



**FOOD-CP-2004-505524**

**TDC-Olive**

**Setting up a network of Technology Dissemination Centres to  
optimise SMEs in the olive and olive oil sector**

**SPECIFIC SUPPORT ACTION**

**PRIORITY 5: FOOD QUALITY AND SAFETY**

**Final Activity Report – Deliverable 36**

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## Executive summary

- This document is the final report of the TDC Olive project, a Specific Support Action (SSA) funded by the FP6 of the European Commission. Through it we present the work performed and main results achieved as well as some recommendations for future possible actions
- The specific objectives of the TDC Olive project are:
  - i) To set up a physical and virtual European network of Technology Dissemination Centres (TDCs) as means of support to SMEs of the olive sector, as well as a bridge between them and R&D institutions
  - ii) To improve through a training program technical competence, technology innovation processes and competitiveness of SMEs of the olive sector
  - iii) To promote the olive oil and table olive consumption in non-Mediterranean European countries through a change of mentality in Central and North-European consumers
- The project started in February 2004. During its six first months (from February to July 2004) the inception phase of the project (Work Package 1) was carried out, to then, from July 04 to January 2006, develop the implementation phase (WP2 to WP9)
- As it was scheduled in the TA, by January 2006 the Consortium has completed the implementation of the whole work programme, developing all the tasks and activities necessities to obtain the expected results of the project
- Based on the TA, the TDC Olive project has been implemented through a life cycle approach consisting of two consecutive and related phases: the inception phase (WP1) in which the preparatory and methodological tasks were developed, and the implementation phase, in which activities were executed
- The activities included in the TA and refined at WP1 to be executed during the implementation phase can be classified into 4 different blocks. These four different blocks are intended to achieve or to contribute to the achievement of one or more project objectives. These blocks are:
  - i) Activities aimed to develop and maintain a physical and virtual network of TDCs (WP2)
  - ii) Activities aimed to promote TDCs among European SMEs as well as to promote olive products in Non Mediterranean European countries (WPs 3 & 4)

iii) Activities aimed to improve the technical competence, technology innovation processes and competitiveness of SMEs from the olive sector (training activities) (WP5 to WP8)

iv) Project management activities (WP9)

- After the implementation of the complete work programme and the presentation of all the deliverables included in the TA, the TDC Olive has been successfully executed, and the expected results and objectives of the project have been achieved
- The most important results of the TDC Olive project are the following:
- **Creation of a network of four physical and virtual TDCs** (Germany [www.tdcolive.de](http://www.tdcolive.de); Greece [www.tdcolive.gr](http://www.tdcolive.gr); Italy [www.tdcolive.it](http://www.tdcolive.it); and Spain, [www.tdcolive.org](http://www.tdcolive.org)) to overall support the TDC Olive project. The visibility of the project has been also ensured with the project website, [www.tdcolive.net](http://www.tdcolive.net)

During 2005, TDC websites have received more than 30.000 visits. Likewise, at the end of the project, in January 2006 more than 4.000 registers (information sources, technical documents, etc.) are available in the databases, including most relevant information and sources regarding the European olive and olive oil industries.

It is also ensured the future sustainability of 2 of the 4 TDC (Spain and Greece; 2 of the largest producer countries) that will continue to work after the end of the project.

- **Publication of the “olive encyclopaedia” for SMEs including the following twelve booklets:**
  1. Booklet on By-products Reusing
  2. Booklet on Consumption Studies
  3. Booklet on Instrumental Analysis Techniques
  4. Booklet on Promotion of olive products consumption
  5. Booklet on Microbiological alterations
  6. Booklet on Olive culture
  7. Booklet on Processing Technology
  8. Booklet on Olive sector related European legislation and HACCP
  9. Booklet on Overview of the situation of ICTs in the European olive sector
  10. Booklet on Sensory Analysis Technique
  11. Booklet on Waste treatment
  12. Booklet on Opportunities for olive oil in non producing countries
- **Publication of the “olive encyclopaedia” addressed to consumers including the following three booklets:**
  1. Cardiovascular diets
  2. Nutritional characteristics
  3. Edible fats in European cooking habits

This olive encyclopaedia is being edited by IMIDRA in Spanish, and will be finally published in May 2006. At this moment, CINDOC-CSIC is trying to arrange the edition in English.

➤ **Development of five training courses for SMEs in the following areas:**

1. Module 1: Information and Communication Technologies (ICT)
2. Module 2: Food Quality
3. Module 3: Environmental issues and EU related legislation
4. Module 4: Regulations related to olive products industry
5. Module 5: Promotion of consumption

The training programme of the TDC Olive has consisted of 5 different modules (ICT, Food Quality, Environmental issues and EU related legislation, Regulations related to olive products industry, Promotion and consumption) delivered through a four steps approach (Development of modules - Implementation of pilot sessions - Delivery of training and workshops - Implementation of on-line courses).

At the end of the project, more than 500 participants have attended the TDC Olive training programme in 3 different European countries: Greece, Italy and Spain, and other 380 students all over the world, but specially from the above mentioned countries, have attended the on line courses

➤ **Development of a wide survey about olive consumption and olive consumers in different European countries**, preparation of the report on "Familiarity & Consumption / Non-Consumption of olive products and Consumer knowledge of the beneficial effect on health", and **dissemination activities** about olive oil: designing of flyers, participation in events and seminars and organisation of "Latest trends in olive oil" conferences)

20% of EU population is not familiar with the use and consumption of olives and olive oil, and in the case of some concrete countries this percentage is much more important (e.g.: in the United Kingdom 66% of respondents were not familiar with olive products consumption)

➤ **Publication of 24 articles in technical and scientific journals**, as part of the dissemination activities aimed to widespread the olive culture throughout the world.

- We believe the impact of the project is very positive: many new tools and sources have been created and are now available for SMEs as well as for Consumers. Also, a good promotional work has been carried out to promote olive oil and olives consumption and recognition across Europe
- The sustainability and future practical applications of the main results of the project - TDCs, Olive Encyclopaedia and Training Material - is ensured and will be available at different sources for general public
- Moreover, some results (e.g: on-line platform; olive encyclopaedia) are pioneers within the sector. Their high appreciation among SMEs (more than 500 participants at the Training Programme and more than 30.000 visits to the TDC websites) encourage new future possible actions
- In addition to this, the importance of the sector in southern European countries together with some other facts revealed with the TDC Olive project (European SMEs of the olive oil industry are not adapted to ITC, etc.) could encourage also to continue to support the olive European industry

- With regard to the management aspects, no relevant operative problems have affected the development of the project. The communication and coordination among partners has been easy and fluent
- More details about the work performed through the execution of the project are available at the periodic activity and management reports as well as more detailed information about each TDC activity is available in the different deliverables

## Section 1 – PROJECT EXECUTION

### 1.1 General objective of the TDC Olive project

The general objective of the TDC Olive is to contribute to support enterprises of the olive oil and olive sector, as well as to establish a bridge between them and R&D institutions.

