

PRESENTATION OF  
**Collaborative  
Laboratories**

Recognised by the FCT  
and monitored by ANI



# Collaborative Laboratories Network



# TABLE. 1 Collaborative Laboratories approved until 2021

## 1<sup>ST</sup> EVALUATION (NOV 2017)

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- +Atlantic** – Space and Ocean
- DTx** – Digital Transformation
- ForestWISE** – Fires and Forest
- GreenColab** – Seaweed Processing
- MORE** – Biodiversity and Forests
- VINES&WINES** – Vineyard and Wine

## 2<sup>ND</sup> EVALUATION (JUL 2018)

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- AlmaScience** – Paper Electronics
- B2E** – Blue Economy
- BIOREF** – Biorefineries
- C5LAB** – Cements
- CECOLAB** – Circular Economy
- CoLab4Food** – Food Products & Networks
- CoLABOR** – Future of Work and Social Innovation
- InnovPlantProtect** – Protection of Plants
- Net4CO2** – Chemical Processes
- Prochild** – Child Protection and Social Innovation
- S2ul** – Cities and Mobility
- SFCoLAB** – Smart Farming
- VectorB2B** – Medicines and Pharmaceuticals
- VOH.CoLAB** – Medical Devices and Therapies
- VORTEX** – Artificial Intelligence

## 3<sup>RD</sup> EVALUATION (JUN 2019)

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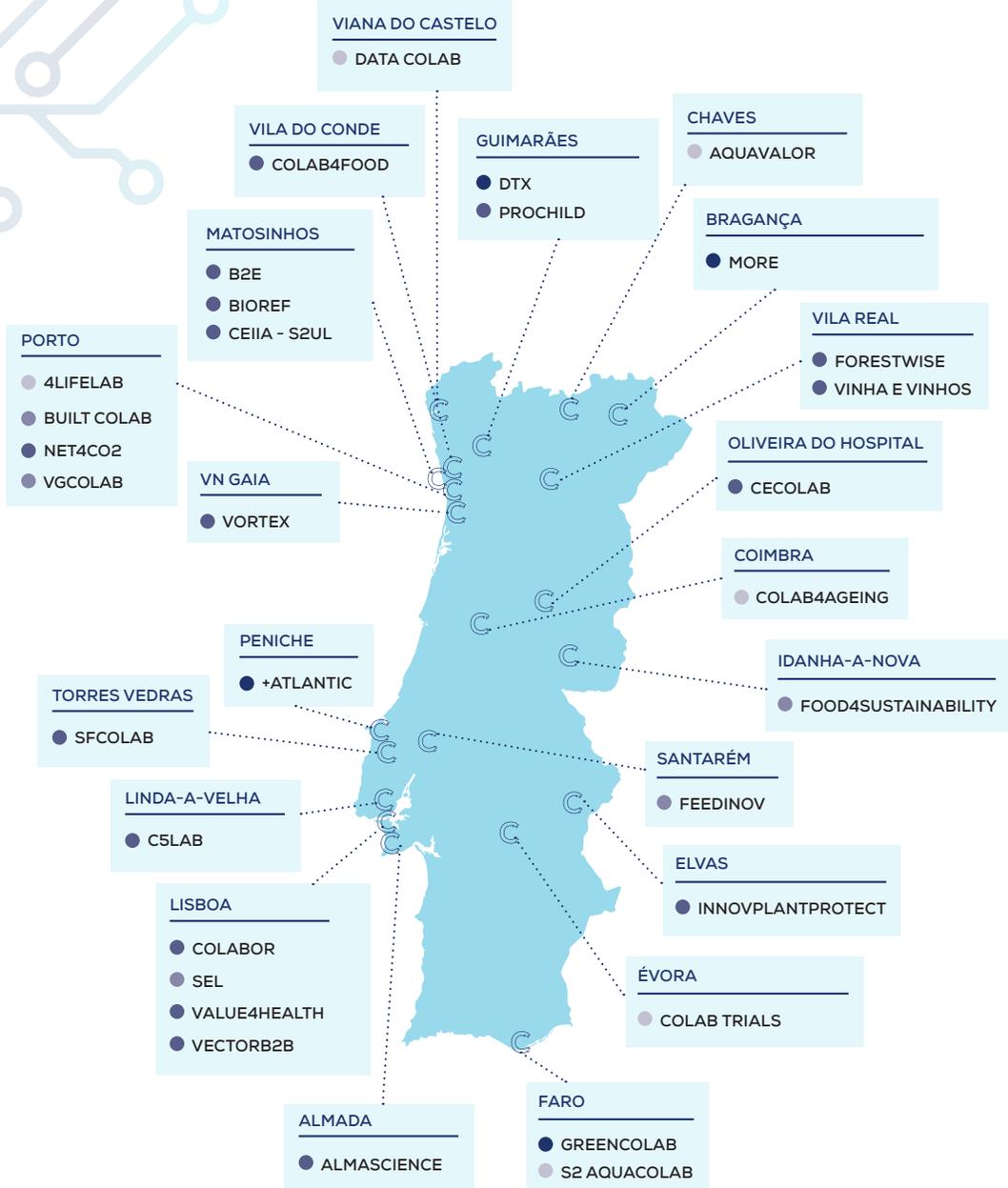
- BUILT CoLAB** – Built Environment
- FeedNov** – Sustainable Animal Production
- Food4Sustainability** – Sustainable Agriculture
- Smart Energy LAB** – Energy Services
- VG CoLAB** – Energy Storage

## 4<sup>TH</sup> EVALUATION (MAR 2021)

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- 4LifeLab** – Medical Devices
- AccelBio** – Drugs and Pharmaceuticals
- AquaValor** – Water Technology
- CoLAB TRIALS** – Health
- CoLab4Ageing** – Ageing
- Data CoLAB** – Data Science
- HyLAB** – Green hydrogen
- KIPT** – Tourism
- S2AQUAcoLAB** – Sustainable and Smart Aquaculture

# Collaborative Laboratories Network 2021



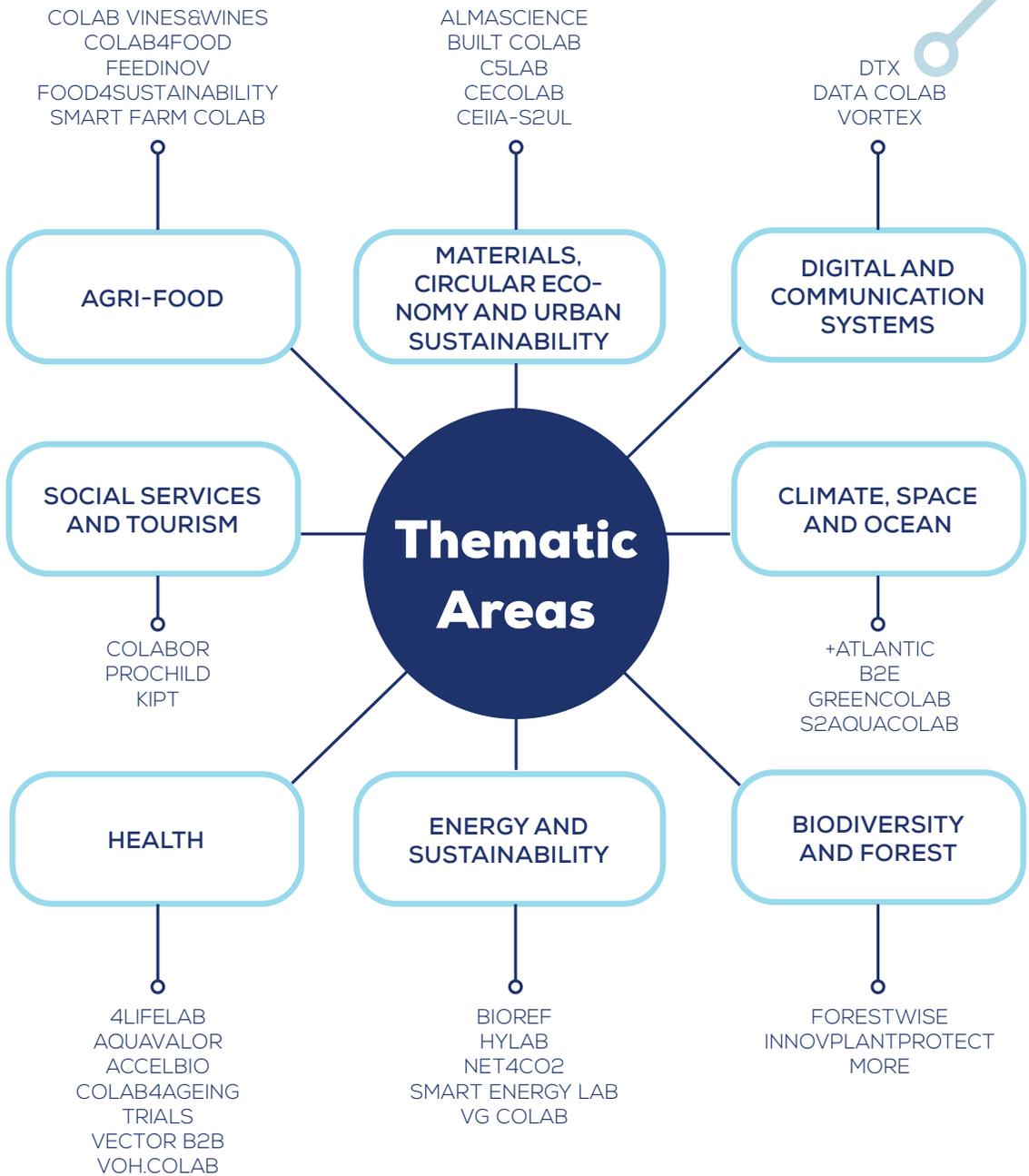
● CoLAB recognised in 2017 (1<sup>st</sup> phase)

