de Viana do Castelo
- Instituto Politécnico de Leiria

CAMPUS DO MAR R&D AGGREGATION

- Centro Tecnológico do Mar (CETMAR)
- Asociación Nacional de Fabricantes de Conservas (ANFACO-CECOPECA)
- Centro Tecnológico Telecomunicacións de Galicia (GRADIANT)
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- Plataforma Tecnológica Galega Agroalimentaria (PTGAL)

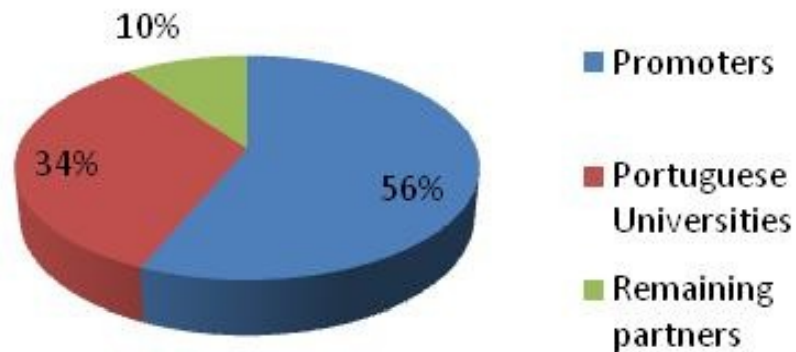


The Governance of Campus do Mar

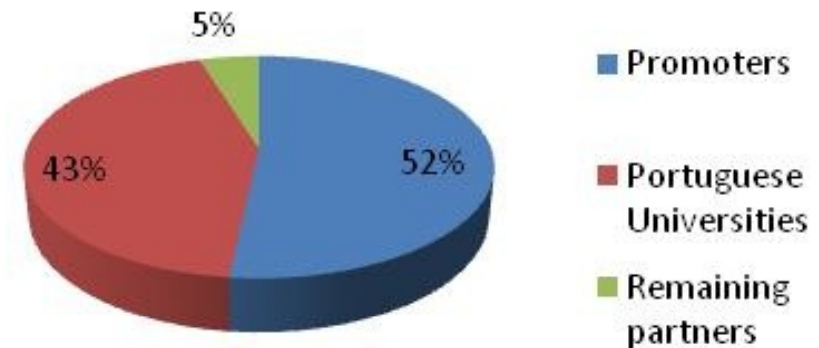


Relative importance of the R&D aggregation members

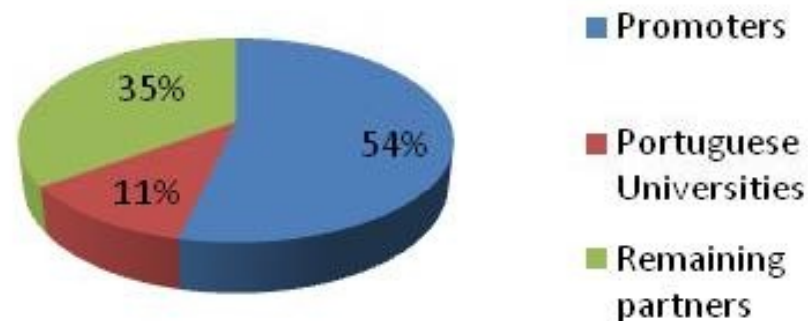
Researchers with PhD



JCR Articles



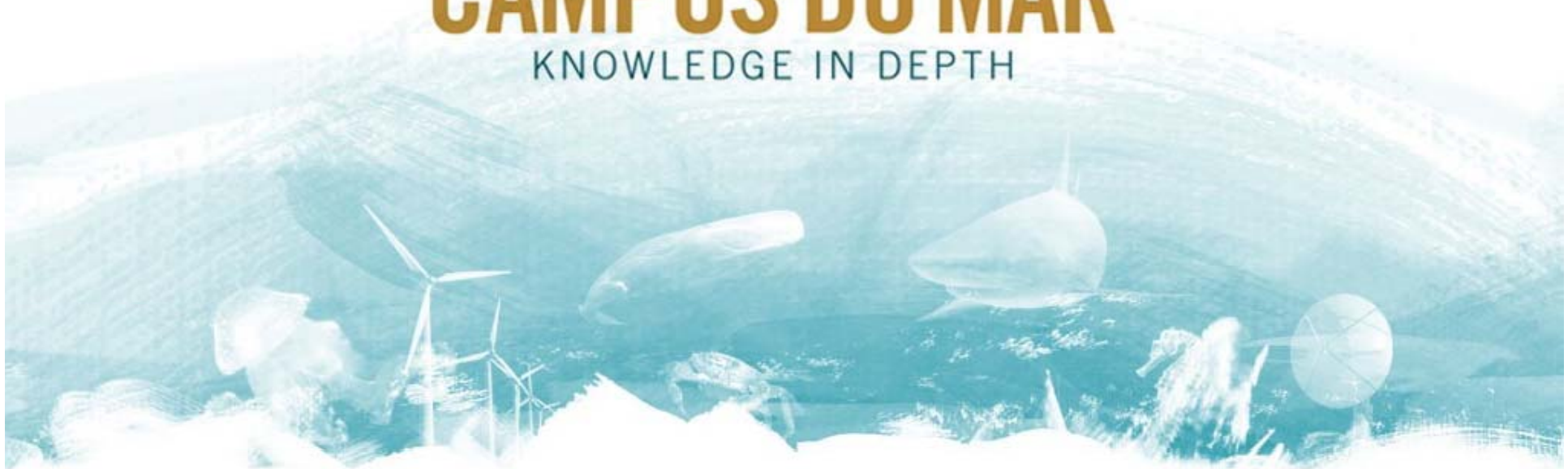
Income from R&D Contracts





CAMPUS DO MAR

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CAMPUS DO MAR

Knowledge in depth



CEI Management Unit:
Quality – Coordination – Connectivity

Research Excellence
and Technology
Transfer

Teaching Excellence
and
Internationalization

Campus
Transformation

Research

Technology
Transfer

Teaching

Internationalization

Sustainability

R&D Clusters

New Emerging
Lines

Recruitment

Transfer of
Technology and
Research Result

Fostering of
Entrepreneurial
Culture

Preprofessional
Practices

Quality of
Teaching

Training and
Educational
Innovation

New Teaching
Technologies

International
Promotion

Wellcoming

Mobility

Cooperation for
Development

Improving the
Quality Life

Infrastructures

Technological
and Science
Culture and
Society

International
Graduate School

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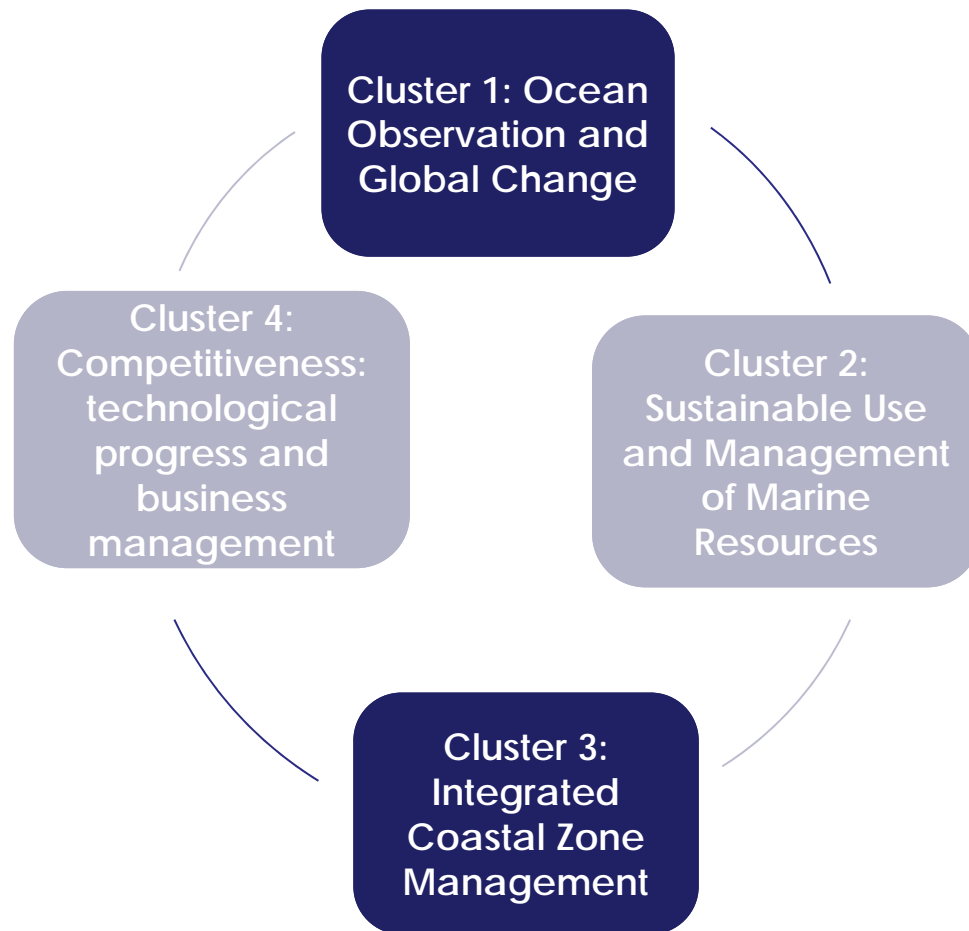
Infrastructures