### 1.2 Specific objectives of the TDC Olive project

The specific objectives of the project are:

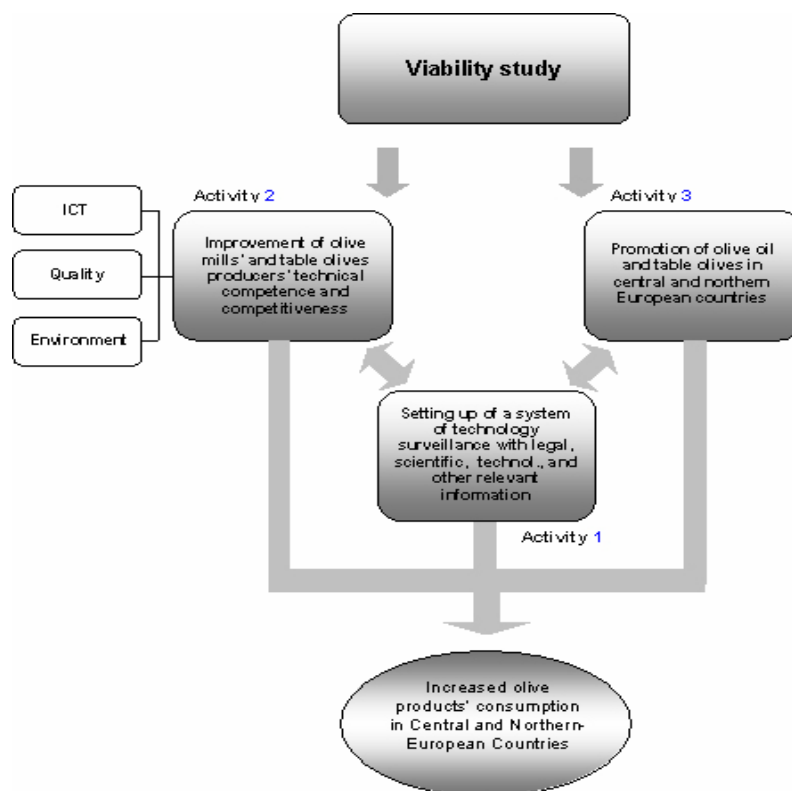
- i) To set up a physical and virtual European network of Technology Dissemination Centres (TDCs) as means of support to SMEs of the olive sector
- ii) To improve through a training program technical competence, technology innovation processes and competitiveness of SMEs of the sector
- iii) To promote the olive oil and table olive consumption in non-Mediterranean European countries through a change of mentality in Central and North-European consumers

### 1.3 Summary of the work performed

The project was conceived with the idea to contribute to transform SMEs of the olive sector into modern businesses, capable of using new technologies in order to get access to the Technological Innovation System, and with highly qualified staff.

Starting from the TA and the initial field work aimed to identify SMEs needs both in terms of training and information, the TDC Olive project was designed to implement a plan to support and develop the entrepreneurial and technical capacities of these beneficiaries.

The chart of the following page illustrates the logical approach of the implementation of the TDC Olive project.



The TDC Olive project has been implemented through a life cycle and two consecutive phases (inception and implementation) over the last two years.

The work plan proposed in the TA was structured in various work packages (WP) which aim was to fulfil the three main project objectives (above).

In addition, the work plan also included a work package for management activities, necessary to coordinate the work of the partners and administrative issues.

Thus, the work programme comprised the following blocks and work packages:

#### 1<sup>st</sup> Block of activities: Development of a physical and virtual network of TDC

- WP1: Viability study to fulfil the objectives stated in TDC-Olive proposal
- WP2: Setting up of TDC system architecture

#### 2<sup>nd</sup> Block of activities: Dissemination work:

It includes the dissemination of TDC to SMEs and other sectors of the society, and the promotion of olive products in non Mediterranean countries

- WP3: Dissemination, activities and information campaign of the TDC-OLIVE project: SMEs
- WP4: Dissemination activities and information campaign of the TDC-OLIVE project: other sectors

#### 3<sup>rd</sup> Block of activities: Training of SMEs

- WP5: Development of training modules
- WP6: Implementation of pilot training
- WP7: Implementation of training and workshops
- WP8: Implementation of on-line training modules

#### 4<sup>th</sup> Block of activities: Project management

- WP9: Project Management

In the table below we present the main feature of each WP:



Work Package	Work Package title	Person-months	ESTIMATED		Deliverables
			Start month	End month	
WP1	Viability study to fulfil the objectives stated in TDC-OLIVE	31.50	0	6	D1, D2, D3, D4, D5, D6, D7, D8, D9
WP2	Setting up of TDC system architecture	16.90	7	24	D10, D11, D12
WP3	Dissemination activities and information campaign of TDC-OLIVE project: SMEs	26.95	9	24	D13, D14, D15, D16
WP4	Dissemination activities and information campaign of TDC-OLIVE project: other sectors	17.85	9	24	D17, D18, D19, D20
WP5	Development of training modules	5.60	9	20	D21, D22, D23, D24, D25
WP6	Implementation of pilot training	3.15	11	21	D26, D27
WP7	Implementation of training and workshops	8.35	11	21	D28, D29
WP8	Implementation of training modules on-line	4.20	11	21	D30, D31
WP9	Project Management	4.00	0	24	D32, D33, D34, D35, D36
	<b>TOTAL</b>	<b>118.50</b>			

Two years after the start of the TDC Olive the complete work programme – that was refined at WP1- has been successfully implemented and the objectives have been achieved.

Below we present the main results of the project, directly related to the objectives. According to the TDC Olive partners, the project has been a success not only as a mean to reach the expected objectives, but also to improve the general context of the SMEs of the olive sector.

#### 1.4 Main results of the project

The main results of the TDC Olive project are listed below:

- 1. Creation of a network of four physical and virtual Technological Dissemination Centres (TDC; in Germany, Greece, Italy and Spain) to overall support the TDC Olive project**

With more than 30.000 total visits during 2005, the TDC network has revealed as an innovative and successful tool for SMEs.

In January 2006, more than 4.000 registers are available at the TDC network, including most relevant information and sources regarding the European olive and olive oil industries.

After the end of the project the sustainability of two TDCs is ensured since both the Greek and the Spanish will continue to work, sponsored by different Institutions (the Ministry of Agriculture of Greece and Instituto Madrileño de Investigación y Desarrollo Rural, Agrario y Alimentario, IMIDRA, one of the partners of the project).

In annexe 2 we include the homepages and Internet addresses of the four TDCs.

2. **Publication of the “Olive Encyclopaedia” for SMEs** including the following twelve booklets:

- Booklet on By-products Reusing
- Booklet on Consumption Studies
- Booklet on Instrumental Analysis Techniques
- Booklet on Promotion of nutrition in table olives and olive oil in SMEs
- Booklet on Microbiological Alterations
- Booklet on Olive Culture
- Booklet on Processing Technology
- Booklet on Olive sector related European legislation and HACCP
- Booklet on Overview of the situation of ICTs in the European olive sector
- Booklet on Sensory Analysis Techniques
- Booklet on Waste Treatment
- Booklet on Opportunities for olive oil in non producing countries

3. **Publication of the “Olive Encyclopaedia” for consumers** including the following three booklets:

- Cardiovascular diets
- Nutritional characteristics
- Edible fats in European cooking habits

All these publications are available in pdf format at the TDCs, and have been published in four languages: English, Greek, Italian and Spanish.

4. **Report on “Familiarity & Consumption / Non-Consumption of olive products and Consumer knowledge of the beneficial effect on health” and dissemination activities**

One of the key targets of TDC Olive was to promote the consumption of olive products in non-Mediterranean countries. To achieve this target, among other promotion and dissemination activities, surveys have been carried out at by European SMEs and business associations, consumer associations, citizens and scientific community.

The surveys were aimed to gather and analyse data about the olive oil market in some European countries and were conducted in the form of specially prepared questionnaires containing a number of questions to determine each participants Familiarity, consumption/non consumption of olive products, and consumer knowledge of their beneficial effect on health.

The results of this study show that the majority of participants representing Spain, Italy and Greece, were familiar with the use and consumption of Olive and Olive oil products, whereas, at least 10% of participants from Germany and over 50% of participants from the UK, indicated that they were not familiar with the use and consumption of Olives and Olive oil products.

5. **Publication of 24 articles in technical and scientific journals**, as part of the dissemination activities aimed to widespread the olive culture throughout the world.

The articles were edited in international technical journals and were written in English, with a variety of topics, from technical aspects of olive oil to the analysis of olive oil consumption trends in Europe.

