

CAMPUS **SUL**

ASSOCIAÇÃO
INTERUNIVERSITÁRIA
DO SUL

Introdução/Introduction



Com esta brochura apresenta-se o Consórcio Campus Sul, bem como a oferta formativa conjunta, projectos de investigação e infraestruturas de apoio à inovação que já sustentam a parceria entre as universidades associadas. O estabelecimento deste consórcio serve de “rampa de lançamento” para novas formações, projectos e infraestruturas de inovação, contribuindo para um desenvolvimento integrado em áreas relevantes no domínio social, cultural e económico nas regiões do Sul de Portugal.

With this brochure we present the South Campus Consortium, as well as the joint training programs, research projects and innovation-driven infrastructure that already support the partnership between the member universities. The foundation of this consortium serves as a “launch pad” for new training, projects and innovation infrastructures, thus contributing to an integrated development in relevant areas in the social, cultural and economic domains in the southern regions of Portugal.

Índice/Index

1/CONTEXTO

2/O QUE É O CAMPUS SUL?

2.1 Programas de Capacitação	8
2.2 Centros de Conhecimento Aplicado e Inovação para a Sustentabilidade	10
2.2.1. CITY21 Centro de Conhecimento para as Cidades e Comunidades Sustentáveis	14
2.2.2. MASSA Centro de Conhecimento para a Modernização Agrícola Sustentável e Segurança Alimentar	15
2.2.3. SAGRES Centro para o Crescimento Azul e Conservação da Biodiversidade do Meio Marinho	17
2.2.4. SPHERA Centro de Conhecimento para o Património, Arte e Cultura	18

3/FORMAÇÃO

3.1 Mestrados	22
3.2 Programas Doutoriais	28
3.3 Outros Programas de Formação	33

4/INVESTIGAÇÃO

4.1 Factos Rápidos	38
4.2 Projetos	39
4.3 Unidades de Investigação e Desenvolvimento	53
4.4 Laboratórios Associados	63

5/INOVAÇÃO

4/CONTEXT

2/WHAT IS THE SOUTH CAMPUS?

6	<i>2.1 Capacity Building Programs</i>	8
	<i>2.2 Centers for Applied Knowledge and Innovation for Sustainability</i>	10
	<i>2.2.1. CITY21 / Knowledge Center for Sustainable Cities and Communities</i>	14
	<i>2.2.2. MASSA / Knowledge Center for Sustainable Agricultural Modernization and Food Security</i>	15
	<i>2.2.3. SAGRES / SeA center for blue Growth and conservation of marine biodiversity</i>	17
	<i>2.2.4. SPHERA / Southwest Park for Heritage and ARTS</i>	18

3/TRAINING

20	<i>3.1 Master Programs</i>	22
	<i>3.2 Doctoral Programs</i>	28
	<i>3.3 Other Training Programs</i>	33

4/RESEARCH

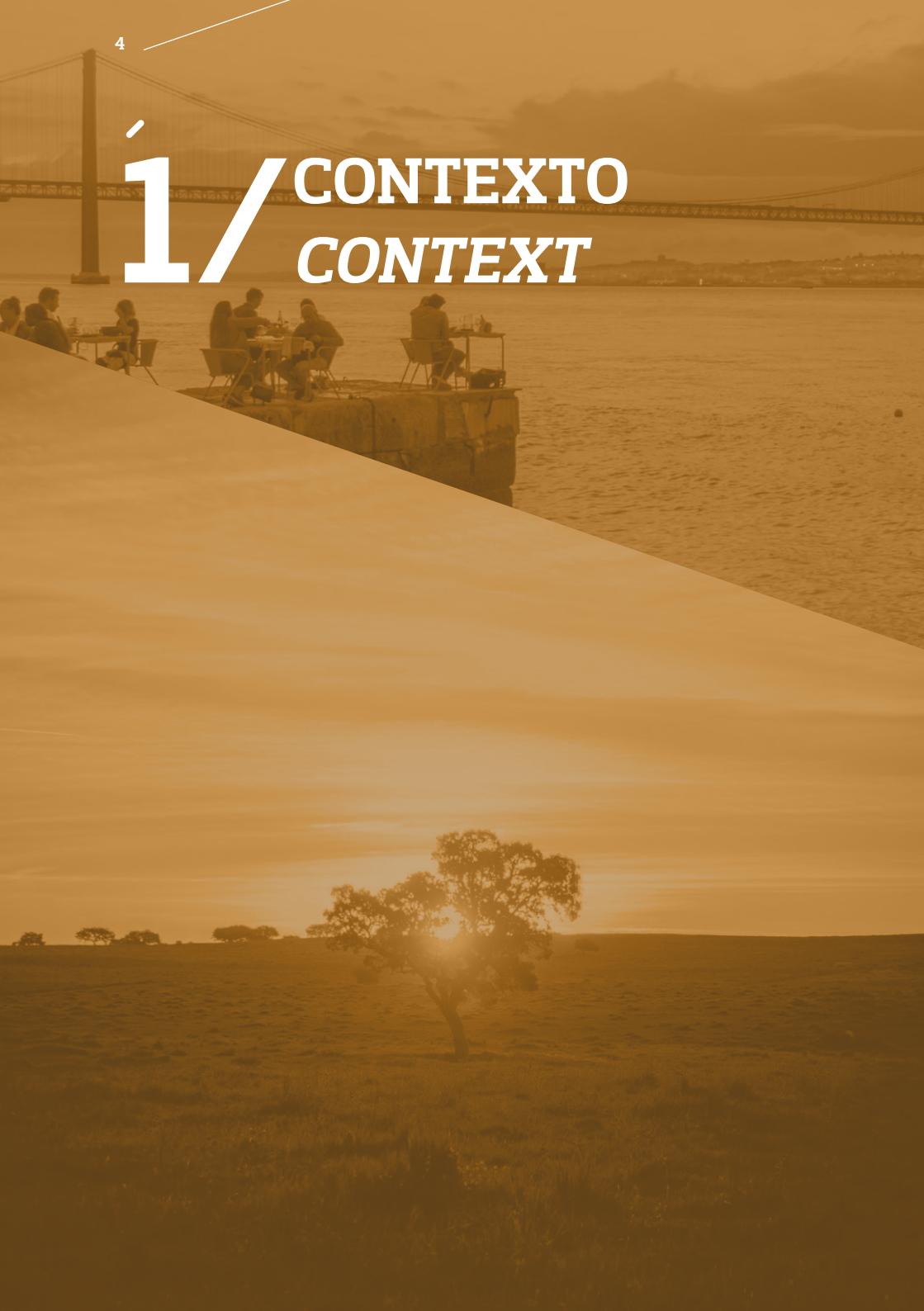
36	<i>4.1 Quick Facts</i>	38
	<i>4.2 Projects</i>	39
	<i>4.3 Research & Development Units</i>	53
	<i>4.4 Associated Laboratories</i>	63

5/INNOVATION

4

6

1/ CONTEXTO CONTEXT



RESPOSTA A DESAFIOS DAS REGIÕES DO SUL DE PORTUGAL

- Resiliência, Coesão Territorial e Sustentabilidade.

TACKLING CHALLENGES OF THE SOUTHERN REGIONS OF PORTUGAL

- *Resilience, Territorial Cohesion and Sustainability.*

ÁREAS DE ATUAÇÃO DEFINIDAS PELOS PARCEIROS DO CONSÓRCIO

- Com base no conhecimento transversal das universidades envolvidas e dos parceiros locais e regionais sobre as necessidades e agendas estratégicas para as regiões do Sul;
- Alinhadas com o Plano de Recuperação e Resiliência.

AREAS OF ACTION DEFINED BY THE CONSORTIUM PARTNERS

- *Based on the transversal knowledge of the associated universities and local and regional partners on the needs and strategic agendas for the southern regions;*
- *Aligned with the Recovery and Resilience Plan.*

VALOR ESTRATÉGICO DE ARRANQUE ASSENTE NAS INFRAESTRUTURAS EXISTENTES

- Conhecimento residente nas Universidades do Consórcio e seus parceiros e materializado em laboratórios colaborativos e centros de valorização e transferência de tecnologia.

STRATEGIC START-UP VALUE BASED ON EXISTING INFRASTRUCTURES

- *Knowledge residing in the Consortium Universities and their partners and materialized in collaborative labs and technology transfer and valorization centers.*

2/ O QUE É O CAMPUS SUL?

2/WHAT IS THE SOUTH CAMPUS?

Associação estabelecida por três Universidades Públicas (Universidade de Évora, Universidade do Algarve e Universidade NOVA de Lisboa) e que resulta do compromisso comum em contribuir para o reforço da coesão territorial, a resiliência e o desenvolvimento sustentável das regiões do Sul de Portugal.

Association established by three Public Universities (University of Évora, University of Algarve and NOVA University Lisbon) with the common purpose to contribute to the strengthening of territorial cohesion, resilience and sustainable development of the southern regions of Portugal.

QUAL É A FINALIDADE?

Valorização social, cultural e económica das regiões do Sul, a partir da aplicação do conhecimento residente nas universidades do consórcio e nas suas redes internacionais, em colaboração com as entidades promotoras do desenvolvimento regional, para dar respostas inovadoras a importantes desafios do desenvolvimento sustentável do Sul de Portugal.

WHAT IS THE AIM?

Social, cultural and economic enhancement of the southern regions, based on the application of the knowledge residing in the partner universities and their international networks, in collaboration with the entities promoting regional development, to provide innovative responses to key sustainable development challenges in the south of Portugal.



2.1 Programas de Capacitação

2.1 Capacity Building Programs



ÂMBITO:

/ **Capacitação de pessoas e instituições**, através de iniciativas de formação, com ênfase na administração local e regional, mas também empresas públicas, privadas e outras entidades, a partir do conhecimento avançado residente nas universidades do consórcio ou em outras entidades suas parceiras e com base nas boas práticas definidas a nível internacional.

/ **Elaboração de projetos inovadores com impacto** a partir de programas em áreas relevantes para o desenvolvimento do Sul do país.

SCOPE:

/ **Qualification of people and institutions**, through training initiatives, with an emphasis on local and regional administration, but also on public sector, private sector and other entities, using the advanced knowledge residing in the partner universities or in other partner entities, and based on the good practices defined at international level.

/ **Development of innovative projects with impact** based on programs in relevant areas to the development of the South of the country.

OBJETIVOS:

- / Facilitar e desburocratizar a relação da administração pública com os cidadãos e as empresas.
- / Capacitar os RH instalados na região através da aquisição de conhecimentos e competências relevantes.
- / Apoiar a transição digital no Sul em áreas de ponta (inteligência artificial e ciência dos dados).
- / Aumentar a eficiência e alcance na prestação de serviços públicos.
- / Preparar projetos para submissão a financiamento por entidades regionais, nacionais ou internacionais.

OBJECTIVES:

- / *Facilitate and reduce bureaucracy in the relationship between the public administration and citizens and companies.*
- / *Empower the HR installed in the region through the acquisition of relevant knowledge and skills.*
- / *Support the digital transition in the South in cutting-edge areas (artificial intelligence and data science).*
- / *Increase efficiency and outreach in public service delivery.*
- / *Prepare projects for submission to funding by regional, national or international entities.*

DELIMITAÇÃO:

Os programas e projetos em causa são selecionados atendendo a três dimensões:

- 1) As necessidades mais prementes nas diferentes regiões;
- 2) O envolvimento de parceiros locais e regionais estratégicos;
- 3) A diversidade das populações-alvo, o que conduzirá a modelos de formação distintos e customizados.

DELIMITATION:

The programs and projects in question are selected taking into account three dimensions:

- 1) *The most pressing needs in different regions;*
- 2) *The involvement of local and regional strategic partners;*
- 3) *The diversity of target populations, which will lead to distinct and customized training models.*

ÁREAS PRINCIPAIS:

- / Cidades e Comunidades Sustentáveis;
- / Agricultura Sustentável e Segurança Alimentar;
- / Conhecimento e Economia do Mar;
- / Património Material e Imaterial;
- / Energias renováveis: bioenergia;
- / Água: maximização dos recursos hídricos;
- / Hospitalidade e Turismo;

MAIN AREAS:

- / Sustainable Cities and Communities;*
- / Sustainable Agriculture and Food Security;*
- / Knowledge and Economics of the Sea;*
- / Tangible and Intangible Heritage;*
- / Renewable Energies: Bioenergy;*
- / Maximization of Water Resources;*
- / Hospitality and Tourism;*

2.2 Centros de Conhecimento Aplicado e Inovação para a Sustentabilidade

2.2 Centers for Applied Knowledge and Innovation for Sustainability

O QUE SÃO OS “CAIS”?

