

oenoview®

A precision tool for the winegrowing industry

Keeping close track of vine growth and identifying inter- and intra-field variations in grape health are a constant source of concern for winegrowers working to produce quality wines.

oenoview® is a new tool from EADS subsidiary Infoterra and Groupe ICV, France's leading wine consultancy institute, designed to help professionals in the winegrowing sector to achieve this aim. oenoview® recently won the Bronze Award for Agriculture and New Technologies at the 2009 agricultural show in Paris.

New remote-sensing monitoring technologies now available enable you to:

- make grape selection quicker and more precise
- understand and control field variations

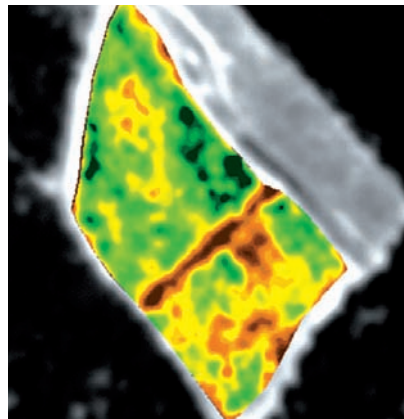


oenoview® is the most reliable and precise tool ever developed for determining the wine-producing potential of vines.

Using satellite or aerial imagery in several spectral bands including the near-infrared, this innovative technology helps you to rapidly establish a clear picture of vinehealth.

Exclusive processing techniques developed by Infoterra and Groupe ICV's engineers are employed to map intra-field variations.

Map interpretation has been refined in partnership with the INRA agronomy research institute and SUP'AGRO Montpellier to obtain a precise view of parameters closely related to leaf area and soil water retention, as well as bunch and grape weight and grape composition at different points within a field.



Green cover fraction derived from a processed image acquired by multispectral infrared sensors.

oenoview® is for...

...winegrowers looking to boost profitability

oenoview® gives you precise maps identifying uniform areas within each field. This means you can adjust pruning, bud thinning, leaf removal and other work on your vines, and organize maturity checking and harvesting to obtain the required grape quality. It also helps to make irrigation more efficient, thereby reducing annual water costs. With oenoview® technology, you are sure to make each field more profitable.

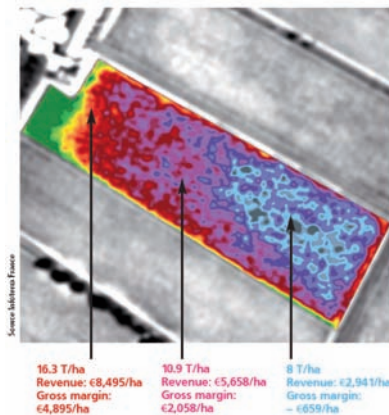
...organizations procuring grapes from a large number of fields

oenoview® gives you an instant, large-scale snapshot of your fields' wine-producing potential and groups areas of comparable quality. Atypical fields with too many gaps between vines or poorly maintained grass between rows are thus identified.

With oenoview® technology, your grape selection is more efficient.

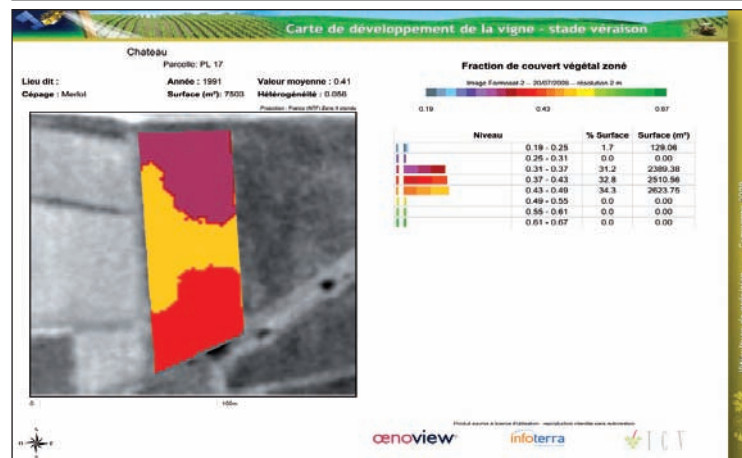
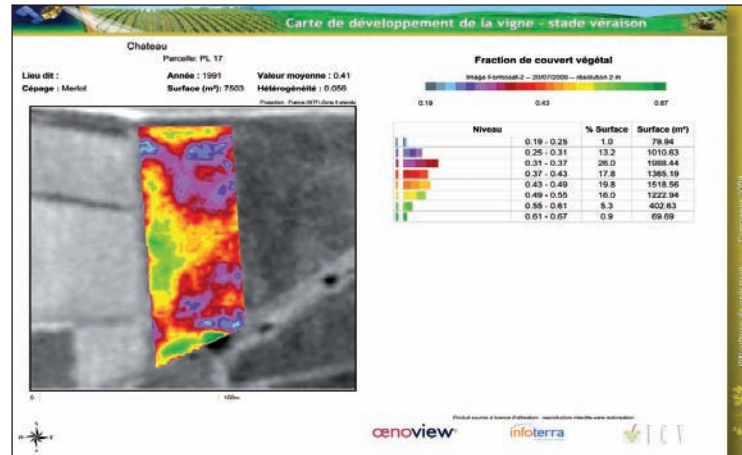
How oenoview® works

- define survey area
- outline fields
- acquire satellite or aerial imagery of the vineyard in several spectral bands, including near-infrared, before grapes start to change colour
- map vine vigour in each field and provide a viewer to visualize raw and processed imagery, maps and all other data on computer in simplified GIS format
- put comparable areas within fields into groups of 2 or 3, providing vinification recommendations and identifying atypical fields



Estimated intra-field yields

A synoptic, objective, large-scale snapshot for monitoring vines at field level



Infoterra

Infoterra, a wholly-owned subsidiary of EADS Astrium, is a leading provider of geo-information products and services that develops solutions across a comprehensive range of markets spanning telecommunications, environment, security, agriculture, defence, energy and many more. Infoterra and Spot Image together form the Earth Observation division of Astrium Services.

Groupe ICV

The Groupe ICV (Institut Coopératif du Vin) is France's leading institute providing wine consultancy and analysis around the Mediterranean, through 10 accredited laboratories. Its main activities are consultancy in oenology, viticulture and quality; analysis of wines and grapes; and products.

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