dinosar

Diagnostic tool that INtegrates
Optical, infrared and SAR data

D1.2. Final version of use cases

Date of delivery – 30/06/2025

Authors – Carlos Mosquera,
Corné van der Sande

AgroAp, eLEAF

Deliverable abstract

This deliverable presents the final user use cases and system requirements for the DINOSAR project, which aims to deliver remote sensing–based monitoring tools for the Colombian sugarcane sector. The report consolidates user feedback gathered through structured interviews and focus group sessions held with key stakeholders—including sugar mills, farmers, and researchers—from 2024 to 2025.

The purpose of this document is to translate real-world operational challenges into actionable technical specifications that will guide the development of DINOSAR services. The methodology combined qualitative and quantitative approaches to identify, cluster, and prioritize user needs across roles and organizational levels. The resulting framework consists of 12 consolidated user needs, each mapped to detailed functional and system requirements.

All services are designed to be deployed through the FieldLook platform and are backed by a 14-month in-situ data collection effort. Special emphasis is placed on early biomass estimation, growth trend analysis, mobile data access, and interoperability with existing agricultural systems.

This deliverable ensures alignment between user expectations and technical development, providing a roadmap for creating EO services that are scalable, field-validated, and capable of supporting precision agriculture under complex and data-intensive conditions.

dinosar

Diagnostic tool that INtegrates Optical, infrared and SAR data

Funded by the European Union