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## THE BIOMED DISTRICT OF SARDINIA



### GENERAL DATA

<b>Technological Vocation</b>	<i>Bioinformatics and computational biomedicine, biotechnologies applied to biomedicine, drug discovery and pre-clinical pharmacology, molecular diagnostics and pharmacogenetics, models and screening of bio-molecules, medical devices, autoimmune diseases.</i>
<b>Locations</b>	Pula and Cagliari area in the South, Alghero and Sassari area in the North.
<b>Region</b>	Sardegna (set up under the “Research and Technology Innovation” Framework Program Agreement signed on 27 May 2005, one of the four Biotechnological Districts officially recognized by the Italian Ministry of Research).
<b>Main Players of the Area</b>	<ul style="list-style-type: none"> <li>■ <i>Sardinia Regional Council</i></li> <li>■ <i>Sardegna Ricerche</i></li> <li>■ <i>Polaris Science and Technology Park</i></li> <li>■ <i>Porto Conte Ricerche</i></li> <li>■ <i>Cagliari University</i></li> <li>■ <i>Sassari University</i></li> <li>■ <i>CNR (Institute for Genetics of Populations, Institute of Biomedical Technologies, Institute for Neurosciences)</i></li> <li>■ <i>Fase 1</i></li> <li>■ <i>Tenants of the Technology Park</i></li> </ul>

### TECHNOLOGICAL VOCATION

Sardinia plays a leading role in the biotechnological, biomedical and health sector, that shows broad expansion potential. This thanks to different factors:



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- genetic drift phenomena (the so-called genetic isolates), the result of thousands of years of geographical isolation, which make Sardinia the ideal place for the identification of the genetic causes of complex diseases, included autoimmune diseases, and risk factors associated to these ones;
- highly qualified researchers and technicians in ICT and Life Sciences strongly oriented to interaction, two universities, National Research Council Institutes, several public and private research centres and an increasing number of Biotech oriented companies;
- *state of the art* infrastructures such as the Science and Technology Park;
- major investments by local authorities in R&D activities: over 700 million Euro will be made available for R&D projects and infrastructures in Sardinia in the next years (2009-2013).

The district was developed around a nucleus of scientific, technological, managerial and entrepreneurial competencies trained in research centres or universities in the main sectors of biology, genetics, microbiology and virology, pathology, epidemiology, pharmacology, chemotherapy, biomedical engineering, computational biomedicine and ambient-health relations.

This district is focused on two main areas:

- to promote innovation in biomedicine to improve the competitiveness of the regional health system, through the invention, testing, validation, development and production of new diagnostic and treatment procedures and greater synergy between the resources and expertise possessed by enterprises, research centres and the health service;
- to regenerate and reorient the local economy towards the biotech sector, attracting enterprises, external investment and financial resources to Sardinia, laying the groundwork for the creation of a Biomedicine & Technology Valley (Sardegna BioValley).

Some innovative projects involve the Biomedicine and Biotechnology stakeholders that are active in Sardinia's district:

- Genotyping of a healthy control population.

This project targets the individual genetic mapping of a large anonymous population of healthy Sardinians (about 3000 individuals). This large number of genetic profiles, which will be processed and stored by means of dedicated bioinformatics procedures, will provide the basis and essential reference for effective study of the predisposing genetic profiles of individuals suffering from diseases with a strong genetic component and high prevalence in the region (e.g. type I diabetes, multiple sclerosis, etc.);

- Sequencing of the human genome in an informative number of Sardinian individuals.

This project aims at sequencing the entire genome of around 10 individuals either from Sardinia or of Sardinian origin, using the Illumina-Solexa platform. With the data collected it will be possible to define the common genetic variants typical of the Sardinian population (and absent from genotyping panels obtained by sequencing non-Sardinian individuals), and to develop systems for large-scale use.



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- Man simulator, Human project.

This project is aimed at setting up and operating a bio-informatic platform for developing a software to simulate Phase 1 clinical trials (dose finding, pharmacokinetics, etc.), able to predict possible side effects and efficacy limits.

## CLUSTER PRESENTATION

The Sardinian district, the molecular medicine district of Friuli and the biotechnology district of Lombardy and Puglia are the only four Italian human health biotechnology districts recognized by the Ministry for University and Research.

