



## Organic Plausibility Checker

A service designed by GreenEO UG

Prepared by

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# Introduction

- GreenEO founded in 2020, is a start-up company registered in Darmstadt, Germany
- In 2021, with two other sub-contractors GreenEO started a fully funded feasibility study (FS) under ESA on how to use satellite imagery to prevent organic food fraud
- GreenEO team has more than 8 years experience to process and analyze all kind of earth observation satellite data.

# Feasibility Study Project Objectives

- ❖ To develop services using satellite technology that is viable from a business perspective.
- ❖ To maximize the usage of space assets available including ESA as well as other space technology.
- ❖ To develop services involving stakeholders from the food sector with particular focus on certification processes and supply chain integrity.

# Organic Plausibility Checker Service

- ❖ Organic Plausibility Checker is a web application, helping organic certification bodies to increase their operational efficiency and helping farmers to reduce their certification cost.
- ❖ Organic Plausibility Checker increases the operational efficiency of the organic certification bodies by 30%.
- ❖ It can save 35% certification cost for the organic farmers.

# How It Works

Organic Plausibility Checker service is digitalizing the crop, field and yield data using satellite imagery and here you will find the few steps on how Organic Plausibility Checker service achieve the targeted goals:

- ❖ The Organic field inspector or the organic farmer can capture and submit a geo-tagged photo of his farm to the Organic Control bodies using Organic Plausibility Checker front-end web application.

# How It Works

- ❖ Using the farm co-ordinate data from the submitted geo-tagged photo, the Organic Plausibility Checker back-end API will verify the crop, field and yield data using satellite imagery.
- ❖ The verified crop, field and yield data will be available in the Organic Plausibility Checker Web GIS platform for final visualization.

# Organic Plausibility Checker Backend