Technological
and Science
Culture and
Society

Um polo de excelência na investigação



Com massa crítica en cuatro clusters de I+D



Áreas de investigação dos Clusters de I+D

Cluster	Ocean Observation & Global Change	Sustainable Use and Management of Marine Resources	Integrated Coastal Zone Management	Competitiveness: technological progress and business management
Fields of Research	Ocean Observation	Resource Use and Management	Analysis and evaluation of the coastal environment	Maritime transport, infrastructures, safety and security
		Aquaculture	Coastal Planning	Technologies for the marine industrial sector
	Global Change: Observational, experimental and modeling approach	Transformation and Value	Coastal Management	Business management

Closely connected to the productive sector

Knowledge exchange and needs identification forum:

- Large-scale Fishing Industry
- Artisanal Fisheries
- ICT Sector
- Marine Renewable Energy sector
- Aquaculture industries
- Logistics sector



Projectos estratégicos de investigação



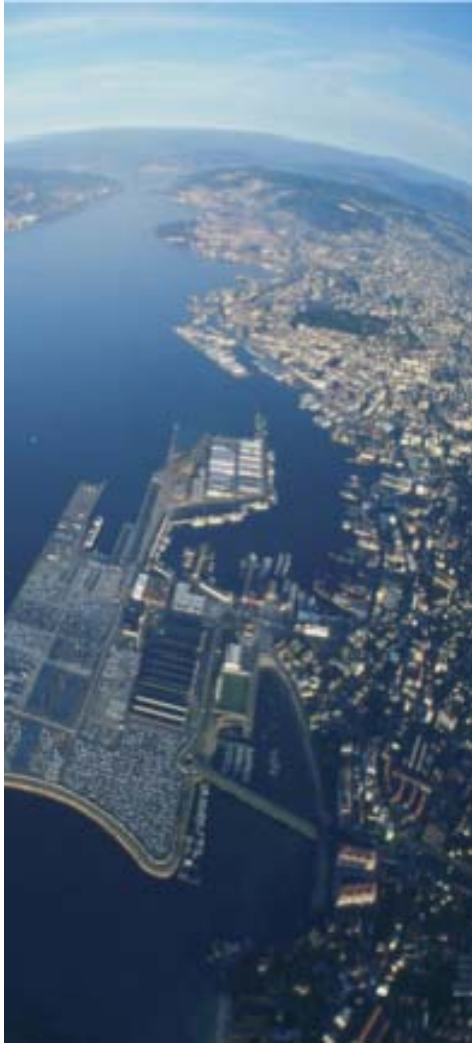
Otimização da produção de moluscos: diversificação e valorização

Otimização da produção de moluscos baixo uma aproximação multidisciplinar para obter suficiente sementes para cobrir as necessidades do sector:

- Considera a nutrição e supervivência larvaria, a qualidade nutricional, a segurança alimentar e o potencial económico e de mercado dos produtos



Projectos estratégicos de investigação



Smart Harbour Cities

Extensão do conceito de “smart city” às cidades portuárias e o seu ambiente, mediante a promoção de uma gestão integrada e “smart” da cidade, o porto e o ambiente harbour cities and their entorno natural

Atrazro de talento ao Campus do Mar

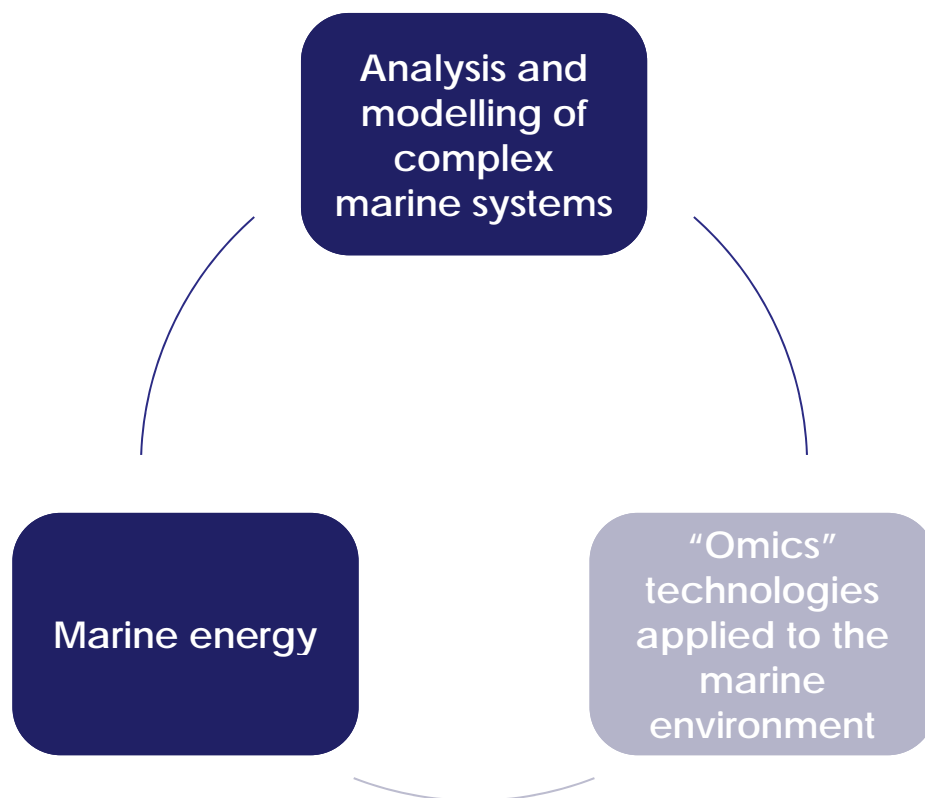


- ⑩ 10 contratos de post-doutoramento aberto a candidatos internacionais com mais de 4 anos de experiencia
- ⑩ Financiado pelo EU COFUND program

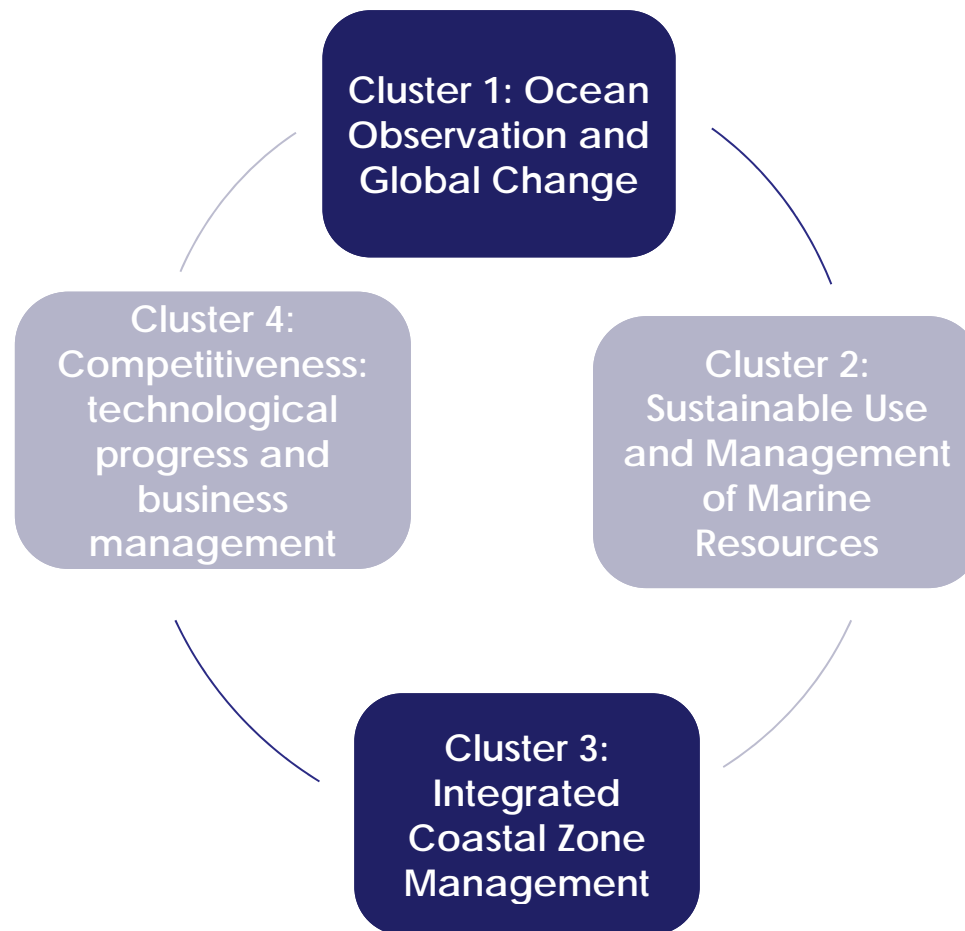
I+D do mar: uma opção estratégica para a Euroregião Galiza-N de Portugal

- Plan Investimentos Conjuntos Galiza-N de Portugal
 - **Eixo 1:** Uma Euroregião inovadora que aposta pela investigação e a transferencia
 - **Prioridade Estrategica 1:** Consolidação e potenciação de polos de investigação que se alinhar con a RIS3 da Euroregião.
 - **Projecto de Investimento 1.2:** Consolidação de tres polos de investigação: o INL, ... o **Campus do Mar**, con aplicações direitas en cuatro dos oito dominios do Norte e 2 dos 3 de Galicia, e o Campus da Mobilidade ...

