AgriGeo

Advanced Solutions for Agriculture and Forestry

AgriGeo is the solution for the generation of **products and services dedicated to agriculture** and forestry.

Modern agriculture is driven by continuous improvements in digital tools to face the increasing demand for sustainable food by the Global growing population.

AgriGeo **combines Geoinformation, advanced Big Data and Artificial Intelligence methods** to provide a set of services supporting different needs in the agriculture domain, based on the continuous monitoring and assessment of the evolution of the cultivation for the detection of specific situations that can impact on crop status and production.

Agrigeo goal is to turn data and images into information that **can be browsed and analysed to increase agriculture** sustainability and optimise production and controls.

TO WHOM

- FARMER
- INSURANCE AND BANKS
- FINTECH AND FOOD INDUSTRY
- INSTITUTIONS

CAPABILITIES

- ADVANCED LEVEL OF AUTOMATION
- MULTISOURCE AND MULTITEMPORAL SATELLITE DATA MANAGEMENT
- INTEGRATION WITH WEATHER DATA AND END USER DATASETS
- CLAUD BASED MASSIVE PROCESSING AND INDICIES, INDICATORS GENERATION
- NEAR REAL TIME REPORTS AND DYNAMIC ANALYTICS
- MODULAR WORKFLOWS BASED ON BIG DATA AND AI METHOS

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SERVICES

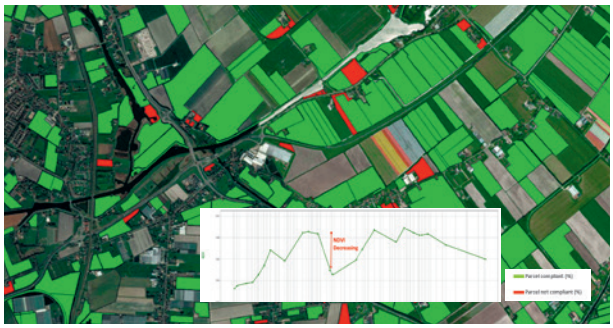
AgriGEO is the solution for supporting agriculture and forestry activities through geoinformation.

EUROPEAN CAP SUPPORT SERVICES

Crop monitoring in support to Common Agriculture Policy -CAP needs massive capabilities to check the crop parcels compliancy for receiving subsidies. AGRIGEO provides continuous satellite monitoring of each parcel along the agronomic season, identifying main agro practices (ploughing, mowing, harvesting) and phenology stage (growing, level of maturity), allowing a correct payment to farmers.

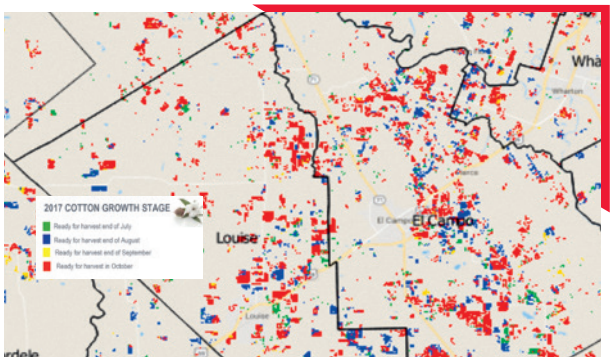
DAMAGE ASSESSMENT AND FIELD VERIFICATION SUPPORT SERVICES

Economic losses from natural disasters are rapidly increasing in the last years. AGRIGEO provides information about main weather disruptive events (**extent maps**) and supports **crop impact assessment**. Moreover, it supports field verification optimization, speeding up any survey, through the e-GEOS GEOTAG application (secure and protected geo-tagged photos) on simple mobile phones.



PRODUCTION MONITORING, RISK ASSESSMENT SERVICES

For evaluating the feasibility of an investment, the vulnerability of a specific area must be assessed. AGRIGEO allows, through monitoring of crop health, historical analysis and trends, the detection of situations that could affect quality and quantity of the production. AGRIGEO provides also specific services for agro-site characterizations.



PRECISION FARMING SUPPORT SERVICES

AGRIGEO is a unique point of access for monitoring each parcel, collecting different data and analysing them. The AGRIGEO services are dedicated to support farmers in their day by day activities, such as providing field variability analysis for treatments planning or early warning on possible infestations, as well as providing support for harvesting time management.

FOREST MONITORING

Based on the use of optical and SAR images, AGRIGEO **supports forest management services** such as: identification of deforestation, afforestation, reforestation (clear cut and changes of high forest or rotational coppice), monitoring of authorized deforestation, rapid detection of illegal cuts, burn scar mapping and damage assessment for forest fires, delineation of crashed tree areas after wind storms.

A SUITE OF SOLUTIONS, BASED ON:

- Generation of massive vegetation indices, through both Optical and SAR (bands X, C and L) observations
- Customised indicators and markers (for crop monitoring)
- Platform architecture flexibility
- Tailor-made service
- Possibility of tailored services
- Web and mobile fruition

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