● CoLAB recognised in 2018 (2<sup>nd</sup> phase)

● CoLAB recognised in 2019 (3<sup>rd</sup> phase)

● CoLAB recognised in 2021 (4<sup>th</sup> phase)

# Thematic Areas



# Collaborative Laboratories

DESCRIPTION

**CoLAB**

Laboratórios Colaborativos



## The Atlantic Collaborative Laboratory

### DESCRIPTION

+ Atlantic aims to develop knowledge about the interactions between the Ocean, Atmosphere, Climate and Energy in the Atlantic through an integrated "deep sea to space" approach. By promoting the development of the blue economy and highly skilled employment from a sustainable resource perspective, + Atlantic contributes to the full realisation of the ocean's potential for society by focusing its activity on advanced research into space, ocean and energy technologies, complemented with data science techniques, leveraging the development and implementation of new maritime infrastructures and platforms that will constitute new data sources for the Atlantic and the creation of synergies between the scientific and technological approach and the market approach.

### CONTACTS

✉ Instituto Politécnico de Leiria, Escola Superior de Turismo e Tecnologia do Mar, Rua do Conhecimento nº4, 2520-614 Peniche

@ info@colabatlantic.com

🌐 www.colabatlantic.com

### AREAS OF EXPERTISE

Ocean; Atmosphere; Climate; Energy.

### AFFILIATES

- Wavec / Offshore Renewables - Centro de Energia Offshore
- Hidromod - Modelação em Engenharia, Lda.
- GMVIS SKYSOFT, S.A.
- Instituto Superior Técnico
- Associação RAEGE Açores - Rede Atlântica de Estações Geodinâmicas e Espaciais
- CEiiA - Centro de Engenharia e Desenvolvimento
- ASMI Industries, S.A.
- TEKEVER ASDS, Lda.
- Instituto de Soldadura e Qualidade
- Faculdade de Engenharia da Universidade do Porto
- Deimos Engenharia, S.A.
- Edisoft - Empresa de Serviços e Desenvolvimento de Software, S.A.
- Instituto Politécnico de Leiria



## 4LifeLAB - Knowledge and technology for improved health

### DESCRIPTION

4LifeLab aims to create an ecosystem to design, develop, produce and deploy advanced medical devices and related services, meeting global market standards and enabling innovative practices based on excellence in science, medicine, engineering and industry. 4LifeLab's activities include developing:

1. New approaches to diagnosis and treatment and/or health rehabilitation of patients, and in pandemic/disaster situations, including remote medicine, applied to new products and services;
2. New personal protection equipment, with functionality and comfort;
3. New medical devices, with innovative features and shorter development times, based on robust and reliable engineering methods and components;
4. Integration of new generation sensing, connectivity and communication technologies, enabling the improvement of telemedicine practices, as well as teamwork, in face-to-face or remote contexts;
5. Integration of data science and technologies, ensuring ethical and safe solutions;
6. New advanced systems and infrastructure for decentralised and remote healthcare and emergency response;
7. Construction and operation of a Medical Emergency Mobility Hub, allowing for the association of the research and development component with care practice, in the context of urgent health transport, in its various dimensions.

### CONTACTS

✉ Centro Hospitalar Universitário São João - Alameda Professor Hernâni Monteiro, 4200-319 Porto

@ info@4lifelab.eu;

🌐 www.4lifelab.pt

### AREAS OF EXPERTISE

Health; Mobility in medical emergency; Medical devices; Engineering; ICT and electronics.

### AFFILIATES

- Centro Hospitalar de São João, E.p.e
- CEiiA - Centro de Engenharia e Desenvolvimento Associação
- CCAB - Centro Clínico Académico - Braga
- Associação Fraunhofer Portugal Research
- Universidade do Minho
- TMG - Tecidos Plastificados e Outros Revestimentos para a Indústria Automóvel, S.A.
- Atlantis - Tecnologias em Saúde, Unipessoal Lda.
- Wisehs - Wise Healthcare Solutions, Lda.
- 4Life, Sustainable Engineering Products, Unipessoal Lda.

## DESCRIPTION

AcceiBio aims to be the bridge that brings biomedical science closer to the market. With a set of partners that cover all the necessary capacities and expertise to drive drug discovery, AcceiBio selects fundamental research discoveries and cutting-edge technology platforms and tools and guides the transformation of breakthrough science into validated and investment-worthy assets. AcceiBio complements academic research groups and start-ups with industry-standard drug discovery capabilities - target validation, assay development, high-throughput screening, in silico modelling, medicinal chemistry, in vitro and in vivo testing, IP support and business development. Innovative platforms are also being developed within a well-defined R&I agenda that will further boost drug discovery. By providing these capacities and specialized expertise, AcceiBio will de-risk drug discovery assets until they are ready to be out-licensed to industry or established as the foundation of new spin-off companies.

## CONTACTS

📍 Biocant Park, Parque Tecnológico de Cantanhede, 3030-197 Cantanhede

✉️ bgomes@medicina.ulisboa.pt

## AREAS OF EXPERTISE

Health; Drug translation and discovery.

## AFFILIATES

- Biocant – Technology Transfer Association
- BSIM Therapeutics
- CellmAbs
- iMM- Instituto de Medicina Molecular João Lobo Antunes
- Instituto Superior Técnico
- LiMM Therapeutics
- Magnify Afterburner Capital Partners
- Roche Portugal
- TargTex
- University of Coimbra
- VerticalSentinel



## Cellulose Research and Development for Smart and Sustainable Applications

## DESCRIPTION

AlmaScience is an applied research organization and an accelerator of disruptive and sustainable technologies focused on the "smart paper ecosystem". Through the collaboration with start-ups, SMEs, Mid Caps and large companies in the development and deployment of devices and systems enabled by nanotechnology, advanced functional materials and/or printed electronics techniques, ASc is a one-shop-stop for the co-development of innovations related to smart and sustainable cellulose-based technologies, aggregating key competences and leveraging its experience, contacts and resources from concept to commercialization in key areas such as: smartpackaging, paper electronics, smart-cellulose based materials and sustainable tech and innovation.

## CONTACTS

📍 Madan Parque -Rua dos Inventores, 2825-182 Caparica

☎️ +351 217 810 870

✉️ global@almascience.pt

🌐 www.almascience.pt

## AREAS OF EXPERTISE

Cellulose for smart and sustainable applications

## AFFILIATES

- Imprensa Nacional - Casa da Moeda,S.A.
- THE NAVIGATOR COMPANY
- Clara Saúde Lda.
- Raiz - Instituto de Investigação da Floresta e Papel
- Associação Fraunhofer Portugal Research
- Nova.ID.FCT – Associação para Inovação e desenvolvimento da FCT
- Universidade Nova de Lisboa
- Câmara Municipal de Almada
- Firmo - Papéis e Papelarias, S.A.





## Valorisation and Transfer of Water Technology Centre

### DESCRIPTION

AquaValor presents itself as a thematic but multifunctional interface infrastructure, which aims to support companies, involving them in their activity, responding to existing needs that are not being met by companies operating in the market, while aiming to create new channels for the transfer and dissemination of knowledge to the economic fabric. AquaValor operates essentially around the theme of water, in its various aspects, as a distinctive/identity value, aggregator and enhancer of economic growth in the Alto Tâmega sub-region, mainly, in four lines of investigation:

1. Information and Communication Technologies (ICTs) at the Service of Thermal Waters and Wellness Tourism;
2. Specialised Services dedicated to the Generation of Added Value;
3. Research and Innovation;
4. Qualification of Highly Qualified Human Resources, namely Masters and Doctorates, as well as Senior Professional Technical Courses and training courses for tourism, hotel and restaurant operators.

### CONTACTS

- 📍 Rua Dr. Júlio Martins N.º1, 5400-342 Chaves
- ✉ geral@aquavalor.pt
- 🌐 www.aquavalor.pt

### AREAS OF EXPERTISE

Valorisation and transfer of water technology.