Sardinia district's current policies aim at:

- Highlighting the district's distinctive scientific identity.

The peculiar genetic isolation features of the Sardinian population, the high prevalence in the region of some complex diseases, including autoimmune diseases, and the presence on the island of a number of genetic, biotech and pharma enterprises, suggest that scientific research should focus on these themes in order to achieve levels of excellence and appropriate scale.

- Investing primarily on key knowledge processes.

The resources and financial incentives are primarily channelled to the creation of platforms and development of scientific and technology expertise with high application potential, fostering the creation of new start-ups and spin-offs and providing incentives to production, especially in the fields of medical biotechnologies, pharmacology, bioinformatics and ICTs for biomedicine.

- Promoting the involvement of the regional health service in the district's initiatives and projects.

Such integration will facilitate the development, validation and testing of innovative biomedical and biopharma products and processes.

## THE BUSINESS SYSTEM

The main branch of the Science and Technology Park, located in Pula, currently hosts 49 enterprises and research centres operating in the following sectors: ICTs, Biomedicine, Health Technologies, Bioinformatics and Energy, employing more than 500 people overall. The Alghero centre hosts 17 enterprises and research centres operating in the following sectors: ICTs, Biomedicine, Health Technologies and Industrial Biotechnologies, employing about 80 people overall.

In its last report, Assobiotec ranks Sardegna Ricerche and Polaris first in Italy for the number of biotech companies located inside technology parks.



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Despite the Park, Sardinia hosts other companies (and operative offices of big companies or start ups), working in the area of Biomedicine and Biotechnologies: the increasing role this sector is playing in the region reinforces the interest institutions are giving to researches in this area.

Company	Technologies/Applications/Products
Area 3	Area 3 addresses all facets of human body movement: it provides services for assessment of human neuromuscular performance, consultancy in the R&D of specific new technologies, support to basic research and delivers training and updating on topics related to human movement.
Associazione Me.Di.Co	The association pursues research in the fields of human health and environmental protection, the prevention of non-communicable chronic diseases, economic implications of healthcare, and the environmental causes of disease.
Bcs Biotech	Is a biotech company actively involved in the development and production of in-vitro diagnostic devices (IVDs), in particular they are focused on the design and production of PCR kits for the medical, veterinary and food processing markets.
BGT Italia	Researches on DNA with applications in genetics, epidemiology and pharmacogenomics, for diagnosis and gene mapping.
Bioduct	Researches on methods for automatic dilution and preparation of anti-blastic drugs; delivering of leading-edge software for chemotherapy regimens, complete with a database able to handle all protocols and commercial drug packaging available on the market.
Bio)) Flag	Its activity focuses on the development of markers and assays (through combined interaction of bioinformatics, biology, chemistry and medicine) for early identification of the molecular aspects of disease that help formulate diagnosis or predict outcome.



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<b>Bio-Ker</b>	Bio-Ker is a private capital company in the pharmaceutical biotech sector that pursues R&D in the field of therapeutic proteins, controlled protein release systems and immunization with DNA plasmids.
<b>Bio Diversity</b>	The company comprises several sections that develop diagnostics in the areas of medicine, veterinary medicine and the agro-food sector; it also carries out research in the fields of genomics, proteomics and biotechnologies for medicine and diagnostics.
<b>Bioecopest</b>	Bioecopest develops natural innovative solutions to meet the growing demand for environmentally friendly pest management products.
<b>Biomedical Research</b>	Biomedical Research is a private capital SME established by a group of researchers (veterinarians and biologists) expert in the field of new animal models for the study and treatment of human diseases
<b>Biomedical Tissues</b>	Biomedical Tissues discovers, develops, tests, produces, processes, uses and markets, in both public and private sectors, innovative cell cultures of all types and sizes, and associated bioreactors, for tissue engineering and regenerative medicine and other high-tech applications.
<b>Bionoor Research</b>	BIONOOR researches, develops and markets products for healthy ageing, and aims at becoming a market leader through the development of nutraceuticals based on active substances available in Sardinia.
<b>Biosistema</b>	Biosistema's technological competence centre undertakes High-Tech Biology research, i.e. in the field of Bioinformatics and red, white and green biotechnology.



