



Reliable Agricultural Data to Shape the Future

GAF AG meets the need for reliable information in a changing world in support to the whole value chain including farmers, cooperatives, food industry, insurers, investors, traders, banks, agencies and governments.

AgroCrop® is the state-of-the-art solution for the reliable monitoring and evaluation of agricultural parcels. Being part of AgroSuite product family, AgroCrop® combines a longstanding thematic expertise with the synergy of knowledge, technology, and innovation. It facilitates effective agricultural monitoring and supports environmental management, planning and sustainability measures.

AgroCrop® provides robust and reliable information on crop types, agricultural practices and activities and checks the compliance with certain eligibility conditions and specific compensation measures, thus supporting the transformation towards sustainable agriculture.

TO WHOM



**AG VALUE
CHAIN**



**AGRICULTURAL
STAKEHOLDERS**



**INDUSTRIES &
COMMUNITIES**



**INTER-/NATIONAL
AUTHORITIES**

...

**MANY
MORE**

CAPABILITIES



**FULLY AUTOMATED
EO DATA PROCESSING**



**EXTERNALLY
VALIDATED**



**ROBUST &
RELIABLE**



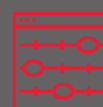
**CLOUD-BASED
FLEXIBLE & SCALABLE**



**MULTI-SOURCE AND
MULTI-TEMPORAL DATA**



**TECHNICAL
EVALUATION**

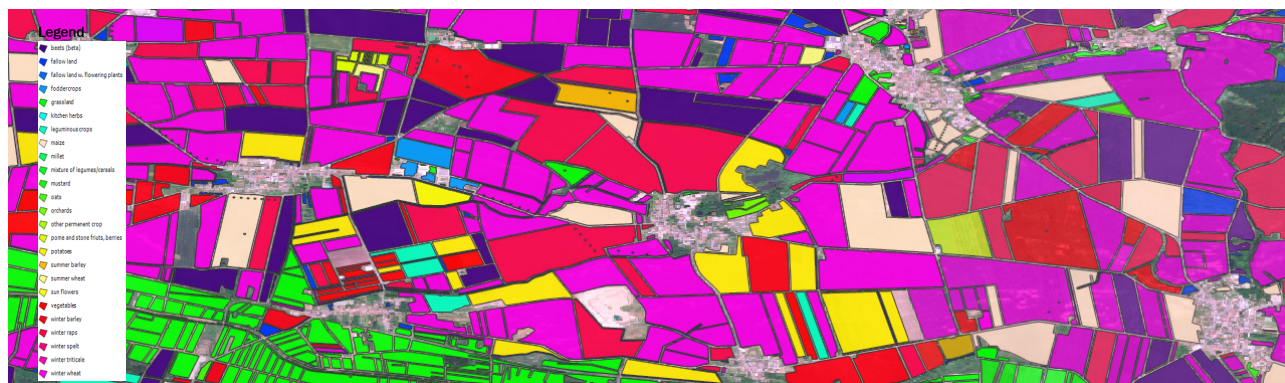


CUSTOMISED

METHODOLOGY

AgroCrop® uses multi-temporal and multi-source data to perform machine learning algorithms and dedicated time series analyses on parcel level. The input data consists of Copernicus Sentinel Data, Planet Fusion Data, Digital Orthophotos, Drone Imagery, Weather Data and Agro-Climatic Conditions.

The synergistic use of cleaned optical time series and radar data in combination with specific plausibility steps ensure the generation of robust and reliable results. All models and algorithms are regionally calibrated by suitable in-situ data.



Copernicus Sentinel Data (2023)

KEY FEATURES

- State-of-the-Art Technologies
- Multi-Temporal & Multi-Source Data
- Crop Classification > 180 Crop Types
- Detection of Agricultural Activities & Practices:
 - Ploughing
 - Sowing & Harvest
 - Mowing & Cutting Frequency
 - Grassland Conversion
 - Homogeneity
 - Land Use Change
- Evaluation of Eligibility Conditions
- Monitoring of Compensation Measures
- Identification of Trends and Patterns
- Flexible & Scalable

Mowing Detection



Mowing detection and determination of cutting frequency



Monitoring of biodiversity and compensation

RELIABLE & VALIDATED RESULTS

Results produced by AgroCrop® are continuously validated by the German Aerospace Center (DLR), providing evidence on the robustness of the applied algorithms and the overall high quality of the results.



AgroCrop® Product Information

For further information please contact agrocrop@gaf.de

© GAF AG, 2023 © David A Litman © kei u © Sauerlandpics © thosti57 © focus finder- stock.adobe.com