

PRECISION AGRICULTURE

CASE STUDY



ELECTR•NO[®]

Connoisseur Alliance

Our client operates primarily in the field of information technologies, focusing on providing software solutions and services. Our client is a prominent agricultural enterprise specializing in the cultivation of various crops across large-scale farmlands. With a focus on maximizing crop yield and sustainability, they sought innovative solutions to optimize their cultivation processes.





Navigating Client Challenges

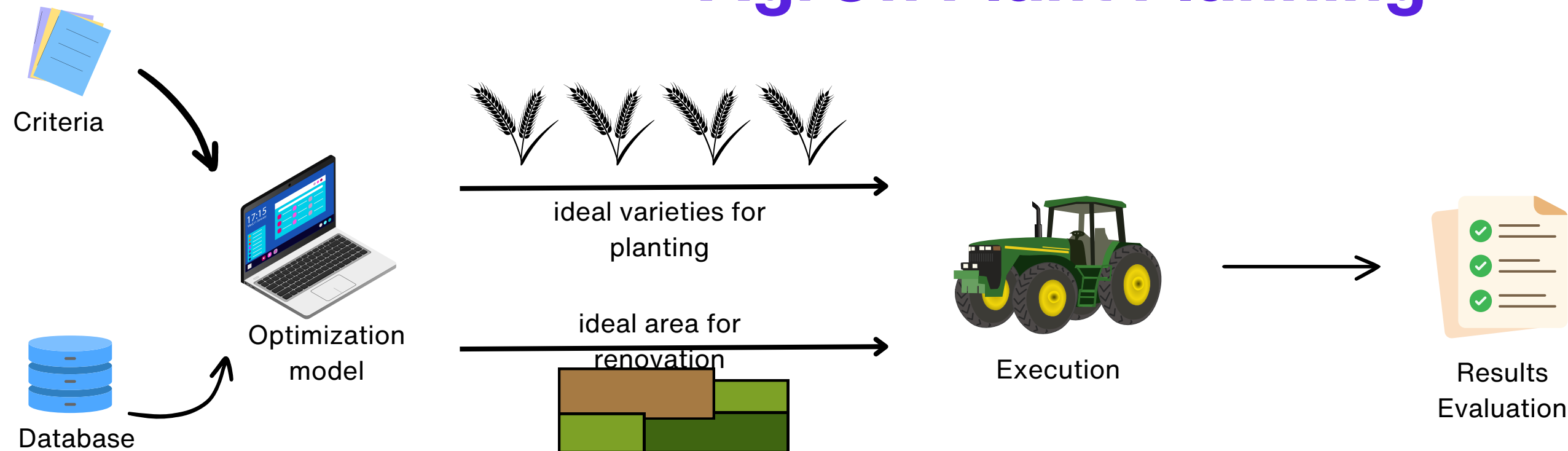
- Inefficient planning and execution leading to suboptimal resource utilization.
- Difficulty in meeting production targets and managing long-term cultivation strategies.
- Lack of real-time monitoring and control over cultivation processes.
- Ineffective logistics management resulting in delays and inefficiencies.
- Inaccurate application of inputs leading to waste and reduced crop quality.