### AFFILIATES

- Comunidade Intermunicipal do Alto Tâmega
- Instituto Politécnico de Bragança
- Águas Campilho Vidago, S.A.
- Águas de Carvalhelhos, S.A.
- Associação da Hotelaria de Portugal
- Associação de Termas de Portugal
- Balneario do Rio Pambre SL
- Centro Hospitalar de Trás-os-Montes e Alto Douro
- DISPEL S.C.P.
- Eurocidade Chaves-Verin, AECT
- Gestão de Equipamentos do Município de Chaves, E.M., S.A.
- Grupo Hotéis Premium, Lda.
- INESC TEC - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência
- Pena Aventura Organização de Actividades Desportivas Lda.
- Termalístur-Termas de S. Pedro do Sul, E.M., S.A.
- UNIKSYSTEM - Sistemas de Informação Lda.
- Universidad de Vigo
- VMPS - Águas e Turismo S.A.



## Collaborative Laboratory for Blue Bioeconomy

### DESCRIPTION

The Blue Bioeconomy Collaborative Laboratory (B2E CoLAB) is a private non-profit association operating full speed since 2020, focused on helping to shape a new blue bioeconomy, by bringing together research, education, innovation and business - for a better and more sustainable world. B2E support the three main blue bioeconomy sectors with the highest potential: Natural Marine Resources, Marine Biotechnology and Sustainable Aquaculture.

B2E's ability to succeed is greatly influenced by an invaluable network of Associates that includes:

Relevant private companies with expertise in aquaculture and biotechnology: Armona Fish Farms, EntoGreen; NAVIA; Safiestela; Savinor; SONAE; Sorgal and Sparos; Renowned universities and research centres: University of Aveiro - CESAM; CIIMAR; ICBAS and FCUP - University of Porto; ICVS/3Bs - University of Minho; One Technology Interface Centre, INESC TEC, and the national sea cluster, Fórum Oceano.

### CONTACTS

- 📍 UPTEC Mar, Avenida da Liberdade, s/n, 4450-718 Matosinhos
- ✉ b2e@b2e.pt
- 🌐 www.b2e.pt

### AREAS OF EXPERTISE

Marine living natural resources; Marine biotechnology; Sustainable aquaculture; Animal Health, Nutrition and Welfare; Human Health, Nutrition and Well-being.

### AFFILIATES

- A20 - Água, Ambiente e Organização, Lda.
- CIIMAR - Centro Interdisciplinar de Investigação Marinha e Ambiental
- Fórum Oceano - Associação da Economia do Mar
- INESC TEC - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência
- Ingredient Odyssey S.A.
- Safiestela - Sustainable Aquafarming Investments S.A.
- Savinor - Sociedade Avícola do Norte S.A.
- SONAE MC - Serviços Partilhados S.A.
- Sorgal - Sociedade de Óleos e Rações S.A.
- Sparos, Lda.
- Universidade de Aveiro
- Universidade do Minho
- Universidade do Porto
- Armona - Actividades Aquícolas e Pesca, S.A.

## DESCRIPTION

The BIOREF Association - Collaborative Laboratory for Biorefineries was formed with the aim of becoming Portugal's benchmark scientific and technological entity to support both the implementation of the National Plan for the Promotion of Biorefineries - Horizon 2030 (PNPB) and the new European Bioeconomy Strategy.

For this purpose, 5 priority axes for innovation activities were defined and included in the R&I Agenda:

1. Create technological and market conditions for the production and sustainable use of renewable gases (methane, hydrogen) in the transport sector;
2. Create technological and market conditions for the use of biomass thermo-chemical conversion technologies (e.g. pyrolysis, hydrothermal liquefaction and gasification) for commercial applications (renewable gases, energy, liquid biofuels);
3. To create technological conditions for the commercial viability of bio-refineries with added value bioproducts from different residual biomasses;
4. Create technological conditions for the commercial viability of using biomass, in particular microalgae, in biorefineries of liquid biofuels, in particular aviation;
5. Development of purification and downstream processing methodologies for industrial products derived from biomass.

## CONTACTS

✉ Rua da Amieira, Apartado 1089, 4466-901, São Mamede de Infesta

☎ +351 210 924 721 @ geral@bioref-colab.pt

🌐 www.bioref-colab.pt

## AREAS OF EXPERTISE

Bio-refineries; Bio-energy; Bio-products.

## AFFILIATES

- Laboratório Nacional de Energia e Geologia, I.P.
- Instituto Superior Técnico
- Universidade do Minho
- Universidade NOVA de Lisboa
- Universidade do Porto
- Universidade de Aveiro
- Faculdade de Ciências da Universidade de Lisboa
- Instituto Politécnico Portalegre
- Universidade de Trás-os-Montes e Alto Douro
- Raiz - Instituto de Investigação da Floresta e Papel
- Algasuel, S.A.
- BLC3 - Campus de Tecnologia e Inovação
- TRATOLIXO - Tratamento de Resíduos Sólidos, E.I.M., S.A.
- SYSADVANCE - Sistemas de Engenharia, S.A.
- PETROGAL S.A. - Petróleos de Portugal
- Hychem - Produtos Químicos, S.A.
- BIOTREND - Inovação e Engenharia em Biotecnologia, S.A.
- DOUROGÁS RENOVÁVEL - Produtora de Gás, S.A.
- SilicoLife, Lda.
- TAP Air Portugal

## DESCRIPTION

BUILT CoLAB aims to develop research, innovation, and knowledge transfer activities, with a view to increasing productivity, competitiveness and sustainable growth of the Ecosystem of the AEC sector, promoting the digital and climatic transformation of buildings and infrastructures, making them adaptable, intelligent, resilient and sustainable. The scope of BC operation is the built environment as a whole considering the distinctive types of buildings and infrastructure, including energy transport infrastructure and the water cycle. Its R&D agenda covers the life cycle of the built environment, including architecture, design and data-driven manufacturing, promoting the digitization of the entire ecosystem based on BIM methodology and technologies that promote the use of digital twin in a factory or shipyard environment, in the management and maintenance of infrastructure and buildings, and ultimately deconstruction and recycling.

## CONTACTS

✉ Rua de Campo Alegre, 760, 4150-003 PORTO

@ geral@builtcolab.pt

🌐 www.builtcolab.pt

## AREAS OF EXPERTISE

Architecture; Engineering; Construction.

## AFFILIATES

- A400 - Projetistas e Consultores de Engenharia, Lda.
- Casais Engenharia e Construção, S.A.
- BIMMS, Lda.
- Mota-Engil - Engenharia e Construção, S.A.
- Secil - Companhia Geral de Cal e Cimento, S.A.
- Teixeira Duarte, Engenharia e Construção, S.A.
- 3 Drivers - Engenharia, Inovação e Ambiente, Lda.
- OUZO - Engenharia Unipessoal, Lda.
- PTPC - Plataforma Tecnológica Portuguesa da Construção
- PFP - Associação da Plataforma Ferroviária Portuguesa
- LNEC - Laboratório Nacional de Engenharia Civil
- Faculdade de Engenharia da Universidade do Porto
- Instituto Superior de Engenharia de Lisboa
- Instituto Superior Técnico
- André Brito Caiado - Arquitectura, Lda.
- INESC TEC - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência
- Instituto Politécnico de Leiria
- ITECONS - Instituto de Investigação e Desenvolvimento Tecnológico para a Construção, Energia, Ambiente e Sustentabilidade
- Universidade do Minho
- Alberto Couto Alves, SGPS S.A.

## DESCRIPTION

C5Lab intends to develop research and development activities to reduce carbon dioxide emissions from the cement industry, in order to contribute to the carbon neutrality of the national economy. Based on a holistic approach, its main objective is to develop innovative technologies for the sustainable production of cement, mortar and concrete focused on reducing carbon footprint. The carbon footprint reduction will be achieved throughout the complete industry value chain, from the cement plant quarry to the end of life of the concrete structures and their recycling. In this regard, various links in this industry's production chain will be investigated, such as raw materials and alternative fuels, CO2 capture and use (CCUS), conversion of CO2 into synthetic fuels and chemicals, renewable energy and energy efficiency, eco-efficient concrete, new cementitious materials, among others.

## CONTACTS

- ✉ Edifício Central Park, Rua Central Park, 6, Linda-a-Velha
- ☎ +351 213 510 830
- @ geral@c5lab.pt
- 🌐 www.c5lab.pt

## AREAS OF EXPERTISE

CO2 capture and recovery; Energy Efficiency and Transition; Sustainable Cementitious Materials.

## AFFILIATES

- Associação Técnica de Indústria de Cimento
- CIMPOR – Portugal Cabo Verde Operations, SGPS, S.A.
- Secil – Companhia Geral de Cal e Cimento, S.A.
- Instituto Superior Técnico, I.P.
- Laboratório Nacional de Engenharia Civil, I.P.

