

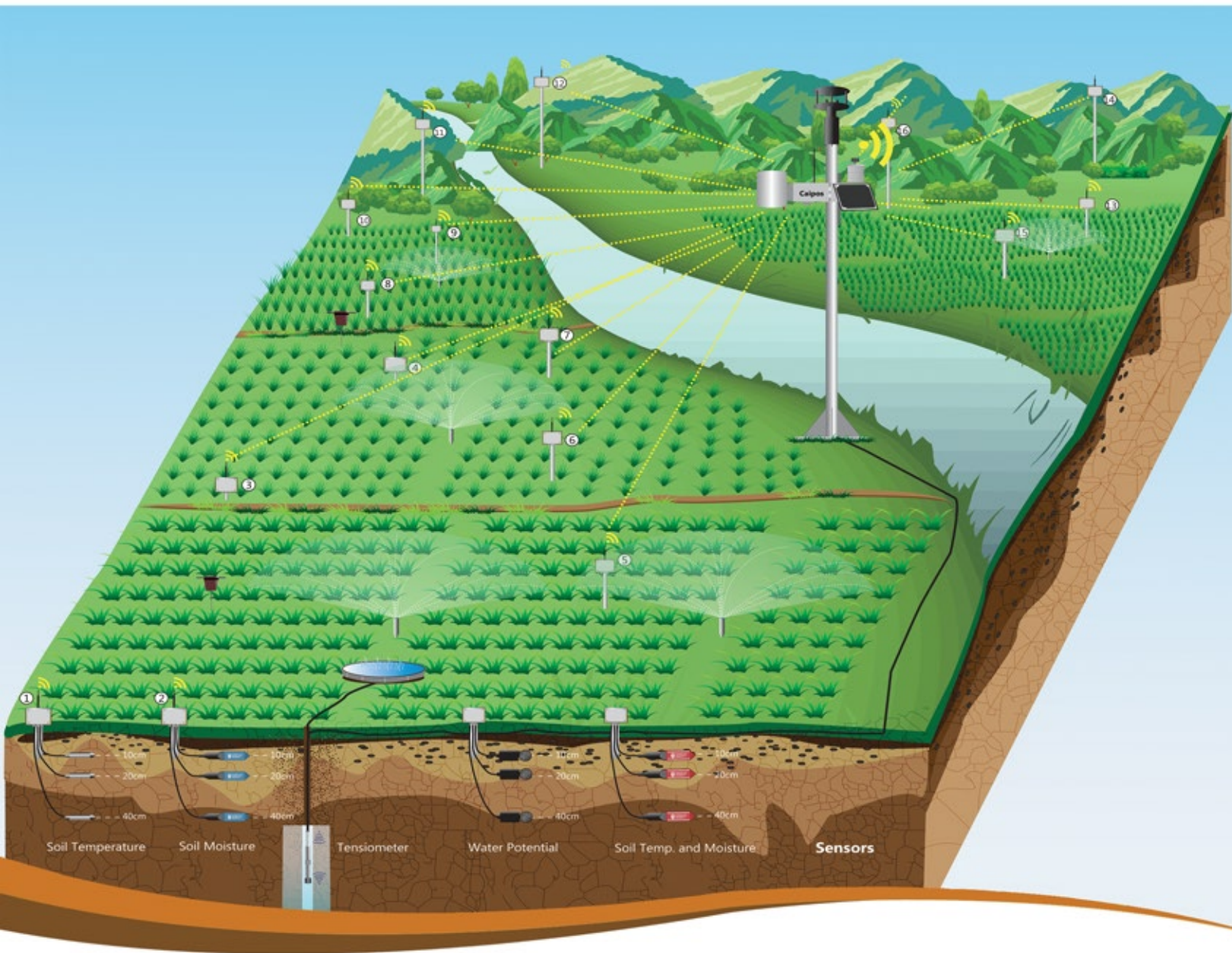


# Caipos Products and Services

## Overview

One stop solution for wireless soil moisture and climate monitoring

Internet Enabled | Accurate | Reliable | Simple | Cost Effective



## Applications of Caipos

Irrigation Optimization  
Greenhouse monitoring  
Soil Moisture

Weather Forecast  
Pest & Disease Software  
Alerts



# Caipos Products and Services

## Caipos Irrigation Control

Caipos offers wireless technology for drip and sprinkling irrigation. It is compatible with all existing installations. Caipo radio valves can operate 2 valves and multiple sensors.

One central computer can control up to 200 radio valves over 200 Ha. Irrigation can be planned on the base of soil moisture data.

This is the most cost effective and easy to use solution. It does not require cabling and power supply. Outfall of one radio valve does not affect the rest of the system. Installation is easy and fast.