Emerging research lines programme



Marine Research Clusters



Strategic Research Programmes

The Coastal and Oceanic Observatory of the Atlantic Arc

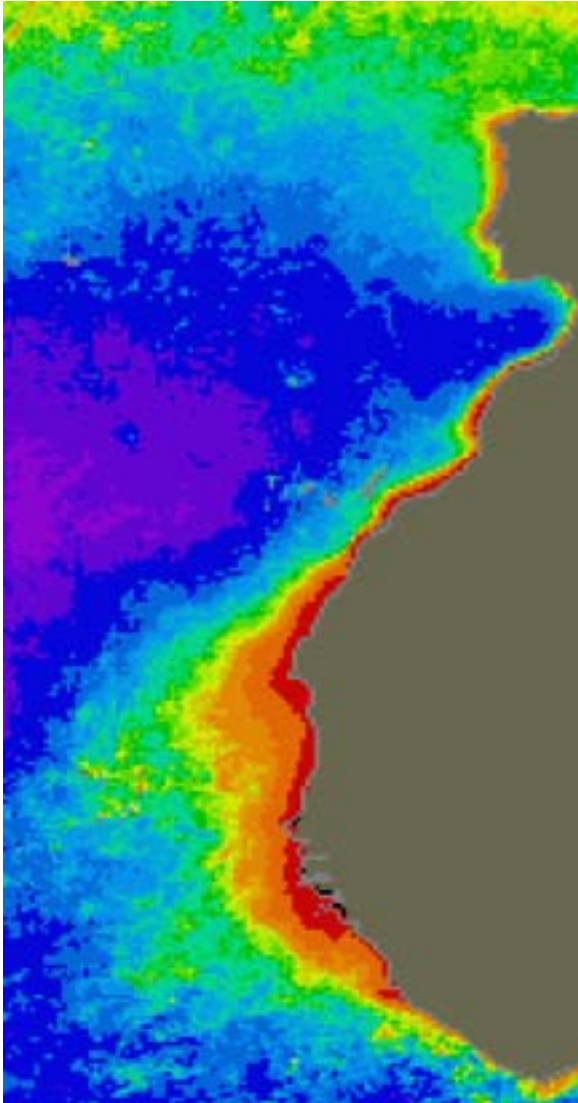


Objective: promote a coastal and oceanic observatories network in the Atlantic.

- Resources and tools developed at a local level seek
- Integration in a network that will optimize their dissemination and utilization in different fields of the Atlantic Arc:
 - Environmental and economic policies
 - Scientific development
 - Promotion of business activity



Strategic Research Programmes



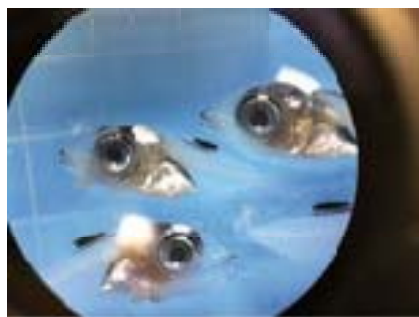
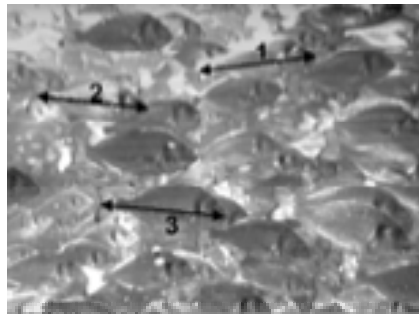
Past, present and future of the NW Iberian upwelling system

Objective: develop a knowledge based management of this ecosystem

- Evolution of the upwelling system in the past
- Study of its current situation
- Future evolution in the multiple climatic scenarios proposed by the IPCC

Strategic Research Programmes

Integrated studies and development of new technological processes for the culture of marine species:



- Harmful algae blooms and marine biotoxins
- Integrated studies on Nutrition, Pathology, Genetic, Physiology and Reproduction for the improvement of marine resources production
- Development of new technological processes for the culture of marine species with special emphasis on Mollusc hatchery technology
- Biotechnology applied to aquaculture
- Integration of Marine Energy in Aquaculture
- Development of multitrophic cultures.



Strategic Research Programmes

***Economics and social issues for management of aquaculture:
sustainability and environmental quality assessment:***

- Aquaculture economics
- Aquaculture social issues
- Environmental quality assessment of aquaculture



Sustainable Use and Management of Marine Resources Cluster: Research Lines

Research Fields	Resource Use and Management	Aquaculture	Transformation and Value
Research Lines	Implementation of ecosystem approach on assessment management and governance	Integrated studies and development of new technological processes for culture of marine species	Quality & Safety
	Technological Innovative approaches for resource assessment and management	Economics and social issues for management of aquaculture: sustainability and environmental quality assessment	New products from marine origin & New processing technologies
	Assessment and mitigation of the impact of marine resources exploitation	Marine ecology and extensive cultures	Health & Added value



Integrated Coastal Zone Management Cluster: Research Lines

Research Fields	Analysis and evaluation of the coastal environment	Coastal Planning	Coastal Management
Research Lines	Environmental and ecological analysis	Spatial planning of coastal and marine zones	Coastal protection, restoration and regeneration of littoral spaces
	Diagnosis and response of estuary ecosystems facing environmental changes	Integration of hydrological and marine planning	Public management of environmental impacts
	Quantification and Evaluation of Anthropogenic Influence	Sustainability of economic activity	Risk and responsibility: strategies and rights
		Marine and coastal environment governance	



R&D Clusters Programme: Fields of Research

Cluster	Ocean Observation & Global Change	Sustainable Use and Management of Marine Resources	Integrated Coastal Zone Management	Competitiveness: technological progress and business management
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Research Strategic Axis

NEW EMERGING LINES PROGRAMME:

- To develop new strategic research lines which will position Campus do Mar at the frontier of research on Ocean Science and Technology
- Not enough critical mass currently included in Campus do Mar's capabilities



Research Strategic Axis

ENERGY RESEARCH IN THE CONTEXT OF CAMPUS DO MAR

- **Marine energy** is a main topic within Campus do Mar. This research field is included as an New Emerging Line in our Research Strategic Axis, with the main goal of developing the following fields:
 - Marine biomass,
 - Saline and thermal gradient,
 - Wind power,
 - Tidal power and
 - Ocean currents.



Ocean Observation & Global Change

Cluster: Research Lines

Research Fields	Ocean Observation	Global Change: Observational, experimental and modeling approach
Research Lines	Pre-instrumental records: the ocean before the Anthropocene	Ocean Warming
	Observation Networks: From Genes to Space	Ocean Fertilization
	Technologies for the development of marine analytical techniques, sensors, platforms and vehicles	Ocean Acidification
	Operational oceanography	(Identification of) Social and economic risks of global change



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Integrated Coastal Zone Management Cluster:

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Competitiveness: technological progress and business management Cluster: Research Lines

Research Fields	Maritime transport, infrastructures, safety and security	Technologies for the marine industrial sector	Management of Economy
Research Lines	Intelligent and efficient offshore platforms and shipbuilding design	Sensing, data acquisition, analysis and understanding	Business competitiveness and sustainability
	Safety & security on board, ports and in maritime activities	Automation and robotics in industrial processes	Maritime and Port Logistics
	Communications and control in maritime activities	Sustainability and energy efficiency	Social and Economic Impact of Marine and Maritime Activities
	Design and Construction of Maritime Infrastructures	Telematic services	



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CAMPUS DO MAR

Knowledge in depth

CEI Management Unit:
Quality – Coordination – Connectivity



Research Excellence
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Internationalization

R&D Clusters

New Emerging
Lines

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Improving the
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Infrastructures

Technological
and Science
Culture and
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International
Post-Graduate
School

IMPROVING THE EFFICIENCY OF THE TRANSFER OF KNOWLEDGE TO THE PRODUCTIVE SECTOR

The **Campus do Mar** Technology Transfer Area has arisen to maximize the relationship between our network of research institutions and the sea-related industry.



PROMOTING ENTREPRENEURSHIP CULTURE



Emphasis placed on creation of technology based companies as a by-product of research.

Promotion of entrepreneurship culture

Transfer of technology and research results

LINKING MARINE RESEARCH TO THE ECONOMY OF SEA

Coordinated actions between the different transference agents of the aggregation aims at growing the commercial impact of the research results and technology.



CAMPUS DO MAR TECHNOLOGY TRANSFER



Stimulating the incorporation of students to the job markets providing them with tools to fill the gap between the education on sea disciplines and the practical application.

Students support

Development of international and multidisciplinary projects




Taking advantage of the powerful knowledge of research institutions and private sectors involved in the Campus do Mar. Approaching international technology markets through the development of multidisciplinary and cross-border innovation projects.

