YPSILON – Yield Prediction by Satellite

Crop forecasting became more challenging in the past few years:

- The weather is more volatile (breaking records every year)
- Environmental restrictions in some EU countries (i.e. ban of insecticides)
- Limited availability of trustworthy EU & Black sea public crop data

YPSILON® the answer to crop forecasting in the EU, Ukraine and Russia:

Subscribe to the YPSILON ® **yield forecasting model and crop status monitor for wheat, barley, corn and rapeseed in the EU and the Black sea.** YPSILON ® offers weekly updates on yield forecast, yield deviation from trend, harvest progress, crop status on the webportal **www.ypsilon.services.** YPSILON ® uses satellite data and a physically based crop growth model for independent and reliable forecasts. YPSILON® has been developed by Vista (German based company with more than 25 years' experience in remote sensing technology) in partnership with Cefetra (EU grains and oilseeds trading company).

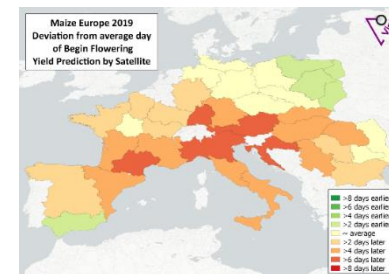| INPUT DATA	PROCESSING	YIELD FORECAST
Among others, satellite imagery, weather data, soil, topography, and agricultural statistics are used for yield forecasting	In order to deliver relevant and up-to-date forecasts, cutting edge cloud technologies are implemented in the remote sensing processing chain	Up to date satellite images and weather data are integrated into a physical crop growth model for yield prediction in tons per hectare

Proof of success:

In 2018 we developed YPSILON®, using the building blocks that Vista-Geo developed in the past 25 years. After our successful pilot project in 2018 we expanded the model to 17 other EU member states + Serbia + UK in 2019. In spring 2020 we launched our product and eventually successfully sold YPSILON ® to the larger trading houses active in Europe. **The backtest results for the period 2017-2020 show that YPSILON ® model forecasted both crop failure and record yields about 2-4 weeks earlier than the average market estimate (see page 2 for proof).**

New features:

This season we will be able to monitor and report main phenological stages of the crop (from leaf development to harvest). Monitoring the crop status could indicate if the crop is running behind/ahead of normal. Therefore, you would be able to judge if the crop is still subject to weather scarce or not. **Furthermore, we expanded YPSILON to Ukraine and Russia and added a download function for crop status and yield forecast data.**

Maize Europe 2019
Deviation from average day of Begin Flowering
Yield Prediction by Satellite

National Product
(17 EU MS + Serbia + UK / Ukraine + Russia)

Regional Product
(administrative districts)

Special offer this season
yield forecasting & crop status on webportal and as download

National product	Wheat	Barley	Rapeseed	All three	Corn *
1 EU country	5.900	5.900	5.900	12.974	5.900
EU 17 + Serbia + UK	29.500	29.500	29.500	64.900	29.500
Ukraine & Russia *	29.500	29.500	29.500	64.900	-

* Subject to minimum order

yield forecasting as download

Regional product	Wheat	Barley	Rapeseed	All three	Corn *
1 district	790	790	790	1.659	790
All districts 1 country	on request	on request	on request	on request	on request

For inquiries, please contact Robert van der Kooy +31(0)641120334

>>> Register at www.ypsilon.services for a free demo <<<

YPSILON – **Y**ield **P**rediction by **S**atellite

CHECK OUT THE FREE DEMO

Selected Examples of Yield Forecast Development Throughout the Season

17 EU MS + UK soft wheat production - 2018

Legend: YPSILON — Market

Wheat yield [t/ha] - Estonia - 2020

Legend: YPSILON — Market

YPSILON Yield Forecast vs. Eurostat Statistics
17 EU MS + UK + Serbia 2017 -2020

Legend: Maize, Rapeseed, Wheat

Wheat yield [t/ha] - UK - 2019

Legend: YPSILON — AVERAGE MARKET ESTIMATE

Rapeseed yield [t/ha] - Poland - 2019

Legend: YPSILON — AVERAGE MARKET ESTIMATE