

«*FVG as@Lab*»

regional partners and projects
for the innovation of the quality of life
at home in Friuli Venezia Giulia region



Designed by A.S.S. n.5 and Informest in collaboration with the Region Friuli Venezia Giulia in the framework of SEE AsviLoc plus (Agencies Supporting Value of Innovation systems in regional and LOCal economies) project

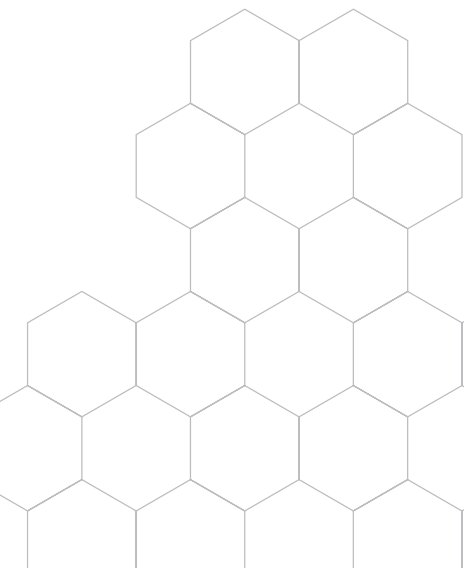
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Regione Autonoma Friuli-Venezia Giulia
AZIENDA PER I SERVIZI SANITARI N. 5
"BASSA FRIULANA"



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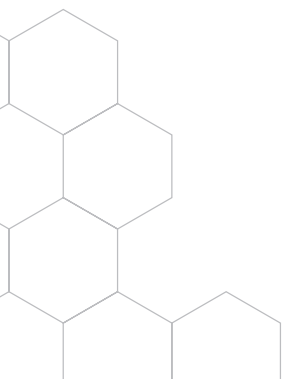


foreword

A fast increase in population aging has strong social, cultural and economical implications for the Region Friuli Venezia Giulia which is one of the Italian regions with the worst demographic dynamics. A growing dependant elderly population renders the health sector policies a crucial element in regional development strategies increasing the need to foster innovation processes within the health sector. Many regional organizations are working on this issue and several initiatives have been developed so far. The creation of a health innovation system and network has been actively supported by the regional policies. The most recent experiences on innovation in welfare system dealing with ICT issue have been promoted through the FVG Regional Law n.26/2005, art.22 on “Innovation in Welfare sector”. In this framework the regional administration has launched a strategic project “Regional Laboratory on accessibility, domotics, innovation”, promoting local partnerships within the public health and social protection services as well as among public and private sectors. This project has proved effective and soon became the permanent initiative “Regional Laboratory for the promotion of Home living and accessibility” for the quality of home living of elderly and persons with disability.

In this scenario, Informest, as partner of the South East Europe transnational cooperation project “Asviloc plus”, has supported the start-up of the Regional Laboratory and its activities. That action has been carried out in cooperation with Local Health Authority N.5 “Bassa Friulana”, in charge of the coordination of the Regional Laboratory.

This catalogue is a result of the pilot action of Asviloc plus and intends to represent a tool for the international promotion of the Regional Laboratory and the network on accessibility, domotics and quality of life. The publication intends to provide a synthesis of the main innovative solutions developed so far by the regional Health Innovation system to respond to the challenges related to the demographic change.



asviloc plus

1.

the project

Acting for innovation systems is a long-term effort supported by successive experimentations. Successful regions commit themselves to long-term policies which put in place elements encouraging a common vision of innovation as a factor of regional development. Regional Development Agencies can act as facilitator linking innovation demand and offer and the policy level.

AsviLoc plus – Agencies Supporting Value of Innovation systems in regional and LOCAL economies - is a project funded under the first call for proposal of South East Europe Transnational Cooperation Programme. The project aims at enhancing the framework conditions and paving the way of innovation at transnational level, by improving Regional Development Agencies (RDAs) role as innovation governance promoter.

Main Asviloc plus objectives are:

- to create innovative knowledge network through the establishing of regional Laboratories in each target area to better detect and match the needs of different stakeholders focused on innovation and technology;
- to enhance innovation management by transnational planning and evaluation of specific, innovative services, addressed and tested on SMEs aimed at facilitating the innovation entrepreneurship
- to improve the innovation governance supporting policy makers both at local and EU level
- to raise public awareness of the South East Europe Area as a place of innovation growth through concrete actions
- to set up a lasting coordination mechanism for Regional Development Agencies actions increasing competence and skills of RDAs staff on innovation issue.

The project foresees the setting up of Regional Laboratories in each project partner area, in order to match innovation and technology needs of different stakeholders (research centres, universities

and collective business support actors) and to transfer their needs at policy level addressing joint request to improve the innovation governance of the South East Europe area.

In particular, the activities of the project are

- Creation and consolidation of the local and trans-national network;
- Knowledge sharing on themes relative to innovation;
- Implementation of staff exchange and training packages;
- Improvement and specialization of Development Agencies staff
- Pilot activities to test the innovative services for SMEs and their associations;
- Thematic workshops with the participation of policy makers and key actors of innovation;
- Elaboration of a Memorandum of Understanding / Central Agreement of the Development Agencies together with the Communitarian Policy makers participating in the program management 2013-2020;

Partnership is constituted by Regional Development Agencies and Regional Innovation Agencies of several SEE Regions as “innovation” catalyst agents:

- SVIM – Sviluppo Marche, Development Agency of Marche Region, Lead Partner – Italy
- CONSVIPO – Consortium for the Development of Polesine – Italy
- Informest – Service and Documentation Centre for International Economic Cooperation – Italy
- AWS – Austria Wirtschaftsservice – Austria
- VEDA – Varna Economic Development Agency – Bulgaria
- ANATOLIKI – Development Agency of Eastern Thessaloniki – Greece
- ANRO – Regional development Agency of Rodopi – Greece
- STRIA – South Transdanubian Regional Innovation Agency – Hungary
- ADRNORDEST – North East Regional Development Agency – Romania
- NW RDA – North West Regional Development Agency – Romania
- IDA – Istrian Development Agency – Croatia
- HRAST – Development Agency Vukovar-Srijem County – Croatia

www.asvilocplus.eu

Informest

Informest was founded in 1991, a period of renewal and of openness with respect to Eastern Europe following the fall of the Berlin Wall. Informest was established under Italian Law 9/1/91 n.19, with the objective of promoting economic development and internationalization processes.

In Italy, Informest consolidated its reputation for excellence by becoming one of the four national agencies for cooperation in the area of Southeast Europe (L. 84/01). Informest has completed projects championed by the cooperation strategies of Informest associate regions, the Ministry of Foreign Affairs and the Ministry of Economic Development.