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<b>CardioSim</b>	The mission of CardioSim is to provide theoretical and practical training in managing cardiovascular emergencies to medical and nursing students, interns, physicians and nurses working in Sardinian hospitals and university hospitals.
<b>Cellsurf</b>	Cellsurf is specialized in the development and production of innovative systems for characterization of surface antigens.
<b>ClearMed</b>	ClearMed is specialized in the synthesis and production of peptide molecules; it also holds training courses to companies interested in using and producing such molecules.
<b>CNR (Institute for Biomedical Technologies)</b>	This institute has the main aim of pioneering new types of cross-disciplinary biomedical research by bringing biology, engineering, medicine, and the basic sciences together.
<b>CNR (Institute for Genetics of populations)</b>	The research fields are related to multidisciplinary studies on human populations, with particular regards to genetic isolates, for the identification of genes and environmental factors associated to simple and complex phenotypes
<b>CNR (Institute for Neurosciences)</b>	The institute's research team is focused on understanding of the molecular, biochemical, electrophysiological, and behavioral bases of drug addiction.
<b>Consorzio EI Pro</b>	EL-PRO also pursues R&D and experimentation in the pharmaceutical sector, including the characterization of tissues and organs subsequent to drug treatments, and the identification and characterization of new delivery systems based on micro- and nano-particle technology
<b>Consorzio Pharma-Gen</b>	Pharma-Gen develops researches applied to genomics and pharmacogenetics and offers biomedicine services. In particular, this company acts in creating and developing platforms for the screening in the field of pharmacogenetics.



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<p><b>CRS4 (Bioinformatics Laboratory)</b></p>	<p>It pursues scientific research and technology development and innovation, delivers further scientific and technical education and training, and provides advanced services in the sectors of high-performance computing, scientific imaging, simulation, modelling, bioinformatics and ICTs in general.</p>
<p><b>Econfidence</b></p>	<p>The company mainly works in the fields of public health. Its platforms act as a point of contact and technical intermediary between various types of Internet users and between specific web communities and professional operators.</p>
<p><b>Euroclone</b></p>	<p>EuroClone spa was founded by a group of managers active in the biomedical field to create synergies and reach the required critical mass to boost growth domestically and internationally.</p>
<p><b>Fase 1</b></p>	<p>The first Italian Clinical Research Organization set up in Sardinia by the Regional Government provides technical and financial support for the first clinical trials (phase I and II) of candidate drugs.</p>
<p><b>Inpeco TIH</b></p>	<p>Inpeco is leader in the automation of clinical laboratories. It designs and manufactures systems that allow complete automation of analytical workflow, from pre- to post-analytical steps.</p>
<p><b>Intelsint</b></p>	<p>Intelsint's business is the development, production and sale of products (devices, consumables and diagnostic kits) for histology, cytology and anatomical pathology laboratories.</p>
<p><b>Intoresearch</b></p>	<p>InToResearch offers research, development and consulting services in chemoinformatics, chemical and pharmaceutical databases and software design and maintenance.</p>



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<p><b>Isogem</b></p>	<p>ISOGEM conducts R&amp;D in microbial biotechnologies, using various platforms such as real time PCR, microarrays and DHPLC, for the development of therapeutic vaccines, probiotics, environmental projects (bioremediation), and identification of new anti-bacterial drugs.</p>
<p><b>Kemo Tech</b></p>	<p>The company operates in the field of synthesis and development of new compounds and formulations, for application in biology, biomedicine, veterinary medicine, biochemistry, chemistry, nanotechnologies, drug delivery.</p>
<p><b>Kemifar</b></p>	<p>The R&amp;D activity is focused on the realization of parapharmaceutical and nutraceutical solutions based on new formulations and innovative processes through an approach based on “Risk Watching”, for the promotion of health and prevention of diseases.</p>
<p><b>Lea Biotech</b></p>	<p>Lea Biotech works in the field of molecular research using modern technologies for genomics and proteomics for the development of services and products for diagnostics.</p>
<p><b>Lea Nanotech</b></p>	<p>Lea Nanotech’s is specialized on agro-food and veterinary sectors. Planned activities include the development of kits for the detection of environmental contaminants, toxins and micro-organisms in food, leading to improved food safety.</p>
<p><b>LIA - Laboratori di Informatica Applicata</b></p>	<p>Core activity relates to informatics applied to medicine and bioinformatics, integrated solutions and new technologies for public sector stakeholders.</p>
<p><b>Mismed</b></p>	<p>Mismed is involved in the development of methodologies and devices for measurement, diagnosis, test and simulation, in the biomedical sector, for human or animal health.</p>