Estruturas de caráter permanente, com infraestrutura física, dedicadas ao desenho e implementação de inovação relevante para uma área específica do desenvolvimento sustentável do Sul.

WHAT ARE THE “CAIS”?

Permanent structures, with physical infrastructure, dedicated to the design and implementation of relevant innovation for a specific area of sustainable development in the South.



QUAL A FINALIDADE?

Apoiar o desenvolvimento das regiões através de agendas de investigação colaborativa e interdisciplinar e de programas de intervenção no território e na comunidade, destinados a garantir o impacto dessa investigação, criando emprego científico em ligação com o tecido económico e social das regiões e respondendo aos seus problemas reais.

WHAT IS THEIR AIM?

Support the development of regions through collaborative and interdisciplinary research agendas and intervention programs in the territory and in the community, aimed at ensuring the impact of this research, creating scientific employment in connection with the economic and social fabric of the regions and responding to their real problems.

CAIS PRIORITÁRIOS

- **CITY21** / Centro de Conhecimento para as Cidades e Comunidades Sustentáveis do Futuro;
- **MASSA** / Centro de Conhecimento para a Modernização Agrícola Sustentável e Segurança Alimentar;

PRIORITY CAIS

- **CITY21** / Knowledge Center for Sustainable Cities and Communities of the Future;
- **MASSA** / Knowledge Center for Sustainable Agricultural Modernization and Food Security;

- **SAGRES** / Centro de Conhecimento do Mar para o Crescimento Azul e Exploração Sustentável da Biodiversidade Marinha;
- **SPHERA** / Centro de Conhecimento para o Património, Arte e Cultura.

- **SAGRES** / *Sea Center for Blue Growth and Sustainable Exploitation of Marine Biodiversity*;
- **SPHERA** / *Knowledge Center for Heritage, Art and Culture*.

CAIS EM ESTUDO

- **MOVE** / Centro de Conhecimento para a Mobilidade Verde e Energia
- **CECA** / Centro de Conhecimento da Água
- **FUTURIS** / Centro de Conhecimento para o Turismo e Hospitalidade

CAIS UNDER STUDY

- **MOVE** / *Knowledge Center for Green Mobility and Energy*
- **CECA** / *Water Knowledge Center*
- **FUTURIS** / *Knowledge Center for Tourism and Hospitality*

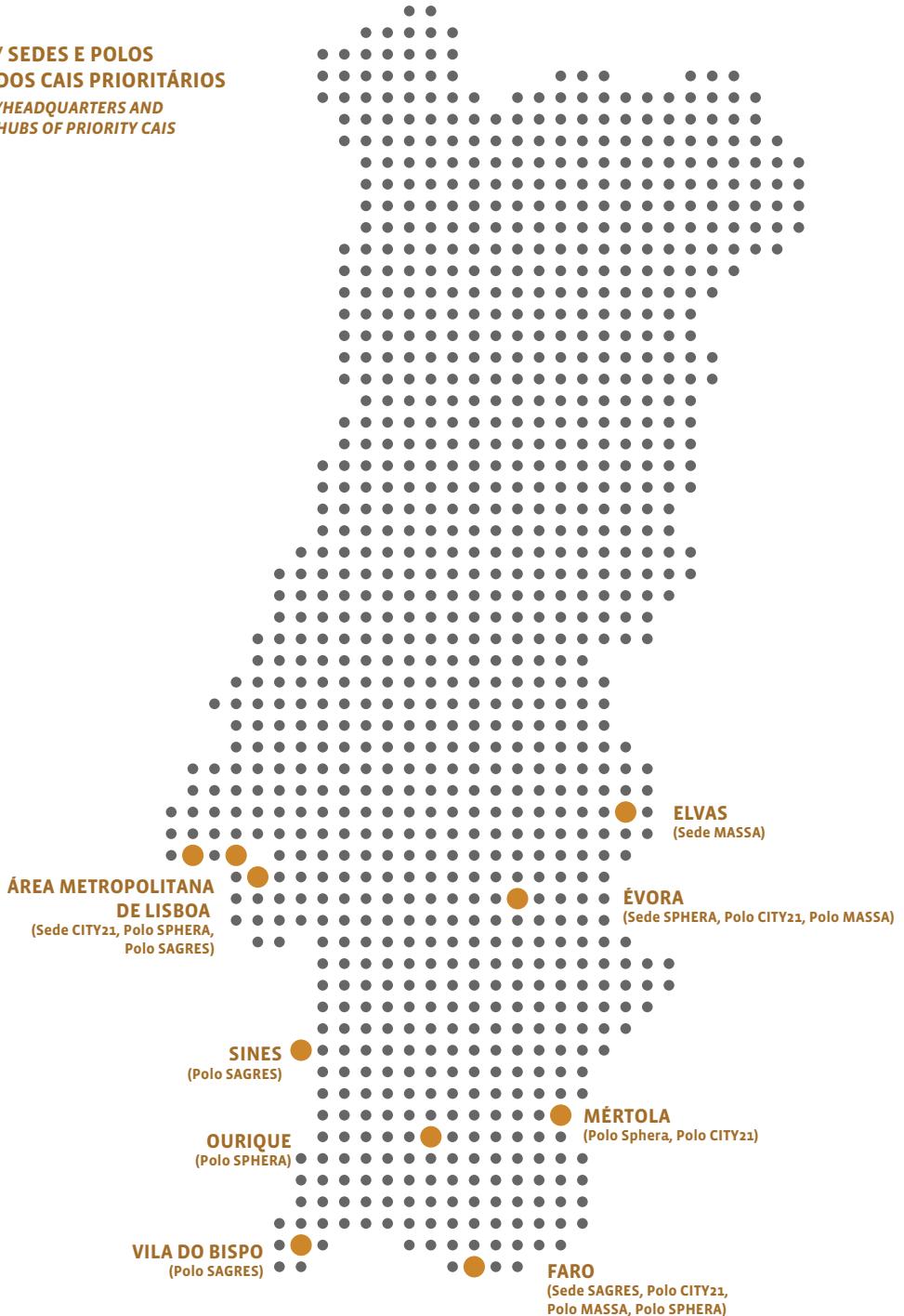
TERRITORIAL IMPACT

IMPACTO TERRITORIAL

- **ÁREA METROPOLITANA DE LISBOA**
- **ELVAS**
- **ÉVORA**
- **FARO**
- **MÉRTOLA**
- **OURIQUE**
- **SINES**
- **VILA DO BISPO**

- **ELVAS**
- **ÉVORA**
- **FARO**
- **MÉRTOLA**
- **METROPOLITAN AREA OF LISBON**
- **OURIQUE**
- **SINES**
- **VILA DO BISPO**

/ SEDES E POLOS
DOS CAIS PRIORITÁRIOS
/HEADQUARTERS AND
HUBS OF PRIORITY CAIS



2.2.1. CITY21 | Centro de Conhecimento para as Cidades e Comunidades Sustentáveis

2.2.1. CITY21 / Knowledge Center for Sustainable Cities and Communities

VISÃO

Contribuir para o desenvolvimento de cidades e comunidades sustentáveis comprometidas com o futuro através da adoção de práticas orientadas para a melhoria da qualidade de vida nas cidades, para a proteção das populações mais vulneráveis e para a diversidade e inclusão cultural.

VISION

Contribute to the development of sustainable cities and communities committed to the future through the adoption of practices aimed at improving the quality of life in cities, protecting the most vulnerable populations and promoting diversity and cultural inclusion.

LINHAS TEMÁTICAS

- / Bairros e Comunidades Sustentáveis e Inclusivas
- / Populações em Risco
- / Memória, Juventude e Emprego
- / Cultura, Género e Diversidade
- / Capacitação de RH na área da sustentabilidade e coesão social

THEMATIC LINES

- / Sustainable and Inclusive Neighborhoods and Communities*
- / Populations at Risk*
- / Memory, Youth and Employment*
- / Culture, Gender and Diversity*
- / Capacity building in the area of sustainability and social cohesion*

PARCEIROS ESTRATÉGICOS

Santa Casa da Misericórdia, Gebalis, Fundação Gulbenkian, Programa Bairros Saudáveis, Autarquias AML, CIMAC (Comunidade Intermunicipal do Alentejo Central), AMAL (Comunidade Intermunicipal do Algarve), CCDR (Algarve, Alentejo, Lisboa),

STRATEGIC PARTNERS

Santa Casa da Misericórdia, Gebalis, Gulbenkian Foundation, Healthy Neighborhoods Program, Municipalities of the Metropolitan Area of Lisbon, CIMAC (Intermunicipality Community of Central Alentejo), AMAL (Intermunicipality Community of Algarve), CCDR (Algarve, Alentejo,

SIDAC (Serviço de Intervenção nos Comportamentos Aditivos e nas Dependências).

Lisbon), SIDAC (General Directorate for Intervention on Addictive Behaviours and Dependencies).

INFRAESTRUTURAS

INNO - Centro de Inovação Social da NOVA (Lisboa).

INFRASTRUCTURES

INNO - NOVA Center for Social Innovation (Lisbon).

2.2.2. MASSA | Centro de Conhecimento para a Modernização Agrícola Sustentável e Segurança Alimentar

2.2.2. MASSA / Knowledge Center for Sustainable Agricultural Modernization and Food Security

VISÃO

Promover uma agricultura baseada num modelo sustentável, alinhado com os princípios da economia circular e da eco-economia, ou seja, que visa a produção com a máxima eficiência e a preservação da qualidade dos recursos (água, solo, biodiversidade), que promove o consumo de produtos com qualidade e segurança e previne a sua escassez, e que se alicerça em relações próximas urbano-rural, contribuindo para o desenvolvimento e coesão dos territórios do Sul e *hinterland* ibérico.

VISION

Promote a sustainable-based agriculture model, in line with the principles of circular economy and eco-economy, in other words, aimed at producing with maximum efficiency and preserving the quality of resources (water, soil, biodiversity), promoting consumption of products with quality and safety and preventing their scarcity, and based on close urban-rural relations, thus contributing to the development and cohesion of the southern territories and the Iberian hinterland.

LINHAS TEMÁTICAS

- Promoção da Dieta Mediterrâника;
- Valorização dos recursos naturais endógenos;
- Inovação aplicada à produção agrícola;
- Capacitação de RH na área da Agricultura Sustentável.

PARCEIROS ESTRATÉGICOS

Autarquias, CCDR (Algarve, Alentejo, Lisboa), INIAV (Instituto de Investigação Agrária e Veterinária), Bayer Crop Science, Syngenta Crop Science, Fundação Eugénio de Almeida, Instituto Fraunhofer, AJAP (Associação dos Jovens Agricultores de Portugal), Parceiros Académicos a nível Ibérico e Internacional.

INFRAESTRUTURAS

Laboratório Colaborativo Inno-
vPlantProtect (Elvas).

THEMATIC LINES

- *Promotion of the Mediterranean Diet;*
- *Valorization of endogenous natural resources;*
- *Innovation applied to agricultural production;*
- *Capacity building in the area of Sustainable Agriculture.*

STRATEGIC PARTNERS

Municipalities, CCDR (Algarve, Alentejo, Lisbon), INIAV (National Institute of Agricultural and Veterinary Research), Bayer Crop Science, Syngenta Crop Science, Eugénio de Almeida Foundation, Fraunhofer Institute, AJAP (Association of Young Farmers of Portugal), Academic Partners at Iberian and International level.

INFRASTRUCTURES

InnovPlantProtect Collaborative Laboratory (Elvas).



2.2.3. SAGRES | Centro para o Crescimento Azul e Conservação da Biodiversidade do Meio Marinho

2.2.3. SAGRES / SeA center for blue GRowth and consErvation of marine biodiverSity

VISÃO

Criar um centro de valorização dos recursos marinhos que produza riqueza e bem-estar nas populações locais e nos ecossistemas marinhos, estimulando a criação de redes transversais que passem pela pesca, aquacultura, atividades recreativas e turísticas em intensa cooperação com as empresas regionais e internacionais com interesse na área do crescimento/economia azul.

VISION

Create a center for the valorization of marine resources that produces wealth and well-being among local populations and marine ecosystems, stimulating the creation of transversal networks that include fishing, aquaculture, recreational and tourist activities in cooperation with regional and international companies with an interest in the area of blue growth/economy.

LINHAS TEMÁTICAS

- Inovação de produtos marinhos de base tecnológica 4.0;
- Conservação da biodiversidade a Sul;
- Capacitação de RH na área das Ciências do Mar.

