



Pessl Instruments Ltd. has for more than 20 years been one of the manufacturers of electronic environmental monitoring systems for industry and agricultural applications. All instruments produced nowadays by Pessl Instruments are using the uniform user platform known as: [www.fieldclimate.com](http://www.fieldclimate.com), which operates on a password protected Internet connection.

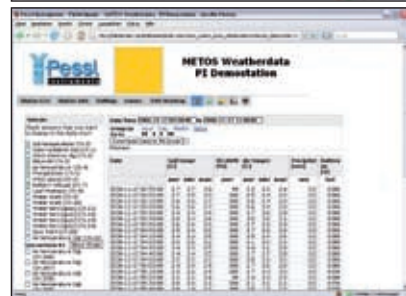
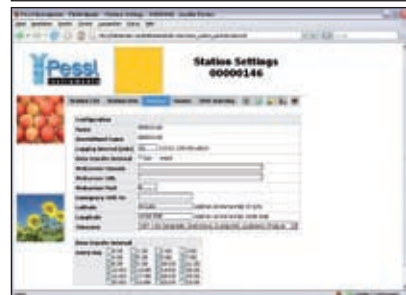
#### Hardware:

- Weather stations iMetos AG
- Soil Moisture Loggers iMetos SM/ECHO/TNS/SENTEK
- Virtual drift monitor iMetos „AOS“
- Vehicle Tracking iMetos TRACK
- Storage Monitor iMetos T-monitor
- Animal Health Monitor iMetos ZT
- Internet Control and Automation unit - iMetos ICA

#### Applications:

- Plant protection, forecast and prognosis
- Irrigation management
- Spray drift warning
- Spray diary
- Frost warning
- Storage monitoring with warning function
- Vehicle tracking
- Flood warning
- Fire warning
- Automation
- Control
- Logistic

Utilising this unique platform, users can benefit from the integration of hardware and instruments of different kinds, using it in applications not possible before. The first product of the iMetos platform was launched in 2005/06 and since that date this platform has become the standard for cost effective and user-friendly monitoring devices for users all over the world. Many thousands of units have been supplied in more than 60 countries. Since 2005 Pessl Instruments has launched a range of new devices using the same platform to perform different applications like: Tracking, Spray drift warning, Storage monitoring and Automation creating a family of devices.



## Application examples for www.fieldclimate.com as an integrated solution:

A weather station located in the field, used for irrigation management and plant disease forecast working with solar energy 365 days a year sends the data at a pre-defined interval to the website www.fieldclimate.com. The user(s) have their individual passwords to access to data in real time and receive all-important information regarding disease risks and water use day by day. This information, coming in real time, is vital for state of the art, environmentally friendly plant protection, water saving, irrigation management (ET, soil moisture information) and also other dangerous situations (frost, flood etc.). Based on the data, management decisions are taken, which can save time, money and protects the resources and environment.

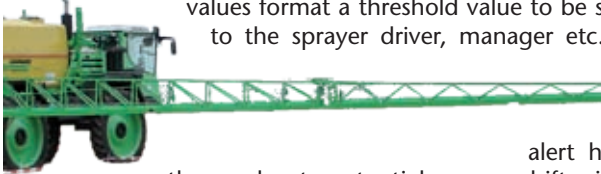
In the case of the same user, or his spray contractor, equipping his sprayer with an iMetos Track the environmental island solutions become an integrated one. iMetos Track supplies data continuously online via GPRS to www.fieldclimate.com where you are informed of the weather during the operation, how much work has been done and when that work is executed.

This is important for the user giving him transparency and security and saving costs due to better pro-active management decisions. Until now this has not been easily available.

If the data from iMetos Track and iMetos AG, two independent units are integrated into a smart database into the www.fieldclimate.com a new virtual device is created: iMetos AOS "virtual" with fantastic new applications.

### iMetos AOS "VIRTUAL"

From the field data of the weather station the following data is used: wind speed, wind direction, temperature and relative humidity. From of the iMetos Track this data is used: GPS position, driving speed, status information of the vehicle, temperature, relative humidity and vapour pressure deficit. www.fieldclimate.com adds to these values information of field size and calculates the real wind speed. These values format a threshold value to be sent to the sprayer driver, manager etc. to

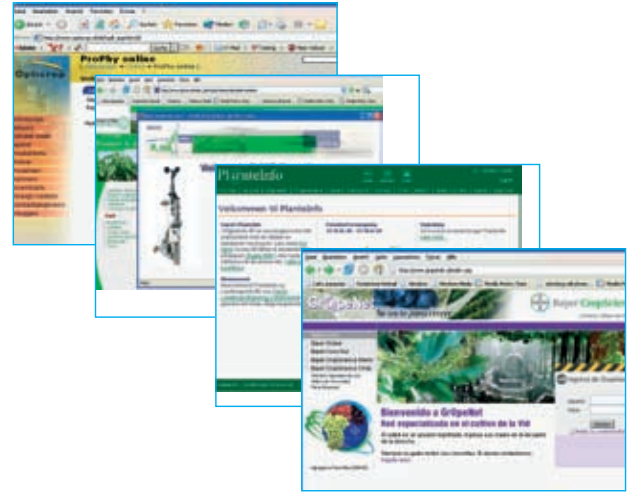


alert him/ them about potential spray drift risks. Alarms are sent to mobile phones or PDAs by SMS. The time delay between threshold trigger and warning is minimal.

At the same time the system is creating all necessary documentation for full traceability regarding "good agriculture practice". The system is scalable at any time and can work in the future virtually with ISO-BUS spray controller in order to make intelligent application maps etc.

Similar applications and integrations are done in other segments of agriculture with regards to animal welfare, storage monitoring (Mycotoxine warning) as well as grain drying systems.

## Open Interface – Integration into your website – we have the solution!



www.fieldclimate.com is an open source development and as such the complete source code is available for system partners free of charge. We are looking for system partners to integrate our solutions in other projects and are encouraging intelligent partnerships. For the integration of data into other web applications we have made several interfaces like: SOAP, XML etc. The current website is available in 17 language mutations. Use of www.fieldclimate.com for clients of Pessl Instruments if free of charge. Many interfaces in program platforms like ProPlant, Dacom, Sentek etc. are available.

Ask us if you would like to become a system partner/integrator with your software or application! We are happy to assist you.

More domains from Pessl Instruments available for specialist applications in connection/collaboration with system integrators:

- www.harvestmonitor.com
- www.driftmonitor.com
- www.plantprotectionmonitor.com

We see in our www.fieldclimate.com page the possibility to be the integrative platform for old and new applications to improve productivity of your business.

Check out the free demo:  
[www.driftmonitor.com](http://www.driftmonitor.com)  
 name: **aos**  
 password: **virtual**

