

Smart Biosystem, intelligent irrigation to confront the planned obsolescence

LOCATION: Chipiona (Cádiz)

DURATION: 1'41"

SUMMARY: A Cadiz entrepreneur has confronted planned obsolescence in the field of agricultural innovation. An automated farming system has been developed with a life expectancy of ten years. It is an intelligent irrigation system that feeds on solar energy and to which a farmer can gain access through his mobile device. It is an initiative of Smart Biosystem, a company promoted by the Minerva Program of entrepreneurship developed by Vodafone and the Andalusia government.

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This is an automated farming system with ecological awareness. Its creator, Adrián, wants to confront the planned obsolescence. The reason being that the model of intelligent irrigation developed, which operates by solar energy, has a life expectancy of at least 10 years.

ADRIÁN NAVARRO
Founder of Smart BioSystem

"In order to produce this kind of device, raw materials are required, and energy is required ... Therefore, the longer we extend the life cycles of a device we are also contributing to the sustainability of the environment since we are minimizing those resources."

If the general purpose of intelligent irrigation is to make the use of water more sustainable, why not extend that green consciousness to its own production process? This is what Adrián has done by replacing the usual electronic components with other, more durable, ones.

ADRIÁN NAVARRO
Founder of Smart BioSystem

"This allows us to maximize the longevity of this device."

The result: an intelligent and maintenance-free irrigation system to which a farmer can access through his mobile device. The sensors record the level of humidity and temperature of the soil to give the crop the water it requires at all times. Saving water is one of the main concerns of rural workers.

BENITO SALVATIERRA
Technical Specialist of IFAPA
Chipiona

"Well now it is the main factor that increases the costs of irrigation."

Adrián has developed the first prototype in collaboration with the Irrigation Assistance System of the Institute for Agricultural and Fisheries Research and Training, in whose greenhouses of Chipiona has proved the effectiveness of the system.

Jesús Casado
Director of IFAPA Chipiona

"We support the experimentation needs of these young entrepreneurs to transfer new initiatives and new technologies to the sector."

This is the project integrated in the Minerva Program of technological entrepreneurship promoted by Vodafone and the Regional Government of Andalusia.

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