



## 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.

With our geospatial solutions, we analyse changing environmental conditions and crop development, provide valuable information on cropped area, yield and soil moisture, identify risks from actual & historic extreme weather conditions, enable production & loss estimates, asset & risk management and support governments in managing agricultural policies.

Access our unique team of cross-sectoral experts including agronomists, geo-technology professionals, application developers, policy & statistics specialists and machine/deep learning & cloud freaks. Reap the benefit from our more than three decades of experience in providing cutting-edge, cost-effective and sustainable geospatial solutions to serve your demands.

## TO WHOM



## CAPABILITIES

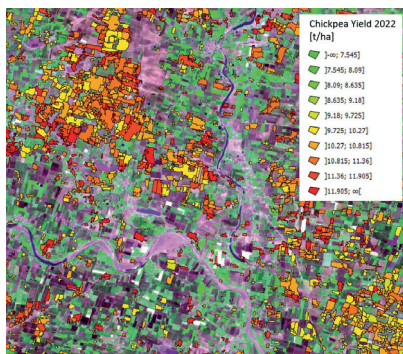


## AgroYield

Assessing yields and respective yield losses is an important task to structure indemnity-based or index-based crop insurance solutions, to safeguard producers which are facing increasingly high production risks, to optimize agricultural productivity, to respond to the need for reliable information and data on agricultural production, to stabilize societies, secure livelihood and facilitate sustainable use of environmental resources.

Our innovative system is designed to support informed decisions through precise yield estimates of arable crops and grassland, complemented by secure detection of cutting events in grassland through our AgroCrop Service.

### METHODS

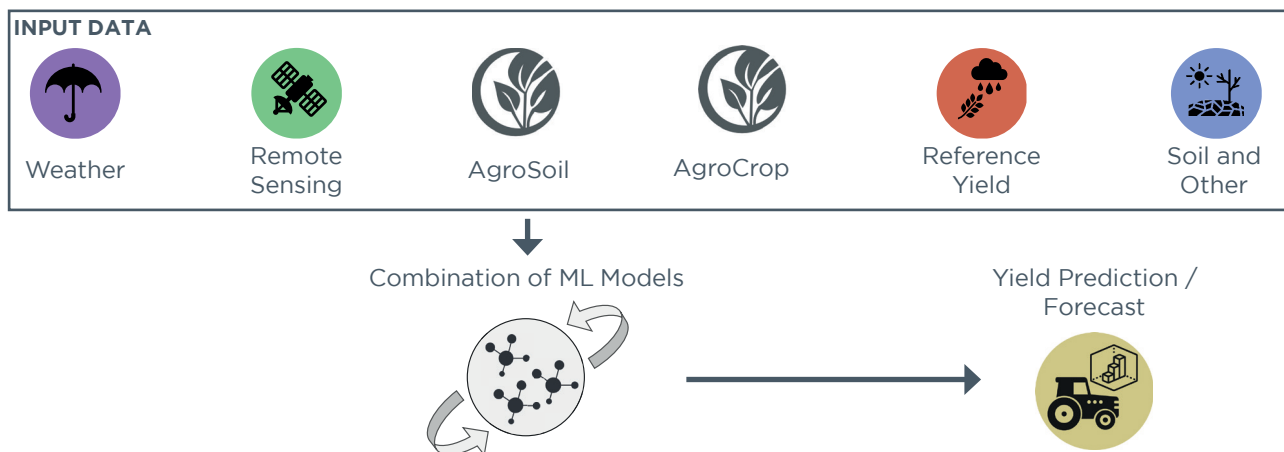


Chick Pea Yield Prediction (India)

A unique combination of soil moisture information down to root level provided by our leading AgroSoil product, optical and radar satellite data, with ability to explain a significant share of crop yield variation independently of eventual cloud cover, historic and actual weather data and reference yield information is analysed by a set of Machine Learning Models.

In contrast to process-based or statistical models, no a-priori assumptions or expert-defined rules are required, facilitating its rapid capacity to scale and predict yields for multiple crops in any agricultural region worldwide.

### WORKFLOW



### CAPABILITIES & KEY FACTS

- Prediction of Arable Crop & Grassland Yields
- Minimal External Data Required
- Fully Automated Process Chain
- Patent Pending
- Private & Public Clients
- Precise & Quality Controlled
- Scalable - Field, Farm, District, State
- Scalable - Multiple Crops & Regions



AgroYield Product Information

For further information please contact [agroyield@gaf.de](mailto:agroyield@gaf.de)

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