



Diagnostic tool that INtegrates  
Optical, infrared and SAR data

## D1.1. Initial version of use cases

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## Deliverable abstract

This document outlines the user requirements for the DINOSAR project, which leverages remote sensing technologies to enhance sugarcane production in Colombia's Cauca Valley. Through stakeholder engagement with mill managers, field managers, harvest managers, and farmers, key needs were identified to improve operational efficiency and decision-making. Current methodologies relying on field inspections are often inaccurate. DINOSAR aims to provide continuous, objective estimates of sugarcane yield and quality using optical and radar satellite data. The project focuses on optimizing fertilizer use, monitoring crop growth, and improving logistical planning, promising substantial benefits in efficiency and productivity for the sugarcane industry.



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