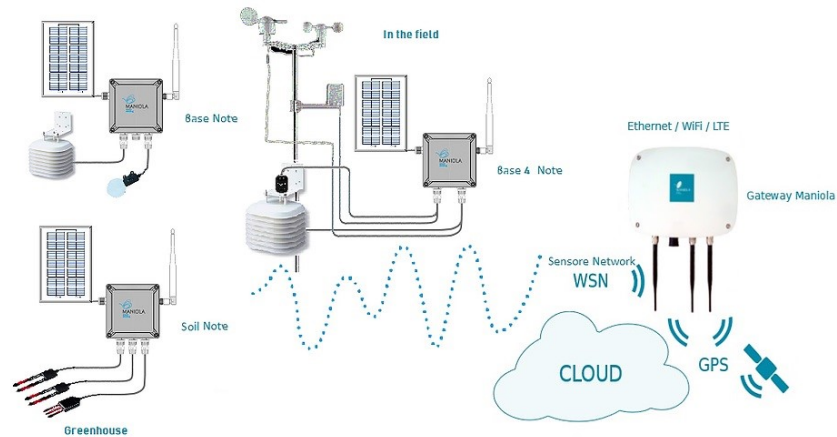![MANIOLA smart sensing — Observe - know - take action]

HIDRA MOTE

It 'a WSN application for irrigation management web based, which allows the management of HYDRA resources in addition to creation of a archive centralized for the ceck of energy and and water.

HIDRA MOTE

Decision support systems for irrigation in greenhouse e outdoor

HYDRA MOTE, is a software and hardware system of Maniola Smart Sensing, able to completely transform the irrigation and greenhouse growth management system.

HYDRA MOTE, is the integrated system of irrigation and ferti-irrigation, consisting of transceiver boards to be able to define read, control and modulate the parameters coming from the environment.

HYDRA MOTE, can completely transform the results of productivity and quality of agricultural products, in greenhouses and outdoors.

The system has been developed with University of Naples (Faculty of Agriculture and CNR-ISAFOM). In collaboration with our company we will carry out further service development and consultancy in partnership with the University of Salerno, Faculty of Agriculture, continuing experimentation also in scope of projects funded.

THE OBJECTIVES:

Water Saving

- Savings of fertilizers and pesticides

- Access control to remote systems of ferti-irrigation

- Remote management of irrigation systems - WEB BASED SYSTEM

- Expert system for irrigation management in greenhouse - DSS

- Visual inspection of crops with infrared cameras

- Improved product quality

- Increased durability of the *products of fourth range*

   … and much more

HIDRA MOTE is WSN

HYDRA MOTE, using the system WSNs (Wireless Sensor Network), which is a wireless network, equipped with distributed sensors can detect physical parameters or environmental conditions.
The network consists of a set of nodes-sensor installed inside the greenhouses which dialogue between them through appropriate algorithms allow to better manage according to the type of products that are used.

The Gateway is the access to the network and has the task of collecting and processing data stored in the cloud, this allows displaying the status of 'plant in real time from any device (computer, smart-phone, tablet).

SOFTWARE HIDRA MOTE

The SOFTWARE is resident in the Cloud allows you to access your private zone with password in according to the credentials assigned.

You can log in as:
- MANAGER
- IRRIGATION SYSTEM MAINTENANCE
- VIEWER

It will be possible to identify algorithms to define the minimum watering of the plants to obtain energy and water saving. In collaboration with agronomists of your company will identify methods to improve the products, in the version of the star product will be possible to make projections about the resources saved and product durability.

MANIOLA
smart sensing
Observe - know - take action

Business Proposal

- Devices to be mounted inside the greenhouse

- Control unit

- Operative leasing plant

- Purchase of units
 Annual subscription for   management Software

-Free Software Update

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