## DESCRIPTION

Association CECOLAB – Collaborative Laboratory Towards Circular Economy is the main Portuguese cluster for the development of Circular Economy and is recognized as scientific and research infrastructure of national strategic interest for the coordination of the national network in Circular economy. CECOLAB is a part of the National Roadmap Infrastructures of National Strategic Interests – Order No. 4157/2019. Headquarter in Oliveira do Hospital, in the Centre region of Portugal, and founded in 2020 CECOLAB has in its origins the recognition process of the excellence seal awarded by the national initiative of the Ministry of Science, technology and Higher Education, CoLAB. CECOLAB aims to (1) socioeconomic support (2) transfer technological solutions and knowledge to market and (3) empowering & boost to transfer within a CIRCULAR ECONOMY with a high impact in the most important value chain: Forest, Agroindustry, Urban Waste, Water, Manufacture Industry, construction and Servitization.

## CONTACTS

- ✉ Incubadora BLC3, Rua Nossa Senhora da Conceição, 2, 3405-155 Lagares
- ☎ +351 238 641 059
- @ circular@cecolab.pt
- 🌐 www.cecolab.pt

## AREAS OF EXPERTISE

Circular Economy; Industrial Biotechnology; Eco-design.

## AFFILIATES

- BLC3 Evolution, Lda.
- Mota-Engil Engenharia e Construção S.A.
- TMG – Tecidos para Vestuário e Decoração S.A.
- Aquitex – Acabamentos Químicos Têxteis S.A.
- Lipor – Serviço Intermunicipalizado de Gestão de Resíduos do Grande Porto
- Raiz – Instituto de Investigação da Floresta e Papel
- ISQ – Instituto Português de Soldadura e Qualidade
- LNEG – Laboratório Nacional de Energia e Geologia
- Universidade de Aveiro
- Universidade Católica Portuguesa
- Universidade de Coimbra
- Universidade do Porto
- Universidade do Minho
- Universidade Nova de Lisboa

**DESCRIPTION**

CoLAB TRIALS aims to leverage clinical research to increase innovation in the healthcare sector, in clinically strategic areas such as medical devices, biomarker identification, personalised medicine, among others.

Seeking to create a framework of excellence in clinical research, optimising the storage of and access to harmonised health information and producing real-time data, it intends to:

1. Strengthen and promote knowledge and specialisation in testing methodologies, to enhance the performance of clinical research in Portugal, facilitating the clinical development of new technological health products;
2. Explore and optimise the health information stored and generated by clinical trials at the investigators' initiative, to produce real-time data, increasing opportunities for new projects and bringing novelties to clinical research;
3. Provide innovative solutions for conducting clinical research, developing new strategies for clinical studies and Information Technology-based tools useful for clinical research teams and for the pharmaceutical industry;
4. Disseminate the relevance and results of clinical research to target-entities to deepen the knowledge and literacy of the community in this area of knowledge; expand the services provided by CoLAB TRIALS to other healthcare facilities and companies.

**AREAS OF EXPERTISE**

Health

**AFFILIATES**

- Universidade Nova de Lisboa
- Universidade de Évora
- Glsmad Learning Health, S.A.
- Centro de Medicina Laboratorial Germano de Sousa, S.A.
- Associação Portuguesa da Indústria Farmacêutica
- Centro Hospitalar de Lisboa Ocidental E.p.e.
- Associação Eupati Portugal

**CONTACTS**

 Largo do Senhor da Pobreza, Edifício da Escola Superior de Enfermagem São João de Deus, 7000-811 Évora

 [catarina.madeira@nms.unl.pt](mailto:catarina.madeira@nms.unl.pt)

**CoLAB4Ageing****Collaborative Laboratory for the Future Built Environment****DESCRIPTION**

The aim of CoLab4Ageing is to address a complex social, demographic and economic issue about ageing that requires input from various stakeholders. To achieve this goal, this CoLAB will accelerate the transformation of the Portuguese healthcare system, creating a strategic alignment between all stakeholders, laying the foundations for a geriatric culture at the scientific, technological, business and clinical level, fostering new leadership approaches by adopting a systemic approach, increasing patient and public involvement to become co-producers of health and supporting an evidence-based policy that is timely and relevant. This CoLAB will demonstrate transformation in 4 areas with different levels of complexity and differentiation: Active and healthy ageing, Multimorbidity, Palliative care and End of life and Dementias. The first two areas accommodate a large number of individuals and attract the interest of partner companies in the areas of IT, food, medical devices, pharmacology, while the others represent an unexplored market need for an innovation and technological point of view.

**CONTACTS**

 Reitoria da Universidade de Coimbra, Paço das Escolas, 3004-531 Coimbra

 [lino@uc-biotech.pt](mailto:lino@uc-biotech.pt)

**AREAS OF EXPERTISE**

Innovative products and services in the field of ageing

**AFFILIATES**

- Universidade de Coimbra
- Instituto Pedro Nunes
- Cáritas Diocesana de Coimbra
- Infosaude - Instituto de Inovação e Formação em Saúde, S.A.
- Tecnimede - Sociedade Tecnico-medicinal, S.A.
- Outsourcing, Lda.
- Linde Saúde
- NOS Comunicações, S.A.
- ICNAS-Produção





## Food Industry Innovation Collaborative Laboratory

### DESCRIPTION

Colab4Food is a R&D non-profit association of the Portuguese Agri-Food sector that aims to redefine the way we innovate collaboratively for a sustainable growth of our associates and higher resilience and competitiveness of the food sector. Colab4Food develops more sustainable food processes, nutritive foods and tailored solutions that will improve the consumers delight, health and well-being. We bridge the gap between academy and industry throughout the combination of knowledge and creativity, to develop innovative market-oriented solutions on the areas: safe and high-quality foods, sustainable food processes, food value chain circularity and healthy nutritive foods.

### CONTACTS

- ✉ Rua dos Lagidos, 4485-655 Vila do Conde
- @ geral@colab4food.com
- 🌐 www.colab4food.com

### AREAS OF EXPERTISE

Food Security and Sustainability; Food for health and well-being; Safe, high quality food.

### AFFILIATES

- PortugalFoods - Associação Integral Intervenção de Excelência no Sector Agroalimentar
- Frulact - Indústria Agroalimentar, S.A.
- Grupo Primor, S.A.
- Casa Mendes Gonçalves, S.A.
- Sumol+Compal Marcas, S.A.
- Sense Test - Sociedade de estudos de análise sensorial a produtos alimentares, Lda
- Superbock Bebidas, S.A.
- INIAV, IP - Instituto Nacional de Investigação Agrária e Veterinária
- Requitme - Rede de Química e de Tecnologia
- Universidade Católica Portuguesa - Centre for Biotechnology and Fine Chemistry
- Universidade de Aveiro
- Instituto Superior de Agronomia da Universidade de Lisboa
- Universidade do Minho
- Universidade do Porto
- Universidade de Trás-os-Montes e Alto Douro
- Instituto Politécnico de Viana do Castelo - CISAS
- Universidade de Coimbra



## Labour, Employment and Social Protection Collaborative Laboratory

### DESCRIPTION

The Labour, Employment and Social Protection Collaborative Laboratory (CoLABOR) mobilises resources from academia, companies, public administration and organisations from the social and solidarity economy with a view to deepening knowledge of present and anticipated problems around 3 areas of activity: a) work and employment; b) social protection; c) social and solidarity economy.

CoLABOR aims to develop activities that promote a better understanding of these realities, to design policy responses (public and organisational) adapted to the new labour market and social protection contexts, studying and acting on the reconfiguration of organisations in which innovation technology will have the most influence.

### CONTACTS

- ✉ Rua das Taipas, 1, 1250-092 Lisboa
- ☎ +351 919 811 971
- @ geral@colabor.pt
- 🌐 www.colabor.pt

### AREAS OF EXPERTISE

Labour; Employment; Social protection; Public Policy Evaluation.

### AFFILIATES

- CES - Centro de Estudos Sociais da Universidade de Coimbra
- IDEFF - Instituto de Direito Económico, Financeiro e Fiscal da Faculdade de Direito da Universidade de Lisboa
- ISCTE - Instituto Universitário de Lisboa
- CNIS - Confederação Nacional das Instituições de Solidariedade
- Santa Casa da Misericórdia de Lisboa
- Delta Cafés, S.A.
- Mota-Engil, S.A.
- SONAE, S.A.
- Câmara Municipal de Lisboa





## Collaborative Laboratory for Data Driven Innovation Services

### DESCRIPTION

Data CoLAB aims to develop a cross-sectoral ecosystem that will adopt a holistic and integrated approach, providing data-driven services based on the data flow value chain as a whole. Focusing on data in the domain of industry, Green Deal, mobility, health, energy, agriculture, public administration, among others, Data CoLAB has the following main objectives:

1. Increase data-based innovation services by catalysing collaboration and knowledge sharing, without duplicating existing work;
2. Ensure that data is available to all by producing guidelines, best practice recommendations and services;
3. Mobilise and create consortia involving key players with complementary knowledge (scientific and technological) capable of achieving practical goals and ensuring the correct and broad application of the results generated;
4. Support the implementation of data-related frameworks, encouraging new synergies between communities and between technical and political stakeholders;
5. Develop data-driven decision models to support business and the public sector by ensuring that data is used responsibly, implementing value-added solutions;
6. Support the development of sector-specific legislation and the implementation of the Digital Europe programme strategy;
7. Establish interface and knowledge transfer models capable of promoting an effective collaboration between technological and engineering centres, with scientific and higher education institutions, namely by participating in international events and data networks.