THEMATIC LINES

- *Innovation of technology-based marine products 4.0;*
- *Biodiversity preservation in the South;*
- *Capacity buiding in the field of Marine Science.*

PARCEIROS ESTRATÉGICOS

Autarquias (em especial Vila do Bispo), CCDR (Algarve, Alentejo, Lisboa), Cascais Ambiente, IPMA, OLSPS, DOCAPESCA, NAUTIBER, MARTRAIN, Ad-

STRATEGIC PARTNERS

Municipalities (particularly Vila do Bispo), CCDR (Algarve, Alentejo, Lisboa), Cascais Ambiente, IPMA, OLSPS, DOCAPESCA, NAUTIBER, MARTRAIN, Administration of the Ports of

ministração de Portos de Sines e Algarve, SEA4All, APA-ARH.Alg, Algarve Partners, Centros de Ciência Viva.

Sines and Algarve, SEA4All, APA-ARH.Alg, Algarve Partners, Ciência Viva Centers.

INFRAESTRUTURAS

Infraestruturas em colaboração com o S2AQUACOLAB (Faro), infraestrutura do Laboratório de Ciências do Mar da Universidade de Évora - CIEMAR (Sines) e infraestrutura a recuperar em Sagres (Vila do Bispo).

INFRASTRUCTURES

Infrastructure in collaboration with the S2AQUACOLAB (Faro), infrastructure of the Marine Sciences Laboratory of the University of Évora - CIEMAR (Sines) and infrastructure to be recovered in Sagres (Vila do Bispo).

2.2.4. SPHERA | Centro de Conhecimento para o Património, Arte e Cultura

2.2.4. SPHERA / Southwest Park for Heritage and ARTS

VISÃO

Aliar o saber ao saber fazer, ao saber estar, ao saber ocupar, ao saber fruir e ao saber rentabilizar para o bem-estar, estimulando a criação de redes transversais que passem pela estética, pela arte e pela criação artística numa perspetiva territorial que promova a economia das comunidades através da educação cultural e patrimonial.

VISION

Combine knowledge with know-how (how to do, how to be, how to occupy, how to enjoy and how to optimize for the general well-being), stimulating the creation of transversal networks that include aesthetics, art and artistic creation in a territorial perspective that promotes the economic welfare of communities through cultural and heritage education.

LINHAS TEMÁTICAS

- Utilização sustentável do património;

THEMATIC LINES

- Sustainable use of heritage;

- Valorização do património cultural e natural;
- Inovação e empreendedorismo criativo;
- Capacitação de RH na área do Património, Arte e Cultura.

- *Valorization of cultural and natural heritage;*
- *Innovation and creative entrepreneurship;*
- *Capacity building in the area of Heritage, Art and Culture.*

PARCEIROS ESTRATÉGICOS

Direção-Regional da Cultura do Alentejo, Direção-Geral do Património Cultural, Instituto Politécnico de Portalegre, CIMAC, Autarquias, ERIHS.pt, Fundação Eugénio de Almeida, Centro Ciência Viva de Estremoz, CCDR (Algarve, Alentejo, Lisboa).

STRATEGIC PARTNERS

Regional Directorate of Culture of Alentejo, Directorate General for Cultural Heritage, Polytechnic Institute of Portalegre, CIMAC, Municipalities, ERIHS.pt, Eugénio de Almeida Foundation, Ciência Viva Center of Estremoz, CCDR (Algarve, Alentejo, Lisbon).

INFRAESTRUTURAS

Sede no Mosteiro de São Bento de Cástris (Évora).

Polo de Mértola (Campo Arqueológico de Mértola), Polo de Ourique (Centro de Arqueologia Caetano de Mello Beirão), Polo da Trafaria (NOVA IAT) e Polo de Faro (Centro de Investigação em Artes e Comunicação).

INFRASTRUCTURES

Headquarters at the Monastery of São Bento de Cástris (Évora).

Mértola Hub (Mértola Archaeological Field), Ourique Hub (Caetano de Mello Beirão Archeology Center), Trafaria Hub (NOVA IAT) and Faro Hub (Research Center in Arts and Communication).

3/ FORMAÇÃO TRAINING





3.1 Mestrados

Gestão da Qualidade e Marketing Agro-Alimentar

Instituições Campus Sul: Universidade de Évora e Universidade do Algarve.

COORDENAÇÃO

Maria Raquel Lucas [mrlucas@uevora.pt] e Maria Alcinda dos Ramos das Neves [fctdirmgqma@ualg.pt].

APRESENTAÇÃO

O Curso visa formar especialistas no domínio da Gestão da Qualidade e Marketing Agro-Alimentar que pretendam trabalhar no desenvolvimento da produção, ensino e investigação desta área de atividade e conhecimento. Um mestre em Gestão da Qualidade e Marketing Agro-Alimentar é um especialista com competência para a intervenção em mercados agro-alimentares, quer no plano da análise do consumidor, quer na organização e controlo das empresas deste setor.

3.1 Master Programs

Agri-food Quality Management and Marketing

South Campus Institutions: University of Évora and University of Algarve.

COORDINATION

Maria Raquel Lucas [mrlucas@uevora.pt] and Maria Alcinda dos Ramos das Neves [fctdirmgqma@ualg.pt].

OVERVIEW

The course aims to train specialists in the field of Quality Management and Agro-Food Marketing who wish to work in the development of production and marketing, teaching and research in this area of activity and knowledge. The Master in Quality Management and Agro-Food Marketing guarantees specialized skills for intervention in agri-food markets, both in terms of consumer analysis and in the organization and control of companies in this sector.

Gestão e Políticas Ambientais

Instituições Campus Sul: Universidade de Évora e Universidade NOVA de Lisboa.

COORDENAÇÃO

Maria Manuela Morais [mmorais@uevora.pt].

APRESENTAÇÃO

O Mestrado em Gestão e Políticas Ambientais é um curso em associação entre a Universidade de Évora, Universidade de Aveiro e a Universidade NOVA de Lisboa que circula de forma rotativa pelas três instituições. Adquire em consequência uma dimensão interinstitucional e interdisciplinar, através da integração de áreas científicas do Ambiente, com outras associadas a uma formação de caráter Sociológico, Económico, de Relações Internacionais e de Direito Ambiental. O programa propõe abordar a questão ambiental, partindo de uma postura direcionada para um ensino/aprendizagem interdisciplinar que torne os seus intervenientes mais tolerantes, abertos ao diálogo e consequentemente mais capazes para intervirem em questões ambientais aos diferentes níveis, local, regional, nacional e internacional.

Environmental Management and Policies

South Campus Institutions: University of Évora and NOVA University Lisbon.

COORDINATION

Maria Manuela Morais [mmorais@uevora.pt].

OVERVIEW

The Master's Degree in Environmental Management and Policies is a course in association between the University of Évora, University of Aveiro and NOVA University Lisbon that rotates through all three institutions. As a result, it acquires an inter-institutional and interdisciplinary dimension, through the integration of scientific areas within the Environment field, with the field of Sociology, Economics, International Relations and Environmental Law. The course seeks to address the environmental issue based on an interdisciplinary teaching/learning that makes students more tolerant, open to dialogue and consequently more capable of intervening in environmental issues at different levels, local, regional, national and international.

História do Mediterrâneo Islâmico e Medieval

Instituições Campus Sul: Universidade de Évora e Universidade do Algarve.

COORDENAÇÃO

Hermínia Vasconcelos Vilar [hmav@uevora.pt].

APRESENTAÇÃO

Com este Mestrado procura-se compreender a forma como, no contexto do Mediterrâneo, sociedades muito diferentes podem conhecer e viver com outras, e como, historicamente, decorreu esse processo, na dinâmica de interação e troca ou de oposição e conflito entre as diferentes culturas em presença. O modelo de formação proposto remete para uma análise centrada na Península Ibérica e apela às construções culturais, sociais, políticas, económicas e até espaciais que se configuraram com o Norte de África, durante o período Medieval (em lato senso). Neste sentido, pretende-se proporcionar aos discentes uma formação sobre a evolução dos processos históricos e proporcionar-lhes uma utensilagem teórica e metodológica para elaboração de trabalhos nas áreas da medievalidade peninsular cristã e muçulmana, estabelecendo relações e enfatizando interdependências com as realidades do Mediterrâneo.

History of the Islamic and Medieval Mediterranean

South Campus Institutions: University of Évora and University of Algarve.

COORDINATION

Hermínia Vasconcelos Vilar [hmav@uevora.pt].

OVERVIEW

This Master's Degree seeks to understand how, in the context of the Mediterranean, very different societies can know and live with others, and how, historically, this process has occurred, in the dynamics of interaction and exchange or of opposition and conflict between different cultures in presence. The proposed training model refers to an analysis centered on the Iberian Peninsula and calls for the cultural, social, political, economic and even spatial constructions that are configured with North Africa during the Medieval period (in broad sense). In this sense, it is intended to provide students with a training on the evolution of historical processes and provide them with a theoretical and methodological tool for the elaboration of works in the areas of medieval Christian and Muslim societies, establishing relationships and emphasizing interdependencies with the realities of the Mediterranean.

Paleontologia

Instituições Campus Sul: Universidade de Évora e Universidade NOVA de Lisboa.

COORDENAÇÃO

Carlos Alexandre da Silva Ribeiro
[cribeiro@uevora.pt] e Paulo Alexandre Legoinha [mp.coordenador@fct.unl.pt]

APRESENTAÇÃO

No sentido de aproveitar conhecimentos e instalações laboratoriais existentes, a Universidade de Évora e a Faculdade de Ciências e Tecnologia da Universidade NOVA de Lisboa juntaram-se para propor um 2º ciclo de Paleontologia, cujo principal objetivo é promover um conjunto de ensinamentos coeso, com valor de empregabilidade, que atue como proteção e valorização socioeconómica do património paleontológico. Pretende-se igualmente criar um espaço para se desempenharem atividades técnicas de classificação e gestão do meio natural, particularmente do Paleontológico, da responsabilidade de entidades públicas.

Paleontology

South Campus Institutions: University of Évora and NOVA University Lisbon .

COORDINATION

Carlos Alexandre da Silva Ribeiro [cribeiro@uevora.pt] and Paulo Alexandre Legoinha [mp.coordenador@fct.unl.pt]

OVERVIEW

In order to take advantage of the existing knowledge and laboratory facilities, the Universidade of Évora and the NOVA School of Science and Technology have joined to present a Master in Paleontology. Its main goal is to promote a comprehensive learning, with employability value, that can act as safeguard and socioeconomic enhancement of the paleontological heritage. The creation of a space to carry out technical activities of classification and management of the natural environment, particularly the Paleontological environment, under the responsibility of public entities is also part of that goal.

Tecnologias em Agricultura de Precisão

Instituições Campus Sul: Universidade de Évora e Universidade NOVA de Lisboa.

COORDENAÇÃO

José Rafael Marques da Silva [jmsilva@uevora.pt] e Maria Fernanda Guedes Pessoa [mtap.coordenador@fct.unl.pt]

APRESENTAÇÃO

O ato agronómico está a transformar-se radicalmente e cada vez mais assenta em dois tipos de inteligência, a humana e a artificial, por forma a ser possível gerir grandes quantidades de informação em tempo quase real, para uma decisão oportuna e cada vez com menores riscos. Em associação, a Universidade de Évora e a Universidade NOVA de Lisboa, com base na longa experiência e produtividade científica que detêm neste âmbito, oferecem aos alunos deste mestrado experiências pedagógicas inesquecíveis, bem como uma preparação ímpar na gestão de processos e de tecnologias em Agricultura de Precisão com vista aos cumprimentos dos novos desafios europeus no âmbito do Pacto Ecológico, “Farm to Fork”; e da nova PAC.

Precision Agriculture Technologies

South Campus Institutions: University of Évora and NOVA University Lisbon.

COORDINATION

José Rafael Marques da Silva [jmsilva@uevora.pt] and Maria Fernanda Guedes Pessoa [mtap.coordenador@fct.unl.pt]

OVERVIEW

The agronomic act is becoming radically transformed and increasingly based on two types of intelligence, human and artificial, in order to be able to manage large amounts of information in almost real time, for an adequate and less risky decision making. In association, the University of Évora and NOVA University Lisbon, based on their long experience and scientific productivity in this field, offer master students unforgettable pedagogical experiences, as well as a unique preparation in the management of processes and technologies in Precision Agriculture aimed at meeting the new European challenges in the framework of the Green Deal, “Farm to Fork” and the new CAP.