System can be extended any time without additional costs and



## Wireless Soil Moisture Monitoring for Irrigation Control

Wireless sensor nodes CaipoWave, allow low cost measuring of soil moisture on very big areas. About 200 Ha can be covered with a single station and up to 16 wireless nodes.

3 soil moisture and 1 soil temperature sensors can be connected to each wireless node. Data from wireless nodes is collected by the base station and sent to the central web platform. Data transfer interval can be set from 10 to 60 minutes.

This unique feature of Caipos allows easy and cost effective optimization of irrigation.



## CaipoRain

CaipoRain is a small, accurate and inexpensive device for monitoring of weather and soil parameters. It can be used for irrigation optimization, plant disease and pest modelling and local weather forecast.

CaipoRain continuously uploads data on the central web platform. Data is instantly available on laptop, mobile phone or tablet.

CaipoRain is solar powered and does not need any maintenance. Sensors include rain gauge, temperature & relative humidity, soil moisture, soil temperature, wind, solar radiation and others.



## Greenhouse Monitoring

Caipos offers wireless monitoring of temperature, humidity, leaf wetness, CO2 and PAR inside of greenhouse. Extra power or installation is not needed. Caipos wireless sensor nodes can work indoor with a single battery set for 3-5 years.

Data is sent to the central web platform every 5-10 minutes. Warnings can be configured for any sensor, like low or high temperature, high humidity, etc. Warning messages are sent via email or SMS in real time





# Caipos Products and Services

## C-Kit

C-Kit is mobile soil moisture measurement device. It allows fast and easy measurements at multiple spots of the field. C-Kit consists of mobile phone software and bluetooth module. Data can be input manually or read from soil moisture probe using bluetooth module. Data is saved together with geographical coordinates and depth and transferred to the central web platform CaipoWeb. C-Kit can be used with different soil moisture probes, such as Delta-T SM150 or ICT-MP406.



## CaipoWeb

Caipos devices send data over internet to the central data platform CaipoWeb. It enables the users to view or to download data anywhere on any internet enabled device.

Check our free demo at <http://caipos.com/CaipoWeb/Weather/demo>

CaipoWeb remotely manages your stations and provides many usefull applications like tables, charts, weather forecast, water balance and plant disease and pest models.



All parameters of the stations and wireless sensors can be configured from the web interface, such as logging interval, data transfer interval, calibration curves.

Every user has personal password protected account.

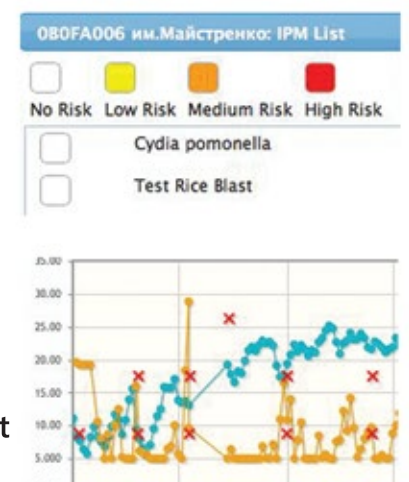
Web application can be installed on customer's hardware.

Stations can send data to 4 different servers at the same time. Servers can be configured by customer.

Different types of warnings can be automatically sent by CaipoWeb. No need to check data every time. Input conditions for frost, heat, disease and they will be automatically detected by the system.

## Disease and pest models

Caipos provides plant disease and pest forecasting software. Main advantage of Caipos pest and disease models compare to similar systems is the possibility of adjusting all parameters for particular climate and crop. Models for rice, wheat, vegetables and fruits have been successfully tested in Western Europe, China, Russia and other climate zones. Customers can input spray information that contains time of spray, chemicals used and period of time, for which this spray will have effect. The model will adjust itself according to spray diary. A warning is automatically sent to the customer when disease and pest probability is high.





# Caipos Products and Services

## Advanced Technologies

Caipos Systems use only latest developments in wired/wireless measurements and data transfer technologies.

## Wide Range

Different wired and wireless sensors can be connected to one base station.

## Ultra Low Power Consumption

Thanks to advanced design and optimized data processing, all Caipos systems have very low power consumption and long time of autonomous operation.

## Internet Enabled

Data is sent via GSM/GPRS to central data platform every hour, or according to the user's settings, or if alarm conditions happen.

## Reliability

Caipos systems can operate in harsh weather and difficult geographical conditions.

## Low Cost

High quality, low power consumption, minimal maintenance make Caipos systems one of best cost effective solutions.

## Central Web Platform

Web application on the central data platform receives and processes data and controls operation of stations. Constant backups make sure that data is always protected.

## Easy and Fast Installation

All devices come pre-configured and ready to use.



Base Station



Wireless Sensor



CaipoRain



C-Kit



Greenhouse Monitoring