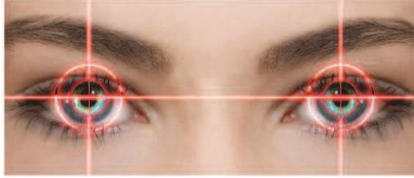
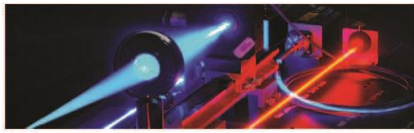


PROJECT SCOPE

OASIS will fill the gap between major players in life science by establishing a connection between research facilities and i) health care operators, ii) agrifood companies and iii) the network of small and medium enterprises that manufacture devices and provide services in the life science market.



To this end, the OASIS project will provide an inventory of past initiatives and currently available facilities, classified according to available technologies and access conditions. The inventories will be the starting point to map the needs and the expectations of end users (SMEs, health service providers or agrifood market players) with resources offered by life science facilities, keeping a specific focus on Photonics-based Technologies and Solutions. These objectives will be reached by collecting data from SMEs, life science infrastructures and hospitals located in each participant partner's regions and clusters. Success stories and problems encountered during the development of products will be shared to foster the future development of innovative solutions.



A model of services for SMEs and life science infrastructures will also be designed and made available to all photonic clusters in Europe to ensure the self-sustainability of the tools developed in the project. Technical meetings and workshops between cluster members and BioMed facilities will be organised to circulate ideas and best practice in the strategic European compartment of biophotonics.

PROJECT TOPICS



MEDICINE
HEALTHCARE



BIOLOGY



PHARMACEUTICS



COSMETICS



FOOD AND
WATER SAFETY



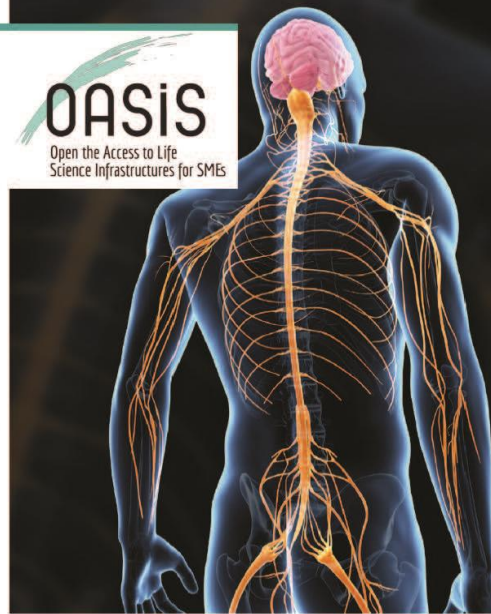
VETERINARY



AGRICULTURE



FORENSIC SCIENCE



OASIS

Open the Access to Life
Science Infrastructures for SMEs

The OASIS project aims to improve the links between life science facilities, research institutions and companies on a regional basis within the European-wide network. Thanks to OASIS, the results of the previous large EU investments in biophotonics will be more accessible to SMEs, thus allowing a competitive advantage in the development of new products and their validation.



Project cofinanced by the European Commission under the Seventh Framework Program

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PARTNERS



PROJECT COORDINATOR

OPTITEC is a community of 200 highly committed members with over 125 companies, 31 labs, 14 institutions of higher education and 30 partners. OPTITEC plays a key role in industrial development, research and higher education in the field of optics/photronics and image processing.

OPTITEC lives, communicates and works to promote a field of expertise, photronics, with the goal of elevating OPTITEC to rank first among national and European competitive clusters. We represent years of experience in providing pooled technological tools for the benefit of companies and labs. Our missions: Support the development of SMEs: From R&D to commercialisation - strategy, performance, international, funding; Promote South French Photonics at a European level - Management of European projects; Boost structuring projects that meet societal and industrial challenges.

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Southern European Cluster
in Photonics and Optics

SECPhO (Southern European Cluster in Photonics and Optics) brings together companies, technology centres and research groups in the photonics and optics sector. SECPhO's main objectives are: to generate business opportunities for companies; to foster technology centres and research groups with access to projects; to foster innovation in the field of photonic and optic technologies.

SECPhO was officially founded as a non-profit organization in 2009 in Terrassa (Barcelona), Spain. The Spanish Ministry of Industry recognized SECPhO's strategic plan as excellent. The mission of the cluster is the facilitation and improvement of competitiveness of the Spanish Optics and Photonics sector by reaching major growth and profitability. The leadership of this initiative is driven by world-wide known companies, R&D and technological centres related to this sector.

