5th ENEPLAN Workshop:  
Innovation, applied research in renewable energy and relationships with SMEs

ENTREPRENEURSHIP AND TECHNOLOGY TRANSFER

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Entrepreneurship and Innovation takes a crucial role in economic growth

Good practices are often explained by networking of actors who share skills, tools and knowledge.
TRADITIONAL ROLE
• Creation of knowledge
• Training of human capital

NEW ROLES
• Technology Transfer
• Innovation
• Entrepreneurship and leadership
• Science Parks
• Regional Development
• International networking

Universities play an important role in the Processes of Innovation - Products, Services and Processes.
INNOVATION AND COMPETITIVENESS

- Economic system characterized by SMEs (low investment capacity and low absorption of innovation);
- University: access to highly qualified HR, international networks, equipment and methodologies;
- SMEs: Integrate innovation processes to increase international competitiveness.

CAPITALIZE THE POTENTIAL

- Peripheral university, but scientifically global;
  - Research as measured by international standards;
  - Leads and participates in international networks;
- Competitive companies, with potential of innovation.
VALUING KNOWLEDGE

1. Encourage Knowledge Transfer
   - *Creation of EBT*
   - *Technology transfer*
2. Create Cooperation Networks
3. Generalization of the use of the protection of Industrial Property Rights;
ENTREPRENEURSHIP AND TRANSFER TECHNOLOGY

TRL – Technology Readiness Level
RESULTS...

Since 2005

• +100 new knowledge base companies created (+ 75% survival rate);
• About 45M € of regional investment (~ 13M € in R&D);
• Business Volume (2013)
  • Sales of about € 9M
  • VN Export of about € 6M
• 1 University incubator (20 office spaces | 7 Pre-lab spaces);
• 74 patent applications (30 granted - 1 international);
• More than 130 U-E joint ventures;
• 24 projects approved for international cooperation (2005-2013)
Dedicated to innovation in the development of new products, technologies and processes for fish feed.

It combines strong scientific expertise in fish nutrition, a flexible technology platform for food production on a pilot scale.

SPAROS is located in the South of Portugal (Algarve) but intends to serve the entire European market.
Spin-off in Medical, present throughout the national territory, was created to respond to the needs of the various operators with radio diagnostic facilities.

SERVICES:
- Radiological protection projects and technical consultancy
- Installation and equipment licensing
- Equipment quality control
- Assessment of radiological safety conditions
Group of former researchers and engineers of the University of Algarve, with activities on Underwater Acoustics.

OPERATIONS:
- consulting services in submarine acoustics
- development of instrumentation for submarine acoustics
- participation in R & D projects - marketing of acoustic equipment
- Tailor-made solutions for the provision of services and development instrumentation, which can integrate acoustic and non-acoustic sensors, as well as data storage and telemetry functions
Outcome of the Business Ideas Competition of the University of Algarve.

The R&D center is located in the Algarve region, in the pre-incubator of the University of Algarve.

Products and R&D
- Caviar
- Meat
- R&D
MIRABILIS - Aquacultura Sustentável, Lda.,
Is a spin-off company of the University of Algarve, whose main activity is the production of Portuguese Oyster seed.

This motherland of oysters, of the species Crassostrea angulata, bets on the research and optimization of production techniques, combining academic knowledge with sustainable farming practices, valuing Ostra Portuguesa, and ensuring its preservation.
Production of Seahorses in aquarium for aquarium.

Optimization of the captive breeding process

Competitive Winner of the Contest 2013

Spinoff of CCMAR
**S-GREEN** - *Integrated intelligent management system for real-time irrigation*

- permanent reading of the surrounding golf course
- producing a response in light of that interpretation, acting more like rational human action and less mechanized.
CISCE - Intelligent Control of Air Conditioning Systems in Buildings

- Extensive experimentation in the pilot installation of UALG;
- Conclusion that a few scientific problems need yet to be solved;
- For a successful commercial solution, installation and additional hardware costs should be reduced.

first commercial solution of predictive HVAC control, applicable both to new and existing buildings
MTI – Manage the intelligence

Technological product supported in several equipment's (intelligent objects)

Acting within an optimized control system based in the concept of the Internet of Things (IoT)

Better use of the energy produced by renewable sources and an improved energy management of residential and SME’s.

Low cost equipments / plug-and-play setup
easy access, easy configuration, easy modification
PRO HOLO

REALISTIC HOLOGRAPHIC PUBLIC RELATIONS

Cooperation:
BEQ

ENERGY BAR OF QUERENÇA

Cooperation:
THANK YOU

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