

# iMETOS VWS Is A Fit For You If:

- **You have a large field with one central iMETOS station** and want weather information for remote parts of the same field, with minimal cost.
- **You depend on specific weather conditions** and want to receive frost alarm, disease modelling and data to make temperature-based decisions, but don't want to spend too much on a real weather station.
- **You already have an iMETOS station** and want more weather information than what the station offers, such as virtual sensors for wind speed, solar radiation, rain gaps, soil, soil moisture and leaf wetness, along with the services for work planning, water management (ET) and disease models.
- **Want to get familiar with smart farming** but don't want to purchase an actual weather station at this point (cooperatives, farmers, farmers groups).
- **You are a farm implement dealer** who wants to give your clients a glimpse of additional premium services with virtual field data.
- **You are an irrigation dealer** who wants to offer clients Irrimet -ET based irrigation scheduling.
- **You work for media or local municipality** and want to support the general public with weather information and local forecasts (using Pessl Instruments API for weather based local services).
- **You are a telecom company** and want to offer premium weather forecast package services to your clients.
- You need weather record-keeping and extreme local weather events for **SmartCity and logistic enterprises**.

## Data Quality

Air temperature	👍
Relative humidity	👍
Solar radiation	👍
Wind speed	👍
Precipitation	👎
Leaf wetness	👎
Soil temperature	👎

With actual case studies, iMETOS VWS is under continuous improvements.

VIEW RESULTS ON OUR WEBSITE:



## Main Features

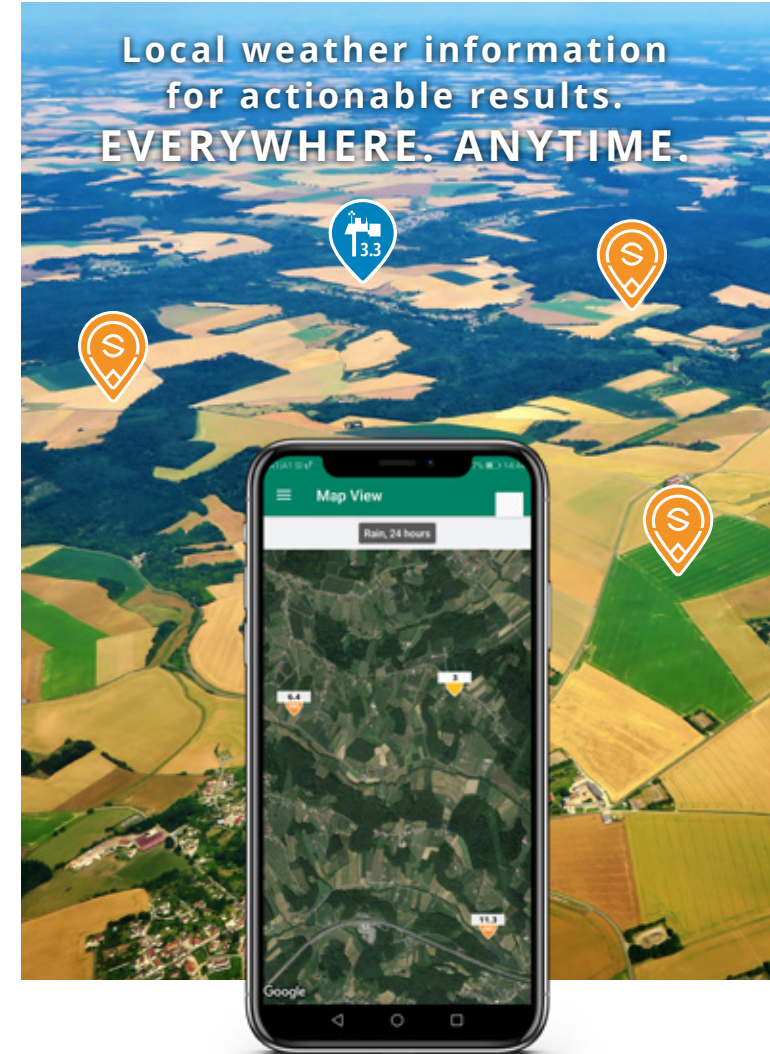
Calculated sensor variables equal to iMETOS IMT300 sensor set: wind speed, solar radiation, soil temperature, air temperature, precipitation, relative humidity and leaf wetness, along with calculated values of ET<sub>p</sub>, vapor-pressure deficit (VPD) and DeltaT.

All data and decision support services are accessible online through FieldClimate platform.



## Virtual Weather Station

Local weather information for actionable results. EVERYWHERE. ANYTIME.



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weather ✨ close to you



# Virtual Weather Data For Your Farm With No Maintenance Costs

## iMETOS VWS

Virtual Stations exist for any point on the earth, for which meteoblue can derive weather data. The data is not the result from an actual iMETOS station measurement, but consists of **simulated data**, calculated by highly reliable meteoblue weather models.

In some terrains, such as flatlands, the calculated data is highly accurate with minimal discrepancies to actual values, such as temperature or precipitation. These are the regions where virtual stations prove to be a great asset.

In cases where terrain is more complex or the discrepancies to actual values are not acceptable because the risk is too high, an iMETOS station needs to be installed.

# The Advantages Of The Virtual Weather Station



**A PERFECT ENTRY INTO PRECISION AGRICULTURE WITH NO MAINTENANCE COST**



**VERY COST EFFECTIVE, SIMPLE TO USE AND ACTIVATED WITH JUST A FEW CLICKS ON THE COMPUTER OR PHONE**



**USER GETS ACCESS TO THE WHOLE FieldClimate SUITE OF TOOLS**



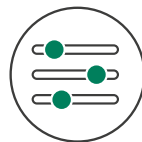
**SEAMLESS INTEGRATION INTO PARTNER MANAGEMENT SOFTWARE (JOHN DEERE, FARMFACTS, 365FARMNET, ...) WITH THE HELP OF OUR API**



**CAN BE ANY POINT ON EARTH - WITHOUT EXCEPTION**



**OFFERS THE SAME RANGE OF SOLUTIONS AS AN ACTUAL WEATHER STATION**

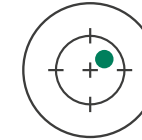


**CALCULATES ALL THE ESSENTIAL PARAMETERS FOR THE MOST EFFECTIVE RESULTS**



**WORKS AS A COMPLETE DECISION SUPPORT SERVICE - PROVIDES WEATHER FORECAST, OFFERS DISEASE MODELS AND HELPS WITH WORK PLANNING**

# How Is It Different From An Actual Weather Station?



**NO ACTUAL SENSORS - SOME DISCREPANCIES CAN OCCUR TO ACTUAL VALUES**



**RAINFALL ACCURACY VARIES FROM SITE TO SITE, DEPENDING ON THE MICROCLIMATE - MANUAL ADJUSTMENTS OF LOCAL RAIN DATA ARE POSSIBLE**



**IN COMPLEX TERRAINS, PURCHASE OF iMETOS STATION FOR ACCURATE RESULTS IS ADVISABLE**

## iMETOS VWS vs iMETOS IoT Station

	Virtual station	iMETOS IoT Stations
Variables	Same parameters as iMETOS IMT300 + soil temperature	Based on sensor set
Precision	Limited	High
Availability	Anywhere in the world	Only where the station is installed
Terrain	Not complex terrain	Any terrain
Maintenance	No maintenance	Regular hardware maintenance necessary
Suitability for high value decisions (frost, water management etc.)	Limited	High