6. **Other dissemination activities**, mainly devoted to: a) the design of three different leaflets in order to promote TDC-Olive project, health benefits of consuming olive products and the future actions that will continue the activities carried out during the lifetime of the project; b) participation in more than 30 courses and seminars; c) organisation of three conferences on "Latest trends in olive industry" in Spain, Italy and Greece
7. **Development and delivery of 5 thematic training modules** especially addressed to SMEs, including the modality of on-line courses available at the TDC websites, as follows:
  - Module 1: ICT
  - Module 2: Food Quality
  - Module 3: Environmental issues and EU related legislation
  - Module 4: Regulations related to olive products industry
  - Module 5: Promotion and consumption

The training programme of the TDC Olive has consisted of 5 different modules (ICT, Food Quality, Environmental issues and EU related legislation, Regulations related to olive products industry, Promotion and consumption) delivered through a four steps approach (Development of modules - Implementation of pilot sessions - Delivery of training and workshops - Implementation of on-line training modules).

At the end of the project, more than 500 participants have attended the TDC Olive training programme in 3 different European countries (Greece, Italy and Spain) and moreover, other 380 students have attended the on line courses.

## 1.5 Project management

The management of the TDC Olive project has been organised following the FP6 guidelines and recommendations, as well as taking into account what is stated at the TA.

Partner 1a has been in charge of the management of the project within the Consortium, liaising with the technical managers of the other partners as well as with the EC Project Officer (delivery of reports, financial aspects, etc.), being also responsible of the maintaining and updating of the Project Website ([www.tdcolive.net](http://www.tdcolive.net)), and for the organisation (agenda and slide presentations preparation, drafting minutes, etc.) of the technical and management meetings of the Consortium.

Communication between partners has been easy and fluent, and the project has been completely implemented in January 2006 as it was scheduled, which gives an idea of the good coordination and work of the Consortium.

With the exception of Unilever, whose collaboration during the second year of the project has been much lower than expected, all members of the Consortium have actively collaborated in the implementation of the entire project during the two years. To solve this problem Partner 1a (CINDOC) had to develop the tasks that were supposed to be done by partner 7. Despite this and fortunately, as already said, this fact had not an important impact on the implementation of the project.

The list of members of the TDC Olive Consortium is attached in annexe 1.

## Section 2 – DISSEMINATION AND USE

### 2.1 Publishable results

TDC-Olive is a project focused on the dissemination of knowledge and on the creation of networks to facilitate the transfer of information and the technological exchange among SMEs and between SMEs and Research Institutions within the sectors of study.

It also concentrates on the promotion of the healthy benefits of consuming olive oil and olive products among consumers. Therefore, among the objectives of the project, the commercial exploitation it is not included.

The main contribution of the TDC Olive project is to provide with the industry with technical information and first hand data about the situation of the olive sector in some European countries. This information could be used for future studies in the area of enterprise, or to complete the information of an observatory on the sector. Therefore, the TDC Olive has not technical results to apply to the olive industry beyond the applications derived from the practical use and exploitation of possible innovations introduced through the project's training programme or other project developments.

In this regard, the main publishable results of the TDC Olive are:

1. The network of virtual TDC and its contents
2. The "Olive encyclopaedia" published by the members of the Consortium (D14 and D19)
3. The report on the conclusions obtained from the statistical evaluation of the surveys carried out during exhibitions (D18)
4. The articles published in scientific and technical journals (D20)
5. The contents of the training modules including their respective and different courses (D27)
6. The promotional flyers and leaflets of the project (D13-D17-D32)

### 2.2 Engaging with the public

TDC-OLIVE project was addressed both to SMEs of the olive oil and olive sectors and to consumers.

In this regard, and taking into account the need to promote the project itself as well as its activities, our Consortium programmed and has implemented a wide and complete promotional campaign to increase the impact of the project among its different publics.

The following pages summarise the main activities included within that strategy (exceeding in fact the TA) that has been developed on a regular basis through the project lifetime.

## MAIN ACTIVITIES CARRIED OUT

### 2.2.1. Contact with SMEs of the olive oil and table olive sector

a) When carrying out the survey to more than 700 enterprises of producing countries and some from no producing countries in Europe, each SME was informed about the activities offered by the project. These contacts constitute a key part of the project: they permitted to Partners to set up the basis of an active network to consider in future activities.

Partners involved: ALL PARTNERS.

b) Contacts with SMEs have continued during the project in order to inform them about the different possibilities of training offered, mainly the on-line courses. In addition, it has been recommended to all the partners involved in the creation of the four TDCs, to send automatically to all the SMEs involved in the project the Bulletin created by the program.

c) One last project flyer for SMEs was also created by Partner 1a (in English and pdf format)

### 2.2.2. Project Presentation Leaflet for Consumers

A leaflet to inform and promote the TDC-Olive Project among SMEs was created. This leaflet included a text agreed by all Partners at the meeting held in Madrid and it was designed and printed by UNILEVER and funded by CINDOC-CSIC.

The leaflet was translated into seven languages (English, German, French, Italian, Greek, Turkish and Spanish). This leaflet corresponds to DELIVERABLE # 32 which had to be delivered in November 2004 was presented in advance in September 2004 because the Consortium felt the need to create a presentation card to authorise partners in front of the public when contacting SMEs to inform them about the project or to request them to complete the survey. Partners involved: ALL PARTNERS.

Subtask 3.1, the design and creation of a project flyer for SMEs, was another activity executed with the presentation of D17, the informative flyer both enterprises and consumers. This informative flyer includes:

- A description of the TDC network
- Services offered by TDCs to SMEs: Advice, training programs, information, etc.
- Contact details (postal address, phone, fax, e-mail)
- Information and services provided by the TDCs webpage (newsletter, legislative and subsidies alerts, etc)
- An introduction to olive products and their therapeutic benefits

Flyers have a common design for all countries. The flyer has been designed by Partner 7, under the supervision of Partner 1a, and translated into Spanish, Italian, Greek, German and English by Partner 13. 2000 flyers have been printed and have been distributed among SMEs.

### 2.2.3. Participation in food fairs and other national and international events

- ✓ **Biofach 2004.** We visited BioFach 2004 (19th-22nd February 2004) and presented to the exhibitors related to the area of olive and olive oil, the idea of the project. We distributed the survey among SMEs. Partners involved: TTZ and Alcubilla 2000

- ✓ **BioFach 2005**, 24 - 27 Feb., Nuremberg. Partner involved: TTZ
- ✓ Visit to "**Feria de las energías renovables y tecnológicas del agua**" in Almería (Spain), February 2004. Partners involved: TTZ
- ✓ **Alimentaria 2004**. Visit to one of the most important food fairs in Spain. It took place in Barcelona (Spain), March 2004. During the visit, information about the project was transmitted and questionnaires were delivered for its completion. Partners involved: Alcubilla 2000, IMIDRA and CINDOC
- ✓ **Feria del Gourmet**, Madrid, April 2004: presentation of the project and distribution of questionnaires to professionals of the sector. Partners involved: IMIDRA and CINDOC
- ✓ **Expoliva 2005**, 11-14 May 2005, Jaén (Spain). Partners involved: CINDOC-CSIC and IG-CSIC
- ✓ **IPA (World Food Process Exhibition)**, 21-26 Nov. 2004, Paris. Partner involved: TTZ
- ✓ **FOODtechexpo**, Warsaw, December 8-9, 2004. Partner involved: TTZ
- ✓ **18th International Exhibition for Food-Beverages-Machinery and Equipment** 4-7 March 2005 in Thessaloniki. Partner involved: NAGREF.
- ✓ **International Food Fair, London Excel**, 13-16 March 2005. Partner involved: IMPROTECH
- ✓ **Devon Country Show**, 19-21 May 2005. Partner involved: IMPROTECH
- ✓ **Institute of Food Science & Technology Exhibition, London**, 16-18 July 2005. Partner involved: IMPROTECH
- ✓ **Edible Oil 2005**, Seville, 21-23 September 2005. Partners: CINDOC; IG, IMIDRA
- ✓ **FOODTech 2005**, Athens, 23-26 September 2005. Partner : NAGREF
- ✓ **Internationale Grüne Woche Berlin** 19-28 January 2006. Partner: CINDOC