### AREAS OF EXPERTISE

Data science; Innovation services

### AFFILIATES

- SGS Portugal, S.A.
- F. INICIATIVAS, Consultoria e Gestão, Unipessoal, Lda.
- Instituto Politécnico de Viana do Castelo
- SMARTWATT - Energy Services, S.A.
- Universidade do Minho
- Universidade do Porto
- Câmara Municipal de Viana do Castelo
- UNINOVA - Instituto de Desenvolvimento de Novas Tecnologias

### CONTACTS

- 📍 Avenida de Cabo Verde, Lote 1, Viana do Castelo
- ✉ AntonioFerreira.Dias@sgs.com
- 🌐 [www.datacolab.pt](http://www.datacolab.pt)



## Digital Transformation Collaborative Laboratory

### DESCRIPTION

The Digital Transformation Collaborative Laboratory Association - DTx, is a private, non-profit association that develops its activity by conducting applied research in different areas associated with digital transformation.

DTx works at the intersection of the physical, digital, and cyber domains to create the next generation of evolved cyber-physical systems that blur the boundary between the real world and the virtual world.

### CONTACTS

- 📍 Campus de Azurém, Edifício 1, Universidade do Minho, 4800-057 Guimarães
- ☎ +351 253 510 045
- ✉ [info@dtx-colab.pt](mailto:info@dtx-colab.pt)
- 🌐 [www.dtx-colab.pt](http://www.dtx-colab.pt)

### AREAS OF EXPERTISE

Digital Transformation; Cyber-physical Systems.

### AFFILIATES

- Universidade do Minho
- Universidade de Évora
- Universidade Católica Portuguesa
- International Iberian Nanotechnology Laboratory
- Centro de Engenharia e Desenvolvimento/Centro de Excelência e Inovação da Indústria Automóvel
- ACCENTURE Technology Solutions – Soluções Informáticas Integradas S.A.
- Bosch Car Multimédia Portugal S.A.
- IKEA Industry Portugal S.A.
- Cachapuz, Equipamento para pesagem Lda.
- Celoplás, Plásticos para a Indústria S.A.
- Neadvance – Machine Vision S.A.
- NOS Inovação S.A.
- Primavera – Business Software Solutions S.A.
- Simoldes Plásticos S.A.
- TMG – Tecidos Plásticos e outros revestimentos para a Indústria Automóvel S.A.
- Mobileum, Inc.
- Embraer Portugal S.A.
- DST group
- Centro de Computação Gráfica
- Polo de Inovação em Engenharia



## Innovative Feeding Strategies for Sustainable Animal Production

### DESCRIPTION

FeedInov CoLAB aims to improve safety along the food chain, with an impact on the safety of animal products, increasing consumer confidence in national production and reinforcing the role of the animal feed industry in the production of healthy, sustainable and environmentally friendly products. FeedInov CoLAB's strategy and motivation are based around four main topics:

1. Analysis of trends in meat consumption;
2. Optimising the efficiency of nutrient resources;
3. Healthy animals for healthy humans;
4. Socially responsible livestock from a nutritional perspective, reducing yours in the environment.

InovFeed CoLAB also aims to promote an integrated view of the value chain, through the innovative capacity of the feed industry, to increase resource efficiency, minimize its environmental impact and enhance the use of by-products from other industries.

### CONTACTS

✉ Estação Zootécnica Nacional, Qta da Fonte Boa, 2005-048 Vale de Santarém

@ geral@feedinov.com 🌐 www.feedinov.com

### AREAS OF EXPERTISE

Safety, quality and sustainability of feed and food production, competitiveness of the feed sector, competitiveness of the livestock sector; Environmental sustainability.

### AFFILIATES

- Associação Portuguesa dos Industriais de Alimentos Compostos para Animais
- Universidade de Trás-os-Montes e Alto Douro
- Instituto Nacional de Investigação Agrária e Veterinária
- Faculdade de Medicina Veterinária da Universidade de Lisboa
- Instituto de Ciências Biomédicas Abel Salazar da Universidade do Porto
- Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência
- Finanças Agroalimentar, S.A.
- Sorgal – Sociedade de Óleos e Rações, S.A.
- Raporal, S.A.
- Tecnipec – Serviços Pecuários, S.A.
- TNA – Tecnologia e Nutrição Animal, S.A.
- Rico Gado Nutrição, S.A.
- Avenal Petfood, S.A.
- Racentro, Fábrica de Rações do Centro S.A.
- ZOOPAN Produtos Pecuários, S.A.
- Ingredient Odissey, S.A.
- AllMicroalgae, S.A.
- Requimte, Rede de Química e Tecnologia
- Eurocereal – Comercialização de Produtos Agro-Pecuários, S.A.



## FOOD4SUSTAINABILITY

### DESCRIPTION

FOOD4SUSTAINABILITY facilitates the adoption of innovative and healthy food production systems by reusing agricultural and food waste as a raw material, combining new and/or traditional innovative techniques and facilitating their adoption and dissemination. In order to contribute to the sustainable use of the planet, Food4Sustainability aims to develop food systems based on biological products (e.g. fish, algae, vegetables) for climate resilience (e.g. energy used from solar panels, precision agriculture controls, smart irrigation). The drastic reduction in CO<sub>2</sub> emissions will be achieved through the use of biogenic inputs for the greenhouse. Simultaneously, inputs to the land bank will be produced from the greenhouse such as fish and insect proteins, algae, organic fertilisers and filtered water.

### CONTACTS

✉ Centro Empresarial de Idanha-a-Nova, Zona Industrial, 6060-182 Idanha-a-Nova

@ mail@food4sustainability.org

🌐 www.food4sustainability.org

### AREAS OF EXPERTISE

Sustainable agriculture; Climate.

### AFFILIATES

- BGI, S.A.
- A4F - Algae For Future, SGPS, S.A.
- Associação Recursos Ambientais Alternativos
- BlueGrowth, Lda.
- Iberponics, Lda.
- Instituto Politécnico de Castelo Branco
- Instituto Politécnico da Guarda
- Instituto Politécnico de Viseu
- Mendes Gonçalves, S.A.
- Universidade da Beira Interior
- Centro Municipal de Cultura e Desenvolvimento de Idanha-a-Nova
- Hortas d'Idanha, S.A.
- Living Seeds Sementes Vivas, S.A.
- Cooperativa Agrícola dos Olivicultores do Ladoeiro, CRL
- HVCZ Properties, Lda.



## Integrated Forest and Fire Management Collaborative Laboratory

### DESCRIPTION

ForestWISE is the Collaborative Laboratory for Integrated Forest and Fire Management and its mission is to promote integrated forest and fire management based on (co)research, innovation and knowledge and technology transfer activities. In addition to sustainable forest management, ForestWISE's objectives are to contribute to the enhancement of forest products and services, to reduce the negative consequences of large rural fires, to increase the competitiveness of the Portuguese forestry sector, to stimulate the sustainable development of low-density territories and the promotion of scientific employment in these areas.

### CONTACTS

✉ Quinta de Prados, Universidade de Trás-os-Montes e Alto Douro, 5000-103 Folhadela, Vila Real

☎ +351 259 350 489 @ contact.fw@forestwise.pt

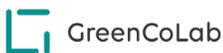
🌐 www.forestwise.pt

### AREAS OF EXPERTISE

Sustainable Forest Management; Knowledge and Technology Transfer.

### AFFILIATES

- AGIF - Agência para a Gestão Integrada de Fogos Rurais, I.P.
- Altri Florestal, S.A.
- Amorim Florestal, S.A.
- E-REDES
- DS Smith Viana Paper
- INESC TEC - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência
- INIAV - Instituto Nacional de Investigação Agrária e Veterinária, I.P.
- Instituto Superior de Agronomia da Universidade de Lisboa
- REN - Rede Energéticas Nacionais, S.A.
- Sonae Arauco Portugal, S.A.
- THE NAVIGATOR COMPANY, S.A.
- Universidade de Aveiro
- Universidade de Évora
- Universidade de Trás-os-Montes e Alto Douro
- Universidade de Coimbra



## Development of Ocean Green Technologies and Products Collaborative Laboratory

### DESCRIPTION

GreenCoLAB aims to be a catalyst for sustainability and economic performance by bringing together the interests of the scientific community and industry, driving innovation and economic diversification in the field of seaweed biotechnology.

Its research and innovation agenda is based on two phases.

1. Development of biological resources and characterisation of biomass and downstream processing;
2. Development of new products and markets. GreenCoLAB will develop its activities in a bottom-up approach by leveraging resources and developing the necessary efforts to establish strategies to accelerate industrial and market development in priority areas, such as food and feed, sequestration and mitigation of CO<sub>2</sub>, waste water treatment and use of bio-fertilisers for soil recovery.