AgrOn Expansion Planning



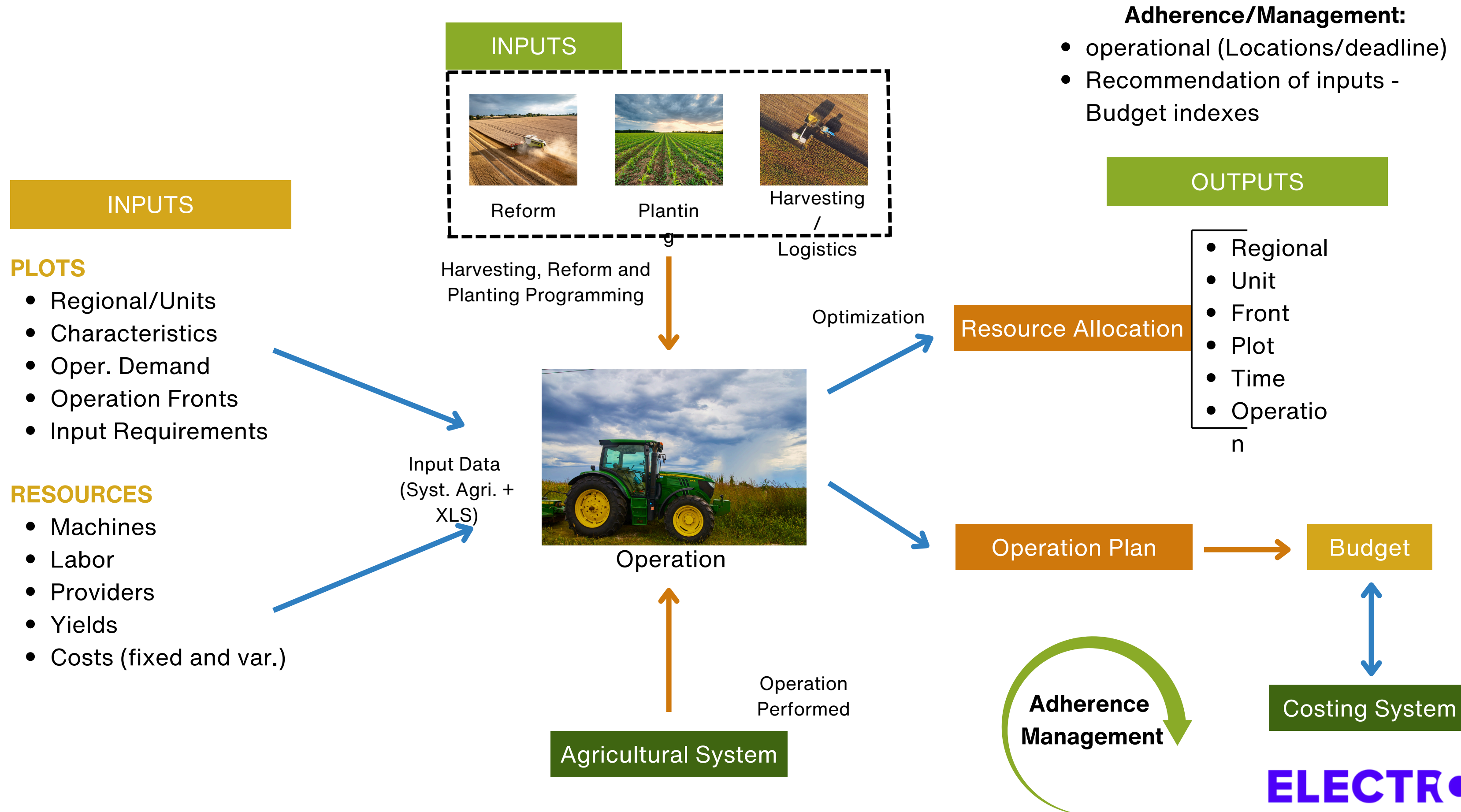
- Enables optimal programming by production environment.
- Performs the production projection for the medium/long term.
- Base for sizing investment.
- Allows the costs of agricultural operations to be scaled.
- Exclusive for sugarcane operations