Informest supports the economic growth of countries in new scenarios by analyzing international development trends and building territorial partnerships with enterprises.

Informest promotes workforce development, entrepreneurial initiatives and exchanges between Italy and other countries and vice versa, by creating and realizing projects on European, national and regional level.

Informest promotes the relationship between resources and skills, analysis and action with the aim of identifying opportunities for development both within the projects it supports and the regions it covers, thereby showing its commitment to understanding economic context.

Informest stands for a different approach to development which is broader, more creative and makes a bigger impact.

As partner, Informest has implemented Asviloc plus activities in Friuli Venezia Giulia. In particular, the pilot activity has been carried out in cooperation with the Local health Agency n. 5, in charge of coordinating and implementing the Regional Laboratory for the promotion of home living and accessibility. The pilot action has envisaged a supporting role to the Local health Agency n. 5 in the internationalization process and strategy of the regional cluster of innovation in the health sector.

www.informest.it

the Regional Laboratory for the promotion of home living and accessibility

In the last decade, Friuli Venezia Giulia Region (FVG) has developed a complex weave of legislative and project-based interventions aimed at promoting home living of persons with disabilities and dependants at the best conditions possible in terms of quality of life.

In particular, in the latest years, the need to trigger processes that systematize innovations and experimentations realized in different contexts and sectors has emerged vigorously. For this reason, a strategy for mainstreaming home-care and accessibility in a common agenda of interventions for the quality of life at home for elderly and/or persons with disabilities, able to orient project development and implementation, has been launched.

In this perspective, the FVG administration, through the integration of the “health and social inclusion” and “research and innovation” sectors, has set in place the “Regional laboratory for the promotion of home living and accessibility” for elderly, persons with disabilities and dependants. The Laboratory started as a project (LADI project) is now a permanent regional initiative officially established by a Regional Act. The Laboratory provides an organizational framework to support the development of a network among local, regional, national and international actors. The management of the Laboratory has been entrusted to the Local Health Authority n. 5 (ASS 5) “Bassa Friulana” - Area Welfare di Comunità.

The objective of the laboratory is the promotion of dialogue and cooperation between public and private partners on demographic change issues and on the role of technology in the development of tailor made products and services. The Laboratory directs the different initiatives, relevant in terms of both resources and results, which public and private partners at regional and national level are implementing on Domotics, Innovation, Accessibility and Social housing (the so-called Abitare possible, “enabled living”), and which are connected to the quality of home living of elderly and persons with disability.

The activities that the laboratory carries out are: management of knowledge and information for the dissemination of ICT; coordination of a network of actors active in the field of innovation intertwined with the perception of ageing society; project-oriented and organizational support to Friuli Venezia Giulia Region aiming at strengthening its presence in research and development projects at national and international level; development of documents and background material useful for orienting public and private entities committed to design management solutions for social housing projects; promotion and implementation of initiatives encouraging the culture of accessibility by developing contents and training for the enhancement of competences in the field of accessibility and quality of life at home.

Within this path of innovation of local and community welfare systems, of ambient of living and of homecare systems for the elderly, the regional laboratory has met ASVILOC Plus project. The relationship represents an opportunity to appreciate the regional system in terms of internationalization and promotion of knowledge, exchange and transnational networking.

www.welfare.fvg.it/index.php/it/home/azioni-innovative-e-di-sistema/ladi

the partners of the regional network

2.

Local Health Authority N.5 “Bassa Friulana”

The Local Health Authority n. 5 “Bassa Friulana” (Azienda per i Servizi Sanitari N.5 ‘Bassa Friulana’ - ASS 5) is part of the Regional Health System and is responsible for health services delivery to a population of 110.000 inhabitants, including a community-based service of homecare nursing, started in 2001.

ASS 5 operates on behalf of the Friuli Venezia Giulia (FVG) Regional Government for activities regulated by specific administrative agreements, in the field of health, integrated social policies and innovation, i.e. by assisting in the implementation of the Regional Social and Health Plan, programs for the autonomy and independent living of elderly and people with disabilities and hosting the activities of the WHO Collaborating Center for the Family of International Classifications (FIC).

ASS 5, through its Welfare Department, is officially entrusted with the management and implementation of the “Operational Plan 2010-2013 for the international dimension of health policy of Friuli Venezia Giulia” (Decision by the Regional Executive Council no. 2354 dated November 18, 2010).

On the basis of this task, ASS 5 is coordinator of EU funded projects and supports the FVG Region participation in the EU Networks in the sector of Health and Social Inclusion (AER, ERRIN, CORAL, ELISAN).

Moreover, ASS 5 is in charge of supporting the Directorate for Health and Social Policies of FVG Region in health and welfare policy planning, especially in the development of the Welfare and Innovation regional system.

The most recent experiences on innovation in welfare system dealing with ICT issue have been promoted through the FVG Regional Law n.26/2005, art.22 on “Innovation in Welfare sector”. In this Regional Framework of actions for living at home and measures against the institutionalization of elderly, ASS 5 is the implementing organization of the strategic project “Regional Laboratory on Accessibility, Domotics, Innovation”, LADI project, promoting local partnerships within the public health and social protection services, as well as among public and private sectors; strengthening and re-organising home-based social and healthcare services according to a community develop-

ment approach; the adaptation of apartments with technologies, teleassistance and telemedicine; the realization of integrated residential services experimenting “Social housing” for the elderly. On the basis of art.22 of Regional Law 26/2005, ASS 5 closely dialogues with public and private actors of the innovation sector to promote home living of elderly and people with disability. ASS 5 contributes to the regional cooperation and benefits from it sharing and envisaging a strategy aimed at supporting life at home and oppose the institutionalisation of the elderly by means of the management of the ongoing strategy calls for the development of organisational models liable of supplying more effective public and private home care and assistance services and facilitating the access to the living environments.

These initiatives are coherent with the priorities of Europe 2020 strategy and the European Innovation Partnership on Active and Healthy Ageing (EIP – AHA).

www.ass5.sanita.fvg.it

www.welfare.fvg.it

AREA Science Park

AREA Science Park is a multi-sector science and technology park, one of the top six National Public Research Bodies under the aegis of the Ministry of University and Research.

Since 1978, when AREA was founded, the Consortium manages the Park and since 2005 it has been recognized as one of the top Public Research Bodies in Italy and one of the most active promoters of technology transfer to SMEs.

AREA's main activities are: developing competences in technology transfer, promoting investments in research, innovation in industrial products and processes, taking part in international projects, developing new technologies, designing and developing tools and offering qualified consultancy services.