#### 2.2.4. Participation in conferences

- ✓ Conference: **International Fair of Olive Oil and Related Products**, Armilla, Granada (Spain), 15-18 September 2004. Title of the paper: "Setting up a network of Technology Dissemination Centres to optimise SMEs in the olive and olive oil sector". Partners involved: IMIDRA and CINDOC.
- ✓ Conference: **I International Conference of Agroalimentary Laboratories**, Lugo (Spain), October 2004. Paper title: *TDC-OLIVE, the implication of an agroalimentary lab in the olive sector*. Partners involved: IMIDRA and CINDOC-CSIC.
- ✓ **Oral Communication in the "Congreso Internacional sobre Aceite de Oliva y Salud" (Jaén, Spain)**. 21– 23 October 2004. Partner envolved: IMIDRA

- ✓ Conference: **Olive Oil and Health International Conference 2004 (CIAS)**, 23-24 October 2004, Jaén (Spain). Presentation of *TDC-Olive European Project, an initiative of the 6FP to promote the benefits of the olive oil consumption for Cardiovascular Diseases*. Partners involved: IMIDRA and CINDOC-CSIC.
- ✓ Conference: **XXI Assembly of the Instituto de la Grasa**, November 18 and 19 2004. Presentation of an informative poster of the TDC Olive Project. The aim of this conference is the transference of information between research institution in the food sector and the industry and SMEs. Partners involved: Instituto de la Grasa.
- ✓ Open event (round table): Presentation of the *Latest trends in table olive industry* in **18th International Exhibition for Food-Beverages-Machinery and Equipment** 4-7 March 2005, Thessaloniki. Partners involved: NAGREF (in collaboration with the Panhellenic Association of Table Olive Processors, Packers and Exporters and with the participation of SMEs).
- ✓ **7th Wartburg Symposium on Flavor Chemistry and Biology**, April 21-23 2004, Eisenach, Germany. This paper can be found in <http://www.tdcolive.net/papers.htm>. Partners involved: Unilever
- ✓ **MEDiet**, April 21-23 2004, Athens (Greece). Oral presentation on Nutritional Value of table olives. Partners involved: Instituto de la Grasa – CSIC
- ✓ **MEDiet**, April 21-23 2004, Athens (Greece). The objectives of TDC-Olive project and the expected benefits to the Greek industries were presented in a special round table discussion entitled "Olives: the Mediterranean's patrimony". Partners involved: NAGREF
- ✓ **Ecoliva, 5th Internacional Conference on Organic Olive Oil**, May 20-23 2004, Puente de Génave, Jaén (Spain). An informative poster on the project was presented at the workshop "Modelos de dinamización y comercialización de las producciones ecológicas" ("Models of activation and commercialisation of organic products"). This poster can be found in the following Internet address: <http://www.tdcolive.net/presentations.htm>. Partners involved: CINDOC-CSIC
- ✓ **III National Congress on Food Sciences and Technologies**, Burgos (Spain), 29 May-1 June 2005. Partners involved: CINDOC and IMIDRA
- ✓ **"Latest Trends In Table Olive Industry"** Conference held in Thessaloniki (Greece), 5 March 2005, organised by NAGREF

#### **2.2.5. Participation in courses and seminars**

- ✓ Course: "XV Curso de elaboración de aceitunas de mesa" ("XV Course of table olives elaboration") Coordinated by Dr. Luis Rejano Navarro and Dr. Ana Jiménez, March 2004, Sevilla (Spain). Partners involved: Instituto de la Grasa
- ✓ Seminar: "Mejora de la Calidad del Aceite de Oliva y Aceituna de Mesa" ("Improvement of olive oil and table olives quality"), April 22 Coripe (Sevilla) and April, 23 Puebla de los Infantes (Sevilla). Partners involved: ASAJA

- ✓ Workgroup: Dissemination in the Workgroup Olivar (Olive Grove), COPA-COGECA (organization that includes all the European agricultural organizations and federations of cooperatives). 1st June 2004, Permanent Group, 2nd of June 2004 Consultative Committee. Partners involved: ASAJA.
- ✓ Seminar: "TDC-OLIVE: un reto para el olivicultor castellano" ("TDC-OLIVE, a challenge for the Castilian olive farmer") at the Junta de Cooperativistas Nuestra Sra. De la Antigua, Los Navalmorales, Toledo, June 2004. Partners involved: IMIDRA.
- ✓ Seminar: "Formación Manejo del suelo en Olivar" ("Training on Management of olive grove soil"). 7-9 June 2004 Escacena del Campo (Huelva); 15-17 June 2004 Pilas (Sevilla); 21-23 June Estepa (Sevilla). Partners involved: ASAJA.
- ✓ Dissemination in the Comisión Amplia de Aceituna de Mesa de Sevilla (Cooperatives and individual farmers). Frequency: Monthly. Partners involved: ASAJA.
- ✓ Seminar: II Seminar on new technologies in rural areas, 18th November 2004, Sevilla (Spain). Partner involved: ASAJA.
- ✓ Course related to QM in the food industry and environmental issues: to be determined. Partner involved: TTZ
- ✓ Presentation of a poster in the "I Congreso Nacional de Laboratorios Agroalimentarios", Lugo (Spain 13- 15 October 2004). Title of the communication: TDC-OLIVE: la implicación de un laboratorio agroalimentario en la optimización del sector olivarero".
- ✓ Presentation of a poster in the "III Congreso Nacional de Ciencia y Tecnología de los Alimentos". June 2005. Name of the communication (poster): "TDC-OLIVE: observatorio de la Pyme del sector olivarero en Europa".

## 2.2.6. Publications

### a) **Reports**

- The results obtained from the survey carried out among enterprises of the olive sector have been included in the **Report "TDC-Olive: Survey on SMEs of the Olive Oil and Table Olive Sector"** (D1). It is also available in the webpage of the TDC-Olive <http://www.tdcolive.net/reports.htm>.

This report has been included in the Journal *Grasas y Aceites*, included in the ISI Journals Citations Report, published by Instituto de la Grasa - CSIC (in accordance with D2). It will be published in next issues. It is an article including the results obtained from the survey carried out in the first 6 months of the project (Publication of the results in an EU-wide journal). Partners involved: CINDOC-CSIC, with the collaboration of all the partners of TDC-OLIVE project.

- Publication of the "**Olive Encyclopaedia**", conformed by 15 booklets. Each of the booklets has been prepared by one of the Partners that must adjust the structure and the presentation to a format previously agreed by the group. The booklets are also translated into the languages of the four TDCs and published, firstly in the TDCs websites, and at the end of the project in paper.



