

Solfranc Tecnologias, SL

Technology for Agriculture and Environment



Company presentation



Location & Contact

Solfranc Tecnologias, SL

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Foundations

- Solfranc Tecnologias, SL started at 2005
- It is a **pioneer company** that integrates technology applied to knowledge of the functioning of biological systems and the their environment
- Only from the knowledge extracted from the information we do a **good management of our resources**, so as to achieve sustainable development that respects the environment and our future generations

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The Staff

Our best team for the best service

- The **Agronomic Department** consists of an Agricultural Engineer, a Technical Agronomy Engineer and a Forest Engineering
- The **Technical Department** is in charge of two Electronic Engineers
- In the **Department of Administration** we have the help of a Computer Engineering and a Diploma in Business Studies
- In addition, other professionals who work with us occasionally

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Commercial activities

technology

- **Distribution of sensors and scientific equipments**, our ones and from other brands

consultant & engineering

- **Agronomy, Technology and Environmental Technical Consultant**
- **Engineering projects** for Agronomy, Forestry and Environment
- **Training**

R & D & I

- **Research and technical development** in the field of ecophysiological instrumentation

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Distribution of scientific equipments - I

technology



The Solfranc Tecnologias technical team develops:

- **Specific instrumentation** and modifications or adaptations of commercial equipments, according to the customer or the project needs
- **Maintenance of equipments and sensors**
- **Calibration and repair Solfranc equipments and from other manufacturers**

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Distribution of scientific equipments - II

- **Plant Ecophysiology** - Measurement of parameters in plants, fruits, etc.
- **Water quality** - Equipments to analyze the water quality
- **Soil survey** - Analysis of the ground and its properties
- **Climatology** - Equipment for the climate state procurement
- **Data loggers** - Local storage of the data provided by sensors
- **Sensors** - For monitoring the crops parameters
- **Equipment rental and sale of 2nd hand equipments**

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Consultant: Agronomic and Forestry



- **Management and crop management** by controlling irrigation and the composting and fertilization doses or climate control in greenhouses
- **Improvement of the production systems**, searching the more critical points in the production and creating a traceability system production
- **Study and improvement of costs and working time** by controlling fertilizers, considering labour costs and labour in pruning, harvesting, treatments, etc.

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Consultant: Environmental

*With **Engineering and Building Projects** it is always needed **Environmental Reports** with full **Environmental Impact Study** which generally contains:*

- **Study of the environmental situation** prior to the project development
- **Impact in the performance environment**, possible conditions to plant communities, wildlife, landscapes, protection of historical and cultural heritage
- **Environmental Impact Assessment**
- **Possible remedies**

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Consultant: Technology

Solfranc always works with the latest technology and it is so we can recommend:

- **Monitoring equipments** for different parameters in: climate, plant and soil
- **Precision Sensors**
- **Data collection and storage equipments**
- **Wireless communication systems** to transmit information or to activate alarms
- **Software to view and analyze the information** from the installed equipments

All this to control the production parameters and the growth of crops and plants to ensure the desired output and better quality

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Engineering: Projects

Solfranc engineering service develop complete engineering projects and works in collaboration with engineering projects related to:

engineering

- Agronomic projects
- Forestry projects
- Environmental projects – Sustainable power source
- Sustainable Gardening projects

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Training

Solfranc offers different types of training, in the professionally and in education

- **Training to companies** with refresher courses or on new products and technologies
- **Training and information actions** in government or private companies
- **Courses in collaboration with universities, research or schools** of any kind

Our experience:

- *Master in Irrigation in Almería University – 2007*
- *Conference about Urban Orchard in Vic University - 2006*
- *Course of Specialization in Irrigation Scheduling in Lleida University -2005*
- *Fertigation Course Citrus and Stone Fruit , Miguel Hernández University- 2004*
- *Fertigation Course in Vineyard, Miguel Hernández University -2004*

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R + D + I

Research + Development + Innovation

R & D & I

research development innovation



- Research projects and scientific collaborations
- Scientific articles
- Externalization of the R+D+I department:
In the same company or in Solfranc dependences

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R + I + D:

Research projects

From 1991 to 2010 – Almost 20 years doing research

From the first project:

Deficit irrigation strategies in species of fruit: hazelnut, almond and walnut

Financial entity: CICYT (AGR90-0646-C02-02)
From: 1991 to 1993

Until the current project:

Cenit DEMETER – “Generation of knowledge scientific-technical to allow the sector to Spanish wine face the challenges of Climate Change”

Financial entity: CDTI
From: 2008

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R + I + D:

Research projects - Cenit DEMÉTER Project

- Project name: Cenit DEMETER

“Generation of scientific-technical knowledge that allow the Spanish wine sector face the challenges of Climate Change”

- Financial Entity: CDTI
- From: 2008 and currently



Subsidized by:



Centro para el Desarrollo Tecnológico Industrial

Inside:



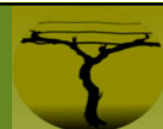
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Cenit DEMÉTER Project:

Organization, members and objectives



- It has a budget of 27 million euros, 45% of which is funded
- The members of the project are 27 Spanish companies linked to the sector
With Bodegas Torres as the leader of the group, will be joining forces until 2011
- From this 27 Spanish companies, 20 are wineries and 7 are auxiliary companies
- Solfranc Tecnologías, SL is the only company of the group that provides technology and knowledge in the world of automatic monitoring sensors crops on plant-soil-climate

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Cenit DEMÉTER Project:

Organization, members and objectives



- The objective of the Cenit DEMÉTER Project is:

Generate the scientific-technical knowledge that allow the Spanish wine sector face the challenges of Climate Change

- Company members work with public research centres and technological centres
- To get this aim, **every company works on a different part of the project**

Some examples are:

- Changes in gene expression in the ripening of the grapes
- Adaptation techniques vineyard vines
- Adaptation of the irrigation to the temperature raise

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Cenit DEMÉTER Project:

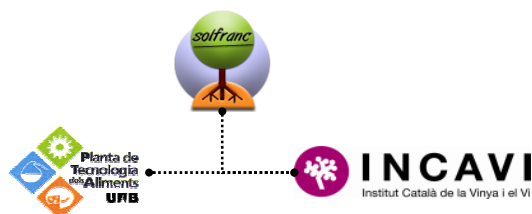
Solfranc Sub-Project



Solfranc Sub-project

Evaluation of viticultural techniques for adaptation to climate change through:

-Climate, soil and plant monitor using sensors towards a precision viticulture



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