ENCOURAGING AND SUPPORTING EMPLOYMENT ON THE SEA SECTORS

INCREASING THE INTERNATIONAL APPROACH OF THE MARINE KNOWLEDGE

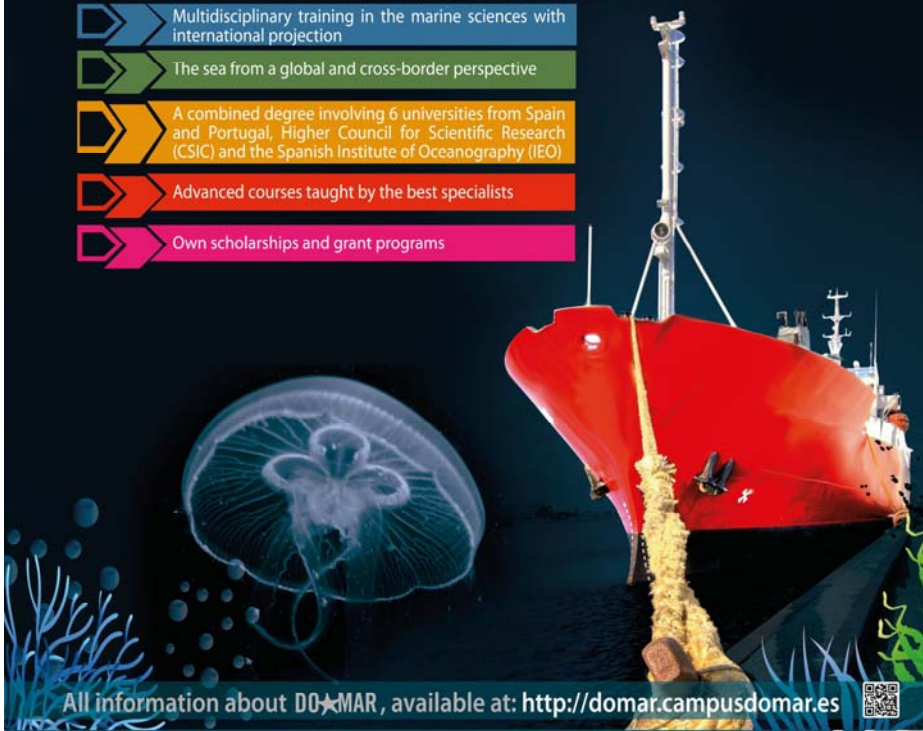
Um polo de excelência na formação



PHD IN MARINE SCIENCE, TECHNOLOGY AND MANAGEMENT

The mission is to train the best researchers and professionals within the scope of Marine Science, Technology and Management, in their several economic and social applications, to generate quality research and international impact and thereby provide the industry with the best tools to compete at world level.

- Multidisciplinary training in the marine sciences with international projection
- The sea from a global and cross-border perspective
- A combined degree involving 6 universities from Spain and Portugal, Higher Council for Scientific Research (CSIC) and the Spanish Institute of Oceanography (IEO)
- Advanced courses taught by the best specialists
- Own scholarships and grant programs



All information about DOMAR, available at: <http://domar.campusdomar.es>

www.campusdomar.com www.campusdomar.com www.campusdomar.com

DO★MAR

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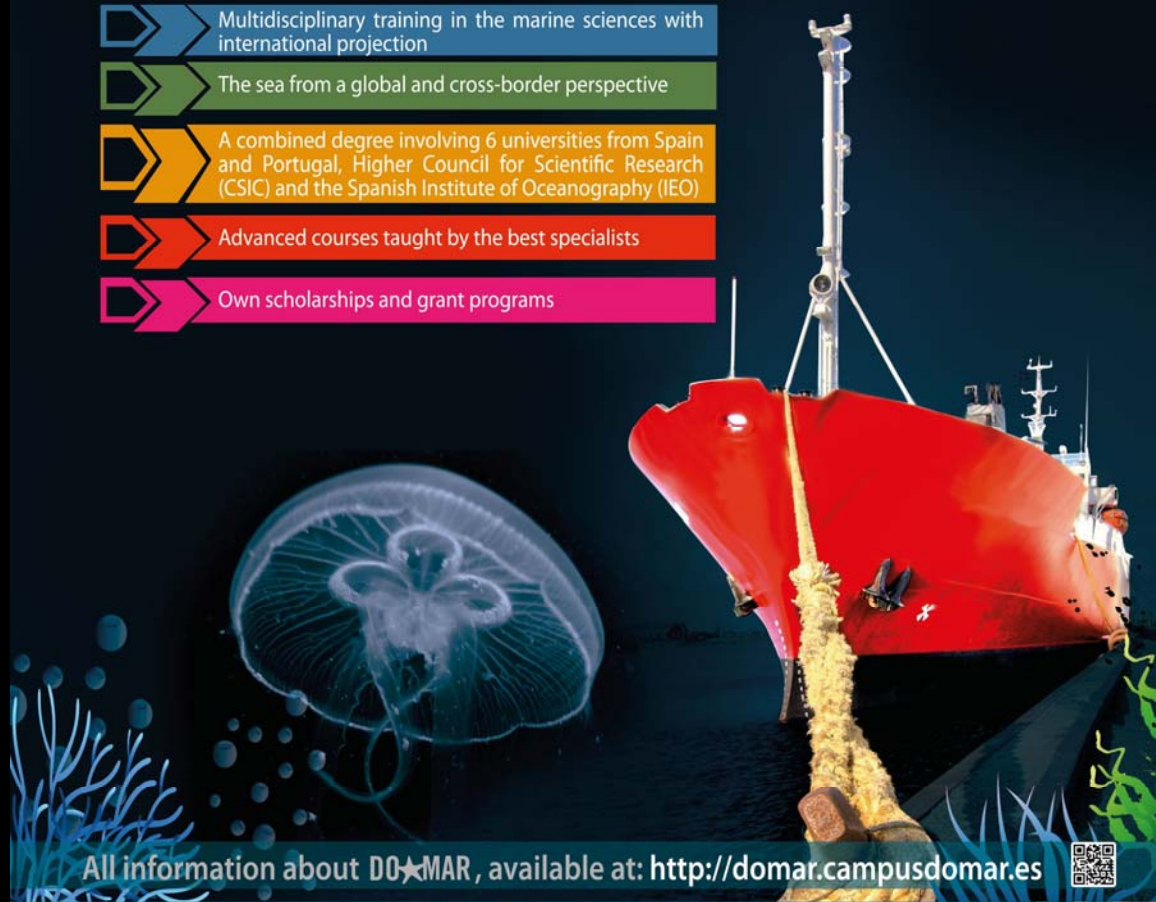
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www.campusdomar.com



Programa de Doutorado DO*MAR



- **136** estudantes de doutoramento
- **13** nacionalidades
- **446** potenciais orientadores de Teses
- **31** cursos avançados
- **60** bolsas de doutoramento

International Posgraduate Training in *Campus do Mar*

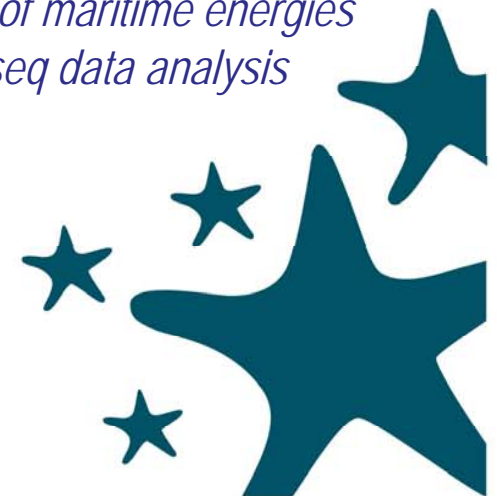
Masters

Aquaculture
Marine Biology
Oceanography
Fishery management
Seafood Technology
Marine Technology
Ocean Engineering
.....

Advance training courses

Ocean physics and global change
Global change, marine resources and biodiversity
Mineral and energetic resources of the ocean
Technical, financial and regulatory aspects of maritime energies
Omic technologies NGS, RNA-seq y ClhP-seq data analysis
.....

PhD Program *Do Mar*



International Posgraduate Training in *Campus do Mar*



International PhD Program in Marine Science, Technology and Management

- To attract the best national and international students and achieve a minimum of 30% foreign students in 2015.
- To increase the number of PhD theses in marine science, technology and management by 15%.
- To promote exchange of students, lecturers and researchers with other national and international universities



Four themes and 12 specialization areas to achieve a PhD program with a transversal orientation between research and teaching:

THEMES	SPECIALISATION AREA
Ocean observation and global change	Ocean Observation
	Global Change
Sustainable use of marine resources	Management and Use of Resources
	Aquaculture
	Transformation and Appreciation
Integrate management of the sea	Analysis and Environmental Assessment of the Coastal Zone
	Coastal Planning
	Coastal Protection and Maritime Safety: Engineering and Regulation
Technological progress, engineering and business management	Naval Technology & Systems
	Port Infrastructures, Management & Maritime Transport
	Management, Rights and Competitiveness
	Energy



Programa de Doutoramento DO*MAR



○ Global Change, Marine Resources and Biodiversity

- ⑩ Prof. Steven Morgan (University of California)
- ⑩ Prof. Steve Swearer (University of Melbourne)
- ⑩ Prof. Henrique Queiroga (University de Aveiro)

Programa de Dourotamento DO*MAR



○ Legal framework in the marine environment. Crime ocean: causes and consequences of the new forms of sea piracy

- Prof. Peter Lehr (University of St. Andrews. UK)
- Prof. M^a del Carmen Gómez (University of Seville)
- Prof. Patricia Faraldo (University of A Coruña)
- Prof. Raquel Castillejo (University of Santiago de Compostela)



Programa de Doutoramento DO*MAR



www.campusdomar.com

Formação de doutoramento: uma opção estratégica para a região Galiza-N de Portugal

- **Plan Investimentos Conjuntos Galiza-N de Portugal**
 - ***Eixo 1:*** Unha Euroregião inovadora que aposta pela investigação e a transferencia
 - ***Prioridade Estrategica 1:*** Consolidação e potenciação de polos de investigação que se incardinem na RIS3 da Euroregião.
 - ***Proxecto de Investimento 1.4:*** Programas conjuntos de Grado, Postgrado e Doutoramento