The Consortium's staff of 130 people has gained significant experience in national and international project management in numerous fields of innovation and in the development of innovative enterprises.

AREA Science Park's vision is "to be an international reference point for Technology Transfer, for the strategic and operational management of Research & Innovation".

Consequently, the mission is to grow customer competitiveness through:

- Value exploitation within enterprises and research entities;
- Training for enterprise development and research and innovation management;
- Promotion of scientific and business excellence networks.

The Park hosts the following initiatives:

- national and international research centres, among which the International Centre for Genetic Engineering and Biotechnology (ICGEB) and the Elettra Synchrotron Light Laboratory stand out. These institutions open up new frontiers of knowledge and are able to stimulate important scientific research and technological development processes;
- research and development laboratories and service centres of leading companies in science and technology;

- small and medium enterprises active in the fields of research and advanced services, carrying out innovative research, development and experimentation projects and new enterprises with high knowledge intensity, which are often research spin-offs.

There are a total of 86 centres, companies and eminent research institutes in AREA's two sites in Trieste (Italy), employing over 2400 personnel engaged in research and development, training and qualified services.

The aim of AREA Science Park is to create a solid connection between the research and the business world.

AREA's main activities are:

- Technology Transfer and start-up incubator
- Education in R&D management and entrepreneurship
- International networking
- Coordination of the 53 Research Bodies active in the Friuli Venezia Giulia (FVG) Region
- Management of the Science and Technology Park.

Since 1997, AREA Science Park has focused on technology transfer, making it its core business. A staff of about 40 people works in the Technology Transfer Department at the Trieste Science and Technology Park, creating a link between local businesses and a particularly advanced regional research system.

AREA Science Park's technology transfer service is based on supporting companies' growth by carrying out a new and personalized transfer of expertise and skills.

This system can provide innovative solutions, which integrate services aimed at increasing business competitiveness by promoting the creation of spin-offs, enhancement of research and advanced training.

Visiting companies, evaluating their needs, arranging contacts with experts, providing project follow-up, making sure that objectives have been achieved: these practices optimize time and resources, and provide businesses with steady assistance during all stages of innovation.

AREA has developed skills in coordinating and supporting projects which seek to enhance the quality of life of older and disabled people. In particular, the Technology Transfer Department team

encourages those who are interested in identifying the best technologies, product and services for specific target users in order to improve usability, accessibility and conformity to standards, also providing technical support.

AREA Science Park participates in national and international projects together with European partners – especially with neighboring Countries of central and eastern Europe which are going through an economic transition.

By promoting the Friuli Venezia Giulia region's resources in the research field, enhancement of technology transfer and economic and industrial development, AREA Science Park catches opportunities for regional improvement and growth.

To this end, AREA promotes various partnerships and collaboration agreements:

- ITIS : the goal is to develop approaches to help older people stay well while living independently, offer support to aging well, improve the quality of life of elderly people and their relatives, and help to personalize health and social care.
- ACLI : support to identify innovative technologies in the field of assistive domotics that can help to enhance inclusion for elderly people and a range of different disabled users, by allowing them to interact with loved ones, carers, home appliances and assistive devices, or personal computer and internet technologies.
- Spirito di Stella: support to identify the best innovative technologies in order to facilitate everyone's access to the most suitable assistive technology or accessibility device and service according to their needs. These solutions have to be implemented in prototypes of domestic and boat environments.

www.area.trieste.it

Friuli Innovazione

Friuli Innovazione was set up in order to foster the economic development of the Region Friuli Venezia Giulia by promoting the technology transfer and the interaction between academic researchers and local enterprises. In 2005, with the support of the Region, launched the Science and Technology Park "Luigi Danieli", located in the industrial area of Udine. The Park is an attractive space situated overall an area of 80,000 square meters, equipped with offices and laboratories, meeting and conference rooms, available to companies and researchers that want to develop research and technology projects. An enlargement project that involves the construction of three new buildings (+3,700 square meters) is currently going on.

Friuli Innovazione offers an integrated proposal ("Spazio Impresa") for enterprises, research and new business ideas with customised services for the promotion and the support of innovation at every stage: development of entrepreneurial ideas and creation of new enterprises, through the Techno Seed incubator; search for technical and scientific skills and activating agreements between university and enterprises; search for funds and starting partnership and innovative projects; support for the growth and development of small and micro high-tech enterprises through the Techno Growth accelerator, hosting at the Park.

In particular, services are:

- Technology transfer
identifying innovation needs in the enterprise, searching for the most appropriate technical and scientific skills, identifying innovation options, profiling and searching for research partners, defining collaboration agreements for research projects and assistance in the main processes of technological transfer.
- Enterprise Funding
Information, assistance and training on research, development and technological innovation programmes at Regional, National and European level. Activities relating to European research,

development and technological innovation programmes are carried out in collaboration with the Udine-based Apre Friuli Venezia Giulia desk.

- **Enterprise Development**
Training, evaluation and assessment of the business idea, assistance on business planning and business plan development, technological feasibility studies, assistance with fund raising and access to innovative forms of finance, networking, searching for partners and alliances, mentoring, support for the growth and development of small and micro high-tech enterprises through the Techno Growth accelerator (company check-ups, strength, weakness, opportunity and threat (SWOT) analyses, planning interventions and business plan management)
- **Hosting**
Equipped area, outsourcing of technical services; networking with other enterprises and institutions; outsourcing of technical and logistic services; internal networking services between enterprises and already settled companies; external networking services for institutions, research centres and potential partners.

The consortium operates across all business sectors with a strong focus on areas that match the Region's needs and opportunities: biotechnology, metallurgy and technology of surfaces and advanced materials, extended ICT (Information and Communication Technology), environment and energy, wood. In these sectors Friuli Innovazione has launched some excellent initiatives like the Laboratory of Metallurgy, Surface Technologies and Advanced Materials. It has also contributed to the launch of the Applied Genomics Institute (IGA), an international centre of research in genetics and genomics of living organisms, the Industrial District of Digital Technologies and the Center of Excellence for Simulation, that aims at creating in Friuli Venezia Giulia an hub in the highly specialized field of virtual prototyping technologies and testing, with possible applications in all industrial fields.