Uma Saúde: Saúde Pública Humana e Animal

Instituições Campus Sul: Universidade de Évora e Universidade NOVA de Lisboa.

COORDENAÇÃO

Manuela Vilhena [mmcv@uevora.pt]

APRESENTAÇÃO

“Uma Saúde” é uma metodologia de trabalho que visa a implementação de metodologias capazes de promover a colaboração entre diferentes setores, e como tal, promover a saúde de todos nós e do que nos rodeia (saúde pública). A tendência para a especialização clínica fez com que se perdesse o foco nas diferentes conexões que existem entre as populações humanas e animais e a influência do meio ambiente na saúde. A ONU já adotou esta metodologia de trabalho, mas a formação nesta área é ainda escassa. Assim, este mestrado visa fornecer as principais ferramentas para que o estudante possa singrar na complexidade da vigilância das doenças transmissíveis entre seres humanos e animais.

One Health: Human and Animal Public Health

South Campus Institutions: University of Évora and NOVA University Lisbon.

COORDINATION

Manuela Vilhena [mmcv@uevora.pt]

OVERVIEW

“One Health” is a working methodology that aims to implement procedures capable of promoting collaboration between different sectors, thereby promoting the health of all of us and of our surroundings (public health). The tendency towards clinical specialization has led us to neglect the different connections that exist between human and animal populations and the influence of the environment on health. The UN has already adopted One Health working methodology but training in the area is still scarce. Hence, this master's degree aims to provide the main tools for students to excel in the complexity of surveillance of communicable diseases between humans and animals.

3.2 Programas Doutorais

Ciências Agrárias e Ambientais

Instituições Campus Sul: Universidade de Évora e Universidade do Algarve.

COORDENAÇÃO

Fátima de Jesus Folgôa Baptista [fb@uevora.pt] e José Manuel Peixoto Teixeira Leitão [fctdirdcaamb@ualg.pt]

APRESENTAÇÃO

O objetivo fundamental é promover a conciliação da produção agrária com a qualidade ambiental, preservando-se processos funcionais e biodiversidade. Pretende-se que este 3º Ciclo seja uma interface científico-pedagógica entre as ciências agrárias e as ciências do ambiente, geradora de sinergias promotoras de processos produtivos ambientalmente mais sustentáveis e territorialmente mais equilibrados. A integração funcional de ambos os domínios será a principal característica distintiva deste programa de doutoramento.

3.2 Doctoral Programs

Agricultural and Environmental Science

South Campus Institutions: University of Évora and University of Algarve.

COORDINATION

Fátima de Jesus Folgôa Baptista [fb@uevora.pt] and José Manuel Peixoto Teixeira Leitão [fctdirdcaamb@ualg.pt]

OVERVIEW

The main objective is to promote the conciliation between agricultural production and environmental quality, preserving functional processes and biodiversity. This 3rd Cycle is a scientific-pedagogical interface between agrarian sciences and environmental sciences, generating synergies that promote more sustainable production processes and territorially more balanced. The functional integration of both domains will be the main distinguishing feature of this PhD program.

Ciências dos Alimentos

Instituições Campus Sul: Universidade de Évora e Universidade NOVA de Lisboa.

COORDENAÇÃO

Maria João Cabrita [mjbc@uevora.pt] e Marco Gomes da Silva [pdca.coordenador@fct.unl.pt]

APRESENTAÇÃO

O programa Doutoral em Ciências dos Alimentos é um programa em associação entre a Faculdade de Ciências e Tecnologia da NOVA e a Universidade de Évora. Enquadra-se na relevância crescente do setor alimentar, associada aos desafios das alterações climáticas e às perspetivas futuras de necessidades alimentares globais sustentáveis. Impõe-se assim desenvolver conhecimento e criar competências que permitam aos profissionais antecipar desafios globais no setor alimentar a montante e a jusante e melhorar o desempenho e competitividade dos seus produtos através de processos inovadores, inteligentes e promotores de um desenvolvimento sustentável.

Food Sciences

South Campus Institutions: University of Évora and NOVA University Lisbon.

COORDINATION

Maria João Cabrita [mjbc@uevora.pt] and Marco Gomes da Silva [pdca.coordenador@fct.unl.pt]

OVERVIEW

The Doctoral Program in Food Sciences is a program in association between the NOVA School of Science and Technology and the University of Évora. It is in line with the growing relevance of the food sector, coupled with the challenges of climate change and the future prospects of sustainable global food needs. It is therefore necessary to develop knowledge and skills to enable professionals to anticipate global challenges in the food sector upstream and downstream and to improve the performance and competitiveness of their products through innovative, intelligent processes and promoters of sustainable development.

Mecanismos de Doença e Medicina Regenerativa (ProRegeM)

Instituições Campus Sul: Universidade do Algarve e Universidade NOVA de Lisboa

COORDENAÇÃO

José António Henriques de Conde Belo [jose.belo@nms.unl.pt]

APRESENTAÇÃO

O programa tem como objetivo principal dotar os alunos com uma formação multidisciplinar necessária para estar na vanguarda da investigação em mecanismos da doença e da medicina regenerativa. Esta formação permitirá aos doutorandos obter uma visão ampla da área e sobre como transferir as suas competências científicas para a indústria. Pretende-se preparar os alunos para o emprego como investigadores, tanto na academia, indústria ou laboratório de análises clínicas, seja pela entrada direta ou por prosseguir os seus estudos.

Mechanisms of Disease and Regenerative Medicine (ProRegeM)

South Campus Institutions: University of Algarve and NOVA University Lisbon

COORDINATION

José António Henriques de Conde Belo [jose.belo@nms.unl.pt]

OVERVIEW

This programme's main goal is to endow students with a multidisciplinary training required to be at the forefront of research in mechanisms of disease and regenerative medicine. This training will allow the PhD candidates to have a wide view of the field and on how to transfer their scientific skills into industry. We aim by these means to prepare students for employment as researchers both in academy, industry or clinical laboratory, either by direct entry or pursuing further studies.

Phoenix JDP – Dinâmicas da Saúde e Proteção Social (ERASMUS MUNDUS)

Instituições Campus Sul: Universidade de Évora e Universidade NOVA de Lisboa.

COORDENAÇÃO

Laurinda Abreu [lfsa@uevora.pt]

APRESENTAÇÃO

O Doutoramento Erasmus Mundus PHOENIX JDP Dinâmicas da Saúde e Proteção Social sobre dinâmica da saúde e do bem-estar, é uma parceria com Universidade de Évora, a sueca Linköping University e a coordenadora do doutoramento, a École des Hautes Études, em Paris. O programa doutoral é interdisciplinar, com uma forte componente de ciências sociais e humanas, com base na ética, a história, a filosofia, epidemiologia, demografia, estudos culturais, economia da saúde, organização e comunicação em saúde, pressupondo-se a frequência de três universidades ao longo de três anos do curso.

Phoenix JDP Dynamics of Health and Welfare (ERASMUS MUNDUS)

South Campus Institutions: University of Évora and NOVA University Lisbon.

COORDINATION

Laurinda Abreu [lfsa@uevora.pt]

OVERVIEW

The Doctoral Erasmus Mundus PHOENIX EM JDP Dynamics of Health and Welfare on health and well-being dynamics, is a partnership between Universidade de Évora, the Swedish Linköping University and the doctoral coordinator, the École des Hautes Études, in Paris. The doctoral program is interdisciplinary, with a strong component of social and human sciences, based on ethics, history, philosophy, epidemiology, demography, cultural studies, health economics, organization and communication in health and it requires the attendance of three universities over the course of three years.

Sociologia: Conhecimento para Sociedades Abertas e Inclusivas (OpenSoc)

Instituições Campus Sul: Universidade de Évora, Universidade do Algarve e Universidade NOVA de Lisboa

COORDENAÇÃO

José Resende [jmvsr@uevora.pt]
 José São José [jsjose@ualg.pt]
 Rui Santos [rsantos@fcsh.unl.pt]

APRESENTAÇÃO

O Programa beneficia do património teórico e empírico acumulado através da história da sociologia, mas forja igualmente uma nova orientação face a cruciais desafios sociais contemporâneos. Sociedades Abertas, na medida em que os quadros sociais do passado entram em erosão por novas e imprevisíveis formas de combinar o local e o global, o nacional e o internacional, o privado e o público, as práticas e os valores, as biografias individuais e os padrões coletivos, os quais vêm perturbar os contextos integradores que antes existiam e exigir outros novos. Inclusivas, depois, para sublinhar o papel das instituições sociais, regiões territoriais, grupos e redes (formais, informais) na coesão de um tecido social fragilizado, dividido e heterogéneo.

Sociology: Knowledge for Open and Inclusive Societies (OpenSoc)

South Campus Institutions: University of Évora, University of Algarve and NOVA University Lisbon

COORDINATION

*José Resende [jmvsr@uevora.pt]
 José São José [jsjose@ualg.pt]
 Rui Santos [rsantos@fcsh.unl.pt]*

OVERVIEW

The Program benefits from the theoretical and empirical heritage accumulated through the history of sociology, but also forges a new orientation in the face of crucial contemporary societal challenges. Open Societies, as the social frameworks of the past are eroded by new and unpredictable ways of combining the local and the global levels, the national and the international levels, the private and the public levels, practices and values, individual biographies and the collective patterns, which come to disturb the integrative contexts that previously existed and demand new ones. Inclusive Societies emphasize the role of social institutions, territorial regions, groups and networks (formal, informal) in the cohesion of a fragile, divided and heterogeneous social fabric.

3.3 Outros Programas de Formação

Mare Nostrum

O projeto **MARE NOSTRUM (MN)**, coordenado pela Universidade do Algarve no âmbito do Programa Europeu Erasmus + - Key Action 1 *International Credit Mobility*, apoia a mobilidade de estudantes, docentes e administrativos em Portugal e nos países do Mediterrâneo e dos Balcãs Ocidentais.

O consórcio MN assenta na confiança institucional, alicerçada nos excelentes laços de cooperação desenvolvidos entre os seus parceiros ao longo dos últimos anos. O MN assenta numa forte cooperação, ligando o Norte e o Sul de Portugal, reunindo algumas das melhores práticas que o nosso País tem para oferecer. A partilha de ideias e prioridades comuns para o desenvolvimento internacional cunhou a decisão de apresentar este novo consórcio.

As três Instituições do Campus Sul, além da Universidade do Porto, juntaram-se para formar este consórcio.

Mais informações em <https://www.up.pt/marenostrum2019/about>

3.3 Other Training Programs

Mare Nostrum

The **MARE NOSTRUM (MN)** project, coordinated by Universidade do Algarve in the framework of the European Programme Erasmus+ – Key Action 1 *International Credit Mobility*, supports mobility of students, academic and administrative staff in Portugal and in the Mediterranean and Western Balkans countries.

The MN consortium is based on institutional trust, founded on the excellent cooperation links developed among its partners during the last years. The MN is built on a strong cooperation, connecting Portugal's North and South, bringing together some of the best practices that our Country has to offer. The sharing of common ideas and priorities for international development coined the decision to present this new consortium.

All three South Campus Institutions and the University of Porto joined forces to form this consortium.

More information is available at: <https://www.up.pt/marenostrum2019/about>

Merging Voices

O projeto **MERGING VOICES**, coordenado pela Universidade Nova de Lisboa no âmbito do Programa Europeu Erasmus + - Key Action 1 *International Credit Mobility*, apoia a mobilidade de estudantes (avários níveis) e docentes e administrativos de instituições em Portugal e em 12 Países Parceiros de fora da Europa, em ambas as direções, *incoming* e *outgoing*.

O consórcio MERGING VOICES (MV) assenta na confiança institucional, alicerçada nos excelentes laços de cooperação desenvolvidos entre os seus parceiros ao longo dos últimos anos. O MV assenta numa forte cooperação, ligando o Norte e o Sul de Portugal e reunindo algumas das melhores práticas que o nosso País tem para oferecer. A partilha de ideias e prioridades comuns para o desenvolvimento internacional cunhou a decisão de apresentar este novo consórcio.

Duas Universidades do Campus Sul (Universidade NOVA e Universidade do Algarve) juntaram-se com a Universidade do Porto e a Universidade de Trás-os-Montes e Alto Douro para formar este consórcio.

Mais informações em <http://mergingvoices.unl.pt/>

Merging Voices

The MERGING VOICES project, coordinated by Universidade Nova de Lisboa in the framework of the European Programme Erasmus+ – Key Action 1 International Credit Mobility, supports mobility of students (at various levels) and academic and administrative staff from institutions in Portugal and in 12 Partner Countries from outside Europe, in both directions, incoming and outgoing.