CAMPUS DO MAR

Knowledge in depth

CEI Management Unit:
Quality – Coordination – Connectivity



Research Excellence and Technology Transfer

Research

R&D Clusters

New Emerging
Lines

Recruitment

Technology Transfer

Transfer of
Technology and
Research Result

Fostering of
Entrepreneurial
Culture

Preprofessional
Practices

Teaching Excellence and Internationalization

Teaching

Quality of
Teaching

Training and
Educational
Innovation

New Teaching
Technologies

Internationalization

International
Promotion

Wellcoming

Mobility

Cooperation for
Development

International
Post-Graduate
School

Campus Transformation

Sustainability

Improving the
Quality Life

Infrastructures

Technological
and Science
Culture and
Society

Um polo de excelência ao nível internacional



INTERNATIONALISATION STRATEGY



62.000 Km
around
the world to establish
new alliances

INTERNATIONAL COOPERATION PROJECTS



Transferring teaching and research
capacity to the developing countries



CONTACT WITH INTERNATIONAL REFERENCE INSTITUTIONS

Campus do Mar
researchers works
with the most
outstanding
marine centres
in the world

www.campusdomar.com



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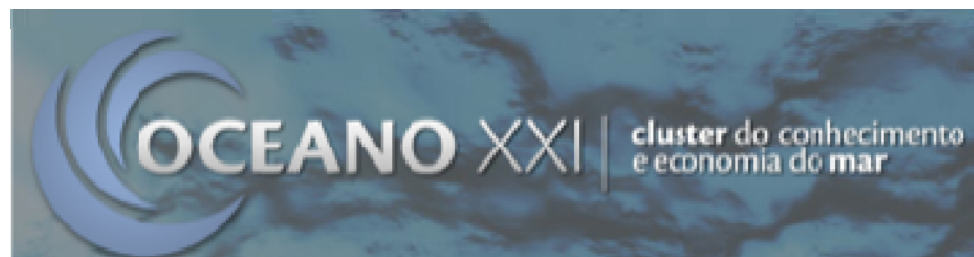
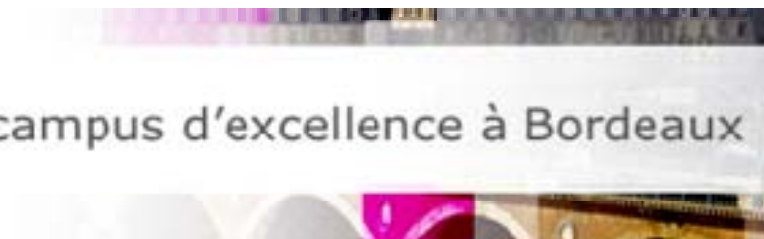


Marine Alliance for
Science and Technology for Scotland



UNIVERSITÉ DE
BORDEAUX

Un campus d'excellence à Bordeaux



Irish Maritime and Energy Resource Cluster
imerc



INTERNATIONALISATION STRATEGY



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Campus do Mar e China: International Association of Marine-related Institutions (IAMRI)



[For Students](#) | [For Staff](#) | [For Alumni](#) | [For Guests](#) | [Chinese](#) | [Sitemap](#)

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[Academics](#)

[Research](#)

[Faculties](#)

[International](#)

[Service & Support](#)



Public Events

- | | |
|-----------|--|
| Oct
10 | The 90th Anniversary of OUC
Announcement No.2 |
| Mar
13 | The 90th Anniversary of OUC
13.03.2014 |
| Sep
29 | English Teachers Wanted
29.09.2014 |

News



Consul General of ROK Visits OUC

Prof. Yu Zhigang, President of Ocean University of China (OUC), met with Mr. Hwang Seung-hyun, Consul General of Consulate General of the Republic of Korea in Qingdao at OUC on September 12, 2014 to discuss further areas of collaboration between Korea and the university.

2014-09-23

[MCTI Makes Great Progress in the Research of MeHg Cycling](#)

www.campusdomar.com



INTERNATIONALISATION STRATEGY



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outstanding
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Cooperation for development programme



Promozao exterior: uma opçro estratŕgica para a Eurorregiao Galiza-N de Portugal

○ Plan Investimentos Conjuntos Galiza-N de Portugal

○ **Eixo 2:** Unha Euroregião competitiva que aposta pelo emprego

○ **Prioridade Estratŕgica 4:** Fomento da internacionalização económica da Euroregião.

○ **Proxecto de Investimento 4.3:** Programa coordinado de promoção exterior da Euroregião.

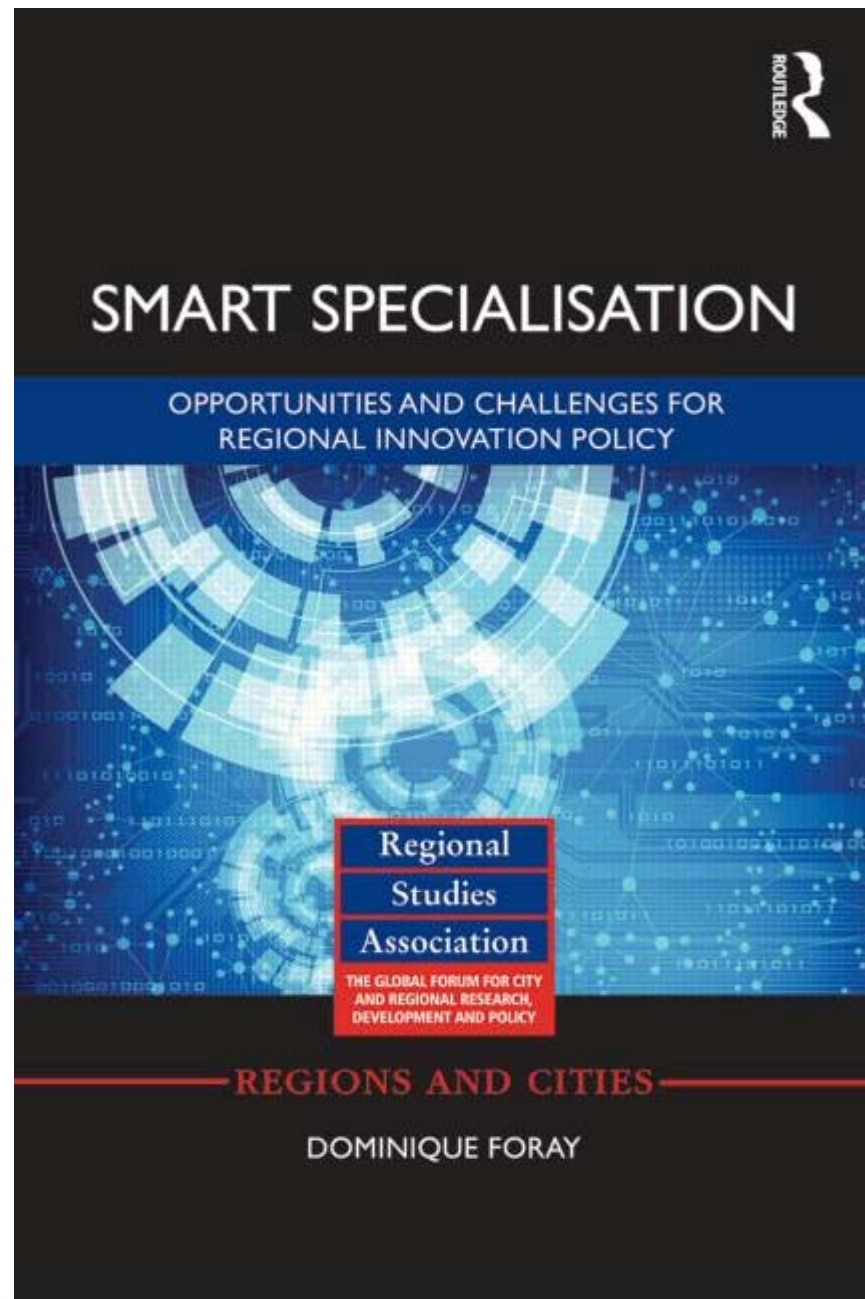
Internationalization DO*MAR PhD programme



Internationalization Strategic Axis

- International mobility programme to foster interaction to research institutions of excellence
- Specific research teaching and cooperation programme with China, Mexico, Brasil and Chile
- Programme for the cooperation with developing countries: Cabo Verde and Central America





SMART SPECIALISATION

OPPORTUNITIES AND CHALLENGES FOR
REGIONAL INNOVATION POLICY

DOMINIQUE FORAY

Fisheries and the canning industry in Galicia, Spain, are again not a *smart* specialisation, even if this sector is economically important in this region. However, the creation of a university in Vigo (*Campus do Mar*) to develop applied science and technological solutions to improve the operational efficiency of traditional fisheries can drive some kind of smart specialisation if a population of firms specialising in the development of these solutions emerges and grows from the merging of the traditional sector and certain applied science domains (bioengineering, chemical engineering, ICT).

new technological infrastructure with the needs and capacities of firms. If we return to the example of Galicia, the *Campus do Mar* in Vigo, Spain, will only be able to trigger the development of new specialities to transform traditional sectors (fisheries and canning) if a sufficient number of firms in these sectors link up with the new university to collectively develop innovative solutions for the modernisation and diversification of the sectors concerned. In other words, the establishment of the knowledge infrastructure must be completed through the organisation of coordination between the latter and industry. This coordination can take the form of programmes to improve the absorption and learning capacities of firms in the sector or plans for supporting the creation of firms specialised in the development of technological solutions at the interface between *campus* and industry. I am talking here about well-known problems – knowledge and technology transfers.