The Park hosts several enterprises operating in Healthcare field:

Transactiva Inc. (chemical-pharmaceutical research and production of reagents which can be used in the therapy of tumors and orphan diseases)

Turval Laboratories (probiotics, nutraceutical and clinic field for human use)
IGA Technology Services (DNA sequencing for diagnostics, with applications in clinical and oncology)
Tecnologie Avanzate (research in medical physics, radiation therapy and Imaging for medicine)

www.friulinnovazione.it

Technology Pole of Pordenone

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Technology Pole of Pordenone (Polo Tecnologico di Pordenone) is a Technology Park located in the province of Pordenone, one of 15 most industrialized provinces of Italy. Since its very beginning in 2002, the Technology Pole has been dealing with technology transfer, promoting the dialogue between enterprises, institutions and the regional research system to support company competitiveness and to stimulate the growth of enterprises with high potential development. Through its network of expertise, the Pole encompasses a broad range of disciplines and is able to provide different services, from those aimed at favoring the adoption of technology to intellectual property support services.

Technology Pole is an incubator of potential entrepreneurs and therefore of business ideas and provides tools, skills and resources to assess the technological feasibility, commercial and economic, but above all is an incubator of innovative enterprises that offer services and support for project management, for development of technology studies for the improvement of products (reducing time and costs) for the identification of financing instruments and more.

The Technology Pole of Pordenone wants to promote a culture of innovation and, in coordination with other actors of the regional innovation system, supporting the competitiveness of enterprises in the province of Pordenone. Its primary objective is to contribute to the development of the area, both from an economic standpoint, also helping the birth of new firms, both in terms of environmental and social. The Pole is also constantly monitoring innovative technologies and manufacturing sectors with high potential development to pull enterprise's needs and to provide assistance in targeted knowledge and know-how aggregation. During the years the Pole has been consolidated and strengthened partnerships with the major institutions, public administrations, health research centers, technology transfer centers, chambers of commerce, universities and industrial associations. Among these, worth citing AREA SCIENCE Park, Friuli Innovazione, Agemont, Municipality of Pordenone, Province of Pordenone, CRO (Centro di Riferimento Oncologico - National Cancer Institute), CBM (Cluster in Biomedicine), Sincrotrone, CRP - Research Centre Plast-Optica, Cham-

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ber of Commerce of Pordenone, University of Trieste, University of Udine, Union of Industrialists of Pordenone.

The Pole has participated in several EU funded projects, from purely research and development projects, in which it acted as project coordinator, to strategic projects or projects aimed at transferring innovation methodologies and best practices to institutions or enterprises. Projects that took advantage of Pole's expertise in technology transfer and in promoting the growth of networks between the manufacturing sector and the knowledge poles: INTERREG Italy-Slovenia 2007-2013 project KNOW US, co-financed by the Cross-border Cooperation Programme, which dealt with Co-generation of Competitive Knowledge among Universities and SMEs; several POR FESR 2007-2013 project's as Nutriheart, Easyhome, Easymob, and several cooperation projects with Republic of Serbia, funded by Friuli Venezia Giulia Region.

Formally, the Pole hosts a great number of excellent firms and their laboratories in different sectors like ICT, TLC, greentech, electronic health and biotech.

Among these ones Pharmadiagen, Epigen and Geneticlab represent the firms that are settled with their laboratories in the Technology Pole.

Deeping the numbers of firms, as far as the health sector is concerned, Pharmadiagen is proposed as a new reality in the field of pharmacogenetics able to support advanced technologies for studying the genetic makeup of the patient. This let the medical doctor able to interpret the genetic information in order to associate the correct therapies targeted to predict the possible clinical effect of a drug in terms of response and/or toxicity.

The second one, Epigen Therapeutics, is a newly-established biopharmaceutical company, headquartered in Italy, focused on providing novel diagnostic and therapeutic tools in the field of Immuno-Oncology to improve the comprehensive clinical management of cancer patients. The core activity of Epigen Therapeutics is the development and commercialization of a proprietary, worldwide patented, platform of highly innovative anticancer agents. Epigen Therapeutics also develops pre-clinical and clinical projects with industrial and academic partners, as well as scientific consultancies. The competencies of Epigen Therapeutics rely on its strong expertise in the fields of cancer epigenetics, tumor immunology and immunotherapy that span from the bench to the bed-

side. Epigen Therapeutics is a biopharmaceutical company devoted to discover, develop and make available to cancer patients innovative therapeutics and diagnostics in Immuno-Oncology. And finally, Geneticlab is a diagnostic Center and it is a reference at European level in the field of Genetics and Molecular Biology. Geneticlab has based its strength on the experimental facilities and on the competences to create a highly specialized laboratory by means of which it provides expert assistance in the molecular genetics.

The Technology Pole points to the aggregation of companies and research centers that develop R&D programs and offer services on a technology and knowledge high level. At the Pole, the aggregation is an important instrument of technology transfer and mutual enhancement of skills. Technology transfer, development of know-how and results of research, advanced training, creation of new enterprises: these are some activities that comprise the mission of the Pole. The Technology Pole joins the companies wishing to make of innovation the engine of business and it is a point of reference to support the adoption of innovation, particularly in Small and Medium Enterprises. It is within this framework that places the collaboration with AREA Science Park, to share and integrate resources and expertise for the benefit of the business system.

As a player in the Innovation System of Friuli Venezia Giulia, the Pole, coordinating its activities with other regional actors, is engaged in the following areas: ICT, TLC, Greentech, Biotech, Health, Public Administration.

Briefly, the Technology Pole is able to assist firms in the health sector by means of:

1. Ability in knowledge/expertise network build up.
2. Specific knowledge of health sector market and organization models.
3. EU recognized best practice in TT, which enables accurate need assessment and tailored solution implementation.
4. Experience in replicating it in different contexts, even international ones.
5. Ability in promoting the adoption of innovative technologies or business and management models.
6. Health sector expertise network available.

7. Experience in organizing health sector technical training events, even at international level. The Pole offers companies an important and useful service with the help of tutors with years of valuable experience and expertise:

- Business creation: the initial strategic choices, verification of technological feasibility, economic and commercial influence the success of any initiative.
- Innovative materials: in collaboration with MaTech Point® Friuli Venezia Giulia Polo offers businesses solutions and assistance in the field of innovative materials.
- Studies Office and the PATLIB: the Technology Centre, in collaboration with AREA Science Park, provides highly skilled personnel in possession of the know-how and expertise of the patent librarian, a professional new and highly specialized.
- Corporate financing: Polo offers companies an important and useful service with the help of tutors with years of valuable experience and expertise.
- Legal Information and Guidelines: the Technology Centre, in collaboration with various professionals and experts in different fields of law, provides an information service and legal guidance to companies.
- Studies and business intelligence: Polo Tecnologico, thanks to the collaboration of AREA Science Park, provides business intelligence service, in order to properly orient the research and development investment for the growth of competitiveness or the birth of a new business.

Since its very beginning, the Pole has helped firms to grow and to create opportunities to build strong networks. This asset lets Polo to be considered an important partner to talk to. At the same time Polo has created new partnerships in different sectors like ICT, TLC, green-tech, health and biotech.