The MERGING VOICES consortium (MV) is based on institutional trust, founded on the excellent cooperation links developed among its partners during the last years. The MV is built on a strong cooperation, connecting Portugal's North and South and bringing together some of the best practices that our Country has to offer. The sharing of common ideas and priorities for international development coined the decision to present this new consortium.

Two Campus Sul Institutions (NOVA University and University of Algarve) joined forces with University of Porto and University of Trás-os-Montes e Alto Douro to form this consortium.

More information at <http://mergingvoices.unl.pt/>

AL SUD

O Consórcio Erasmus Al Sud – Connecting regions, creating worlds foi criado em 2012 por duas Universidades do Campus Sul (Universidade de Évora e a Universidade do Algarve), a Universidade de Lisboa e os Institutos Politécnicos de Beja e Setúbal, e abrange uma comunidade académica de 77.624 estudantes, 6.416 docentes e 3.311 não docentes.

Com um forte impacto regional, o Erasmus Al Sud contribui para a internacionalização das Instituições que o integram promovendo oportunidades de mobilidade para aprendizagem (estudos e estágio), ensino e formação em instituições parceiras europeias e reforçando a cooperação e a participação em redes internacionais.

Mais informações em <https://www.erasmus-alsud.com/>

AL SUD

The Erasmus Al Sud Consortium – Connecting regions, creating worlds, was created in 2012 by two South Campus Universities (University of Algarve and University of Évora), the University of Lisbon and the Polytechnic Institutes of Beja and Setúbal, and encompasses an academic community of 77,624 students, 6,416 teaching staff and 3,311 non-teaching staff.

With a strong regional impact, Erasmus Al Sud contributes to the internationalisation of the member institutions by promoting mobility opportunities for learning (studies and internships), teaching and training in partner European institutions and by reinforcing cooperation and participation in international networks.

More information at <https://www.erasmus-alsud.com/en/>

4 / INVESTIGAÇÃO RESEARCH





4.1 Factos Rápidos

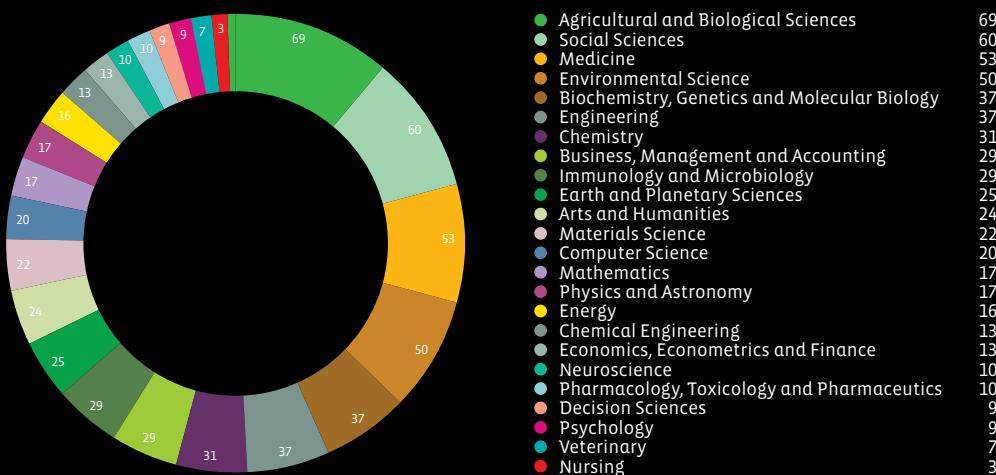
4.1 Quick Facts

+ 300 artigos em co-autoria entre as três instituições nos últimos 5 anos
+300 co-authored articles between the three institutions over the last 5 years

47% dos artigos em parceria internacional
47% of articles in international partnership

32.6% indexadas no Top10% dos journals com melhor Citescore
32.6% indexed in the Top10% of the journals with the best Citescore

PRINCIPAIS ÁREAS CIENTÍFICAS (SCOPUS), 2015-2020 *MAIN SCIENTIFIC AREAS (SCOPUS), 2015-2020*



*alguns artigos correspondem a uma ou mais áreas científicas / some articles correspond to one or more scientific areas

INVESTIGAÇÃO / RESEARCH

4.2 Projetos

4.2 Projects

PRINCIPAL INVESTIGATOR (PI)

Maria Paula Mesquita dos Santos Coelho,
Instituto Nacional de Investigação Agrária e Veterinária, I.P.

NOVA's PI: Carla António, ITQB_Nova

UALg's PI: José Leitão, University of Algarve

DESCRIPTION

Rocket vegetable is grown mainly in Southern Europe, the Middle East and South-East Asia and is also used in Mediterranean cuisine in fresh cut and ready-to-eat products as salads, and as food garnish. Rocket is associated with a healthy diet style, ensuring the prevention of various diseases. Baby-leaves show twice more beneficial compounds when compared with other leaf types. The high susceptibility to downy mildew (DM) observed in the rocket varieties actually produced represents an increasing threat for wild and cultivated (*Diplotaxis tenuifolia* and *Eruca sativa*, respectively) rocket production in different regions of the world. Rocket DM caused by the oomycete from the genus *Hyaloperonospora* is a severe foliar disease that drastically reduces crop quality and can make it completely unmarketable. The project concentrates specialized and complementary human resources with strong know-how available in multidisciplinary areas. The novelty of this proposal is the method followed to identify sources of partial

resistance, usually more durable and effective against different pathotypes. Another aspect is the approach based on a multidisciplinary team to solve a problem which effectively affects farmers. The expected results of this proposal are a better comprehension of the interaction *Diplotaxis-Hyaloperonospora* sp., the identification and delivery of new wild rocket varieties partial/resistant to DM, and the improvement of production technologies currently used. The transfer of knowledge and technological innovation to the production sector is expected to reinforce national and international competitiveness of agribusiness sector and socio-economic impacts. Besides, there will also be clear environmental advantages by reducing pesticide treatments and consumers will have access to more secure food. Food security is an important measure to cope with climatic changes and growing global food demand. This program is a unique opportunity to make a leap forward in terms of knowledge and technology development concerning DM control and to remove one of the main constraints to expansion of wild rocket production.

PASEV: Patrimonialization of Évora's Soundscape (1540 - 1910)

PRINCIPAL INVESTIGATOR (PI)

Vanda de Sá, CESEM, University of Évora

NOVA's PI: Rodrigo de Paula, CESEM - NOVA FCSH; António Gouveia, CHAM - NOVA FCSH; Armando Rodrigues, NOVA Lincs - FCT NOVA

DESCRIPTION

The notion of soundscapes makes it possible to understand musical activity from a wide-ranging contextual perspective. It enables us to reconstruct contexts, circuits and to map out the presence of music and musicians, taking music as a social, political and cultural activity. The urban aspect with respect to the musical activity of religious institutions, and in the squares or theatres, creates a particularly rich soundscape in the case of Évora. The project is centered on charting as many historical sound events as possible in the city of Évora from 1540 (creation of Évora's Archbishopric) to 1910 (beginning of Republic in Portugal).

It proposes an interactive database and the compilation of audio and visual documents that enable the visitor to experience as much as possible in the city, like thematic itineraries to explore historical musical scenarios through various virtual platforms, such as apps (smartphones), to enriching routes *in loco* in the city.



Unveiling the Mural Painting Art of Almada Negreiros (1938-1956): Technical, Material and Diagnostic scientific study as a guide for its conservation and fruition

PRINCIPAL INVESTIGATOR (PI)

Milene Gil Duarte Casal,
HERCULES Lab – University of Évora

NOVA's PI: Mariana de Lemos dos Santos, IHA – NOVA FCSH

DESCRIPTION

The ALMADA project intends to study for the first time with image and analysis techniques the legacy of mural painting by Almada Negreiros, one of the key fig-

ures of the avant-garde and modernism in Portugal. Highlights are the five nuclei of mural paintings commissioned in the city of Lisbon between 1938 and 1956, in the Church of Nossa Sr^a do Rosário de Fátima, the Maritime Stations of Alcântara and Rocha do Conde de Óbidos and the Patrício Prazeres school.



Unravelling Evolutionary Physiology Landscapes of Coastal marine Fauna Under Extreme Temperatures using a Multi-Layer Systems Biology Approach

PRINCIPAL INVESTIGATOR (PI)

Sara Carolina Gusmão Coito Madeira, NOVA.ID.FCT

**UAlg's PI: Catarina Vinagre - Ester Serrão,
CCMar – University of Algarve**

DESCRIPTION

ExtremeOceans proposes that the understanding the molecular mechanisms underlying plasticity, adaptation and vulnerability of species subjected to ocean warming and heat waves can help us predict consequences beyond the narrow time-frame of climate change effects-oriented research. The main aim of ExtremeOceans is to unravel the genomic basis of adaptation and the role of epigenetics in phenotypic plasticity, describing the regulation of functional molecular networks and biological pathways of marine species under seasonal warming and heat wave events.

To tackle this challenge, our team will use a multi-layer Systems Biology approach to integrate several lines of evidence:

- variation in biomolecular profiles of wild intertidal fish populations across climate provinces and seasons in the Portuguese coast, determined by multi-omics analyses (transcriptomics, epigenomics and proteomics);
- assessment of individuals' performance under heat wave scenarios in lab experiments, based on selected endpoints with physiological and ecological relevance;

- macroevolutionary analyses of genes, proteins, molecular networks, physiological adaptations and ecological and functional traits using Bayesian modelling approaches.

Based on the critical understanding of physiological networks, their interactions and evolution, and how these determine key functional traits important for modifying tolerance limits in marine species, we will be able to ultimately screen the tree of life for heat vulnerable or tolerant species, providing information on dynamic interactions and radiation processes.



Lorvão: Books, Rituals and Space in a Cistercian Nunnery. Living, Praying and Reading in Lorvão, 13th-16th centuries

PRINCIPAL INVESTIGATOR (PI)

Catarina Fernandes Barreira, IEM – NOVA FCSH

UÉvora's PI: Catarina de Sousa Cabral,
Laboratório HERCULES – University of Évora

DESCRIPTION

The project aims to study, in an interdisciplinary way, the liturgical codices that were part of the library of the Monastery of Lorvão, the first female Cistercian house in Portugal, contributing to the integration of national monastic studies in gender studies, in the period between the beginnings of the 13th century and the end of the 16th century, in a corpus of about three dozen codices.

We intend to analyze this corpus, on the one hand, in material terms, that is, the characteristics of the codex from the il-

luminated decoration, pigments/paints and parchment used, to the binding materials and methods, including a survey of its conservation status and additions /changes suffered, contributing to the history of the book and conservation; on the other hand, in liturgical and content terms, characterizing its uses and types of circulation in the monastery, as well as the role of the nuns in ordering and in the formation/conservation of this library. This interdisciplinary study will provide data that can contribute to the raising of hypotheses regarding the characterization of the scriptorium or scriptoria of origin of the codices and their particularities, as well as realizing whether the liturgy practiced in Lorvão during the female period reveals identity traits and/or submitted to Cistercian liturgical unanimity.



Portuguese municipal charters in the Middle Ages: an historical and linguistic approach in the digital era

PRINCIPAL INVESTIGATOR (PI)

Filipa Roldão, University of Lisbon

NOVA's PI: **Adelaide Millán da Costa - Amélia Aguiar**

Andrade - Maria João Branco, IEM - NOVA FCSH

UÉvora's PI: **Hermínia Vilar, University of Évora**

DESCRIPTION

Throughout the 12th and 13th centuries, the construction of the kingdom of Portugal saw the written contractualization of long-term legal relationships in the form of charters. Considering the charters granted by the royal power, this project aims to reinterpret the nature of these documents (circumstances of granting and textual transmission) and their function in the broad framework of the relationship between the councils and the royal administration. To this end, this project is based on a key idea: interdisciplinarity. History and Linguistics will provide research with its conceptual and methodological tools; and Digital Humanities, the necessary instrumental tools to enhance results and make research and dissemination effective. The main instrumental objective of the project is to constitute a corpus of Portuguese medieval charters, critically and electronically edited, for historical-linguistic reflection. To this end, we will develop innovative methodologies, based on semi-automatic tools for optimizing tasks, making the project results available in open access.

This project promotes the safeguarding of one of the oldest examples of written heritage of local powers, cities and the kingdom of Portugal, and with its memory, we prepare a better response to some of

the major goals of the United Nations for 2030, such as knowledge about justice, defense, equity, economic and ecological sustainability of peoples.