Um polo de transferencia e emprendedorismo

Foros sectoriais de transferencia

- Sector pesca
- Sector aquacultura
- Sector TIC
- Sector Metal
- Sector Logística portuaria
- Energías renovábeis marinhas

Um polo de transferencia e emprendedorismo

- 45 estudantes de grado e postgrado
- 10 ideas de negocio no ámbito marinho
 - Aquicultura
 - Novos produtos do mar
 - Turismo
 - Consultoría





**MARINE BUSINESS
MENTORING
AND COACHING**

**FORMACIÓN Y ASESORAMIENTO
PARA EL EMPRENDIMIENTO
MARINO**

Seo de Fisterra e Ría de Muros-Nola FLAG

Grupo de Acción Costeira Seo de Fisterra Ría de Muros-Nola



Quiñ y o que y EMPREAMAR?

*Unión da experiencia de um grupo de acción costeira com o
conhecimento gerado no Campus de Excelência*



Framework...Why?



- The marine sector needs to diversify its activities and to foster competitiveness and sustainable development of the fishing areas (EFF priority area)
- Spanish economic crisis-> High rates of unemployment (women and young people)
- Lack of integrative programmes promoting marine entrepreneurship: Capacity building + Mentoring + Granting

O que é EMPREAMAR?

A PATH TO THE MARKET

1

**Entrepreneurship specialized
training
and business mentoring**

30 participants
8 business projects



2

**Contact with successful
entrepreneurs and visits to other
EFF funded enterprises**

4 successful experiences
visited



3

**Personalized business coaching
and business incubators
phase**

6 marine initiatives
in incubation



Results :EMPREAMAR in numbers

60 hours of entrepreneurship training

30 people trained

8 business projects coached

4 visits to other EFF funded initiatives

6 marine business in incubation

2 enterprise already implemented

EMPREAMAR son pessoas

ALBA QUINTELA 29 years, B. Marine Sciences. Unemployed

'Empreamar means to me learning and organization of daily work and ideas. It also means moral support and real help with all requested docs to start up my business...'



SHRIMP AQUACULTURE

ABEL OUTÓN 34 years. Shelfishgatherer

'Empreamar, a tool to diversify my career towards my own maritime business...'



AIRES DE SÁLVORA

PABLO SANTOS 31 years, Aquaculture Technician.
Fish farmer

'Empreamar... light towards entrepreneurship...'



ALGAE FARMING

CARMEN SÁNCHEZ 50 years. Self-employed

'Be part of Empreamar gives me a new work vision and prospection that I would have never reach by myself...'



GALURIÑA

EMPREAMAR son pessoas

VERÓNICA MANEIRO 35 years, Biologist. Unemployed
CRISTINA MAYÁN 34 years, Industrial Eng. Unemployed

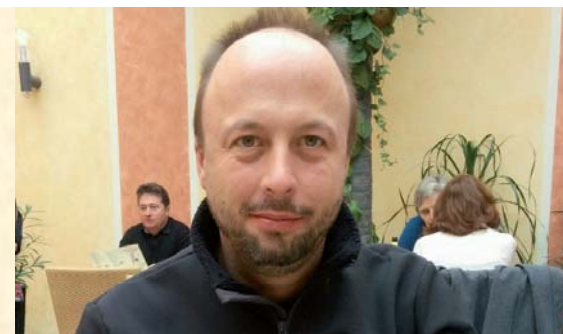
'Training on business creation that opened us a window of the future...'



DUTERMA

HANNO GALLINGER 39 years, Agronomous Eng. Self-employed

'Empreamar let me take essential decisions for the development of a business...'



SMOKED SEAFOOD

LUIS GARCÍA 35 years, Naval Engineer. Unemployed

'Empreamar means my definitive chance to channel the entrepreneur fever that jumps into many of us nowadays...'



BIVALVES FARMING

MARÍA J. TRILLO 45 years, Tech. in Administration

'A training programme like Empreamar should be mandatory for every entrepreneur...'



MERCAMARIS

Transferencia e empreendedorismo: uma opção estratégica para a Euroregião Galiza-N de Portugal

- Plan Investimentos Conjuntos Galiza-N de Portugal
 - **Eixo 2:** Unha Euroregião competitiva que aposta pelo emprego
 - **Prioridade Estratégica 3:** Conversão da Euroregião em um território atractivo para o investimento productivo.
 - **Projecto de Investimento 3.2:** Promoção de viveiros de empresas e de spin-off, ..., nas áreas de baixa densidade demográfica
 - **Projecto de Investimento 3.3:** Programa de apoio ao empreendimento da população joven

As barreiras para a consolidação e o desenvolvimento do sistema de I+D

Barreiras internas

- Fragmentação institucional
- Partilha da visibilidade
- Localismo intraregional
- Dificuldade para uma projecção exterior conjunta

As barreiras para a consolidação e o desenvolvimento do sistema de I+D

Barreiras externas

- Necessidade de impulso governamental
- Volubilidade do apoio governamental
- Assimetrias nos apoios governamentais
- Incompatibilidades normativas transfronteiras

O futuro prximo

- Elaboração de projectos conjuntos aproveitando o financiamento transfronteirizo
- Reforço do Programa de Doutoramento DO*MAR
- Consolidação da posição internacional
- Posta en marcha de um programa conjunto de transferência de conhecimento, empreendimento e fomento da criação de spin-off no âmbito marinho

O futuro a meio-longo prazo

- Necessidade de uma **unidade** conjunta de referência com ...
 - **Investigação** em temas com capacidade de absorção pela indústria regional e/ou com potencialidade de desenvolvimento
 - **Formação de pós-graduação**: mestrado e doutoramento
 - Formação em **empreendedorismo** e geração de spin-offs

O futuro a meio-longo prazo

O modelo do “German Marine Research Consortium” da Alemanha



O futuro a meio-longo prazo

O modelo do “National Oceanography Center” do Reino Unido



**National
Oceanography Centre**

NATURAL ENVIRONMENT RESEARCH COUNCIL



EMPREAMAR: promoting new business initiatives in the marine sector



Marine employment site



Job Offers

Search

-- Area -- International -- Qualification --

-- Contract -- -- Dedication --

Show All (87 job offers)

Last offers



Jobs found

Results: 10/72

Job offers	Company	Location	Application deadline
PhD and MSc Student Fellowships – Reef Ecology	King Abdullah University of Science and Technology (KAUST)	Arabia Saudi	
Director, Tennenbaum Marine Observatories	Smithsonian Institution (EEUU)	Washington, DC , EEUU	
Postdoctoral Researcher in Marine Microbiology and Biogeochemistry	Marine Biological Association of the UK (Reino Unido)	Plymouth, Reino Unido	

MARJOB
CAMPUS DO MAR EMPLOYMENT SITE

**+900 ofertas de empleo
nacionales e internacionales
publicadas**

**+ 55000 visitas
Desde el 1 marzo 2013**

CAMPUS DO MAR

Knowledge in depth

CEI Management Unit:
Quality – Coordination – Connectivity



Research Excellence and Technology Transfer

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Teaching and Internationalization Axis

INTERNATIONAL POSGRADUATE SCHOOL

- An institutional offer, transboundary, flexible to bet on the strengths of the Campus do Mar
- A professionalizing master offer designed for students
- A PhD offer in line with R&D “Clusters” defined
- An offer that seek to develop joint educational programmes between universities of the aggregation and other foreign universities
- A reference offer for continuous educational training for professionals of the business sectors related to the sea



Financial Support

Masters

Campus do Mar

- ✦ 10 scholarships
- ✦ 11 months
- ✦ 750€ month
- ✦ 1800 € registration fees

Submission: July

Advance training courses

Campus do Mar

- ✦ Partly supported

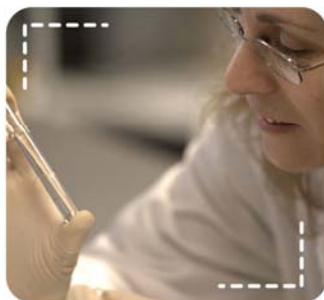
PhD Program *Do Mar*

Campus do Mar-Xunta de Galicia

- ✦ 12 scholarships
- ✦ 3 years
- ✦ 22.000 €/year

Submission: July-August





TALENT ATTRACTION, INVESTEMENT IN HUMAN CAPITAL FOR MARINE RESEARCH

Objective: to increase the levels of Scientific Excellence, to improve the existing research lines and to open new ones through talent recruitment throughout all the research career stages.



PRE-UNIVERSITY STAGE



YOUNG TALENT RECRUITMENT

Promotion of scientific vocations among pre-university students.



SUMMER SCIENCE CAMP

Summer stays in which outstanding secondary school students participate in scientific dissemination projects.

PRE-DOCTORAL STAGE



MASTER SCHOLARSHIPS

Financing for marine and maritime Master studies.



PRE-DOCTORAL CONTRACTS

12 three-year contracts for pre-doctoral researches in order to do their training within the Do*Mar PhD program.

POST-DOCTORAL STAGE



JUNIOR POSTDOCTORAL CONTRACTS

2-year contracts for 14 junior doctors in order to do their post-doctoral training at Campus do Mar.



FELLOW★SEA
CAMPUS DO MAR INTERNATIONAL FELLOWSHIP PROGRAM

FELLOWSEA PROGRAM

2,200,000 € in order to incorporate to the Campus do Mar during 3 years 10 foreign researchers with post-doctoral experience.

Action co-financed by the FP7 - Marie Curie Actions - COFUND. Currently under negotiation.

Campus do Mar: International Conference Programme



Campus do Mar Conferences

Monday, april 12th - 11:00 CET

Efficiency Advantages of Grandfathering in Rights-Based Fisheries Management



Gary Libecap

University of California, Santa Barbara (USA)

Gary Libecap is Donald Bren Distinguished Professor of Corporate Environmental Management in the Donald Bren School of Environmental Science & Management and Professor of Economics at the University of California, Santa Barbara.