As far as Health sector is concerned, a complete list of national and international partnerships follows:

1. Spin-off creation: Pharmadiagen
Industrial Sector of application: Biotechnology, human health, biomedicine, pharmacogenetics, oncology

Polo helped to boost and to build up this start-up firm in the health field. Pharmadiagen is proposed as a new reality in the field of pharmacogenetics able to support advanced technologies for studying the genetic makeup of the patient.

2. Spin-off Support:

Polo helped to create a robust network and to support all the services a new firm needs to use to face the market in the health field.

a. Ready Chemio:

Personalized treatments for patients with cancer require huge planning and rationalization efforts. An innovative apparatus for the automatic preparation of drugs fosters high-quality standards as well as cost-savings in terms of efficiency and logistics flexibility.

b. Sedicidodici (<http://www.sedicidodici.com/>): A device capable of monitoring the process of formation of thrombus, the blood clot, occluding the vessel (thrombosis) prevents normal blood flow causing heart attacks: this is "Smart Clot". The instrument is a unique specimen in the landscape of devices built to prevent bleeding and thrombotic events. "Smart Clot" is equipped with special mechanisms that allow you to play both the bloodstream and the composition of the vessels.

www.polo.pn.it

Rino Snaidero Scientific Foundation

The Rino Snaidero Scientific Foundation (the Foundation) was founded in 2006 by a network of public administrations, companies, universities, research centers to promote interdisciplinary scientific research projects on the theme of "quality of life at home." Over the years the network of the Foundation has expanded internationally with the support of organizations that share the Foundation's research methodology, based on the promotion of creativity to find new products and services to improve the quality of life of people, with particular reference to the elderly and disabled.

RESEARCH PROJECTS

RSSF will carry out research projects on the general framework of "Quality of Life at Home": a factory of new ideas able to continuously generate positive values for the future.

The International network of RSSF includes Research Centers, Public Administrations, Universities, other Foundations and Associations, to better face the innovation themes proposed by the Scientific Committee.

The organizational model of the RSSF (named CREAL - LAB) is based on a mix between two approaches:

- a CREATIVE TEAM that is able to generate new ideas, starting from people needs analysis (specially considering elderly and disabled people)
- a REALIZE TEAM, able to validate the best ideas and to exploit them with companies and other partners

CULTURE OF INNOVATION AND TRAINING ACTIVITIES

One of the most important tasks of the RSSF is to contribute to social and scientific progress, also by organizing congresses/workshops and training activities.

These activities are carried out in co-operation with the scientific partners of the RSSF.

www.snaiderofoundation.org

Tesan-Televita

FVG Region outsources a Telehelp/Telemonitoring public service integrated with Keys safe-keeping and First Aid to a private provider, led by TesanTelevita-Trieste.

Assisted persons (total): 4.251

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Televita S.p.A. since 1987 is alongside public bodies for planning and managing services in the welfare area.

It provides Tele-care and Social inclusion services for frail and elderly people, integrated in the health and social networks, with the aim to test models of management services.

The main focus of the company is to satisfy users needs through qualified operators and technologies dedicated.

Tesan-Televita S.r.l. was founded in 1992 by Televita (FVG) and Tesan (Veneto).

It provides Tele-care and Tele-health services, dedicated to elderly, disabled and chronically ill persons. A company of TBS Group (www.tbsgroup.com), one of the leading European companies providing services for the public and private health sector in two major areas:

- medical devices and ICT systems
- e-Health & e-Government integrated solutions

Telehelp

It is an alarm service to cope with emergencies arising at home and putting at risk assisted elderly people. Active 24/7 thanks to the presence of regional Operative Centers aimed at the reception of alarms triggered by a remote control connected to the landline of the users' home. The Centers receive and manage the incoming emergency calls and activate the most appropriate resources and rescuers according to the needs.

TeSANTELEVITA
TELESOCORSO - TELECONTROLLO

Televita
Pronto, ci siamo.

They follow up each intervention and communicate the outcome to the family/social or health service of the person.

Telemonitoring

It is a service to keep the beneficiary company and ensure social/health prevention and psychophysical monitoring. Centers' operators call beneficiaries at least once a week to interact and to ask for testing

the Telehelp alarm device. The constant phone contact, also in the local dialects, allows for mutual acquaintance and favor the users' trust towards the services, fundamental in the management of emergencies. Telemonitoring is also a useful instrument for informing the beneficiaries about healthy behaviors, good habits, and targeted initiatives.

www.televita-spa.it
www.tesantelevita.it

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the projects

This publication is an output of ASVILOC + and does not officially represent the following projects. The objective is to give a description and a brief presentation of the regional projects, but for a complete information and for all the details regarding projects' activities, partners and logos please visit the indicated websites

Domotica FVG

The “Domotica FVG” project, cofinanced by FVG Region, aims at creating a co-operation network for research and development in the field of prototyping and automation solutions for the home - the real “sweet home” - where design and safety meet comfort, with an eye on costs. These solutions may be eventually mass-produced and marketed.

The “Domotica FVG” project has primarily involved local enterprises and universities, laboratories, research centres, public and private institutions, and all those wishing to develop innovative products, processes and methods in the domotics sector.

The project has worked on five different sections: wired or wireless connection within a restricted space, innovative materials (including micro and nanotechnology products), lighting systems, energy and energy-saving solutions and new business management methods.

The project is based on a business-to-business and business-to-institution network for the research and development of new automation prototypes and solutions for the home. It aims to improve the quality of life, combining solutions that are attractive, safe, functional and affordable and that, thanks to industrial production, can be marketed on a large scale.

The first stage of the initiative focused on increasing project awareness, explaining its characteristics and means of involvement by target businesses, progressing to the creation of a database of those interested in the project, either as suppliers of domotic innovations or as potential users of such technologies.

www.area.trieste.it/opencms/opencms/area/en/DomoticaFVG_en/index.html

Building Brain

The Domotica FVG project implemented an open source software platform demonstrator called “Building Brain”, which allows integration of heterogeneous domotics technologies and encourages the development of brand new applications in this field. Building Brain has potential applications, not yet accomplished by today’s home automation solutions, for example in hospitals, tele-home care, workplace security, energy saving and smart city.

www.area.trieste.it/opencms/opencms/area/en/BuildingBrain_eng

Presto a Casa

Project funded in 2009, under Regional Law 26/2005 Art. 22 “innovation in social-health services”

“Presto a Casa” is a project to help users with physical and sensory disabilities to test and try useful domotic solutions after a period of post-hospitalization and rehab. “Presto a Casa” was carried out by the Municipality of Trieste, AREA Science Park and ATER Trieste and supported by the Province of Trieste and the Rehabilitation Area of the “Ospedali Riuniti” of Trieste.