Titles of the first 12 **booklets** are the following:

- By-products reusing: Partner in charge: TTZ
  - Consumption Studies: Partner in charge: UNILEVER
  - Instrumental Analysis Techniques: Partner in charge: BFEL
  - Promotion of nutrition in table olives and olive oil in SMEs: Partner in charge: IMPROTECH
  - Microbiological alterations: Partner in charge: IMIDRA
  - Olive culture: Partner in charge: NAGREF/ITAP
  - Processing technology: Partner in charge: INST. DE LA GRASA-CSIC
  - Olive sector related European legislation and HACCP: Partner in charge: BIOZON
  - Overview of the situation of ICT in the European olive sector: Partner in charge: CINDOC-CSIC
  - Sensory Analysis Technique: Partner in charge: ISE
  - Waste treatment: Partner in charge: TTZ
  - Opportunities for olive oil in non producing countries Partner in charge: IMPROTECH
- Development and publication of other 3 booklets for the **"olive encyclopaedia"** focused on benefits of olive products for consumers:
- Cardiovascular diets: Partner 2
  - Nutritional characteristics: Partner 1b
  - Edible fats in European cooking habits: Partner 12
- Preparation of **24 technical articles** published or to be published in scientific journals (D20). Partners involved: CINDOC, Instituto de la Grasa, IMIDRA, TTZ, BFEL, ISE, NAGREF, UNILEVER and IMPROTECH.
- Report on the **"Conclusions obtained from the statistical evaluation of the surveys carried out during exhibitions"** (D18) carried out by IMPROTECH

## **b) Other publications**

- ✓ *Assessment of the aroma quality of olive oil by DHS-GC-MS as an alternative to the existing sensory evaluation* – Poster presented at 7th Wartburg Conference on Flavour Chemistry & Biology in Eisenach, Germany (21-23 April 2004). Partner involved: Unilever
- ✓ *TDC OLIVE* - Informative writing with the essential information on TDC-OLIVE project. Included in "Boletín Agrario" (No. 41 - June 2004), professional journal for farmers published by the Dirección General de Agricultura of the regional government of Madrid. Partner involved: IMIDRA
- ✓ *Projet Européen TDC – OLIVE*. Article about the project in "Le Nouvel Olivier" (No.: 30 - March/April 2004). Official magazine of AFIDOL (Association Française Interprofessionnelle de l'Olive). Partners involved: TTZ and Biozon.
- ✓ Participation in an information day organised in Agrinio (Greece), 8 October 2004, about Olives and Olive Oil. During the event a presentation was given on "Quality improvement of Greek table olives" with particular emphasis on the project and the expected benefits from the training courses that it offers. Partners involved: NAGREF

- ✓ A list of British and Irish contacts has been created and will be included in a mail shot promoting the awareness of the TDC network. Additionally, the National BBC network have a food interactive portal which we are intending to promote olives and the RDC network to [http://www.bbc.co.uk/food/news\\_and\\_events/calendar\\_index.shtml](http://www.bbc.co.uk/food/news_and_events/calendar_index.shtml). Partners involved: IMPROTECH.
- ✓ Links and articles referencing the TDC network are to be sent to the Food lovers Britain site <http://www.foodloversbritain.com/> and fairtrade portal requesting an inclusion of the TDC network to their links. <http://www.fairtrade.org.uk/products.htm>. Partner involved: IMPROTECH.
- ✓ Several EU funded projects related to the olive oil sector, where TTZ is already either partner have been identified. The partners of these projects (INASOOP <http://www.inasoop.info/>, SOLARDIST <http://www.solardist.info/> and MOWOM- website under construction) have been informed about the objectives of TDC OLIVE and a link to our web site will be made in the next updates of their web sites. Partner involved: TTZ and BIOZOOM.
- ✓ Submission of an article to the "III Congreso Nacional de Ciencia y Tecnología de los Alimentos". June 2005. Partner involved: IMIDRA

#### 2.2.7. Organisation of Conferences

As programmed in the TA, the TDC Olive Consortium has also organised 3 conferences on "Latest trends in olive industry" in Greece, Italy and Spain.

In Greece the conference was organized on 5 March 2005 in Thessaloniki, Northern Greece, during the 18th International Exhibition of Food, Drinks, Machinery and Equipment (DETROP 2005). The conference was co-organised with the Panhellenic Association of Table Olives Processors, Packers and Exporters (PEMETE). Key-speakers were invited from both the private and public sector to cover a variety of topics including legislation, research issues, quality problems and improvement, market perspectives, structure of the processing sector. The conference was attended by 53 persons, distributed as follows according to activity: SMEs, 29 (54.7%); Ministries, 10 (18.9%); Academia, 14 (26.4%).

During the conference it was stressed that the existing Greek legislation governing table olives standardization and marketing (Presidential decree 221/1979) is very old and must be revised in the light of new scientific evidence and market trends. For this reason a working group of experts was proposed, with members from the Ministry of Rural Development and Food and the Panhellenic Association of of Table Olives Processors, Packers and Exporters to work on this issue and provide a draft working document to the Ministry for assessment. Special attention was given to the Protected Destination of Origin (PDO) and Protected Geographical Indication (PGI) of Greek table olive varieties, with main emphasis on Kalamata variety, which must be protected from other varieties from Chile, Argentina and Egypt having similar fruit characteristics.

The quality of table olives was also discussed in depth and several methods were presented by the Institute of Technology of Agricultural Products to improve processing and packaging. Residues of plant protection products were also mentioned as a critical quality factor by the Regional Center for Plant Protection and Quality Control, pointing out the importance of careful spaying during the growing period of the trees. A general overview of the scientific research undertaken so far in the sector was summarized by the Agricultural University of Athens. Finally, the scope and activities of the TDC-Olive project were presented in detail with special emphasis on the training seminars organized in Athens from 6-17 June.

In Spain, September 21<sup>st</sup> 2005 was the selected date to celebrate the "Latest Trends in Olive Industry" Conference, in the frame of the international Edible Oil Fair 2005. It was organized by CINDOC and it took place in Sevilla (Spain). Other Spanish Partners (ASAJA, Instituto de la Grasa and IMIDRA) of the project also participated.

Total attendees from SMEs: 18 persons (Producers, manufacturers and distributors). Attendees from other sectors: 14 persons (people from research institutions and business associations. Some departments from IMIDRA and IG-CSIC were also interested in attending the conference).

Finally, in Italy the conference took place last 20 January 2006. It was organized by Partner 3 (ISE) in its own premises where SMEs and researches were invited to participate. About 30 institutions attended the event, which main topics of discussion were as follows: TDC-Olive Project, Processing Technology, Quality aspects, Marketing, Waste Treatment.

#### 2.2.8. Other dissemination actions

- ✓ Dissemination of the project in the ASAJA magazine
- ✓ Leaflet of TDC-Olive: mailing of this leaflet to all members of ASAJA
- ✓ A link to the website of the project has been included in the Portal Tecnociencia (in the section of web resources as well as in the section of items of special interest). The website has more than around 100.000 visits per day. <http://www.tecnociencia.es/fecyt/public/index.jsp>
- ✓ In view of the Olympic Games, the project flyer was disseminated in an event called "In Praise of the Olive" organised by the Academy of Athens and the Hellenic Ministry of Culture. This event is actually an exhibition covering all aspects of the olive tree and its products, including folklore, traditional customs, traditional production technologies, the meaning of the olive tree in everyday life, its use in ancient and modern Greece, art, etc. The duration of the event is from the 16th of July until 15th of October. In this event, the Panhellenic Association of Table Olive Processors, Packers and Exporters has reserved a special area to promote the products of their members together with the flyer of TDC-Olive. It is expected that a great number of people will visit the exhibition. (NAGREF)
- ✓ Presentation of the sensory assessment of table olives developed by IMIDRA in an "Open Day of Olive Growing" in Aranjuez (Madrid, Spain). June 2005. Partner involved: IMIDRA.

#### 2.2.9. Web presence

The creation of a **project website**, (<http://www.tdcolive.net/>) was conceived to serve as a management and communication tool. Although it is part of D33 and it was due to month 8 of the project (September 2004), the consortium agreed in advancing the launching date in order to profit from its benefits since the beginning of the project.

Results obtained from the project are presented and shared among partners and it is also a channel of communication between partners and with the general public. It also counts with a restricted area (**Partners area**) for the exclusive use of the partners. To enter this area, a username and a password are needed. Within this area the partner can find the most relevant information for partners, deadlines, and the internal information such as deliverables presented to the EC, internal reports, etc.

The website was created by Partner 1a who was also responsible for its hosting at its own servers. CINDOC-CSIC is also in charge of the management, maintenance and updating of the website.

Creation and implementation of four TDCs in German, Greek, Italian and Spanish including all the information related to the olive sector relevant for SMEs. Partners involved: BIOZON, CINDOC-CSIC, ISE, NAGREF and TTZ.