He also is Research Associate at the National Bureau of Economic Research in Cambridge, MA., the Sherm and Marge Telleen Research Fellow at the Hoover Institution, Stanford University, and Senior Fellow at the Property and Environment Research Center, PERC, Bozeman, Montana. He received his PhD from the University of Pennsylvania and a BA from the University of Montana. He has been president of the Economic History Association, the Western Economics Association International, and the International Society for the New Institutional Economics.

His research focuses on the role of property rights institutions in addressing the "Tragedy of the Commons." Current research addresses the demarcation of land, water rights and water markets for water allocation and management, and use of rights-based arrangements in fisheries.

Tuesday, april 12th - 12:00 CET

Economic Impacts of Global Warming on Fisheries



Ragnar Arnason

University of Iceland

Ragnar Arnason is a professor of fisheries economics at the University of Iceland. He is currently the chairman of the Institute of Economic Studies at the University of Iceland. He sits on the board of several companies and organizations including the Danish FIH bank, the Icelandic Central Bank and IIFET.

Professor Arnason has advised the Icelandic government extensively on fisheries and other matters and was instrumental in developing the country's ITQ system in the 1980s. He has also provided advice on fisheries management and environmental issues to the governments of several countries in Europe, America, Africa and Asia in a private capacity or working for the World Bank, FAO and ICEIDA.

Since becoming a professor in fisheries economics in 1989, professor Arnason has primarily conducted his research in the area of fisheries economics and fisheries management where he has an extensive publication record with over 150 scientific articles and several books to his name. He most recent research has been in the area of community fisheries management fisheries rents, fisheries rents loss and fisheries enforcement.



Follow the conferences live on <http://tv.campusdomar.es>



Campus do Mar: International Conference Programme

Campus do Mar Conferences

The Prospects for Wave Energy in Ireland and the Role of Numerical Modelling in its Development

Wednesday, June 8th - 12:00 (CET)
live on campusdomar TV

Marcel Cure

Numerics Warehouse Ltd. (Ireland)

Numerical modelling has a part to play in many aspects of the development of wave energy. The most obvious use is for resource assessment to provide both utilities and design engineers with the information they require. Other uses are to predict extreme waves, calm weather windows, sediment movement and its consequences for moorings, intermittency of power availability and site selection. Together with the modelling of offshore wind power and tidal power, the complimentary use of offshore renewable energy can be predicted as an input to the national grid. The affect of entire wave farms on the wave energy will need enhancements to numerical models to include feedback to devices, but is a goal.

Numerics Warehouse works with the stakeholders in Ireland and elsewhere to provide numerical model solutions to some of these questions. In this way the company as a partner can reduce many of the risks associated with the roll out of wave energy.

The talk will present the state of play of wave energy in Ireland and the work and R&D being conducted by Numerics Warehouse in addressing some of the issues faced by the industry.

8
JUN

12:00



WEB TV

How to follow the conference

You can watch the Campus do Mar conferences live everywhere you are through Internet, just connect to:

<http://tv.campusdomar.es>



<http://tv.campusdomar.es>



Rights and Tenure in Fisheries Targeting Seabed Resources

24/07/2012

José M. "Lobo" Orensanz
National Patagonian Centre. Puerto Madryn, Argentina

[+ Info](#)



Transcriptomic and genomic studies in atlantic salmon- linking disease problems and productive applications in aquaculture

25/06/2012

Rodrigo Vidal
University of Santiago de Chile

[+ Info](#)



Bivalves as hydraulic ecosystem engineers versus wimps of the flat

6/06/2012

Sally Woodin
University of South Carolina, USA

[+ Info](#)



Extreme events and the biogeography of range boundaries in the European intertidal

6/06/2012

David Wethey
University of South Carolina, USA

[+ info](#)



Impacts of Fisheries and Global Warming on Marine Ecosystems

24/05/2012

Daniel Pauly
University of British Columbia

[+ info](#)



"Determination of Toxins involved in ciguatera and related seafood toxins"

21/05/2012

Takeshi Yasumoto
Okinawa Institute of Science and Technology

[+ info](#)



Deepwater sedimentary systems: new advances and current trends

27/03/2012

Dorrik Stow
Heriot-Watt University – Edinburg (Scotland)

[+ info](#)



Aquatic microbial ecology through the lens of high-throughput DNA/RNA sequencing

20/02/2012

Ramiro Logares
ICM _ CSIC

[+ info](#)



Persistent organic pollutants in the marine environment - Trends in known and emerging compounds

6/02/2012

10 de febrero

Jacob de Boer
VU University (The Netherlands)

[+ info](#)





Variability in the subtropical circulation of the Atlantic Ocean

16/11/2011

Harry Bryden
Universidad de Southampton

[+ info](#)



Into the deep: epibenthic communities on the continental slope of Atlantic Canada

25/10/2011

ANNA METAXAS
Dalhousie University (Canada)

[+ info](#)



Marine primary production in relation to climate variability and global change

11/10/2011

Francisco Chávez
Monterey Bay Aquarium Research Institute (USA)

[+ info](#)



Stacking ecosystem services in the Panama Canal watershed

12/09/2011

Charles Perrings
Arizona State University (USA)

[+ info](#)



The Prospects for Wave Energy in Ireland and the Role of Numerical Modelling in its Development

8/06/2011

Marcel Cure
Numerics Warehouse Ltd. (Ireland)

[+ info](#)



Everything is good in fish

18/05/2011

Jean Pascal Bergé
IFREMER (France)

[+ info](#)



Multi-Carrier Acoustic Underwater Communications

29/03/2011

Geert Leus
Delft University of Technology (Holanda)

[+ info](#)



Ocean acidification: life in a high CO₂ world

24/02/2011

Débora Iglesias Rodríguez
National Oceanography Centre, Southampton (UK)

[+ info](#)



Underwater Wireless (Acoustic) Communications


8/10/2010


Milica Stojanovic
Northeastern University (USA)


[+ info](#)

Digital Campus do Mar: Web TV

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**CAMPUS DO MAR**
KNOWLEDGE IN DEPTH

**WEB TV**

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- [Press Area](#)
- [Recorded Lectures](#)

Media library

- 58 Series
- 409 Videos
- 327.99 Hours

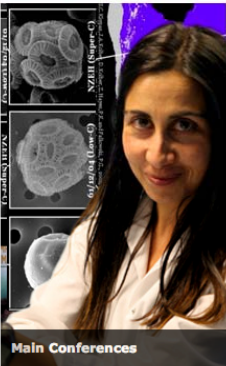
Upcoming live events


No scheduled broadcast.


Contact

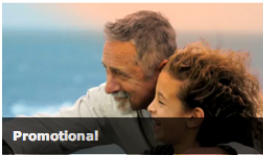
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FEATURED VIDEOS

**Main Conferences**


**Lectures**

**Project Support**

**Promotional**


**Press Area**

Last added

**Aquatic microbial ecology through the lens of high-throughput DNA/RNA sequencing**


Aquatic microbial ecology through...

23/02/2012 Viewed:116 times

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Persistent organic pollutants...


10/02/2012 Viewed:107 times

**Participation, Compliance and Enforcement in the Governance of Coastal and Marine Ecosystems**

Participation, Compliance and...


30/01/2012 Viewed:343 times

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**Interviews summary: R+D Group of the Campus do Mar**

Interviews: R+D Group of the...

08/10/2010 Viewed:1844 times



Knowledge Transfer Strategic Axis

- Team of Innovation Managers to increase the efficiency of knowledge transfer through the intensification of specialized structures, coordination, networking and articulation structures
- Programme to foster entrepreneurial culture among students and researchers



CAMPUS DO MAR

Knowledge in depth

CEI Management Unit:
Quality – Coordination – Connectivity



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Development

International
Post-Graduate
School

Campus Transformation

Sustainability

Improving the
Quality Life

Infrastructures

Technological
and Science
Culture and
Society

Summer Schools for young scientists





Dive in with Campus do Mar

Streets and squares of the Euro-Region turned into small laboratories of marine research.



Campus do Mar at the beach

Experiments of Marine Sciences and Technologies at the beach.



Dissemination on board

Campus do Mar got on board of Santa María Manuela to make the researchers' works known to the society.