The project aims at realizing two test-bed-apartments provided with domotic technologies and solutions in order to facilitate the return to “normal life” and improve the quality of life of people with limited motor autonomy.

New computerization and automation technologies implemented in domestic environments - often referred to as domotics - can help people to achieve a new independence.

The two apartments, 80 square meters each, conceived through the project “Presto a Casa”, are designed to assist persons with reduced mobility caused by traumatic events or by degenerative diseases.

Once the hospital rehabilitation period is over, the return home can be problematic, given the changed needs and the presence of obstacles to movement in the home. It is in this phase that the “Presto a Casa” project comes in: once a patient has left the hospital, together with a family member, they can try out all of the solutions in the test-bed-apartment and decide in an informed way which of these to use in their homes.

Tailor-made automation technology solutions have been integrated into the two apartments, to enable the user to carry out daily activities more easily and in complete safety: suspended worktops, personalised domestic appliances, anti-flooding and gas sensors, suspended and adjustable sinks and toilets, automatic alarms to family members in case of need. With a simple-to-use remote control connected to a PC, it is possible to manage and control all of the domotic functions installed: from automatic operation of the entrance door and shutters, to the closing of windows,

from control of air conditioning to light regulation.

The Technology Transfer Department team of AREA Science Park has given the project technical support as far as the building reconstruction and wiring remodelling are concerned.

Benchmarking studies of existing domotic devices and solutions offered by local skilled suppliers have been carried out, in order to furnish the apartments with suitable and state-of-the-art equipment. Some of the fittings, available on the market, can easily be installed in any house, without dramatically altering room space and structure.

The two “Presto a Casa” apartments are now finished and are currently in daily use by patients who want to experience this opportunity.

The project team is submitting an assessment questionnaire to users, in order to obtain and analyze feedback and customer satisfaction.

www.retecivica.trieste.it/prestoacasa

Ikea

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In September 2011 a new “assisted apartment” for not self-sufficient persons has been completed, as a result of the co-operation between the Municipality of Trieste - Social Welfare Department, the Foundation Caccia Burlo, IKEA and Area Science Park.

The apartment is property of the Foundation Caccia Burlo, it has been renovated and managed by the “Unità Disabili” of Trieste Municipality and free-furnished by IKEA (IKEA Foundation funding). Within this latter phase, the Swedish colossus IKEA, thanks to the experience and technical skills of the AREA Science Park team which has previously worked with the Municipality of Trieste in the similar project called “Presto a casa”, has been able to expand its knowledge in re-thinking interior furnishing solutions for disabled.

This winning synergy has brought to excellent results: a small apartment (32 square meters) where a person with reduced mobility can live in. The furniture and solutions create a comfortable and safe home for disabled people with standard and economically sustainable furniture, giving them the possibility to achieve a new independence. The furniture, in fact, can enable the user to carry out daily activities easily and in complete safety.

The project team is submitting an assessment questionnaire to users, in order to obtain and analyze feedback and customer satisfaction.



LAK - Living for All Kitchen

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Project co-financed by the ERDF - Friuli Venezia Giulia Region Operational Programme 2007 - 2013, in the Call for industrial research projects in the field of domotics.

The project aims to develop an innovative kitchen-environment that integrates automation technologies and services to improve the quality of people’s life in terms of safety, comfort, energy conservation.

LAK has been conceived on the basis of needs and expectations of users with different degrees of disability (in particular cognitive disability) and according to the criteria of Universal Design/Design for All.

The final idea is to create a new concept of kitchen in which, thanks to the domotics, the user can manage and control, with a single interface, the various functions of the kitchen and the rest of the house. Moreover, the disabled user will communicate with the outside via an Operative Centre in order to have access to remote support services. Devices and systems realized during the industrial research phase will be integrated into the final domotic network. Testing activities will be conducted on single components’ functionality and performance and on remote control interfaces. It will be also realized the ultimate demonstrator that will be used subsequently for the validation action with final users. The experimental development phase ends with the preliminary technical-economical-financial validation of the project’s business model.

Partners: Snaidero Rino Spa (lead partner), Rino Snaidero Scientific Foundation, University of Udine, Friuli Innovazione Research and Technology Transfer Centre, Area Science Park, Teletronica Spa, Mediastudio Srl, Sipro Srl, Inoxfim Srl

www.progettolak.eu



EasyMob - home automation systems for the guidance of people with difficulties in confined environments

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Project co-financed by the ERDF - Friuli Venezia Giulia Region Operational Programme 2007 - 2013, in the Call for industrial research projects in the field of domotics.

The main goal of EASYMOB is to assist people with motor or perceptual disabilities in complex confined spaces, especially hospitals. At this purpose home automation solutions will be ideated and implemented in a prototype form in order to give helpful and usable information to people with physical or perceptual disabilities (i.e. partially sighted), with orientation problems and elderly. Assistance provided by domotic technologies will allow these people to interact safely with the environment and to enjoy the services offered. EASYMOB will develop an home automation system based on infrared (IR) transmitters and receivers, able to guide people in such spaces, giving indications about internal logistic, about the presence of any obstacle and about the services offered by the environment. Assistance will be also provided via mobile phones that, thanks to Bluetooth technologies and/or NFC, will receive information and useful maps in understandable visual and textual languages for the user. In order to improve the addressing capabilities for partially sighted people, intelligent tactile-plantar paths will be integrated, aided by LED devices, able to guide people both through the tactile signal and through the infrared device. The home automation system will be completed with display information panels to the public.

Partners: SOLARI Udine Spa (lead partner), L.U.C.I Srl, MoBe Srl, University of Udine, CRO National Cancer Institute - Aviano (PN), Friuli Innovazione Research and Technology Transfer Centre, Polo Tecnologico di Pordenone

www.easymob.eu



REFREEDOM - functional network for research and experimentation of innovative home care service

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Project co-financed by the Region Friuli Venezia Giulia, in the Call for industrial research projects in the field of domotics.

The project wants to assess the state of the art for home care and highlight the opportunities offered by the new technologies (ICT, home automation, new materials, ergonomics, etc) to improve the quality of life at home for elderly and disabled people. Moreover, through pilot actions it aims at giving new solutions to the effective and efficient supply of home care services that can delay the need of hospitalization, reserving this solution only to the citizens who need specialized and continuous assistance.