AgrOn Plant Planning

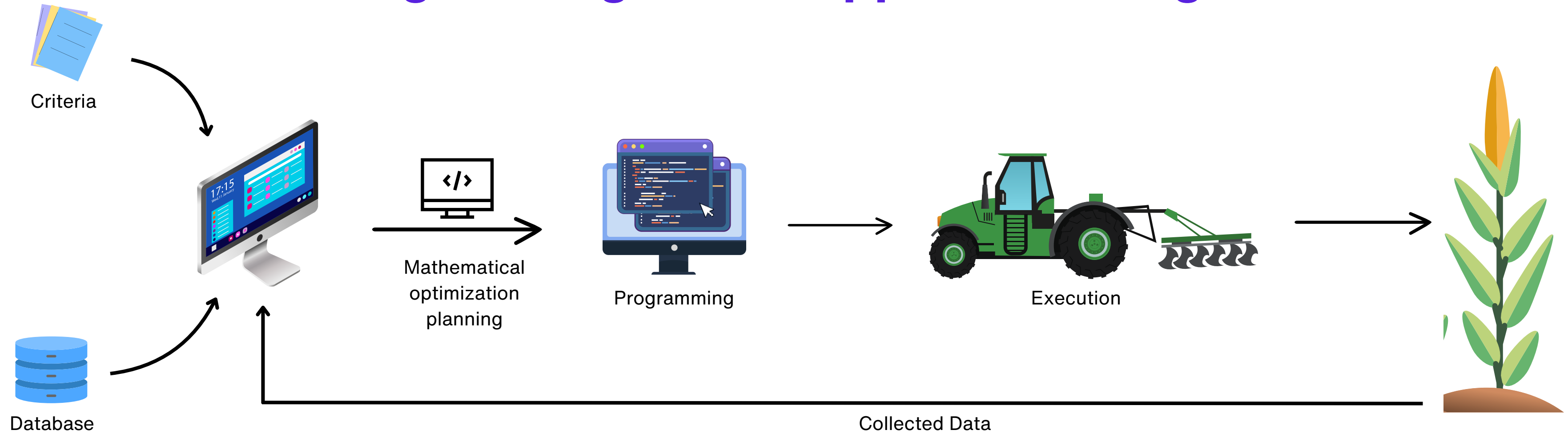


- Recommends the ideal plantation and cultivation strategy with the lowest costs.
- Indication of sugarcane varieties, places and times for planting and expansion of the cultivation area.
- Selects ideal varieties to suit the characteristics of each planting site.
- Simulates falls and production simulations for the next harvests or cycles.

