

### Project ID:

Supply, installation, training and operation of **Agrometeorological network** and fully equipped Edaphological Laboratory for the implementation of the program:

«Supply and installation of telemetry systems for monitoring environmental parameters»

for the implementation of the program for Territorial European Cooperation «Hellas - Bulgaria 2007-2013»

### BRIEFLY

Item : Telemetric  
Agrometeorological  
network

Place : South Eastern Bulgaria

Period : December 2014

### ADMINISTRATOR

Municipality of Lyubimets

Under the participation of the municipality  
to the program **INTERREG IV**

### Important !

The first wireless  
Agrometeorological Network  
without use of mobile telephony

### Important !

The first Agrometeorological  
network with open access for all  
the citizens both for  
meteorological data and crops  
disease forecasting

### Allocation of the measuring stations:

Installation of 8 fully equipped telemetric stations at the whole crops area around the municipality in a radius of 15 km, covering approximately 100 thousands of acres. Simultaneously, a basic full soil analysis laboratory was entered into pilot operation.

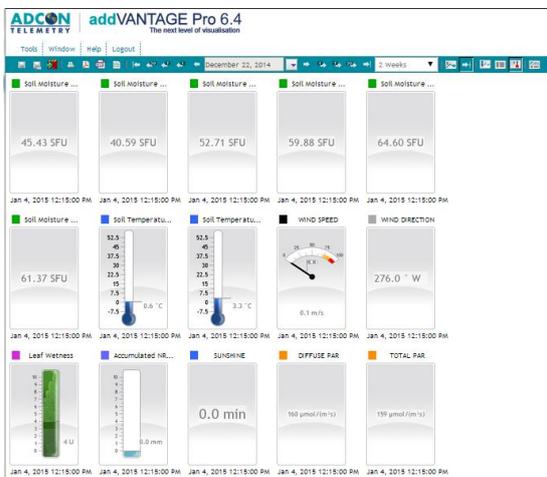


### Connection and access

The connection of the stations is based on connection system with UHF networking. Specifically all the stations send the data wireless (UHF) at the town hall, at the center of Lyubimets town.

At the municipality has been installed the downloading and automatic data processing center (Gateway). The access to the data and to the plant protection instructions is possible with the use of any digital mean, via internet.

The network is based on the technology of **ADCON**



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Description	Contents
<b>One (1) Reference station</b>	Air Temperature, Air Humidity Rain - Snow Height Wind Speed Wind Direction Total Photosynthetic Active Radiation, Diffuse Photosynthetic Active Radiation, Sunshine Duration, Total Solar Radiation, Barometric Pressure, Soil Moisture in 6 depths, Soil Temperature in 2 depths, Leaf Wetness
	Air Temperature, Air Humidity Rain Height Wind Speed Wind Direction Total Solar Radiation Barometric Pressure Soil Moisture in 6 depths Soil Temperature in 2 depths Leaf Wetness
<b>Seven (7) Basic stations</b>	Gateway Wireless connection unit Data receiving software Data processing software Web data application Disease forecasting models for crops
	Analytical balance Sieves set and sieves vibrator "Vougioukos" densitometers Oven Water distillation device Vacuum filtration system Centrifuge "Vougioukos" Mixer
<b>Edaphological Laboratory</b>	