PRINCIPAL INVESTIGATOR (PI)

Maria João Cabrita, University of Évora (ICAAM)

NOVA's PI: *Marco Gomes da Silva*, NOVA.id.FCT/FCT-UNL

MedOOmics - Mediterranean Extra Virgin Oil Omics: profiling and fingerprinting (2014-2019)

DESCRIPTION

MedOOmics (Mediterranean Extra Virgin Olive Oil Omics: profiling and fingerprinting) aims to profile and fingerprint monovarietal extra virgin olive oils made of the most typical varieties from different regions of four countries, addressing issues related to varietal and geographical traceability and authentication. The objectives can be summarized as 1) the establishment of chemical markers of geographical

and varietal traceability and 2) establish a pattern comprising the “markers of authenticity” to be used in the identification of olive oil adulterations. The novelty of MedOOmics is based on an integrated approach, comprising a deep knowledge of some of the least studied olive oil varieties in the Mediterranean Basin. Altogether, this proposal will contribute to the implementation of a “MedOOmics database” comprising the chemical markers of varietal and geographical origin for the most relevant EVOOs from the Mediterranean countries encompassed in this work, which constitute a valuable tool in the field of “Food Authentication”.



PIC 4 COVID-19

PRINCIPAL INVESTIGATOR (PI)

Manuel José Lopes, University of Évora, CHRC
- Comprehensive Health Research Centre

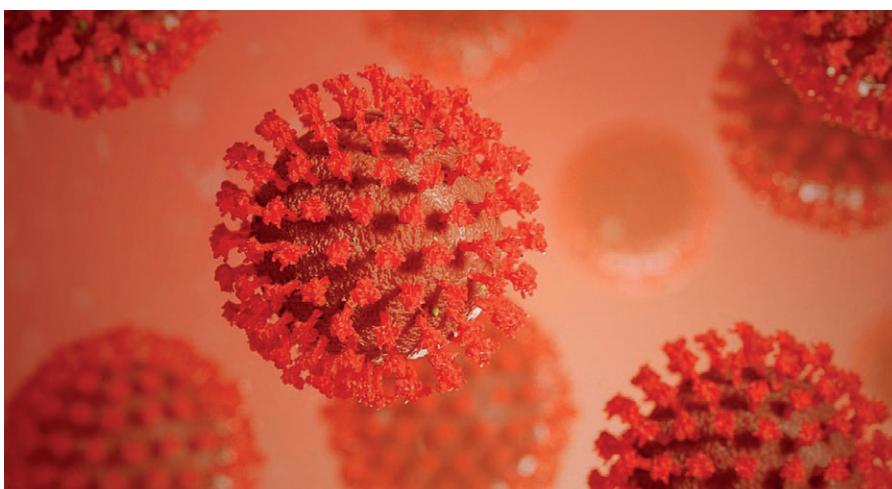
NOVA's PI: Helena Canhão (FCM/NMS)
and Ana Escoval (ENSP)

DESCRIPTION

The PIC is an instrument that, by using clinical information and evidence, facilitates personalized, integrated planning and guarantees the continuity of care, providing the patient and caregiver with informed decisions. Thus, it will be possible to promote literacy, functional status, self-care, effectiveness, quality of life and medication safety, and reduce the use of health services, hospital admissions, and mortality of patients with COVID-19 at home.

ENSP-NOVA is a partner in the project led by the University of Évora, as well as the Centro Hospitalar Lisboa Norte, EPE, DECSIS – Sistemas de Informação, SA,

the Hospital do Espírito Santo (Évora), the NOVA Medical School and the Comprehensive Health Research Center (CHRC).



RESISTANCE: Rebellion and Resistance in the Iberian Empires, 16th-19th centuries

PRINCIPAL INVESTIGATOR (PI)

Mafalda Soares da Cunha,
University of Évora (CIDEHUS)

NOVA's PI: Pedro Cardim, CHAM – NOVA FCSH

DESCRIPTION

Economic inequalities, social exclusion, discrimination against minorities, cultural resistance and disruption of social cohesion – these are all key concerns in the current European and global agenda, both in scholarly work and policy-making. RESISTANCE aims to analyse these issues by focusing on the processes of resistance carried out by social actors that have been historically disadvantaged, discriminated against and dominated. By using a concept of resistance that connects continued and less visible forms of resistance, cultural dissent and violent revolts, the ultimate goal of RESISTANCE is to produce a reinterpretation of the universe of “the dominated”. RESISTANCE will provide an understanding of how these actors could influence processes of social change, either by opening up societies to diversity and making them more inclusive and equal, or, conversely, by causing the increase of repression.

Rooted in the disciplinary field of history, RESISTANCE uses the past as a laboratory for the analysis. Focusing on the former

Portuguese and Spanish empires, this project privileges a comparative approach in time and space in order to investigate an extended timeframe (sixteenth to mid-nineteenth centuries) and a spatial framework that encompasses Europe, the Americas, Africa and Asia. The past experiences of their societies, strongly grounded on ethnic, social, economic, cultural, religious, and gender inequality, still shape current political and social dynamics.

RESISTANCE is led by the University of Évora, and made up of seven beneficiary universities in Portugal, Spain and Germany, plus six universities in third countries (Chile, Argentina, Brazil, Cape Verde, Mexico and USA).



EOSC-Life: Providing an open collaborative space for digital biology in Europe

PRINCIPAL INVESTIGATOR (PI)

Rupert Lueck, European Molecular Biology Laboratory

NOVA's PI: *Emilia Monteiro*, NOVA Medical School
UALg's PI: *Adelino Canário*, CCMar – University of Algarve

DESCRIPTION

EOSC-Life brings together the 13 Biological and Medical ESFRI research infrastructures (BMS RIs) to create an open collaborative space for digital biology. It is our joint response to the challenge of analysing and reusing the prodigious amounts of data produced by life-science. Managing and integrating this data is beyond the capabilities of most individual end-users and institutes. By publishing data and tools in a Europe-wide cloud EOSC-Life aims to bring the capabilities of big science projects to the wider research community. Federated user access (AAI) will allow transnational resource access and authorisation. EOSC-Life establishes a novel access model for the BMS RI: through EOSC scientists would gain direct access to FAIR data and tools in a cloud environment available throughout the European Research Area.

EOSC-Life will make BMS RIs data resources FAIR and publish them in the EOSC following guidelines and standards (e.g. EDMI). Overall this will drive the evolution of the RI repository infrastructure for EOSC and integration of the BMS RI repositories. EOSC-Life will implement workflows that cross disciplines and RI boundaries and address the needs of interdisciplinary science. Through open hackathons and bring-your-own-data events we will co-create EOSC-Life with

our user communities, providing a blueprint for how the EOSC supports wide-spread and excellent data-driven life science research. EOSC-Life will address the data policies needed for human research data under GDPR. Interoperable provenance information describe history of sample and data to ensure reproducibility and adherence to regulatory requirements.

The goal of the EOSC-Life project is to make sure that life-scientists can find, access and integrate life-science data for analysis and reuse in academic and industrial research. EOSC-Life will transform European life-science by providing an open, continent-scale, collaborative and interdisciplinary environment for data science.

PRINCIPAL INVESTIGATOR (PI)

Fernanda de Mesquita Lobo Veloso, BRGM
 - Bureau de Recherches Géologiques et Minières

NOVA's PI: **Patrícia Fortes, CENSE – FCT NOVA**
UÉvora's PI: **Júlio Ferreira Carneiro, University of Évora**

Strategy CCUS: strategic planning of regions and territories in europe for low-carbon energy and industry through CCUS

DESCRIPTION

The STRATEGY CCUS project aims to elaborate strategic plans for CCUS development in Southern and Eastern Europe at short term (up to 3 years), medium term (3-10 years) and long term (more than 10 years). Specific objectives are to develop:

- Local CCUS development plans, with local business models, within promising start-up regions;
- Connection plans with transport corridors between local CCUS clusters, and with the North Sea infrastructure, in order to improve performance and reduce costs, thus contributing to build a Europe-wide CCUS infrastructure.

As recommended by the SET Plan Action 9, the STRATEGY CCUS project will study options for CCUS clusters in Eastern and Southern Europe, as at present the CCUS clusters being progressed are concentrated in Western Europe around the North Sea. Therefore, the project is timely for the strategic planning for CCUS development in the whole of Europe.

Strategic planning will consider 8 promising regions, within 7 countries (ES, FR, GR, HR, PO, PT, RO) representing 45% of the European CO₂ emissions from the industry and energy sectors. These regions satisfy CCUS relevant criteria: presence of an industrial cluster, possibilities for CO₂ storage and/or utilization, potential for coupling with hydrogen production and use, existing studies, and political will.

The methodology starts with a detailed mapping of CCUS technical potential of the regions together with a comprehensive mapping of local stakeholders and a process for their engagement. This will pave the ground for CCUS deployment scenarios including assessment of ‘bankable’ storage capacity, economic and environmental evaluation.

The project strength relies on of a highly skilled consortium with experience on the whole CCUS chain as well as key transverse skills. CCUS development plans will be elaborated in close cooperation with stakeholders, through the Regional Stakeholder Committees and the Industry Club, to ensure plans can be implemented, i.e. socially acceptable.

Por3O - Portuguese Olive Oil Omics for traceability and authenticity

PRINCIPAL INVESTIGATOR (PI)

Maria João Cabrita, University of Évora

Partners: ICAAM, HERCULES, CQE (University of Évora), REQUIMTE (NOVA.ID.FCT) and INIAV

DESCRIPTION

The project is based on genomic and metabolomic approaches and the main goals are: the authenticity of extra virgin olive oils, considering geographic and varietal aspect, and the genuineness of the product to yield a useful tool for screening for fraud and for the olive oil certification.



Ocean4Biotech: European transdisciplinary networking platform for marine biotechnology

PRINCIPAL INVESTIGATOR (PI)

Ana Rotter, NIB - National Institute Biology, Slovenia

NOVA's PI: Susana Pereira Gaudêncio, UCIBIO – FCT NOVA

UAlg's PI: Leonor Cancela, CCMar – University of Algarve

makers, industrial and societal actors can work together.

DESCRIPTION

Marine organisms produce a vast diversity of primary and secondary metabolites with antibacterial, antifungal, anticancer, analgesic, anti-inflammatory, nutritional, photoprotective activity or other beneficial properties. The exploitation of marine bioresources and the valorisation of their natural products are encompassed by the burgeoning field of marine biotechnology, which is a high priority for the successful implementation of Blue Growth and Bioeconomy strategies within the EU. Marine biotechnology contributes to achieving 14 out of 17 UN sustainable development goals.

The overall aim of Ocean4Biotech is to bring together experts in the field of marine biotechnology, to provide a platform for sharing experience, knowledge and technologies, and to design a roadmap for a more efficient and rapid development of marine biotechnology research in Europe and beyond. To best of our knowledge, such a large, diverse and geographically dispersed network of experts in marine biotechnology does not exist. Since marine biotechnology is still in its infancy, we believe this is the optimal timing to create this efficient, operational, motivated, inclusive and sustainable network with a serious and ambitious commitment for proactive dissemination and science communication activities.

While the demand for alternative sources of food, drugs and chemicals is increasing, the sea and its vast biota remain largely underexplored and unexploited. Despite the short history marine organisms delivered close to 30.000 natural products, many more awaiting to be discovered. This implies a strong need for enhanced transdisciplinary collaborations within scientific fields and multisectoral collaboration where citizens, researchers, policy



INVESTIGAÇÃO / RESEARCH

4.3 Unidades de Investigação e Desenvolvimento

4.3 Research & Development Units

PRINCIPAL INVESTIGATOR (PI)

Baltazar Castro, University of Porto

NOVA's Coordinator: João Paulo Crespo, FCT NOVA

Évora's Coordinator: Manuela Ribeiro Carroll

Other entities: University of Aveiro; University of Coimbra; University of Trás-os-Montes e Alto Douro; Polytechnic Institute of Porto

LAQV-REQUIMTE
Associated Laboratory for Green Chemistry
- Clean Technologies and Processes

DESCRIPTION

The Associated Laboratory for Green Chemistry is the Portuguese Research Centre for Sustainable Chemistry, hosted by the Network of Chemistry and Technology (REQUIMTE). The vision of LAQV is for a world in which Sustainable Chemistry is used as a powerful and dynamic tool to tackle the societal, economic, and environmental challenges of modern life.