AgrOn Operation Planning

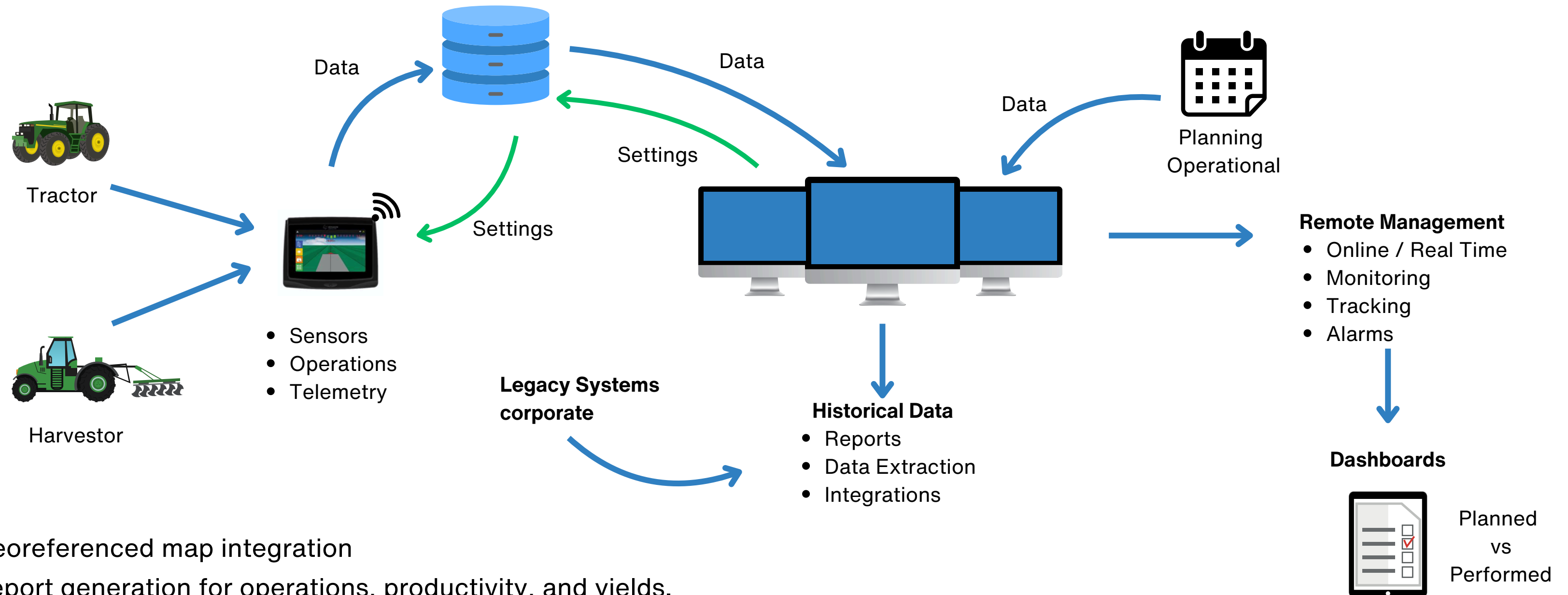


AgrOn Logistics Support Planning



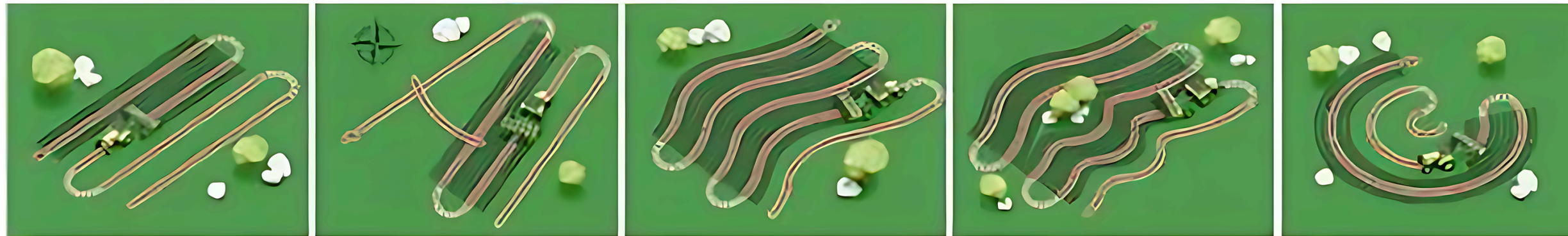
- Generates daily itineraries for fleet.
- Enables dedicated and optimized models of the convoy, workshop, board and winch truck vehicles.
- Reduces the total mileage driven by optimal sequencing of routes.
- Increases total availability of production machines.
- Controls driver work days in accordance with labor restrictions.

AgrOn Control Room



- Georeferenced map integration
- Report generation for operations, productivity, and yields.
- Detailed logging of operation start and end times.
- Notifications for maximizing efficiency.
- Continuous monitoring of planned versus executed activities.
- Decision trees for standard procedures
- Compatibility with Ti5 and Ti7 displays.
- Add-on modules for cultivation, soil prep, and planting operations

