HIDROSOPH

smart irrigation works

+30 000 HA under management

+500 producers +400 users

+600 active probes

+1 500 units +100 varieties and crops

+4 300 SMS sents +6 000 reports
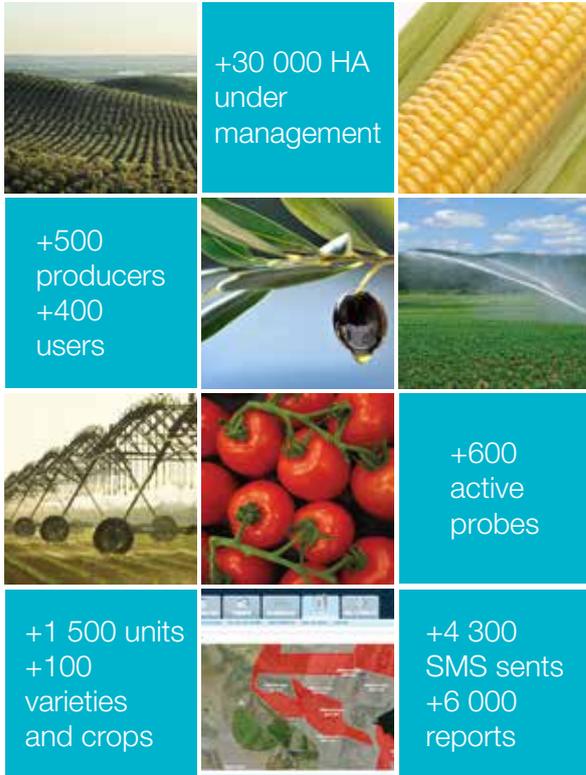
About us

HIDROSOPH specialised in efficient and sustainable irrigation water management. For many years we have been developing and improving our processes and approach, including the Irristrat intelligent irrigation management software, integrating and developing monitoring equipment to provide effective management systems for farmers, organizations and companies.

What motivates us

Helping to produce excellent products and obtaining consistent results and profitable operations while contributing for a better world.

We deliver results

EFFICIENCY
Optimal use of water and energy with benefits on fertilizer and phytosanitary costs.

PRODUCTIVITY
Increased crop production and productivity.

CONSISTENCY
Consistency between campaigns and multiple production locations.

SUSTAINABILITY
Greater environmental protection and sustainability of the use of water.

Smart irrigation that delivers results

Easily accessible high technology and technical support always available

Using innovative technology, Irristrat™, which obtains and processes real-time crop, soil moisture and weather data, our team of agronomists analyses what is happening on the field and remotely or locally supports farmers in implementing the most appropriate irrigation scheme for each situation, thus ensuring minimal water and fertilizer losses while optimizing production quantity and quality. At HIDROSOPH we know that efficient irrigation is only possible when integrating the farmer's knowledge with high technology and easy to useful information, in real time.

Integration of equipment and technologies for greater precision

Our working process includes the use of own equipment and equipment from various suppliers, from weather stations, soil moisture probes and flow meters to NDVI satellite images. We integrate all data to ensure total operability and greater irrigation precision with a broad and detailed vision.

Useful information by SMS and e-mail, instant and easy to interpret

We send simple information when it's most useful, by SMS or e-mail, so that it can be used at the right time. We remove complexity from the way we communicate irrigation schedules, forecasts, probe readings and how readings and images of the crop development can be communicated directly from the field.

hidrosoph.com

smart irrigation works

Managing irrigation and controlling the absorption of nutrients efficiently

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A real-time process, totally oriented for results.

Projects are customised for each client, with support from agronomy and irrigation experts. Each project is broken down into Irrigation Units, taking into account the following characteristics:

- Soli parameters (type, layers, slopes);

- Crop data (growth stages, root depth, water absorption patterns and stress levels);

- Irrigation systems (characteristics, water quality and availability) and Irrigation Strategy.

PLOTS

CROP

IRRIGATION SYSTEM

2ⁿᵈ

The active elements to collect information in the field are installed and integrated.

- Instruments for collecting meteorological information and rain gauges as well as meteorological forecast.

- Moisture and salinity probes and plant sensors.

- Water metering instruments (flow meters, rain gauges).

METEO

PROBES

FLOW METER

Irristrat
HIDROSOPH

Once underway and with the support of our team of consultants and agronomists, the irrigation strategy that best serves your global objectives is defined in Irristrat™.

Based on the weather forecast data for the coming days, Irristrat™ generates a continuosly updated irrigation plan and the recommended irrigation schedule.

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The operation proceeds with:

- Manual or automatic introduction of the irrigation system's actual operating data, as well as the agronomic data that will enable the entire system to be updated;

- Remote monitoring by HIDROSOPH specialists with the submission of recommendations through regular remote conferences to support the farming operation;

- Follow-up in the field by HIDROSOPH specialists, as necessary and previously agreed.

REMOTE SUPPORT

LOCAL SUPPORT

TRAINING

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