A pool of multidisciplinary researchers (from technological, design, medical area, etc) will work on a network of apartments in Udine, where the newest domotics solutions will be implemented also involving the end users: a Universal Design/Design-for-all methodology will be used to generate new ideas for innovative product/services and business models. The added value of the pilot action is that the apartments will be able to communicate with their inhabitants and also with the network of homecare services providers (hospitals, healthcare institutions, public and private services providers, etc), thus to offer the best chances for a real autonomous living at home, to elderly and disabled. During the project, the end users will also become aware of the most innovative solutions available on the market for the home care at international level through special databases and guidelines.

Partners: Municipality of Udine (lead partner), Rino Snaidero Scientific Foundation, Friuli Innovazione Research and Technology Transfer Centre

www.refreedom.eu



TRI-ICT – cooperation between innovative SMEs, Lead Users and support organizations in the field of ICT

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Project co-financed by the Interreg IV Cross border Italy-Austria Programme.

The Information and Communication Technology (ICT) domain is of paramount importance, especially for the SME in the two regions Carinthia und Friuli Venezia Giulia.

In quantitative terms, the ICT sector encompasses 380 SME and 6.275 employees in Carinthia and 2.420 SME and 7.749 employees in Friuli Venezia Giulia.

To narrow the scope of analysis within the ICT sector, following lead market clusters (a lead market is the market of a product or service in a given geographical area, where the diffusion process of an internationally successful innovation, technological or no technological, first took off and is sustained and expanded through a wide range of different services) have been investigated:

- a) E-Health and Domotics,
- b) Tourism, Culture and Creative Industries,
- c) Transport and Logistics, d) Renewable Energy and Sustainability.

In the field of e-Health, the research put into light that opportunities of cross-border cooperation exist in the areas of mobile medical services and digitalization of medical records.

The sector of E-Health and Domotics shows also future potential in the field of data management consulting.

www.tri-ict.eu



DREAMING - eIDeRly-friEndly Alarm handling and MonitorING

Project funded under CIP - ICT PSP; Coordinator: TesanTelevita srl; Project partner: Local Health Authority n. 1 "Triestina"

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DREAMING brings together a set of services which, packaged together, allow extending the independent life of elderly people while providing them with an equivalent level of safety as that they would enjoy in a protected environment such as an elderly home, and offering them a way of staying in touch with their loved ones even when the latter are away.

In addition, the DREAMING services facilitate the management of chronic conditions in a home setting reducing the need to use the expenses resources of acute hospitals to a bare minimum.

The services that DREAMING comprises fall into three different categories:

- Monitoring and Alarm Handling services. These are provided through a combination of medical devices and environmental sensors and a powerful Decision Support System which is able to detect risk situations based on the specific profile of the individual user or of the category to which the user belongs and on any combination of sensors measurements including trends over a certain period of time.
- Elderly-friendly videoconferencing services. A videoconferencing system which has been specifically designed for elderly people and provide the most familiar user interface one can imagine: a TV set and an infrared remote control that almost any elderly person uses in his/her daily life.
- Non-ICT based services. These are of course not part of the Pilot, stricto sensu, but they are essential to allow elderly people to live independently in their homes. These will be provided by the Project partners as part and parcel of their mission but will not be charged to the Project budget.

The project lasted 36 months had its final conference in Trieste on 14th June, 2012. It has foreseen



trials in six European countries (Denmark, Estonia, Germany, Italy, Spain and Sweden) supported by an integrated system providing vital and environmental parameters monitoring and videoconferencing services. This system is based on an existing technological platform which has been specifically designed taking into consideration the special requirements of elderly users who, during their active lives, have never been exposed to ICT (Information and Communication Technologies).

The platform comprises:

- a Fixed Unit which is installed in the elderly person's house or flat and which is connected through wireless protocols to a series of medical devices and environmental sensors. These can monitor all the vital parameters of the individual and the environment in which he/she lives. The selection of the medical devices and of the sensors depends on the pathologies the elderly person suffers from and on the main risks to which he/she is exposed when at home;
- a Mobile Unit which follows the elderly person wherever he/she goes indoor or outdoor and which allows him/her to ask for help through a panic button in addition to detecting falls. The Mobile Unit contains a cellular phone able to send alarms to and to establish voice communication with a Contact Centre. Moreover it incorporates a GPS which enables locating the elderly person if he/she is in need of help or has lost his/her way;
- an extremely easy-to-use videoconferencing system which uses a normal TV set and a purposely configured remote control. This system enables the elderly person to get visually in touch with operators at the Contact Centre and with a group of people (the "elder's community") that the elderly person has authorised in advance through the Contact Centre to interact with him/her.
- The technological platform briefly described above is able to ensure to the elderly person a high level of safety indoor and outdoor while keeping the house under monitoring all the time, even when the elderly person is away, thanks to the split between Fixed and Mobile Unit.

The trials have been organised using the well know model of the clinical trials normally used for new drugs. Inclusion and exclusion criteria have been defined for elderly people to participate in the trials. Individuals complying with the inclusion criteria and having expressed in writing their consent to parti-

cipate in the trials, after they have been adequately informed about the characteristics and the implications of participating, are randomly allocated to a Study or to a Control Group.

The only difference between the health and social services received by the two Groups is the ICT equipment and the associated services. For any other aspects the two Groups will continue to receive the same standard care which has been documented by the health and social care providers before the start of the trials.

With the aim of giving scientific validity to the results achieved, the purpose of the project will be conducted with the same methodology as clinical trials, is measuring the impact of monitoring of elderly people and their socialisation through videoconferencing on a number of very important aspects such as:

- Quality of life of the elderly people themselves and of their formal and informal caregivers.
- Elders' health conditions.
- The costs elders generate to the welfare and health system.

To assess this impact, a series of indicators were selected that will be further discussed and refined in the early stages of the project and measured during the trials for the Study Group (30 elderly per pilot site) and for the Control Group (also 30 elderly per pilot site).

The Consortium which has implemented the Project comprises 13 among private and public organisations from 7 different countries of the European Union. These partners will collect a feedback from all the categories of users participating in the trials (end users, i.e. the elders, Contact Centre operators, social workers, caregivers, nurses, emergency service, etc.) required to further refine the service.

www.dreaming-project.org

HELP Key-TV

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Project funded in 2009, under Regional Law 26/2005 Art. 22 “innovation in social-health services”

The general objective is to assess the centrality of “fragile” people with the participation of stakeholders in the field of health and social advancement of the “Urban Area 6.5”. A model that allows dialogue between active instruments for the general interest will be assessed the possible connection with the program “Social Folder” in collaboration with ITC platforms (DVBT and web) will be tested.