Publication of a monthly bulletin in the four TDCs. Partners involved: All partners involved in TDCs.

Partner 1a has been in charge of the project website as well as the Spanish virtual TDC until the end of the project. Likewise, the other TDCs have been maintained and updated until the same date by each responsible institution.

The Consortium has also worked to ensure TDCs viability after the end of the project. In this regard, both the Greek and Spanish TDCs will continue to work after February 2006.

#### **2.2.10. Other partners' activities related to olive oil and table olives**

Participation in the Working Group of the International Olive Oil Council to review World Trade Organisation's International Regulations on Olives, applicable to the international trade of table olives. (Instituto de la Grasa).

Preparation of a Draft of the Regulation of IOOC/CODEX for the study of related to the Codex Committee that will take place in September 2004. (Instituto de la Grasa).

Participation in the preparation of IOOC Quality Regulations for table olive industries. (Instituto de la Grasa).

Improtechnology has been created a database including a list of Olive contacts in the UK, Ireland and across Europe. More than two hundred contacts have been introduced.

A database of 40 Major National Food Trade Shows in the United Kingdom has also been produced detailing the main organisers and contact numbers.

## Section 3 – CONCLUSIONS AND RECOMMENDATIONS

We list below our main conclusions after the implementation of the two years project including some recommendations aimed to help to the design of future similar promotional actions.

- As scheduled, two years after the kick-off meeting, the project has been accomplished by January 2006 and all the activities have been successfully implemented
- We believe the impact of the project is very positive: many new tools and sources have been created and are now available for SMEs as well as for Consumers. Also, a good promotional work has been carried out to promote olive oil and olives consumption and recognition across Europe
- Moreover, some results (e.g: on-line platform; olive encyclopaedia) are pioneers within the sector. Their high appreciation among SMEs (more than 500 participants at the Training Programme and more than 30.000 visits to the TDC websites) encourage new future possible actions
- The sustainability and future practical applications of the main results of the project - TDCs, Olive Encyclopaedia, and Training Material - is ensured and will be available at different sources for general public
- In addition to this, the importance of the sector in southern European countries together with some other facts revealed with the TDC Olive project, encourage also to continue to support the olive European industry
- European SMEs of the olive oil industry are not adapted to ITC yet. Besides, 20% of EU population is not familiar with the use and consumption of olives and olive oil, and in the case of some concrete countries this percentage is much more important (e.g.: in the United Kingdom 66% of respondents were not familiar with olive products consumption)
- Taking into account the international trends of olive products markets, it is recommended to extend the scope of future similar initiatives to Latin American & North African Mediterranean countries since their importance as producer and consumers countries increase every day
- From the operative aspects of the project, the Consortium wants to highlight that most of activities have been implemented exceeding the minimum requirements stated at the TA
- Collaboration among partners has been easy and productive, resulting even some spin-offs and agreements to collaborate in future projects, as well as many contacts with third institutions and private companies have been developed
- The lack of more resources impeded a deeper promotional work in non consuming countries. The need to translate in 3-4 different languages most of the publications as well as the training and promotional material has been very time and budget consuming
- Regarding the training programme, it could have been very interesting to implement a course on instrumental analysis techniques
- It has been difficult to mobilize SMEs with the available resources (time and budget)

## ANNEXES

## Annexe 1 – Members of the TDC Olive Consortium

Partic. Role	Partic. No	Participant Institutions	Participant Inst. short name	Role in the project	Country
CO	1a	Consejo Superior de Investigaciones Científicas	CSIC	Research Institution	Spain
	1b				
CR	2	Instituto Madrileño de Investigación y Desarrollo Rural, Agrario y Alimentario	IMIDRA	Research Institution	Spain
CR	3	Istituto Sperimentale per la Elaiotecnica	ISE	Research Institution	Italy
CR	4	Institute of Technology of Agricultural Products	NAGREF	Research Institution	Greece
CR	5	Technologie-Transfer-Zentrum	TTZ	Research Institution	Germany
CR	6	Federal Centre for Cereal, Potato and Lipid Research	BFEL	Research Institution	Germany
CR	7	Unilever	UNILEVER	Enterprise of the food sector	Netherlands
CR	8	Asociación Agraria de Jóvenes Agricultores	ASAJA	Organization of professional farmers	Spain
CR	9	Sabina-Agricola	SABINA	Co-operative of olive producers	Italy
CR	10	Agricultural Association Agio Apostolon Vion	VION	Co-operative of olive producers	Greece
CR	11	Alcubilla 2000 S.L.	ALCUBILLA	SME of the olive sector	Spain
CR	12	Improtechnology Limited	IMPROTECH	SME specialized in marketing and promotions	United Kingdom
CR	13	Biozoon GmbH	BIOZOON	A research SME in the field of food technology	Germany

## Annexe 2 – Deliverables list

Del. No.	Deliverable name	WP no.	WP Lead particip.	Estimated person-months	Nature <sup>1</sup>	Dissemination level <sup>2</sup>	Estimated Delivery date <sup>3</sup> (proj.month)
D1	Report of the different surveys performed and the general overview of the interest of European SMEs of the olive sector in this activities	1	1a	21.26	R	PP	6
D2	Publication of the results in an EU-wide journal	1	1a	1	R	PP	6
D3	Requirement list for the TDC and structure of the TDC	1	1a	4.24	R	PP	6
D4	Program of training	1	1a	2.0	R	PP	6
D5	Draft of the questionnaires prior to their distribution	1	1a	0.5	R	PP	6
D6	Draft of a well targeted dissemination strategy including a suitable advertisement campaign	1	1a	0.5	R	PP	6
D7	Statistics on the questionnaires	1	1a	0.5	R	PP	6
D8	List of contacts annotated and sorted by category	1	1a	0.5	R	PP	6
D9	Meeting at Brussels with EC representative to discuss the possible reshaping of the work	1	1a	1	O	PP	7
D10	Revised/adjusted work programme	2	1a	0.4	P	PP	8
D11	Establishment of the Website structure	2	1a	9	P	PP	8
D12	Maintenance of the Website	2	1a	7.5	P	PP	9-24
D13	Informative flyer for SMEs	3	8	0.5	D	PU	10
D14	Publication of 12 booklets	3	8		O	PU	9-15
D14a	Booklet on By-products reusing	3	8	1.3	O	PU	10
D14b	Booklet on Consumption Studies	3	8	1.3	O	PU	11
D14c	Booklet on Instrumental Analysis Techniques	3	8	1.3	O	PU	12
D14d	Booklet on Marketing techniques	3	8	1.3	O	PU	11
D14e	Booklet on Microbiological alterations	3	8	1.3	O	PU	13
D14f	Booklet on Olive culture	3	8	1.3	O	PU	14
D14g	Booklet on Processing technology	3	8	1.3	O	PU	15
D14h	Booklet on Olive sector related European legislation and HACCP	3	8	1.3	O	PU	11

<sup>1</sup> Nature of the deliverable:

R = Report  
P = Prototype  
D = Demonstrator  
O = Other

<sup>2</sup> Dissemination level using one of the following codes:

PU = Public  
PP = Restricted to other programme participants (including the Commission Services).  
RE = Restricted to a group specified by the consortium (including the Commission Services).  
CO = Confidential, only for members of the consortium (including the Commission Services).

<sup>3</sup> Month since when the deliverable is available. Month 1 marking the start of the project (Feb 2004) and all delivery dates being relative to this start date.