Accordingly, our mission is to initiate, advance, and promote the principles of Sustainable Chemistry through a multiplicity of research, networking, training, and outreach activities.

LAQV aims at keeping a pivotal role in the Portuguese scientific system and at continuing to be an internationally recognized partner in all areas related to Sustainable Chemistry, a key component of an imperative World Sustainable Development.



MARE**Marine and Environmental Sciences Centre****PRINCIPAL
INVESTIGATOR (PI)****João Carlos Marques**, University of Coimbra**NOVA's Coordinator:** Graça Martinho, FCT NOVA**Évora's Coordinator:** Helena Adão, University of Évora**Other entities:** University of Madeira; Polytechnic Institute of Leiria; Instituto Superior de Psicologia Aplicada**DESCRIPTION**

MARE is a multipolar centre for research, technological development and innovation, with an integrative and holistic approach, concentrating a wide diversity of expertise, skills, and capabilities, with a nationwide territorial implementation, that develops its activities oriented to societal challenges, in close partnership with national and international research centres.

MARE has the technical and scientific expertise to approach all types of aquatic systems, from river basins and associated landscapes, to estuaries, coastal, and large marine ecosystems.



PRINCIPAL SCIENTIFIC COORDINATOR

Manuel Pedro Ferreira, NOVA FCSH

Évora's Coordinator: Eduardo Lopes – University of Évora

Other entities: Polytechnic Institute of Leiria;

Polytechnic Institute of Porto

CESEM

**Research Centre for the Sociology
and Aesthetics of Music**

DESCRIPTION

CESEM is a research unit devoted to the study of music and its correlation with other arts, culture and society, incorporating various approaches and making use of the latest perspectives and methodologies in Social and Human Sciences.

These are the general purposes of CESEM:

- Create a suitable environment for teamwork, organized to tackle the identified scientific needs and priorities;
- Support the research interests of its members and their participation in international professional venues, and the publication of the research results;
- Promote new collaborative research projects that deepen the knowledge and dissemination of Portuguese, Iberian and Latin American themes;
- Create new research tools, applications, and databases, allowing the international academic community to study local repertoires and other little explored objects as well as promoting

the role of Music in contemporary Portuguese life;

- Foster a renewed atmosphere of research and debate, bringing its members together in a dynamic musicological community capable of maintaining excellence in postgraduate studies in Music.



**PRINCIPAL
SCIENTIFIC
COORDINATOR**

Helena Serra, NOVA FCSH

DESCRIPTION

CICS.NOVA's mission is to undertake high quality and innovative interdisciplinary research for critical thinking in social sciences and policy-making. CICS.NOVA values fundamental and applied research from an interdisciplinary perspective, taking into account the complexity of territorial systems and human behavior, the particularity of the functioning of institutions and the relationship with the surrounding spatial and social context. The strong interdisciplinary strategy connects and enhances the knowledge in Sociology and Geography, as nuclear areas, and other Social Sciences, but also in Environmental and Natural Sciences, in its fundamental and applied components. CICS.NOVA's research contributes to the

Évora's Coordinator: Carlos Alberto Silva
Other entities: University of Açores; University of Minho; Polytechnic Institute of Leiria

building of regional strategies, aiming at the reconfiguration of regional maps through the development of research contracts with regional and local government bodies and civil society institutions.

CICS.NOVA is based at NOVA University Lisbon and has four regional hubs, in the mainland (Braga-University of Minho, Leiria-Polytechnic of Leiria, Évora-University of Évora) and at the islands (Ponta Delgada, Azores-University of the Azores).



PRINCIPAL SCIENTIFIC COORDINATOR

José Neves, NOVA FCSH

Évora's Coordinator: Fátima Nunes

DESCRIPTION

The Institute of Contemporary History (IHC) develops its activity with an interdisciplinary approach, covering a wide range of topics concerning the conceptualization, contextualization and interpretation of the historical reality of the period between the Napoleonic wars and the present time. The recognition that

the IHC receives from the academic, scientific, educational, and cultural sectors in Portugal makes it an attraction Centre for a significant number of early-career researchers and professionals from several fields, namely archive, education, culture and tourism, and from state bodies. The IHC has research facilities both in Lisbon, at the NOVA School of Social Sciences and Humanities, and in Évora, at the University of Évora.



CINTESIS
**Center for Health Technology
and Services Research**

**PRINCIPAL
SCIENTIFIC
COORDINATOR**

Altamiro Costa Pereira, Faculty of Medicine of the University of Porto

DESCRIPTION

CINTESIS's mission is to find answers and solutions, in the short term, to relevant health problems, without ever losing sight of the cost-benefit ratio. Hosted at the University of Porto, CINTESIS takes pride in its multicenter, decentralized and flexible nature grounded in 46 partner institutions (29 Higher Education institutions, 12 hospitals/health institutions and 5 health companies) and 8 Higher Education institutions acting as hubs, namely, 5 universities (University of Porto, NOVA University Lisbon, University of Aveiro, University of Algarve, University of Madeira) and 1 Polytech-

NOVA's Coordinator: Conceição Calhau, NOVA Medical School

Algarve's Coordinator: Ana Teresa Maia

Other entities: University of Aveiro; University of Madeira; Polytechnic Institute of Porto

nic Institution (Nursing School of Porto).

Altogether, the center aggregates over 500 researchers, in 24 research groups working in 3 main thematic lines: Preventive Health and Societal Challenges (TL1), Clinical and Translational Research (TL2), and Health Data and Decision Sciences & Information Technologies (TL3).



PRINCIPAL SCIENTIFIC COORDINATOR

Helena Canhão, NOVA Medical School

Évora's Coordinator: Armando Raimundo
Other Entities: Hospital Santo Espírito da Ilha
 Terceira - Azores; Lisbon Institute of Global Mental Health (LIGMH)

CHRC
Comprehensive Health Research Centre (CHRC)

DESCRIPTION

The Comprehensive Health Research Centre (CHRC) is a multidisciplinary, multi-institutional and comprehensive new research centre rated as Excellent by National Foundation for Science and Technology.

Aimed at supporting, developing and fostering clinical, public health and health services research, CHRC's pillars and central activities are health education, training and innovation.

CHRC's mission is to produce robust evidence to improve current clinical practice, health policy and healthcare services organization. To ensure that our research reaches its audience we are also committed to patient health education, empowerment, and exploiting research findings into commercial applications.

The research team investigate, collaborate and teach across 4 thematic lines:

1. Health promotion, population health and lifestyles;
2. High burden and high mortality;
3. Health policies and healthcare services research;
4. Health innovation.



MED

**Mediterranean Institute for Agriculture,
Environment and Development**

**PRINCIPAL
SCIENTIFIC
COORDINATOR**

Teresa Pinto Correia, University of Évora

DESCRIPTION

MED's mission is to promote ecosystem sustainability and food security as contribution towards territorial cohesion and wellbeing. It seeks excellence in research, producing solid scientific and technological knowledge, but also solutions for the sustainability of agroecosystems, environment and territories.

Algarve's Coordinator: Anabela Romano
Partners: ICAAM (University of Évora); CIBIO-INBIO (University of Évora); CEBAL; MeditBio (University of Algarve)



DIRECTOR

Luís Caires, NOVA FCT

Évora's Coordinator: Salvador Abreu

Other Entities: University of Beira Interior;
University of Madeira; Polytechnical Institute of
Lisbon; Polytechnical Institute of Setúbal

DESCRIPTION

The main mission of NOVA LINCS is to develop cutting-edge scientific research in key areas of Computer Science and IT, contribute to advance training in these fields, and to disseminate knowledge, outputs and innovation produced to the community.



INVESTIGAÇÃO / RESEARCH

4.4 Laboratórios Associados

4.4 Associated Laboratories

PRINCIPAL COORDINATOR

Baltazar Castro, University of Porto

NOVA's Coordinator: João Paulo Crespo,
FCT NOVA; Márcia Vilarigues, FCT NOVA

Évora's Coordinator: Manuela Ribeiro Carrott

R&D Units: Associated Laboratory for Green Chemistry
- Clean Technologies and Processes (REQUIMTE);
Glass and Ceramic for the Arts (VICARTE)

DESCRIPTION

The Associated Laboratory for Green Chemistry is the Portuguese Research Centre for Sustainable Chemistry, hosted by the Network of Chemistry and Technology (REQUIMTE). The vision of LAQV is for a world in which Sustainable Chemistry is used as a powerful and dynamic tool to tackle the societal, economic, and en-

vironmental challenges of modern life. Accordingly, our mission is to initiate, advance, and promote the principles of Sustainable Chemistry through a multiplicity of research, networking, training, and outreach activities.

LAQV aims at keeping a pivotal role in the Portuguese scientific system and at continuing to be an internationally recognized partner in all areas related to Sustainable Chemistry, a key component of an imperative World Sustainable Development.



CHANGE

**Institute for Global Change
and Sustainability**

**PRINCIPAL
COORDINATOR**

Teresa Pinto Correia, University of Évora

NOVA's Coordinator: Rui Ferreira
dos Santos, CENSE | FCT NOVA

R&D Units: Mediterranean Institute for Agriculture - Environment and Development (MED); Center for Research on Environment and Sustainability (CENSE); Centre for Ecology - Evolution and Environmental Changes (cE3c)

DESCRIPTION

CHANGE is the first Associate Laboratory entirely dedicated to Global Change and Sustainability in Portugal, and aims to become a reference in research and innovation for the development, evaluation and operationalization of regional, national and international policies. The main objective of this laboratory is to promote interdisciplinary links and contribute to making the environment more resilient and economies more sustainable. By combining Social Sciences, Natural Sciences and Engineering, CHANGE seeks to build public policy solutions that can contribute to a competitive

economy, but also efficient in the use of resources, and environmentally sustainable.



PRINCIPAL COORDINATOR

João Carlos Marques, University of Coimbra

NOVA's Coordinator: Graça Martinho - FCT NOVA

Évora's Coordinator: Helena Adão

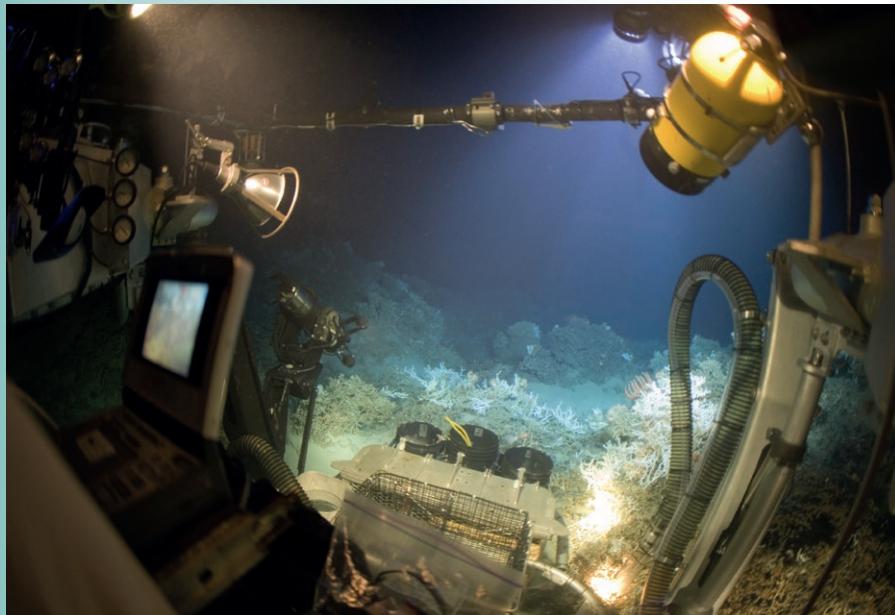
Algarve's Coordinator: Maria João Bebianno

R&D Units: Marine and Environmental Sciences Centre (MARE); Centre for Marine and Environmental Research (CIMA UALG); Centre of Molecular and Environmental Biology (CBMA);

DESCRIPTION

ARI-NET is a new Associated Laboratory (AL) application for a network geographically distributed in mainland Portugal and in the archipelago of Madeira, with a total of nine poles. It is organized in two main research areas: Ocean and Coastal

Dynamics and Environmental Systems and Resources, covering of all aquatic ecosystems (from fresh water to marine waters). The ARI-NET Strategic plan to support public policy response to scientific, health, social, environmental, and economic challenges relies on 5 Thematic Lines (TL) with a transversal view of the investigation of ecosystems, from exploration and monitoring, bioeconomic, global changes and governance and literacy.



