

SOLUTION OVERVIEW

HARVEST FRONT PLANNING FOR AGRO-INDUSTRIES

In the agribusiness industry, the mechanized agricultural system is a strategic point for improving profitability. These mechanized structures – including trucks, harvesters, and tractors – can represent between 20% to 40% of production costs depending on the crop. Whether for sugarcane, soybean, citriculture, coffee, corn, or other crops, integrated planning for harvest and transport logistics can present a significant cost savings.

Frequently, agro-industries, especially mills, plan and design their mechanized structures using spreadsheets. Spreadsheets are typically manually populated by end users based on subjective premises and experiences from historical events. Values are not dynamically updated and are often based on an inconsistent set of variables, which can lead to inaccuracies that impact final results. These inaccuracies are costly, particularly with larger harvest fronts.

Furthermore, the lack of detail and data segmentation on mechanical availability makes it challenging to analyze the key cost drivers, and then leverage these indicators during the plan and design process.

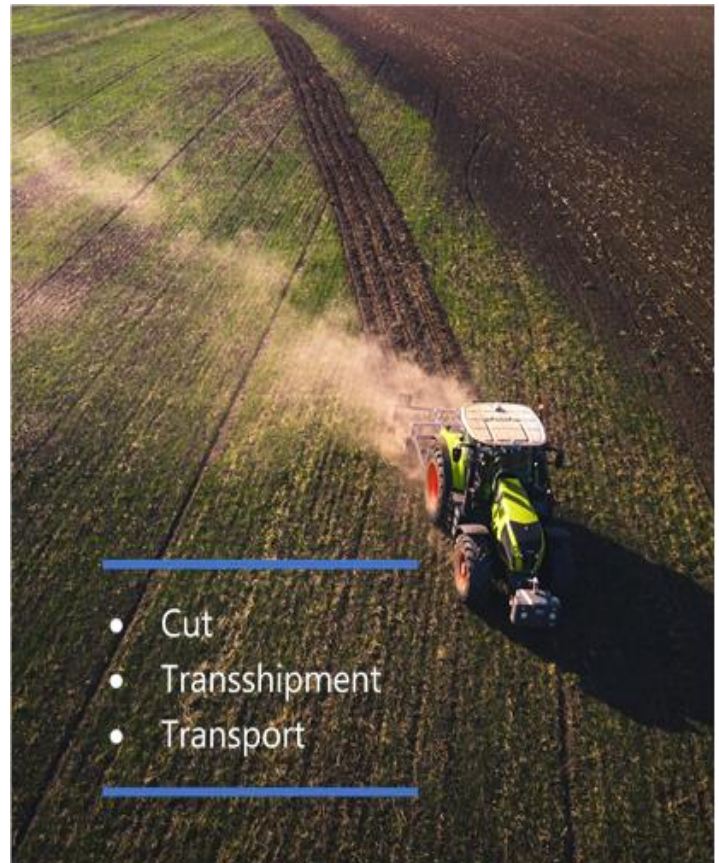
- Are you monitoring the average radius during the harvest year and considering its impact on the number of trucks?
- What is the relationship between availability and the age of the equipment?
- Are there groups of equipment that have the same operational behavior?

Operational and economic planning is a fundamental support tool for evaluating mechanization costs. This is essential for anticipating and analyzing the expected results to assist in effective decision making.

HARVEST FRONT OPTIMIZATION

The Keyrus harvest planning solution helps you plan dynamically, discover patterns, and anticipate demands. This solution is built on **Anaplan's** flexible, extensible, in-memory platform for connected planning. It combines tactical planning – leveraging a consistent set of variables at a high-resolution level of detail – with aggregated views of the business.

Empower your key decision makers with visibility into real-time integrated changes. Empower them to collaborate to orchestrate harvest and transportation resource allocations that maximize production and reduce cost.



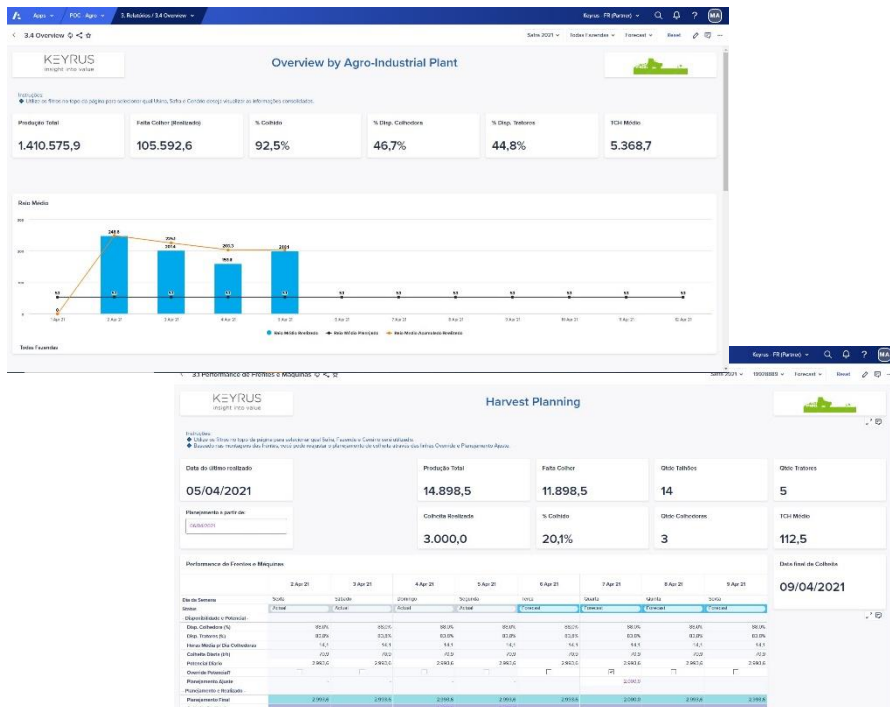
KEYRUS

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Ideal for larger harvest fronts such as sugarcane, soybean, citriculture, coffee, and corn, the Keyrus harvest planning solution optimizes mechanized structures and reduces the operational impact at the plant:

- + **Reduce idleness** in the industry due to compliance with the macro plan for agricultural equipment
- + **Optimize fronts** with the mechanical availability curve by providing a balance of similar productivity
- + With the **balance of the average age** of the fronts, a possible corrective maintenance (unexpected break) may have less impact on the overall productivity of that front
- + **Estimation of actual harvest potential** for the purpose of bonuses and rewarding employees through reaching the potential and not the maximum daily productivity



KEY FUNCTIONALITY

Data Integration

- Primary sources that originate the entire mechanized structure
- Historical data & operating budget: productivity and registration of fields, equipment production, mechanical availability

Harvest Planning and Design

- Form harvesting fronts based on equipment characteristics and harvest potential of the plots
- Form harvesting fronts that obey a previous user experience, e.g., average age of the fleet and the daily harvesting potential
- Analyze operational indicators (e.g., average radius) to estimate the impact at the end of the harvest
- Estimate the real potential of the front harvest based on the TCH curve by cutting speed
- Ability for users to manually resize the mechanized structure
- Sequence harvest of plots based on individual productivity
- Generate scenarios based on realized data

GET STARTED NOW

Contact us to learn more or see a demo of this solution

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