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POLITECNICO
DI MILANO

The Physics Department of Politecnico di Milano (Polimi) is one of the reference institutions in Italy for Photonics. Polimi is heavily involved in the smart cities and communities regional policy and acts as the scientific chair of the National Platform "Photonics sources and sensors". Polimi is the focal node of a region-wide network of Research Centres and Companies dealing with Biophotonics for a wide range of applications, spanning from the investigation of basic biological processes, to the design and fabrication of photonics systems for life sciences. Polimi belongs to the EU Laser Lab facility "Center for Ultrafast Sciences and Biomedical Optics (CUSBO) and has a strong connection with the National Research Council and with the Italian Institute of Technology. Finally, Polimi provides a Master of Science in Engineering Physics, with a specific curriculum in Photonics, including biomedical optics and spectroscopy.

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Photonics Bretagne is an association of industries, universities and research centres, R&D Labs and support association with the aim of structuring photonics in Brittany and bringing together members around a common brand. Photonics Bretagne increases interactions between the various key parties (Industry, Research, Schools, etc.) and supports bringing SMEs solutions to the market, and improves the vision of the competitive environment for members by implementing business intelligence tools. It helps raising the level of technological competencies of the R&D platform of Photonics Bretagne (PERFOS) to develop demonstrators integrating optical components, supports technology transfer policies and improve the dissemination of photonics in various applications.

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PhotonicSweden

PhotonicSweden is the national platform for the Swedish photonics. Its voice and support function. It was created in 2011 by merging the activities of two organisations, Swedoptronics and the Swedish Optical Society. It has about 45 member organisations representing more than half of the accumulated turnover of the Swedish photonics. PhotonicSweden has built working groups mirroring the ones of Photonics21 and has been part of the EU project supporting the latter. It has hence a working group focusing on life science and health. PhotonicSweden is based in Stockholm i.e. in a region where the field of life science is very strong with e.g. the world famous Karolinska Institute and a number of other renowned laboratories in the field. Except this region covering Stockholm and Uppsala, there are two other strong regions for the life sciences in Sweden, in Lund and Malmö and in Gothenburg.

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The "Nello Carrara" Institute of Applied Physics (IFAC) is part of the National Research Council (CNR). IFAC's main aim is to carry out frontier research at an international level and, at the same time, to develop new technologies and methodologies that could be effectively transferred to the economic system. The main lines of research are Lasers, Bio-photonics, Micro-optics, Sensors, Remote Sensing, Microwave, and ICT. The physical methods are employed in interdisciplinary sciences, among which bio-photonics for therapy and surgery and agrifood. CNR IFAC is founder of OPTOSCANA, the Innovation Pole of Tuscany for Optoelectronics and Space aimed at organizing the technological excellences of Tuscany in the fields of Optoelectronics, Photonics, Optics, as well as Components and Systems for Aerospace, in order to promote the technological transfer from research institutions to enterprises.

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Optec-Berlin-Brandenburg e.V. (OptecBB) is the competence network for optical technologies and micro-system technology in the region of Berlin-Brandenburg. It was founded on September 14th, 2000 as the result of a joint initiative of companies, research institutions, universities and federations supported by relevant ministries in Brandenburg and the Berlin Senate. Today, the association has approximately 100 institutional employees. Within the optics cluster in Berlin and Brandenburg about 400 companies and 35 research organizations focusing on optical technologies and micro systems technologies are agglomerated. The association connects cluster actors to jointly foster the development and application of these technologies. Network activities are organized in the areas of (1) lighting, (2) laser and (3) micro systems technologies as well as in (4) optical measurement, (5) biomedical applications and ophthalmology and (6) optics for communication and sensor application.

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The College of Engineering at Swansea University is one of the reference Institutions in Wales and across UK in several Engineering fields and in particular on healthcare, photonics and bio-photonics. The University and the College was granted several projects to cover specific areas like Photonics and Advanced Telecommunication, Manufacturing and Nanotechnology, with particular emphasis on healthcare applications. A Centre of NanoHealth (CNH, www.swan.ac.uk/nanohealth) was recently funded with a 21.6 ME European Regional development fund (ERDF) grant and it allows a permanent link between the Swansea University and local Hospitals. This allows Swansea University to support know-how sharing between engineering, physics and medicine and provide a local support for healthcare companies with particular emphasis on imaging, Biophotonics and light-tissue interaction.

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PhotonicsNL is the Dutch platform for high tech companies, knowledge institutes and education at all levels to exchange and spread knowledge regarding photonics. Thanks to our knowledge of photonics and widespread network we are able to advise companies with respect to the development of new products, to apply photonics for enhancing production processes or for introducing new production techniques. Moreover, PCN strongly aims at the development of photonics education. Especially at the level of secondary and higher education. Within the framework of IOP Photonics Devices, PNL closely cooperates with Netherlands Enterprise Agency (RVO), Mikrocentrum and Netherlands Council for Trade Promotion (NCH). PNL is also involved in several EU-projects to stimulate awareness of photonics in Europe and its importance as a Key Enabling Technology.

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