D14i	Booklet on Overview of the situation of ICTs in the European olive sector	3	8	1.3	O	PU	11
D14j	Booklet on Sensory Analysis Technique	3	8	1.3	O	PU	15
D14k	Booklet on Waste treatment	3	8	1.3	O	PU	15
D14l	Booklet on Opportunities for olive oil in non producing countries	3	8	1.3	O	PU	13
D15	Assessment report about exhibition participation (new contacts, detected interests, etc)	3	8	9.35	R	PU	24
D16	Assessment report about conference participation	3	8	1.5	R	PU	24
D17	Informative leaflet including a description of the TDC network and the therapeutic benefits of olive oil and olives	4	7	0.5	D	PU	10
D18	Report on the conclusions obtained from the statistical evaluation of the surveys carried out during exhibitions	4	7	3	R	PU	21
D19	Two booklets on the relationship between health and olive products, edited within the Olive Encyclopaedia	4	7		D	PU	9-15
D19a	Booklet on Cardiovascular diets	4	7	1.3	D	PU	10
D19b	Booklet on Nutritional Characteristics	4	7	1.3	D	PU	13
D19c	Booklet on Edible fats in European cooking habits	4	7	1.3	D	PU	15
D20	Publications in technical journals	4	7	10.45	O	PU	22
D21	Training module and contents in ICT	5	1b	0.7	O	PU	9, 10
D22	Training module and contents on Food Quality	5	1b	2.5	O	PU	12, 13
D23	Training module and contents on Environmental issues and EU related legislation	5	1b	1.1	O	PU	15,16
D24	Training module and contents on regulations related to olive tree products industry	5	1b	0.5	O	PU	18, 19
D25	Training module on marketing	5	1b	0.8	O	PU	20
D26	Assessment report on the pilot training	6	5	1.0	R	PP	11, 14, 17, 20
D27	Set of optimised training modules ready for implementation in SMEs	6	5	2.15	O	PU	11, 14, 17, 20
D28	Questionnaires for approval	7	1b	0.35	D	PP	11, 14, 17, 20
D29	Assessment report on training modules	7	1b	8.00	R	PP	13, 16, 19, 21
D30	Contents of each training module adapted to the on-line platform	8	1a	3.7	O	PU	10, 13, 17, 20, 21
D31	Assessment report on training modules on-line	8	1a	0.5	R	PP	21
D32	Project presentation leaflet	9	1a	0.5	R	PP	8
D33	Project website	9	1a	2	D	PP	8
D34	Mid-Term Report	9	1a	0.5	R	PP	12
D35	Technology Implementation Plan	9	1a	0.5	R	PP	18
D36	Final report	9	1a	0.5	R	PP	24

## Annexe 3 – Homepages of the TDC

German TDC [www.tdcolive.de](http://www.tdcolive.de)

**TDC OLIVE** TECHNOLOGY DISSEMINATION CENTRE

ttz Bremerhaven biozoon Unilever BFEL Sixth Framework Programme

Home | Who we are? | Objectives | Access statistics | Web map | Help | Area partners

**R&D**

**Alert on Legislation**

- Council Directive 75/439/EEC on the disposal of waste oils

**Grants and Subsidies**

- Commission Decision of 17 August 2004 amending Decisions 2001/648/EC, 2001/649/EC, 2001/650/EC, 2001/658/EC and 2001/670/EC on the granting of aid for the production of table olives (notified under document number C(2004) 3100)

**Announcements of Projects**

- Development of a new mobile waste water treatment process for SME olive mills

**General Announcements**

- BTA Barcelona Tecnoalimentaria

**Enterprises**

**Alert on Legislation**

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Νομοθεσία

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Ερευνητικά προγράμματα

Ερευνητικοί Φορείς

Επιστημονικά περιοδικά

Βάσεις δεδομένων

Επιστημονικά συνέδρια

Τεχνικά άρθρα

Επιδότησεις και επιχορηγήσεις

**Επιχειρήσεις**

Εκπαίδευση

Προσφορά τεχνογνωσίας

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Επιδότησεις και Επιχορηγήσεις

- ➔ Πρόσκληση υποβολής προτάσεων στο πλαίσιο της Ε&Τ συνεργασίας Ελλάδας - Ουκρανίας για τα έτη 2004-2006

Προκηρύξεις ερευνητικών προγραμμάτων

- ➔ Anaerobic Treatment of Olive Processing Wastes

Γενικές Ανακοινώσεις

- ➔ 2ο Διεθνές Συνέδριο για την Επιτραπέζια Ελιά & το Ελαιόλαδο

**Επιχειρήσεις**

Ενημέρωση Νομοθεσίας

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Ηλεκτρονικό δελτίο επιχειρήσεων

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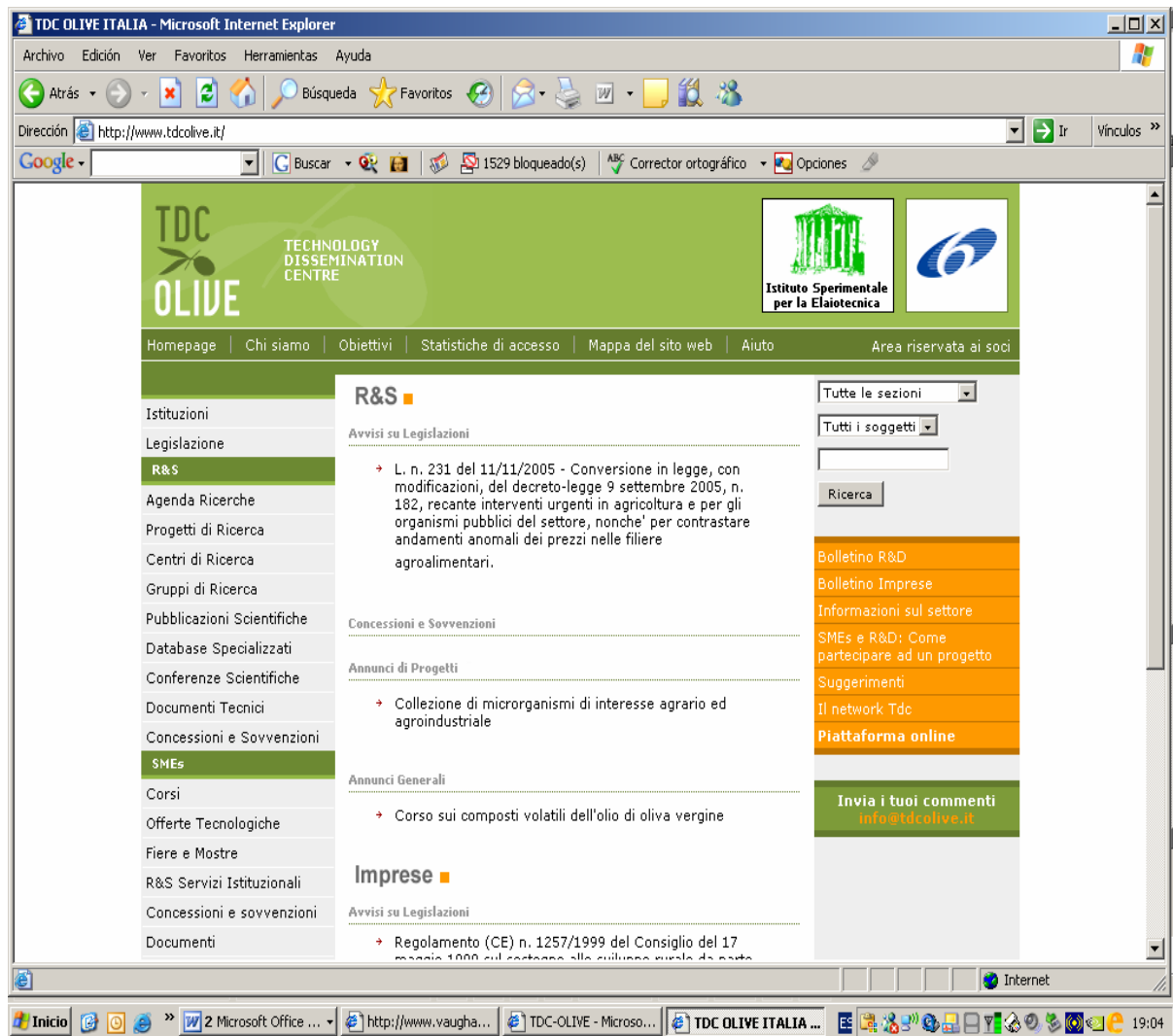
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Documentos