RISE**Health Research Network: from the Lab to the Community****PRINCIPAL COORDINATOR**

Fernando Schmitt, Faculty of Medicine of the University of Porto

NOVA's Coordinator: Conceição Calhau, NOVA Medical School

Algarve's Coordinator: Ana Teresa Maia

R&D Units: Center for Health Technology and Services

Research (CINTESIS); Cardiovascular Centre of the University

of Lisbon (CCUL); Cardiovascular R&D Unit (UnIC);

Portuguese Oncology Institute-Porto

Research Center (CI-IPOP)

DESCRIPTION

The RISE Associated Laboratory is focused on clinical and translational research and innovation and aims to strengthen health research in the Portuguese Scientific and Technological Systems, from the preclinical and clinical stages to the community level, supporting and fostering the goals of the Portuguese policy for science and technology. In harmony with this general aim, RISE commits to meet three key sustainability goals, relying on its strong human infrastructure of (clinical and translational) researchers and healthcare professionals who will act on a physical infrastructure merging the academia and the healthcare system:

- Promote scientific and technical careers for doctorates, while ensuring talent attraction for Portugal.
- Support governmental entities in monitoring public policy addressed to scientific, health, social, environmental and economic challenges.
- Increase and diversify funding sources from European Union and from other international agencies.



PRINCIPAL COORDINATOR

Helena Canhão, NOVA Medical School

Évora's Coordinator: Armando Raimundo

R&D Units: Comprehensive Health Research Centre (CHRC); Global Health and Tropical Medicine (GHTM); Laboratory for Instrumentation - Biomedical Engineering and Radiation Physics (LIBPhys)

DESCRIPTION

The Associated Laboratory in Translation and Innovation Towards Global Health (REAL) is a multidisciplinary, multi-institutional and highly collaborative new associated laboratory aiming at advancing translation science and medicine, in a bench-to-bedside approach, discovering and developing new diagnostic tools and

treatments and ensuring that proven strategies for disease treatment and prevention are actually implemented within the community. REAL is committed to stimulate research of excellence and new discoveries - vaccines, health literacy tools, biomarkers (digital, genetic, serologic) and novel treatments - and to identify opportunities for technology transfer with the promotion of joint ventures between academia and private and public institutions.



IN2PAST

**Research and Innovation in Heritage,
Arts, Sustainability and Territory**

**PRINCIPAL
COORDINATOR**

António Candeias, University of Évora

DESCRIPTION

IN2PAST, Associate Laboratory for Research and Innovation in Heritage, Arts, Sustainability and Territory, is dedicated to the preservation, study and promotion of cultural heritage, generating intensive collaborative relations between: 1) academic, laboratory-based, theoretical and empirical research; 2) public policies concerning the domains of cultural heritage, arts and civic memory; 3) an important set of Portuguese cultural institutions and facilities, namely monuments, museums, archives, archaeological sites and natural parks.

The creation of IN2PAST thus contributes to the effective implementation of a na-

NOVA Coordinators: *Manuel Pedro Ferreira (CESEM); Marta Prista (CRIA); Joana Cunha Leal (IHA); José Neves (IHC)*
R&D Units: *HERCULES Lab - Cultural Heritage Studies and Protection (HERITAGE); Institute for the History of Art (IHA); Centre for Art History and Artistic Research (CHAIA); Centre for Research in Anthropology (CRIA); Research Centre for the Sociology and Aesthetics of Music (CESEM); Institute of Contemporary History (IHC); Landscape, Heritage and Territory Laboratory (Lab2PT)*

tional strategy for science and technology, particularly in regard to the 'R&D Agenda for Culture and Cultural Heritage'. As the Agenda states, it is necessary to create an «an instrument of interaction and articulation between researchers and R&D units, administrative entities, social agents, and companies focused on responding to societal challenges».



5% INOVAÇÃO INNOVATION







INNO – CENTRO DE INOVAÇÃO SOCIAL DA NOVA

Coordenador: Luís Baptista

Centro de interface entre a NOVA e entidades do setor público e privado, empresas e organizações sociais que, através do recurso à Tecnologia, em estreita colaboração com a Cidade, pretende contribuir ativamente para o desenvolvimento de políticas públicas inovadoras, para a promoção da equidade social e a sustentabilidade da nossa sociedade.

Localização: Universidade NOVA de Lisboa, Colégio Almada Negreiros, Campus de Campolide | 1099-085 Lisboa

Website: <https://www.unl.pt/inovacao/inno-centro-de-inovacao-social>

INNO – NOVA CENTER FOR SOCIAL INNOVATION

Coordinator: Luís Baptista

Interface center between NOVA and entities from the public and private sector, companies and social organizations, and which, through the use of Technology, in close collaboration with the City, intends to actively contribute to the development of innovative public policies to promote social equity and the sustainability of our society.

Location: NOVA University of Lisbon, Almada Negreiros College, Campolide Campus | 1099-085 Lisbon

Website: <https://www.unl.pt/inovacao/inno-centro-de-inovacao-social>

TRIALS - TRANSFERÊNCIA DA INVESTIGAÇÃO PARA UMA SOCIEDADE COM LIDERANÇA AVANÇADA

Coordenador: Jaime da Cunha Branco (NOVA Medical School)

Participantes: NOVA (coordenadora), Associação EUPATI Portugal, Associação Portuguesa da Indústria Farmacêutica (APIFARMA), Centro de Medicina Laboratorial Germano de Sousa, Centro Hospitalar de Lisboa Ocidental, E.P.E., Grupo Luz Saúde, Sociedade Portuguesa de Inovação e Universidade de Évora.

O TRIALS é um laboratório colaborativo que pretende alavancar a investigação clínica para aumentar a inovação no setor da saúde, comprometendo os atores relevantes a trabalhar em conjunto para o objetivo comum de reforço das competências da equipa multidisciplinar em investigação clínica, e criando assim um quadro único de excelência nesta área em Portugal.

Localização: Campo dos Mártires da Pátria 130 | 1169-056 Lisbon

Website: n.a.

TRIALS - TRANSFER RESEARCH INTO ADVANCED LEADERSHIP IN SOCIETY

Coordinator: Jaime da Cunha Branco (NOVA Medical School)

Participants: NOVA (coordinator), EUPATI Portugal Association, Portuguese Association of the Pharmaceutical Industry (APIFARMA), Germano de Sousa Laboratory Medicine Center, Western Lisbon Hospital Center, Luz Saúde, Portuguese Society of Innovation and University of Évora.

TRIALS is collaborative lab that seeks to leverage clinical R&D to increase innovation in the health sector, by compromising relevant players working together towards the common goal of strengthening multidisciplinary team's skills in clinical research, thus creating a unique framework of excellence in that field in Portugal.

Location: Campo dos Mártires da Pátria 130 | 1169-056 Lisbon

Website: n.a.

INNOVPLANTPROTECT

Coordenador: Pedro Fevereiro (ITQB NOVA)

Participantes: NOVA (coordenadora), INIAV, Município de Elvas, Bayer Crop Science, Syngenta Crop Protection, Fertiprado, ANPROMIS, Casa do Arroz, CEBAL, ANPOC, FNOP e Universidade de Évora

O InnovPlantProtect (InPP) é um Laboratório Colaborativo criado para desenvolver soluções inovadoras de base biológica para proteger as culturas de pragas e doenças e prestar serviços de diagnóstico e monitorização, contribuindo assim para a sustentabilidade dos sistemas agrícolas. Tem como foco prioritário as culturas mediterrânicas, em particular a sua proteção contra pragas e doenças emergentes, associadas às alterações climáticas, cujos efeitos nocivos já são visíveis em muitos países, inclusive em Portugal.

Localização: Estrada de Gil Vaz, Apartado 72 | 7350-999 Elvas

Website: <https://iplantprotect.pt/>

INNOVPLANTPROTECT

Coordinator: Pedro Fevereiro (ITQB NOVA)

Participants: NOVA (coordinator), INIAV, Elvas Municipality, Bayer Crop Science, Syngenta Crop Protection, Fertiprado, ANPROMIS, Casa do Arroz, CEBAL, ANPOC, FNOP and University of Évora

InnovPlantProtect (InPP) is a Collaborative Laboratory designed to develop innovative bio-based solutions to protect crops from pests and diseases and provide diagnostic and monitoring services, contributing to the agricultural systems' sustainability. Its priority focus is on Mediterranean cultures, in particular their protection against emerging pests and diseases associated with climate change, whose harmful effects are already visible in many countries, including Portugal.

Location: Gil Vaz Road, Apartado 72 | 7350-999 Elvas

Website: <https://iplantprotect.pt/>

S2AQUACOLAB

Coordenador: Pedro Pousão Ferreira (IPMA)

Participantes: IPMA (coordenador), Universidade do Algarve (CIMA), CCMAR, Instituto Politécnico de Leiria, Câmara Municipal de Olhão, Cooperativa Formosa, ACUINOVA, Piscicultura Vale da Lama, SPAROS, NECTON, AtlantikFish, Viveiros da Espargueira, Bivalvia, Oceano Fresco e Riasearch

Com vista à inovação para uma aquacultura sustentável e inteligente, o Laboratório Colaborativo S2AQUACoLAB é uma associação (S2AQUA) entre instituições do sistema I&D, várias empresas e uma cooperativa do setor da aquacultura. Este laboratório pretende ter um papel ativo na transferência de conhecimento e tecnologias e disponibilizar serviços que aumentem a segurança alimentar e diversifiquem os produtos da aquacultura.

Localização: Estação Piloto de Piscicultura de Olhão (EPPO) | 8700-225 Quelfes

Website: <https://www.ipma.pt/pt/pescas/eppo/colab/index.jsp>

S2AQUACOLAB

Coordinator: Pedro Pousão Ferreira (IPMA)

Participants: IPMA (coordinator), University of Algarve (CIMA), CCMAR, Polytechnic Institute of Leiria, Olhão Municipality, Cooperativa Formosa, ACUINOVA, Pisciculture Vale da Lama, SPAROS, NECTON, Atlantik-Fish, Espargueira Nurseries, Bivalvia, Oceano Fresco and Riasearch

Towards innovation for a sustainable and intelligent aquaculture, the Collaborative Laboratory S2AQUACoLAB is an association (S2AQUA) between institutions of the R&D system, several companies and a cooperative in the aquaculture sector. This laboratory intends to play an active role in the transfer of knowledge and technologies and provide services that increase food security and diversify aquaculture products.

Location: Olhão Aquaculture Research Station | 8700-225 Quelfes

Website: <https://www.ipma.pt/pt/pescas/eppo/colab/index.jsp>

INSTITUTO DE ARTE E TECNOLOGIA (NOVA IAT)

Coordenadores: João Mário Grilo (NOVA FCSH) e Nuno Correia (NOVA FCT)

Este Instituto visa desenvolver, através da formação, da investigação, da inovação e da prestação de serviços, num contexto internacional de excelência, a criação artística e de produtos e de serviços que incorporem uma dimensão estética ou de design, baseada na tecnologia em todas as suas formas. Pretende contribuir para a harmonia e inclusão sociais, promovendo o diálogo intercultural entre os diferentes grupos sociais, em especial, mas não exclusivamente, na zona de Almada e entre a população jovem.

Localização: Antigo Presídio da Trafaria | 2825-879 Trafaria

Website: <https://www.unl.pt/nova/instituto-de-arte-e-tecnologia>

INSTITUTE OF ART AND TECHNOLOGY (NOVA IAT)

Coordinators: João Mário Grilo (NOVA FCSH) and Nuno Correia (NOVA FCT)

This Institute aims to develop, through training, research, innovation and the services provision, in an international context of excellence, the artistic creation and of products and services that incorporate an aesthetic or design dimension, based on technology in all its forms. It intends to contribute to social harmony and inclusion, promoting intercultural dialogue between different social groups, especially, but not exclusively, in the Almada area and among the young population.

Location: Trafaria's Old Prison | 2825-879 Trafaria

Website: <https://www.unl.pt/nova/instituto-de-arte-e-tecnologia>



Ficha Técnica

TÍTULO/TITLE

Campus Sul - Associação Interuniversitária do Sul

PROPRIEDADE/PROPERTY

Universidade de Évora

Universidade do Algarve

Universidade NOVA de Lisboa

DESIGN GRÁFICO E PAGINAÇÃO/ GRAPHIC DESIGN AND PAGINATION

Ana Ventura

IMPRESSÃO/PRINTING:

IDG - Imagem Digital Gráfica

EDIÇÃO/EDITION

Setembro 2021 / September 2021



Para mais informações / For more information
www.campussul.pt
info@campussul.pt