### CONTACTS

✉ Universidade do Algarve, Campus Gambelas H8, 8005-139 Faro

☎ +351 913 337 199

@ geral@greencolab.com

🌐 www.greencolab.com

### AREAS OF EXPERTISE

Seaweed biotechnology; Development of new products.

### AFFILIATES

- Centro de Ciências do Mar do Algarve
- Laboratório Nacional de Energia e Geologia
- Allmicroalgae - Natural Products, S.A.
- Necton - Companhia Portuguesa de Culturas Marinhas S.A.
- Algaplus - Produção e Comercialização de Algas e Seus Derivados Lda.
- Sparos Lda.
- Universidade de Aveiro





## Green Hydrogen Collaborative Laboratory

### DESCRIPTION

HyLab is a Collaborative Laboratory for Green Hydrogen.

The main goal of the HyLab is to enable the Portuguese swift implementation of green hydrogen production, storage, transport and utilization at competitive costs. The development of competitive technologies will contribute to the global energy transition and decarbonization. Through its operation, the HyLab aims to anticipate by 6 years (2024 vs 2030, reference year of international studies) the breakeven cost between fossil and green hydrogen. This should allow the HyLab and the Portuguese industry to have the robustness necessary to be established as a reference player within the green hydrogen international market.

### CONTACTS

📍 Sines Central Termoelétrica, Estrada Nacional, 120-1, 7520-089, Sines

✉️ geral@hylab.pt

### AREAS OF EXPERTISE

Energy, Green Hydrogen.

### AFFILIATES

- EDP - Gestão da Produção S.A.
- Galp Energia, S.A.
- REN-Gasodutos, S.A.
- Bondalti Chemicals, S.A.
- Instituto Superior Técnico
- Universidade do Porto
- Laboratório Nacional de Energia e Geologia I.P.
- INEGI - Instituto de Ciência e Inovação em Engenharia Mecânica e Engenharia Industrial
- INESC TEC - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência
- CEiiA - Centro de Engenharia e Desenvolvimento
- International Iberian Nanotechnology Laboratory
- Universidade Nova de Lisboa



## Innovative bio-based solutions for crop protection

### DESCRIPTION

InnovPlantProtect aims to develop innovative, bio-based solutions to promote safer, smarter, more productive, climate-resistant, and more environmentally friendly crops, specifically:

1. New bio-pesticides against pests and diseases (of Mediterranean relevance);
2. New plant ideotypes;
3. Diagnostic and monitoring methods; Risk and pesticide application models.

The impact of its activities will focus on the development of products and services (new bio-pesticides and resistant plants; new models and methods for diagnosis and monitoring), specifically contributing to environmental sustainability, land densification, the creation of skilled jobs and investment attraction.

### CONTACTS

📍 Estrada Gil Vaz, 7350-478 Elvas

☎️ +351 268 096 127

✉️ inpp@iplantprotect.pt

🌐 www.iplantprotect.pt

### AREAS OF EXPERTISE

Bio-pesticides; New plant ideotypes; Diagnostic and monitoring methods; Risk and pesticide application models.

### AFFILIATES

- Universidade Nova de Lisboa
- Instituto Nacional de Investigação Agrária e Veterinária, I.P.
- Câmara Municipal de Elvas
- Bayer Cropsience (Portugal) - Produtos para a Agricultura, Lda.
- Syngenta Crop Protection - Soluções para a Agricultura, Lda.
- Fertiprado - Sementes e Nutrientes, Lda.
- Associação Nacional de Produtores de Proteaginosas, Oleaginosas e Cereais
- Federação Nacional das Organizações de Produtores de Frutas e Hortícolas
- Associação Nacional dos Produtores de Milho e Sorgo
- Centro de Biotecnologia Agrícola e Agro-alimentar do Alentejo
- Casa do Arroz - Associação Interprofissional do Arroz
- Universidade de Évora



KIPT

## Knowledge to Innovate Professions in Tourism

### DESCRIPTION

The KIPT Collaborative Laboratory - Knowledge to Innovate Professions in Tourism - aims to be a collaborative platform that proposes to bring businesses and academia closer together, through the development of an action plan around three strategic axes: knowledge, employment and sustainable competitiveness. This CoLAB, focusing on the professions as a leading factor in ensuring competitiveness and sustainable development, addresses the sustainability of the Tourism sector in different scenarios (resilience, recovery, and transformation) to overcome the problems facing the sector, with the ultimate goal of contributing to a valued, rewarding, inclusive and conciliatory labour market.

With a social capital that includes 20 entities linked to Science, Technology and Higher Education, tourism governance, information systems, certification, hotel and restaurant management, operations, travel agencies, sustainability, and innovation and entrepreneurship.

### CONTACTS

📍 Edifício INOVACENTER, Lote 3, Parque Industrial de Loulé, 8100-272, Loulé

✉️ hi@kipt.pt

🌐 www.kipt.pt

### AREAS OF EXPERTISE

Tourism



## MORE - Mountains of Research Collaborative Laboratory

### DESCRIPTION

MORE - Mountains of Research Collaborative Laboratory aims to diversify, foster and coordinate responses to the specific needs and challenges identified for Mediterranean mountain areas, based on technological and scientific knowledge, in particular by developing innovative technological solutions to improve the production and capitalisation of natural and bio-based assets. MORE focuses its activities on creating economic and social value and meeting the following objectives:

1. Sustainably mobilise value chains and promote unique natural locations, creating science and technology-based business opportunities;
2. Establish a multidisciplinary long-term mountain R&I agenda, linking scientific and academic institutions in close collaboration with economic, social and cultural actors;
3. Mobilise the private sector in a socio-economic and cultural context by creating new business opportunities;
4. Establish interface models and knowledge transfer;
5. Diversify, stimulate and coordinate activities based on scientific knowledge;
6. Identify specific needs and challenges in the Mediterranean Mountain areas;
7. Facilitate job creation that generates economic and social value.

### CONTACTS

📍 Cidade de León Avenue, 506, 5301-358 Bragança

☎️ +351 300 081 998    ✉️ geral@morecolab.pt

🌐 www.morecolab.pt

### AFFILIATES

- Vila Galé Sociedade de Empreendimentos Turísticos S.A.
- Hotistar - Portugal Hotels S.A.
- ADVANCE - Centro de Investigação Avançada em Gestão
- ATA - Associação de Turismo do Algarve
- Blue Geo Lighthouse, Lda.
- IPB - Instituto Politécnico de Bragança
- IPLeiria - Instituto Politécnico de Leiria
- Logical Safety, S.A.
- Media Invest - M.I.T.G. Lda.
- Salvor-Sociedade de Investimento Hoteleiro S.A.
- Prizmakat Lda.
- SGS Portugal - Sociedade de Superintendencia S.A.
- Universidade do Algarve
- Uniaudax - Centro de Investigação e Apoio ao Empreendedorismo e Empresas Familiares
- Universidade de Évora
- Ensilis - Educação e Formação, Unipessoal Lda.
- COFAC - Cooperativa de Formação e Animação Cultural, CRL
- AHRESP - Associação da Hotelaria, Restauração e Similares de Portugal
- Algardata - Sistemas Informáticos, S.A.
- Upstream - Valorização do Território S.A.

### AREAS OF EXPERTISE

Food and bio-based products; Mountain environment and ecosystem management; Health, welfare, cultural heritage and tourism; Mountain cleantech.

### AFFILIATES

- Living Seeds Sementes Vivas, S.A.
- Appitad - Associação dos Produtores em Protecção Integrada de Trás-os-Montes e Alto Douro
- Resíduos do Nordeste, Eim, S.A.
- Associação para o Desenvolvimento do Brigantia Ecopark
- Tecpan - Tecnologia e Produtos para Pastelaria e Panificação Lda.
- Centro Nacional de Competências dos Frutos Secos - Associação Cncfs
- Associação Blc3 - Campus de Tecnologia e Inovação
- Iceta - Instituto de Ciências, Tecnologias e Agroambiente da Universidade do Porto
- Deifil Technology Lda.
- Instituto de Soldadura e Qualidade
- Instituto Politécnico de Bragança
- Oldcare Unipessoal, Lda.
- Instituto Politécnico da Guarda
- Universidade do Porto
- Coa Parque - Fundação para a Salvaguarda e Valorização do Vale do Coa





## Network for a Sustainable CO<sub>2</sub> Economy

### DESCRIPTION

The Collaborative Laboratory Net4CO<sub>2</sub>, a private non-profit organization, is a network of R&D competences and technologies with the goal of creating new processes and products that make a significant contribution to the CO<sub>2</sub> sustainable circular economy.

Net4CO<sub>2</sub> mission is to create and develop processes and products to provide competitive solutions for CO<sub>2</sub> capture, separation, and valorisation.