**PYMES**

Alerta legislativa

→ LEY 28/1987, de 11 de diciembre, por la que se crea la Agencia para el Aceite de Oliva

Ayudas y subvenciones

Últimos proyectos

Próximos eventos

→ X Salon Internacional del Aceite de Oliva. SOL 2005

**I+D**

Alerta legislativa

→ Commission Regulation (EC) No 253/2004 of 13 February 2004 fixing the ceilings on financing for measures to improve the quality of the olive oil production in the 2004/05 production cycle and derogating from Article 3(3) of Regulation (EC) No 528/1999

Ayudas y subvenciones

→ Orden 6886/2004, de 12 de agosto, de la Consejería de Economía e Innovación Tecnológica de la

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## Annexe 4 – Publications of the TDC Olive project

- *Olive encyclopaedia* composed by the following 15 booklets:
  - Booklet on By-products Reusing
  - Booklet on Consumption Studies
  - Booklet on Instrumental Analysis Techniques
  - Booklet on Promotion of nutrition in table olives and olive oil in SMEs
  - Booklet on Microbiological Alterations
  - Booklet on Olive Culture
  - Booklet on Processing Technology
  - Booklet on Olive sector related European legislation and HACCP
  - Booklet on Overview of the situation of ICTs in the European olive sector
  - Booklet on Sensory Analysis Techniques
  - Booklet on Waste Treatment
  - Booklet on Opportunities for olive oil in non producing countries
  
  - Booklet on Cardiovascular diets
  - Booklet on Nutritional characteristics
  - Booklet on Edible fats in European cooking habits

These booklets are available in pdf format in each and every TDC. All of them are available in English, Spanish Greek and Italian.

- *More than 20 articles* published in some of the most relevant European scientific journals and magazines, and among others:
  - Situation of European SMEs in the olive oil and table olive industry. Survey; Grasas y Aceites, vol. 56, fasc. 3 (2005), p. 209-219
  - Kinetic study of the physicochemical and microbiological changes in "seasoned" olives during shelf life; Journal Agricultural Food Chemistry 2005, 53, p. 5285-5292
  - "La cata de la aceituna de mesa" ("Sensory assessment of table olives"); Detallista, nº 221, pp.19-24
  - Chemical composition and nutritional quality of table olives; L'Informatore Agrario, September 2006
  - Chemical and healthy characteristics of olive oil; L'Informatore Agrario, April 2006 (expected)
  - Necessities for technological information in the table olive sector. A survey within the TDC-Olive project of the EU; Olive & Olive Oil Journal, 41:34-37
  - Changes in volatile compounds and related biochemical profile during controlled fermentation of cv. Conservolea green olives; Food Microbiology
  - Assistance of dynamic headspace chromatography for panel sensory evaluation; Revista Italiana delle Sostanze Grasse. Vol. 82 (2005) 291-297

## Annexe 5 – Training Programme

### a) Actual courses

COURSE	DATE	LOCATION	Responsible / Tutor	Final number of attendants
<b>Module 1 – ICT</b>				
Training Spain	1-4 March 2005	Sevilla	CINDOC	25
Training Italy	22-25 Nov 2005	Bari	ISE	13
Training Greece	6 - 18 June	Athens	NAGREF	25
<b>Module 2 - FOOD QUALITY</b>				
Training Sensory olive oil Spain	26-27 April 2005 24-25 May 2005	Gibraleón Estepa (Seville)	IG-CSIC	13 24
Training Sensory table olives Spain	19-21 April 2005 4-5 May 2005	Pilas (Seville) Osuna (Sevilla)	IMIDRA	25 20
Training Key volatiles Spain	13-14 June 2005	Puerta de Segura (Jaén)	IMIDRA	18
Training Sensory olive oil Italy	26-30 September	Bari	ISE	21
Training Sensory table olives Italy	5-7 July 2005	Foggia	ISE	26
Training Key volatiles Italy	30 June 2005	Roma	ISE	13
Training Sensory olive oil Greece	6 - 18 June 2005	Athens	NAGREF	27
Training Sensory table olives Greece	6 - 18 June 2005	Athens	NAGREF	27
Training Key volatiles Greece	6 - 18 June 2005	Athens	NAGREF	27
<b>Module 3 - ENVIRONMENTAL ISSUES</b>				
Training module in Greece	6 - 18 June 2005	Athens	NAGREF	27
Training module in Spain	28-29 June 2005	Osuna (Sevilla)	TTZ	25
Training module in Italy	7-8 September 2005	Monopello (Italy)	TTZ	29
<b>Module 4 - LEGISLATION AND REGULATIONS</b>				
Training module in Greece	6 - 18 June 2005	Athens	NAGREF / Biozoon	27
Training module in Spain	21-22 June 2005	Écija (Sevilla)	Biozoon	30
Training module in Italy	5-6 September 2005	Pescara (Italy)	ISE / Biozoon	17
<b>Module 5 - PROMOTION AND CONSUMPTION</b>				
Training module Greece	6 - 18 June 2005	Athens	Subcontracted by NAGREF	19
Training module Italy	10-12 October 2005	Roma	Subcontracted by ISE	10
Training module Spain	24-25 October 2005	Jaén	Subcontracted by CINDOC	25



## b) On line courses

ON LINE COURSE	DATE *	LOCATION	Responsible / Tutor
<b>Module 1 – ICT</b>			
On line course Spanish TDC	25 April – 8 May 2005	Web-based	CINDOC
On line course Greek TDC	15 -31 January 2006	Web-based	NAGREF
On line course Italian TDC	2 December 2005- 31 January 2006	Web-based	ISE
<b>Module 2 - FOOD QUALITY</b>			
On line training Module 2 - Sensory Analysis of Olive Oil - in Spanish TDC	10 November 2005 – 31 January 2006	Web based	IG-CSIC
On line training Module 2 - Sensory Analysis of Table Oil - in Spanish TDC	3 – 17 October 2005	Web based	IMDRA
On line training Module 2 Determination of key volatiles in olive oil for quality prediction – in Spanish TDC	24 November – 2 December 2005	Web based	IMIDRA
On line training Module 2 Courses 1 & 2 – Sensory Analysis of Olive Oil and Table Olives - in Italian TDC	28 November 2005 – 12 December 2005	Web based	ISE
On line training Module 2 Course Determination of key volatiles in olive oil for quality prediction - in Italian TDC	3 – 17 December 2005	Web based	ISE
On line training Module 2 – Courses 1,2 & 3 – In Greek TDC	2 December 2005 – 31 January 2006	Web based	NAGREF
<b>Module 3 - ENVIRONMENTAL ISSUES</b>			
On line training in Spanish TDC	10 – 23 October 2005	Web based	TTZ
On line training in Italian TDC	10 – 23 October 2005	Web based	TTZ
On line training in Greek TDC	2 December 2005 – 31 January 2006	Web based	NAGREF
<b>Module 4 - LEGISLATION AND REGULATIONS</b>			
On line training in Spanish TDC	10 – 23 October 2005	Web based	Biozoon
On line training in Italian TDC	14 – 27 November 2005	Web based	Biozoon
On line training in Greek TDC	2 December 2005 – 31 January 2006	Web based	Biozoon
<b>Module 5 – PROMOTION OF OLIVE PRODUCTS CONSUMPTION</b>			
On line training in Spanish TDC	22 November – 2 December 2005	Web based	No Tutor
On line training in Italian TDC	22 November 2005 – 12 December 2005	Web based	No Tutor
On line training in Greek TDC	2 December 2005 – 31 January 2006	Web based	No Tutor