R+D+I (and Tradition) for socio-economic regional development. The case of olive agro-industrial sector in Andalusia (Spain)

Prof. Manuel Parras
Rector of the University of Jaén (Spain)
Professor of Marketing and Market Research
Ph.D. Business Administration
e-mail: mparras@ujaen.es

Outlines

• Socio-economic relevance of the olive groves and olive oil sector in Andalusia
• Needs of R+D+I of the olive groves and olive oil sector
• Responding to needs: structure of public R+D+i in Andalusia
Olive: Strategic Sector for Andalusia

- Source of revenue and employment
- Element of social and territorial cohesion, conforming the oil industry a strong associative movement.
- System with high environmental value: sink of greenhouse gases, mitigates the erosion, preserves traditional landscapes, supports the biological diversity and has a great potential for renewable energies generation.
- Basis of andalusian territory and culture: landscape, historical, archaeological, documentary, scientific, industrial and technical heritage

Some data about the economic relevance …

- 24% of the agriculture production value
- Principal activity in more than 300 municipalities in Andalusia... and 250,000 families
- More than 22 million wages per year
- 1.5 million hectares (30% european total, 60% national total)
- Production: 40% of the olive oil of the world, 20% olives of the world
- Agri-food export in Andalusia: 21% (olive oil), 7% (olives)
Cluster of sectorial and regional development

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Cluster of sectorial and regional development

Knowledge and Innovation Generation System and Transfer

Producing Sector

Value chain

Processing Sector

Consumers

Commercial Sector

R+D+I needs in olive groves and oil sector (I)

Innovation in olive trees, sustainability and utilization of residues of the olive industry

• Improvement of olive trees
• Irrigation improvement of the olive grove increasing water use efficiency
• Olive fruits collect mechanization
• Prevention of olive grove erosion
• Soil maintenance
• Ecological methods in olive grove and integrated production systems.
• Culture, Environment and Biodiversity.
• Use of residues and by-product of olive oil industry.
R+D+I needs in olive groves and oil sector (II)

Olive oil industrial production technologies: Quality, Food Safety, Nutrition, Health, Biotechnology and New Products

- Quality improvement through production technology improvement
- Preservation of the characteristics and interest components of the olive oil
- Quality control, olive oil characterization and food safety
- New products increasing high-added value compound and applications
- Sensorial analysis
- Olive oil and health
- Automation. Information technologies applied in oil-mills

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R+D+I needs in olive groves and oil sector (III)

Agridfood Economy and Politics, Commercialization, Organization. Heritage and Territory in the olive groves and oil sector

- Oil food economy. Agri-food politics (international, national and regional)
- Consumer behaviour of olive oil. Demand of by-products and new products
- Marketing, Commercialization and management of oil production chain
- Olive oil, environment and rural development: multifunctionality and externals
- Landscapes and cultural and natural heritage of the olive groves and oil
Knowledge generation public system. Innovation and Transfer

Knowledge Andalusian System Agents (I)

Knowledge Generation Agents (I)

- Universities of Andalusia (10 public universities)
- Superior Council of Scientific Research (CSIC): Fat Institute (IGS), sustainable Agriculture Institute, Advanced Social Studies Institute, Zaidin Experimental Station, Arab Studies School

Networks and Structures for the Knowledge Transfer, Adaptation and Application for Innovation Production

- GEOLIT (Scientific Technologic Park)
- Technological centers:
  - CITOLIVA (Technological Center for Olive Groves and Oil)
  - CTAER (Technological Advanced Center for Renewal Energies)
  - CEAS Foundation (Excelence Center in Olive Oil and Health Research)
  - Olive Groves and Oil Promoting and Development Foundation
The best response to the knowledge and innovation needs: The Agri-food International Excellence Campus (CEIA3)

Vision:
To modernize and to internationalize the universities of the Campus - Almería, Cádiz, Córdoba, Huelva and Jaén-. They are the engine of the change towards a productive sustainable, knowledge-based model and that it stimulates to the generating of new impulse for knowledge generation in the area.

Objectives:
Excelence in teaching and formation, research, innovation and knowledge transfer, internationalization and management.
Interactions with the environment (Scientific-Technological Parks, Research Centers, Rural Development Groups, Provincial and Local Governments, Agri-foods Societies, etc.).
These clusters will be the basis for the R+D+i improvement

Gracias, Thank you, Dziekuje, Hvala, Merci,
Danke, Grazie, Efgaristo, Obrigado,
Achiu, Tesekkür Ederim,
Dank u, Tak, Takk, Tänan,
谢谢, 고맙습니다!

E-mail: mparras@ujaen.es