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<b>Neuroscienze Pharmaness</b>	The company conducts R&D and provides services in the field of preclinical assessment of new drugs, with special regard to the identification of new active principles for treatment of Central Nervous System diseases and disorders.
<b>Nurex</b>	Nurex is specialized in the production of advanced diagnostic tools, in particular, Nurex has developed a variety of tools for biomedical research in the fields of genomics, proteomics and clinical diagnosis.
<b>Nutrisearch</b>	The company is aimed to study, development, design and produce functional foods and/or food supplements for human and animal consumption, and to develop researches for nutritional applications.
<b>PriGen</b>	Pri-Gen conducts R&D in the biotech, molecular diagnostics and biopharmaceutical sectors. It is also an advisor for technology transfer and offers contract-based research services
<b>Proteotech</b>	The company aims at playing a major role in research and innovation transfer, as well as in proteomics applied to biomedicine, and focuses its efforts on applied research, investing in competency building, in the purchase of major equipment and in training activities.
<b>Sardinia Research and Development</b>	Expertise include infectious diseases, virology and immunology, bacteriology, genomics of infectious diseases. Activities include: research, target discovery, and product design services.
<b>SharDNA</b>	The aim of this company is the creation of a multidisciplinary research team for carrying out a research program in a particular area of Sardinia (Ogliastra) using an original and innovative approach to diseases.
<b>SIC</b>	SIC's activity is focused on R&D of new solutions in Bioengineering, Electronics and Microscopy in terms of products and services for industrial and clinical applications.



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<p>University of Sassari – Laboratory of Immunogenetics</p>	<p>Studies on the human genome to identify the risk factors of genetic diseases widespread in Sardinia, in particular autoimmune diseases such as type I diabetes and multiple sclerosis.</p>
<p>Virostatics</p>	<p>It focuses on the development and manufacturing of drugs protecting the patient's immune system and combating chronic immune diseases such as HIV and AIDS.</p>
<p>Xeniabiotech</p>	<p>Focus of the activity is the automated production of recombinant proteins for the development of antibodies: from gene cloning to protein purification in prokaryotic and eukaryotic cells.</p>
<p>Wezen Biopharmaceuticals</p>	<p>The Company's vision is to bring new antibody-based therapeutics to the global market. To meet its objectives, Wezen has established a network of strategic collaborators that include leading academic organizations and biotechnology companies.</p>
<p>2b1</p>	<p>2B1 operates in the field of medical devices for orthopaedic surgery and neurosurgery. Its activities include the conception, design, development, manufacturing and marketing of medical devices</p>
<p>2C Technologies</p>	<p>Focus of its activity is the development and validation of methods and protocols of analysis based on Impedance Cardiography and non invasive diagnosis.</p>

## RESEARCH INFRASTRUCTURES AND TECHNOLOGY TRANSFER



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## POLARIS

Originating from the joint commitment of the Autonomous Regional Government of Sardinia and the European Union, Polaris, the Science and Technology Park of Sardinia, is a system of advanced facilities and services fostering innovation, development and the industrialization of research.

With its two branches (in Pula and Alghero), the main research activities are carried out in the field of ICT on one side, and biotechnologies and biomedicine on the other side, with an increasing importance of the renewable energies sources sector.

The Park is managed by Sardegna Ricerche (the former Consorzio Ventuno) the regional R&D agency that has as main aim the promotion of research and technology transfer and the development of a knowledge-based local economy.