The pace at which CO<sub>2</sub> emissions are increasing is faster than the Earth capability to adapt. Net4CO<sub>2</sub> aims to mitigate this trend without compromising the quality of life we are used to. For that, technical solutions are being developed on two main fronts:

- A safe, efficient and profitable capture and separation of CO<sub>2</sub>;
- A competitive production of alternative fuels: synthetic fuels, which provide a route for CO<sub>2</sub> and CH<sub>4</sub> reutilization; and hydrogen which involves zero CO<sub>2</sub> emissions.

### CONTACTS

📍 UPTec Asprela II, Parque de Ciência e Tecnologia da Universidade do Porto, Rua Doutor Júlio de Matos, 828/882, 4200-355 Porto, Portugal

☎ +351 220 731 349    ✉ info@net4co2.pt    🌐 www.net4co2.pt

### AREAS OF EXPERTISE

Carbon capture and sequestration; CO<sub>2</sub> Circular Economy.

### AFFILIATES

- Galp Energia, S.A.
- Change Partners, SCR, S.A.
- U.Porto - Universidade do Porto (LSRE-LCM, LEPABE e CEFT)
- Instituto Superior Técnico (CQE)
- Requimte, Rede de Química e Tecnologia (LAQV)
- INL, Laboratório Ibérico Internacional de Nanotecnologia



## CoLab Against Poverty and Social Exclusion

### DESCRIPTION

ProChild aims to develop a strategy against child poverty and social exclusion, framed in a transdisciplinary scientific approach, linking the public and private sectors, promoting children's well-being at the economic and social levels and contributing to public policies to stand upon their rights.

Our vision is to become the national reference institution for the development of integrated solutions to break the cycle of poverty and promote children's rights and well-being.

ProChild seeks to promote an effective social change by linking researchers and on-the-ground stakeholders around a common scientific-based innovative agenda, allying social intervention & digital technologies. This alliance will allow more efficient data collection and analysis, with a major impact on scaling-up programs, services and products fittings children, families, professionals and stakeholders' needs, and on knowledge transfer to ultimately contribute to public policies and advocacy actions.

### CONTACTS

📍 Campus de Azurém, 4804-533 Guimarães

☎ +351 932 143 837

✉ geral@prochildcolab.pt

🌐 www.prochildcolab.pt

### AREAS OF EXPERTISE

Poverty; Social Exclusion; Digital Technology; Nanotechnology.

### AFFILIATES

- Associação CCG ZGDV- Centro de Computação Gráfica
- Centro de Estudos Sociais
- Domingos da Silva Teixeira, S.A.
- Faculdade de Psicologia da Universidade de Lisboa
- Fundação Belmiro de Azevedo
- Fundação Vasco Vieira de Almeida
- Irmãos Rodrigues - Confeções, S.A.
- Instituto Superior de Economia e Gestão
- Instituto de Saúde Pública da Universidade do Porto
- Município de Guimarães
- Santa Casa da Misericórdia de Lisboa
- Universidade Católica Portuguesa
- Universidade de Aveiro
- Universidade de Coimbra
- Universidade do Minho
- Universidade do Porto

### DESCRIPTION

This laboratory intends to play an active role in knowledge and technology transfer and provide services that increase food safety and diversify aquaculture products.

The main objective of S2AQUAcoLAB is to foster the development of aquaculture through research on production optimisation, with the identification of health and welfare bio-indicators and to address climate change by adapting production systems.

The ultimate goal is to generate new products, drive technological development and explore new market prospects. S2AQUAcoLAB will strengthen knowledge/technology incorporation and transfer, as well as reinforce the strategic cooperation of partners, in a more focused way, by developing on-site training activities.

### CONTACTS

☎ Av. Parque Natural da Ria Formosa 7800-194 Olhão

@ geral@s2aquacolab.pt

🌐 www.s2aquacolab.pt

### AREAS OF EXPERTISE

Sustainable and smart aquaculture

### AFFILIATES

- Instituto Português do Mar e da Atmosfera
- Universidade do Algarve
- Centro de Ciências do Mar
- Município de Olhão
- Instituto Politécnico de Leiria
- ACUINOVA - Atividades Piscícolas, S.A.
- Piscicultura do Vale da Lama
- SPAROS, Lda.
- NECTON - Companhia Portuguesa de Culturas Marinhas, S.A.
- Atlantik Fish - Pescado do Mar, Lda.
- Formosa - Cooperativa de Viveiristas da Ria Formosa
- Viveiros da Espargueira, S.A.
- Bivalvia - Mariscos da Formosa, Lda.
- Oceano Fresco, S.A.
- Riasearch, Lda.

### DESCRIPTION

S2UL aims to accelerate the transformation of cities into smart and sustainable urban ecosystems, helping to promote citizens' quality of life. The pursuit of this vision will be achieved by: i) developing knowledge to understand and address complex societal urban challenges; ii) explore opportunities arising from the integration of the physical, digital and social worlds, leveraged by increasing connectivity and disruptive technologies; iii) generate, test and market advanced solutions based on sustainability principles and user centric design.

Seeking a mixed approach to technology-push and market-pull, S2UL aims to develop not only knowledge and new technological solutions, but also their implementation in the urban fabric, in collaboration with their business partners. In this context, the prospective laboratory's research and development activities will focus on integrating data science and physical engineering programmes to create innovative products and product systems increasingly used as services - the so-called "4th Industrial Revolution".

### CONTACTS

☎ Av. D. Afonso Henriques, 1825, 4450-017 Matosinhos

☎ +351 220 164 800

@ helena.silva@ceiia.com

🌐 www.ceiia.com/colab-s2l

### AREAS OF EXPERTISE

Data science; physical Engineering; Smart and sustainable urban ecosystems.

### AFFILIATES

- IAPMEI - Agência para a Competitividade e Inovação, I.P.
- Centitvc - Centro de Nanotecnologias e Materiais Técnicos, Funcionais e Inteligentes
- NORS S.A.
- EEA - Empresa de Engenharia Aeronáutica e Automóvel, S.A.
- Efacec Electric Mobility, S.A.
- Inapal Metal, S.A.
- Mind Brasil - Indústrias da Mobilidade, Lda.
- Universidade do Minho
- Petrogal, S.A.
- Simoldes - Plásticos, S.A.
- Sonafi - Sociedade Nacional de Fundação Injectada, S.A.
- TMG - Tecidos Plastificados e Outros Revestimentos para a Indústria Automóvel, S.A.



## Digital Innovation in Agriculture Collaborative Laboratory

### DESCRIPTION

SFCOLAB is a non-profit Collaborative Laboratory based in Torres Vedras aiming to boost the Digital Innovation in Agriculture. Within the global Agro challenge of producing more with less by decreasing and optimizing the resources and decreasing the carbon footprint, the SFCOLAB strategy focus on the generation of integrative cutting-edge of high-tech solutions for the efficient management of resources such as soil, water or phytosanitary products and to maximize the added value of the horticulture, viticulture and fruticulture products. The SFCOLAB set the grounds to be the first reference of Digital Agriculture in Portugal and to further extend this knowledge internationally and to assist the agro sector in the transition into Digital Agriculture, allowing competitiveness in the new and challenged agricultural environment.

### CONTACTS

- ✉ Rua Cândido dos Reis n. 91, 2560-312 Torres Vedras
- @ geral@sfcollab.org
- 🌐 www.pt.sfcollab.org

### AREAS OF EXPERTISE

Management, Plant Biology, Agronomy, Sustainable Use of Resources, Electronics and Sensors, Robotics and Automation, Artificial Intelligence, Informatics, Tourism, Marketing, Social Sciences and Education.

### AFFILIATES

- Câmara Municipal de Torres Vedras
- Tomix - Indústria de Equipamentos Agrícolas e Industriais, Lda.
- Instituto Nacional de Investigação Agrária e Veterinária, I. P.
- Centro Operativo Tecnológico Hortofrutícola Nacional – Centro de Competências
- Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa
- Faculdade de Ciências da Universidade de Lisboa
- Instituto Universitário de Lisboa
- Instituto Politécnico de Leiria
- Associação para a Valorização Agrária
- SGS Portugal – Sociedade Geral de Superintendência S.A.
- Adegas Cooperativas de São Mamede da Ventosa Crl
- Optimizeplanet Lda.
- Luís Vicente S.A.
- Stagric Lda.
- Quinta do Pinto – Sociedade Comercial e Agrícola SA
- Impactwave Lda.
- Transportes Paulo Duarte Lda.
- INESC TEC – Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência



SMART ENERGY LAB

## Smart Energy LAB

### DESCRIPTION

SEL aims to fill a gap in the academic/industrial energy ecosystem with the aim of finding solutions that help the energy transition process of energy users. This CoLAB's research and innovation agenda emerges from the development and convergence of knowledge about key verticals in the industry, along with key multidisciplinary skills, including:

1. Industry Verticals: The distributed Management of Energy Resources; Power management; Flexibility; Storage; Mobility;
2. Horizontals: Engineering; IoT; Computer hardware and software; Big Data and Artificial Intelligence; Cyber security; Service Design and Design Thinking; UX/UI.

