

## ABSTRACT

The palm oil business substantially impacts Indonesia's economic growth, specifically in reducing poverty and generating employment opportunities. This study aims to improve the monitoring and forecasting system for palm oil production and sales by creating an Android application named PalmA.

This program utilizes decision tree techniques and time series analysis to predict palm oil production by leveraging weather data. The research methodologies involve gathering data from PT. Nasaktion Tumbuh Gemilang is utilizing the Open Weather API to acquire up-to-date weather data.

The findings suggest that the PalmA program can precisely assess palm oil output and sales, facilitating enhanced stakeholder decision-making. The installation of this application is anticipated to enhance the efficiency and sustainability of Indonesia's palm oil sector.

**Keywords:** Palm Oil, Prediction, Decision Tree, Time Series, Android