Polaris is one of the largest technology parks in Italy, specialised in three main areas:

- **ICT:** Information and Communication Technologies are one of the main historical focus in the Region of Sardinia's development strategy;
- **Biotechnologies:** ranging from biomedicine to agro-industrial biotechnologies and bioinformatics, biotechnologies, in particular those applied to healthcare;
- **Renewable energies:** strengthening of energy infrastructure, upgrade the energy system, decrease reliance on oil products, ensure compatibility of power production and distribution with environmental protection requirements.

**Technology Platforms** that can be found inside the Science and Technology Park related to Bio sector are:

- Genotyping, molecular diagnostics and sequencing lab;
- Nano-biotechnologies lab;
- Analysis laboratory through NMR;
- Animal facility lab;
- Molecular immunology lab;
- Bioinformatics lab;
- Proteomics lab;
- Analytic chemistry and magnetic resonance lab;
- Agro-food and microbial biotechnologies lab.

## CAGLIARI UNIVERSITY

It is especially through the Faculties of Pharmacy, Medicine and Surgery, Mathematical, Physical and Natural Sciences, Engineering, that this University interacts in the field of Biomedicine,



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Biotechnologies and ICT with all those subjects involved in the Biomedical district. The *Industrial Liaison Office* inside the University of Cagliari, is an important contact point for researchers and departments to give support to technology transfer and patenting information.

## **SASSARI UNIVERSITY**

With its Faculties of Mathematical, Physical and Natural Sciences, Agriculture, Pharmacy, Medicine and Surgery, Veterinary Medicine, the University of Sassari is a leading player in the field of biotechnologies. The *Industrial Liaison Office* inside the University of Sassari, is an important contact point for research teams and departments to give support to technology transfer and patenting information.

## **CNR**

Through the following institutes: Genetics of population (Tramaglio, Alghero-Sassari); Neurogenetics and Neuropharmacology (Cagliari), Centre for neuro-pharmacology and the Institute for research into Mediterranean Thalassemia and anemia, Neurosciences Institute (Cagliari), Institute for the study of illnesses of the blood and organs (Sassari), and interactions between the research centres, academia and enterprises, the CNR brings a fundamental contribution in qualifying Sardinia a top Biomedical district in Italy.

## **CRS4**

CRS4 (Center for Advanced Studies, Research and Development in Sardinia) is an interdisciplinary research center developing advanced simulation techniques and applying them, by means of High Performance Computing, to the solution of large scale computational problems, and developing innovative applications in the field of the Information and Communications Technology. Many researches are focused on interconnections between ICT and medicine, biotechnologies and life sciences.

## **PORTO CONTE RICERCHE**

Porto Conte Ricerche, established in 1995, pursues R&D, technology transfer and training activities in the fields of food technologies and applied biotechnologies. The mission of Porto Conte Ricerche is to promote and run industrial research, advanced training and technology transfer initiatives in the various areas of food technologies and biotechnologies. The company manages the local branch of Polaris Science and Technology Park in Alghero and organizes laboratories, technological platforms and scientific know-how for research, analysis, testing and assistance activities in development and realization of research programs.



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## FASE 1

Fase1 srl is a company created by the Region of Sardinia to pursue the clinical development of new diagnostic and therapeutic agents. The company leverages on its budget from public funding. Fase1 relies on a high-profile Scientific Committee and an independent Ethics Committee responsible for safeguarding the interests and well-being of all parties involved in clinical trials. Fase1 assesses the technical-scientific relevance and marketing potential of new diagnostic and therapeutic agents, carries out preclinical and clinical trials (phase I and II), and delivers scientific training and information. The company also provides a broad range of services, including pre and post-patenting assistance, assessment and support in the preparation of technical, scientific and regulatory dossiers, and the design and execution of preclinical and clinical trials.

## BIOSISTEMA SCRL

The Biosistema technological competence centre undertakes High-Tech Biology research, i.e. in the field of Bioinformatics and red, white and green biotechnology.

Biosistema CCT bundles scientific and relational capital of the regions of Southern Italy, in order to be able to provide a broad offer spectrum of services for the promotion of innovative production systems. In summary, such services consist of: Scientific, technological, logistic, juristic and financial information, Technology transfer, Highly qualified training and Scientific research.