### CONTACTS

- ✉ Avenida 24 de Julho, nº 12, 1249-300 Lisboa
- ☎ +351 916 270 003
- @ info@smartenergylab.pt
- 🌐 www.smartenergylab.pt

### AREAS OF EXPERTISE

New energy management systems.

### AFFILIATES

- EDP Comercial - Comercialização de Energia, S.A.
- ACCENTURE, Consultores de Gestão S.A.
- INESC TEC – Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência
- Universidade de Coimbra
- INESC ID - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência
- Instituto Superior Técnico
- Faculdade de Ciências da Universidade de Lisboa

### DESCRIPTION

VectorB2B provides highly qualified services of drug discovery and development from the bench to the bedside (B2B).

VectorB2B is a non profit association constituted in 2019 by a strong and complementary set of academic partners and pharmaceutical companies renowned in the health sector in Portugal, forming a robust asset of knowledge and innovation, particularly in the domain of biological therapeutics. Vector B2B contribute with scientific expertise and state-of-the-art technology to offer a complete range of 360-degree services throughout the whole R&D value chain. Vector B2B have a dedicated team to help in the design and give support to each project throughout every milestone. This CoLAB offers integrated services in drug discovery, toxicology, process development and contract manufacturing (GMP) and clinical scientific management.

### AREAS OF EXPERTISE

Discovery and development of biological medicines.

### AFFILIATES

- Technophage – Investigação e Desenvolvimento em Biotecnologia, S.A.
- Laboratório Medinfar – Produtos Farmacêuticos, S.A.
- BeVag – Management Solutions, Unipessoal, Lda
- Faculdade de Medicina Veterinária da Universidade de Lisboa
- Faculdade de Farmácia da Universidade de Lisboa
- Universidade de Coimbra
- Faculdade de Medicina da Universidade de Lisboa

### CONTACTS

- 📍 Avenida Professor Gama Pinto nº.2, Alameda da Universidade, Cidade Universitária, 1649-003 Lisboa
- ✉ info@vectorb2b.com 🌐 www.vectorb2b.com

### DESCRIPTION

VG-CoLAB – Energy Storage is focused on providing high technology services and value added products, as well as innovative solutions for its partners and the market in the field of electrochemical energy storage. It thus aims to contribute to the implementation of the European energy transition agendas by providing for the development of world leading energy transition technologies and solutions. VG CoLAB is designed to support research, development and innovation and the creation of scientific jobs by addressing key R&D topics that will boost the Portuguese economy.

### CONTACTS

- 📍 Rua Dr Roberto Frias s/n, 4200-465 Porto 📞 +351 918 905 431
- ✉ info@vgcolab.com 🌐 www.energystoragecolab.com

### AREAS OF EXPERTISE

Electrochemical energy storage; Electronic conversion of energy; Intelligent energy management.

### AFFILIATES

- Efacec Energia – Máquinas e Equipamentos Elétricos, S.A.
- Universidade do Porto – Fundação Pública de Direito Privado
- Instituto Superior Técnico – Universidade de Lisboa
- INESC-TEC Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência
- Charge2C – NewCap Lda.
- A400 Projetistas e Consultores de Engenharia, Lda.
- Visblue Portugal, unipessoal Lda.
- EDP Inovação, S.A.
- Laboratório Ibérico Internacional de Nanotecnologia
- Simoldes – Plásticos, S.A.

### DESCRIPTION

CoLAB VINES&WINES aim is to create and communicate knowledge and technology, as well as to prepare, adapt and make the national wine system more efficient, resilient, and flexible to the major challenges it faces, including climatic, demographic, and economic ones. It also aims to be the driving force for innovation in products, processes, and services for companies in the Portuguese wine sector, to leverage their development and projection and in this way promote their competitiveness and sustainability. The mission is to:

- Generate and communicate knowledge and technology that enhances the expressed ambition of the sector to increase the export value.
- Support the ambition expressed by the sector to increase the export value of Portuguese wines.
- Ensure that the Portuguese wine system becomes more efficient, resilient, and flexible in order to respond to climate, demographic and economic challenges.

### CONTACTS

- 📍 Edifício Centro de Excelência da Vinha e do Vinho, Parque de Ciência e Tecnologia de Vila Real – Régia Douro Park, 5000-033 Vila Real
- 📞 +351 259 308 207 ✉ rosa.amador@advid.pt
- 🌐 www.colabvinesandwines.pt

### AREAS OF EXPERTISE

Vineyard: Genetic resources; zoning; soils; Intelligent and precision viticulture; territorial competitiveness – human resources, automation and perceived value; challenges related to the climate and water. Wine: oenological science for value increase and sustainability of the Wines of Portugal proposal; circular economy; environment, water and sustainability; economic and social sciences serving the sector's competitiveness and sustainability.

### AFFILIATES

- Associação para o Desenvolvimento da Viticultura Duriense
- Universidade de Trás-os-Montes e Alto Douro
- Instituto Superior de Agronomia (Universidade de Lisboa)
- Instituto Nacional de Investigação Agrária e Veterinária, I.P.
- Universidade do Minho
- Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência
- Universidade Católica Portuguesa – Centre for Biotechnology and Fine Chemistry



## Portuguese Value-Based Healthcare

### DESCRIPTION

Value for Health CoLAB (VOH.CoLAB) is a private non-profit organization with the mission of helping citizens and organizations to measure value in Health. We work alongside all healthcare sector stakeholders (providers, professionals, patients, citizens, pharma, etc.) in implementing pilots in a real-life context, developing and assessing innovative methodologies and services to measure health outcomes, including those using digital monitoring technologies. We provide service design, mapping, assessment, optimization, and planning in health care, using scientifically validated methods for measuring/analyzing outcomes, operations and costs. VOH.CoLAB aims to position itself as a VBHC (value based healthcare) specialist, offering scientific consulting services and tools, and being unique for its competencies in key areas of expertise (digital health, data science and artificial intelligence, health literacy and communication, economy and management).

### CONTACTS

- ✉ Universidade Nova de Lisboa, Campus de Campolide, 1099-085 Lisboa
- ✉ info@vohcolab.org
- 🌐 www.vohcolab.org

### AREAS OF EXPERTISE

Value Based Healthcare.

### AFFILIATES

- Associação Fraunhofer Portugal Research
- CUF – Gestão de Clientes e de Serviços de Saúde, S.A.
- Universidade Nova de Lisboa
- Vodafone Portugal, Comunicações S.A.



## Cyber-Physical and Cyber Security Systems CoLab

### DESCRIPTION

VORTEX-CoLab was born by the collision of industry and academia forming a single movement with a purpose of technology acceleration. Combining the potential of both research models, VORTEX vision is to create outstanding innovations and aims to become the largest hub for accelerating knowledge and technology transfer in the areas of cybersecurity and cyber-physical systems.

As the technology cycles become shorter and shorter, VORTEX aims to provide demanding new approaches to smooth the process between a new discovery in the research centers and its application in a new industry. Indeed, VORTEX-CoLab aims to advance cyberphysical systems solutions and technology bricks to enable the technology transfer and co-creation, merging cutting-edge research and agile market solutions.

### CONTACTS

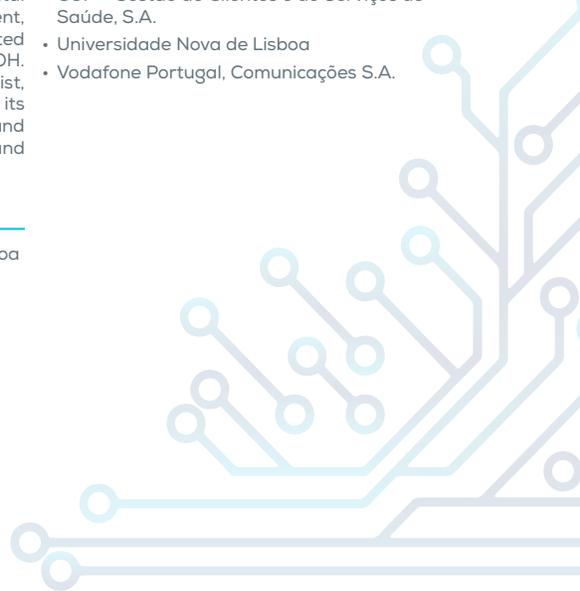
- ✉ Rua Serpa Pinto, nº 28, 44G e 44F, 4400-307 Vila Nova de Gaia
- ☎ +351 210 331 600
- ✉ vortex@vortex-colab.com
- 🌐 www.vortex-colab.com

### AREAS OF EXPERTISE

Cyber-security and Cyber-Physical Systems; new device conception services.

### AFFILIATES

- Altranportugal, S.A.
- Instituto Superior de Engenharia do Porto
- Universidade Nova de Lisboa
- Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência
- Beta-i



# COLAB

Laboratórios Colaborativos