The Project hypothesis predicts that, in pursuit of well-being of persons, current services have been heavily concentrated on aspects of task-oriented intervention on bio-psycho physical side, underestimating the environmental aspects related to communication between the person and his context. Shifting the emphasis on social forces promoting communication to find solutions that would provide greater accessibility of services and make it viable paths to simplify the relationship between government and citizen.

Active listening to people who have difficulties leaving home or because they committed to care for severely disabled relatives or because they themselves suffer from disabilities and sun, has pushed to give proper weight to initiatives that could be faster and more effective relations between people and between people and services, making it easy and immediate contact, the report, the acquisition of the contents searched. The medium chosen for this experiment is the medium of television, thanks to its widespread presence in the homes of citizens and its daily use.

An increasing number of young people/adults who have had accidents or situations of post-acute need of targeted support communicative orientation on available services that allow them to continue to better their way of life, maintaining and strengthening the autonomy staff, outside of a purely welfare path. Likewise, family members, carers and stakeholders need to be oriented in access to services and benefits that affect them and facilitated in carrying out administrative and accounting practices that erode the resources to direct assistance. Therefore the project aims to offer to people who can not easily move from home to access communication networks and information useful for the implementation of appropriate care pathways leading to the residence of the person offering the latest information system, it has become clear need.

www.pn.eldy.tv



Easyhome

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The overall objective of the project is to prove the feasibility of a new kind of home automation system, tailored to the real needs and abilities of the users and able to support even those users that, because of old age or slight impairment, are usually not comfortable with complex technological systems. The project attributes a pivotal role to the person in the interaction with in home technology and aims at promoting, in a way as transparent as possible, user’s well being and comfort. Easyhome is a project funded by the Friuli Venezia Giulia and the European Union through POR 2007-2013, Activity 1.1 b): “Support for industrial research projects with high systemic impact on the strengthening of research networks and innovation districts technological innovation”. The project aims to demonstrate a new paradigm for home automation system able to respond effectively to real needs of users and, at the same time, contribute as much as possible transparent to the user’s well-being and relaxation. Specifically, Easyhome aims to integrate a range of specialist contributions in electronics, ergonomics and cognitive ergonomics and technologies to develop ICT services for an active elderly population. This class of users, not subject to specific diseases, is able to receive the maximum benefit from the implementation of services when the use of home automation technology becomes easy and relaxed. Fundamental to achieving the objectives of simplicity in the use and familiarity with the user will be the use of light, not only as a source of illumination, but also as a mean of interaction with the system or as a vehicle for the implementation of advanced, such as functions of attention attraction/attention keeping, retuning functions of sleep/wake or the sanitizing action bactericidal-in household appliances.

www.progettoeasyhome.it



Nutriheart

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The overall objective of the project Nutriheart is the development of new products and services such as functional foods, personalized diets, supplements, nutraceuticals and kits for early diagnosis to enable the recognition of genetic variants and risk of new biomarkers. The project is implemented thanks to the synergy between the excellence of public research in the Friuli Venezia Giulia region and the considerable potential from industrial research and experimental development carried out by local companies for the construction of various new types of products and services. Nutriheart is achieved thanks to the synergy between the excellence of public research in the Friuli Venezia Giulia region and the considerable potential from industrial research and experimental development carried out by local companies for the construction of various new types of products and services. This liaison is highly interdisciplinary and targeted identification of genetic factors and molecular mechanisms that predispose to the onset of cardiovascular disease and to study the properties of food principles predisposing or protective for these conditions either directly or through other conditions such as diabetes, hypertension, obesity. Moreover, the timely dissemination on a regional and national scientific aims the improvement of nutrition education and building a good foundation for the design of new therapeutic strategies. Using data from studies of population who lives in the region is no guarantee that the first users of the product will be just the citizens of Friuli Venezia Giulia.

www.progettonutriheart.it



ENERBIO

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ENERBIO (Renewable Energy and Biotechnology between FVG and Vojvodina) is the acronym design, with instant recall to renewable energy and biotechnology. The overall objective is the activation of a stable system of relations between the institutional system and research and the economic-entrepreneurial FVG and Vojvodina, focusing on the areas of renewable energy and biomedicine.

The project aims to promote the internationalization of the regional system, in the specific areas of biotechnology for health, the food industry and energy production from renewable sources through the development of an environment conducive to trade and cooperation economic and institutional.

The project, financed by Friuli Venezia Giulia Region will develop great opportunities, namely:

1. strengthening the scientific and institutional relations between Serbia and FVG development of planning common in the scientific and institutional one;
2. support of the economic and financial of R&D programs in starting new projects.

The project includes the activation of a stable system of relations between the institutional system and research centres and between the economic and business of Friuli Venezia Giulia and Vojvodina, with specific reference to the fields of renewable energies, the energy production from biomass and from waste of the woodworks and, on the biomedical front, the link between health and nutrition lag (in particular the so-called functional foods).

In particular the project aims to analyze the context of Serbia reference and identification, in addition to the characteristics, problems and development trends, major institutional and economic actors of the target areas, and their propensity and dynamics of internationalization and development of combined initiatives.

www.enerbio.it



MITO (Mirata Terapia Oncologica)

The customization of drug therapy, e.g. administration of the drug-weighted characteristics of the patient, is one of the future challenges in the medical field. Many drugs are currently administered in an empirical and their effect in terms of toxicity and response is not predictable.

The overall objective of the project is to obtain technologies that analyze in a simple and reproducible specificity of the genes of a person or of his tumor, involved in individual response to chemotherapy drugs. With these genetic profiles available it is possible to design treatments tailored, customized, sewn together in a suit on the characteristics of the individual.

Therefore, the project aims to design, validate and produce innovative technology platforms aimed at the production of diagnostic kits that allow pharmacogenetics analysis of the genetic variants responsible of the effect of drug treatment. Another added value lies in the ease of use of the kits and their versatility of use, factors that provide an easy diagnostic applicability. The idea stems from a technological and industrial needs in oncology, but it is potentially suitable also in other contexts of drug therapy (HIV infection, blood clotting, cardiovascular and neurodegenerative diseases).

Namely, the project is aimed at obtaining technologies that use the approach “pharmacogenetics” to develop drug therapies personalized to the individual or genetic characteristics of the tumor.

1. Produce and validate innovative technology platforms for the development of diagnostic kits and marketing of pharmacogenetics.
2. Acting training level through massive and peculiar training of medical oncologists on the importance of genetic data in the choice of therapy.

Facilitate the integration of the industrial process and diagnostic with the ordinary hospital practice through the transfer of genetic data relevant to each patient on a computerized support (CARD) of easy access by the medical oncologist who can thus choose the best therapy based on the their genetic profile of each individual patient



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