## SERVICES, SUPPORT AND FINANCING SOURCES

### Services offered by Sardegna Ricerche:

- Patent and trademark information and documentation;
- Technology transfer and start-up support;
- Advanced education and training (post-graduate master courses in Renewable Energy, Nanobiotechnology, Medical Biotechnology and Bioinformatic Technology);
- Advanced training and technical-scientific updating seminars for enterprises;
- Marketing and research promotion.

### Regional incentives

- Funding devoted to R&D activities in Sardinia for the period 2007-2013 will be of 700 million €. Further measures of the Regional Support Programme (POR) will provide funding for research, trials and pre-competiton development.
- Venture capital fund “Ingenium Sardegna”, is aimed at reinforcing the creation and development of innovative start-ups; managed by Zernike-Meta Ventures, the fund intervenes for seed operations, start up and capital expansion in small and medium size



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companies. This is an instrument under Objective 6.2.2 B of the Regional Operative Programme 2007-2013, Axis VI Competitività.

- Regional application programme FAS (Fund for Little Used Areas) 2007-2013: Some strategic measures of the programme include funds for research, innovation and technology transfer.
- Development of close cooperation between academia, research and industry.

### National incentives

- Enactment of Law No. 297 dated 27. July 1999: contains non-repayable subsidies for industrial research and pre-competition development.
- Enactment of Law No. 2 dated 28.01.09: Contains tax relief for research and development activities. Companies from all sectors can claim this, with the exception of companies in difficulties in accordance with the common guidelines for state assistance for bailing out and restructuring companies in difficulties.

### European incentives

- The seventh framework programme for research and technological development 2007-2013 includes funding for the conduct of R&D projects. The aim is the enhancement of Sardinia's competitiveness.

### Programmes and services

- R&D programmes. These are support programmes for the implementation of industrial research and pre-competitive development projects by enterprises operating in Sardinia.
- Start-up Programmes: these are aimed at creating and supporting the development of innovative start-up companies.
- Integrated Innovation Programmes (Programmi Integrati di Innovazione - P.I.I.). These are designed to support process, product and organisational innovation in Sardinian enterprises belonging to the same sectoral, geographical or operational area, through a set of actions (information, technology facilitation, innovation, enterprise creation, training etc.).
- Integrated Services Programmes (Programmi Integrati di Servizi - P.I.S.). These programmes are reserved exclusively to services, local areas or sectorial chains identified from time to time by Sardegna Ricerche, which also defines the contents of each programme (methodology, quality standards, objectives, etc.). Service delivery is accompanied by facilitation, training and mentoring activities, in which the beneficiary Sardinian enterprises are required to participate.



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- Pilot or Cluster Projects. A tool developed by Sardegna Ricerche to raise awareness and encourage adoption of innovative process, product and organisational solutions by Sardinian enterprises belonging to the same industry cluster or production chain. By means of pilot projects, the enterprises belonging to a specific economic sector, starting from analysis of their technology, production and market requirements and ranking their priorities, identify a specific area for common action;
- Technology transfer actions, both at local, national or transnational level. In this area the EU project EEN (Enterprise Europe Network) –C.I.N.E.M.A. must be considered. The new network 'Enterprise Europe Network' results from the professional growth of the former network of the Innovation Relay Centres and the Euro Info Centres. It bundles competences, services and instruments, which aims at involving research centres and SMEs to increase their innovation potential. Moreover, the network is intended to facilitate access to EU-funding programmes for internationalisation and innovation. The C.I.N.E.M.A. network (Central Italy Network to Enhance coMpetitive business Activities), integrated in the park is a member of Enterprise Europe Network and covers five Italian regions (Tuscany, Marken, Umbria, Latium and Sardinia) and 22 partners. The overall coordination again is held by the Pisa Ricerche consortium.

#### **Services to clients covered**

- visits and audits to assess enterprises' technology potential and requirements;
- technology brokerage through the European networks;
- assistance in early-stage negotiation of technology transfer agreements;
- organisation of technology transfer info days and thematic seminars;
- support for participation in brokerage events and technology transfer days organised in collaboration with European partners.

## **USEFUL ADDRESSES**

### **Sardegna Ricerche**

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