CAMPUS DO MAR

Knowledge in depth



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International
Graduate School

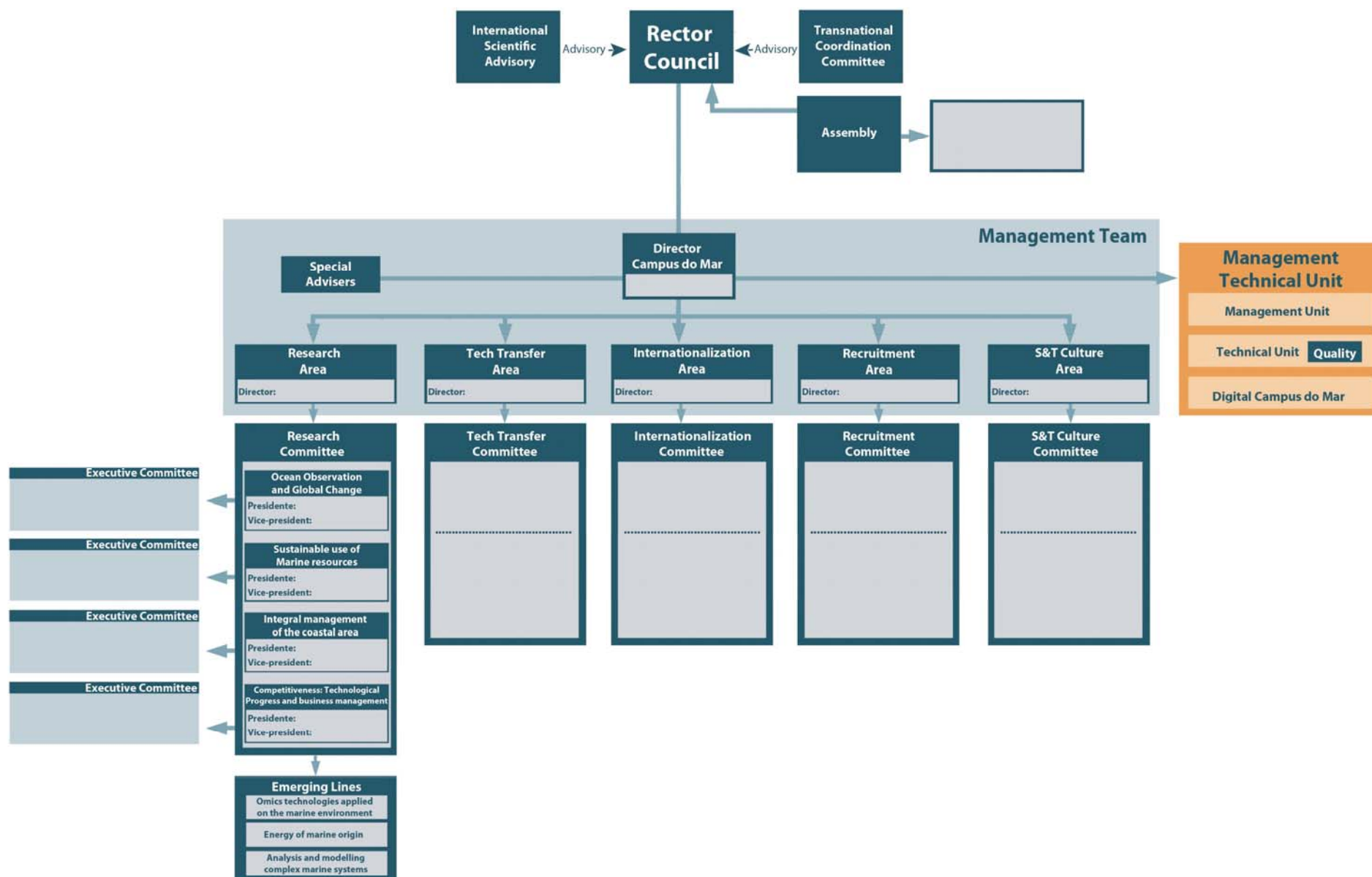
Campus
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Society



Digital Campus do Mar

- To ensure the **connectivity** of Campus do Mar
- Intracampus and international **Virtual Teaching**
- Creation of **Campus do Mar WebTV**
 - **Conferences and seminars** with simultaneous access to real time
 - Live broadcast of PhD dissertations, congresses, etc.
 - Creation of **videolibrary** of Campus do Mar
- Creation of the Campus **social network**



CAMPUS DO MAR - DIGITAL CAMPUS

DIGITAL SPACES TO INVESTIGATE AND LEARN TOGETHER

DIGIMAR provides a series of digital services that allow scientists, professors and students at the **Campus do Mar** to investigate together and to learn together.

DIGIMAR SERVICES



WebTV AND CAMPUS DO MAR VIDEO LIBRARY

Where conferences, congresses and other audiovisual products are live-streamed and stored.



DOCUMENTARY E-COLLABORATION

Allow users to rely on a "digital space" in which to manage projects, share and store documents and big data.



AUDIOVISUAL E-COLLABORATION

Advanced Videoconference to conduct meetings and teaching actions.



CAMPUS DO MAR TELEVISION

+ 800 hours of open scientific and educational video online
<http://tv.campusdomar.es>



DIVE WITH US

Connecting with society through the social media



AT THE FOREFRONT OF THE EDUCATIONAL AUDIO AND VIDEO CONTENT

Campus do Mar Digital Campus works in close cooperation with key worldwide institutions in the field of educational audio and video content to develop IT tools to improve the connectivity among the members of the consortium. Digital Campus provides a virtual environment in which learning processes and research collaborations take place in spite of space barriers and geographical distances.

Currently, Campus do Mar is involved in the following projects and boards:





Transforming the planet into an ocean, from the Galicia-North Portugal Euroregion



HIGHLIGHTS

Possibility of web storage and dissemination of PhD theses

This service aims at maximising impact and providing greater public access. Such service is free for the entire research community linked to the Campus do Mar.

FORTHCOMING EVENTS

No events

TOP NEWS



Campus do Mar cierra su primera singladura en busca de socios internacionales

Tras las visitas a Brasil, China y México se consiguieron importantes acuerdos en movilidad de investigadores y en el reconocimiento de los posgrados



LATEST NEWS



Campus do Mar lays foundations for intense collaborations with Mexican institutions

Representatives from the Campus do Mar visited México this week to present the Excellence project



The Faculty of Fine Arts seeks inspiration at great depths

Through a meeting in San Simon Island in which it will be presenting the "Baliza Project" within the framework of the Campus do Mar

FACILITIES

- Curso "Comunicación en el aula: aprender para enseñar"
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WEB TV

www.campusdomar.es

Campus de Excelencia Internaci



CAMPUS DO MAR

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Organización
Campus do Mar – Knowledge in Depth



3.031



3

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Escribe algo....

Campus do Mar compartió un enlace.
Hace 10 horas

ÚLTIMAS PRAZAS NOS CURSOS DO CAMPUS DO MAR
– Comunicación na aula: Aprender para ensinar:
http://campusdomar.es/?page_id=2327&lang=gl
– Inglés para investigadores e docentes:
http://campusdomar.es/?page_id=2342&lang=gl

Inglés para investigadores do Campus do Mar | Campus do Mar
campusdomar.es

104 amigos
indicaron que les gusta Campus do Mar



+95

Publicaciones recientes de otras personas en Campus do MarVer todos

**Elena Couñago**

Hola a tod@s: Os dejamos el enlace del curso "Estu...
30 de abril a la(s) 20:56

**Un Mar de Química**

En exclusiva el vídeo de la Open Ceremony del con...
2 · 25 de abril a la(s) 20:07

Más publicaciones ▾





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@campusdomar Galicia e Norte de Portugal

Campus do Mar é unha proposta que aglutina intereses docentes, económicos e sociais para xerar un ecosistema de coñecemento no ámbito mariño.

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Os catro ex-reitores embárcanse na singradura do Campus do Mar <http://dlvr.it/XMdRf>

hace 5 horas



campusdomar Campus do Mar

O Campus do Mar e China queren camiñar da man no século dos océanos. bit.ly/IU9L12

hace 5 horas



vozvigo La Voz de Vigo  por [campusdomar](#)

Los cuatro ex rectores de la Universidad de Vigo dirigirán la estrategia del Campus do Mar <http://bit.ly/Wfxn3>

hace 7 horas



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Campus do Mar na Praia en [@Farodevigo bit.ly/kGB3F](http://bit.ly/kGB3F)

hace 13 horas

Sigue a Campus do Mar en Twitter

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IN BRAZIL, MEXICO AND CHINA



**4 RESEARCHERS
FROM CAPE VERDE**



UNDER TRAINING AT THE CAMPUS DO
MAR THANKS TO AN INTERNATIONAL
COOPERATION PROJECT

35 SCHOLARS

STUDYING FOR MARINE MASTER'S
DEGREE PROGRAM FINANCED BY
THE CAMPUS DO MAR



CAMPUS DO MAR

KNOWLEDGE IN DEPTH

**10 POSTDOCTORATE
RESEARCHERS**

STAY OVER 48 MONTHS AT
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AND MOBILITY GRANTS FOR RESEARCH,
ORGANISATION OF IMPACT MEETINGS AND
DRAFTING OF INTERNATIONAL PROJECTS



21.000


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The sea in all its width


An invitation to mankind to study all the fields of knowledge related to the sea.

HIGHLIGHTS



The Marine Science, Technology and Management PhD program will start in the academic year 2013-2013
— MORE INFORMATION

TOP NEWS



Representatives from the Ocean University of China visit the Campus do Mar

The relationship between the Campus do Mar and the Ocean University commenced in June this year with the visit of Mr. Emilio Fernández and Mr. Alberto G. Gerde to China

UPCOMING EVENTS

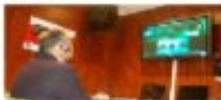
5 Sep

ASUSPSC 2013 18:00

6 Sep


Thor Fossen Conference 12:00

LATEST NEWS




Campus do Mar strengthens its transoceanic links

By signing an agreement with the Organisation of the Fish & Aquaculture Sector of the Central American Isthmus



12 Xunta de Galicia PhD grants destined for the Campus do Mar

The selection for appointment will be on 24th August, 2014



"Campus do Mar is an example to follow; it fosters cross-border scientific collaboration, and the sharing of knowledge and know-how"

Interview with Maria R. Cunha — Researcher and professor at University of Aveiro

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Variability in the subtropical circulation of the Atlantic Ocean

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Oportunidades de especialização da frente Atlântica

Emilio Fernández
Director do Campus do Mar



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Foro Marítimo do Eixo Atlântico - Viana do Castelo, 25 de marzo de 2015