AgrOn Guidance and Auto Steering



Line

Line +
Heading

Parallel
Curve

Adaptive Curve

Pivot



Map Upload



Operation



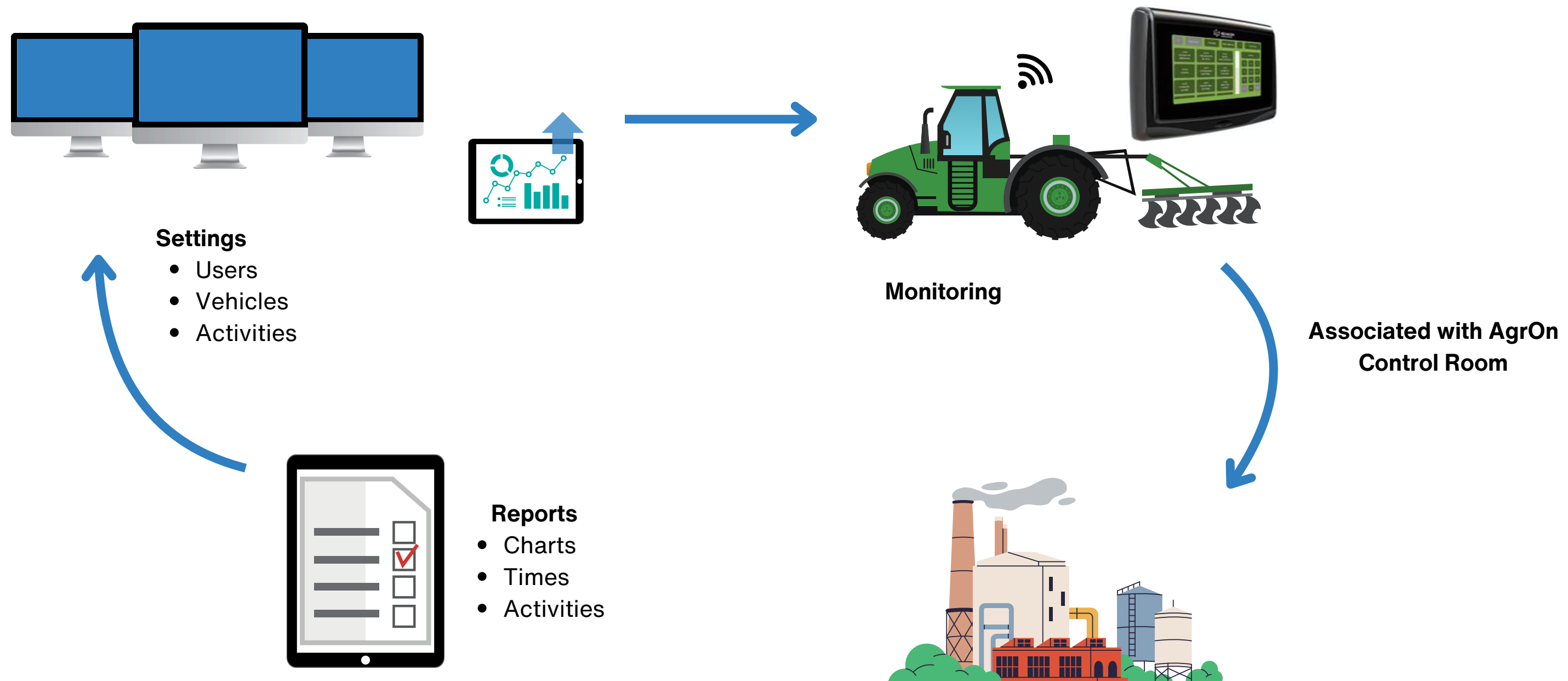
Record

- Operation performed.
- Lines of work
- Marketing points



- Accuracy in all modes of operation - straight, curved and pivot
- Includes multiple orientation options
- Loads map into system and enables control over the applied area
- Allows marking objects on the map to improve orientation in low visibility
- Integrated with the Ti5 or Ti7 display
- Has the additional Remote Access module

AgrOn Machine Monitoring



- Machine parameter monitoring including RPM
- Automated time tracking with rule-based classification
- Downtime monitoring with intuitive reason indication
- Integration with existing or custom sensors
- Configurable alarms for sensor data and operator input
- Real-time data capture in collaboration with AgrOn Control Room



Benefits

- Increased productivity and yield through optimized planning and execution.
- Reduced input costs and waste, leading to improved profitability.
- Enhanced operational control and real-time monitoring for timely intervention.
- Improved quality of cultivation and logistics management, ensuring uninterrupted supply.



Conclusion

By implementing our comprehensive solutions, the client was able to overcome their challenges in cultivation effectively. The integration of advanced technologies enabled them to optimize their processes, increase productivity, and achieve sustainable growth in the highly competitive agriculture industry. With enhanced control and visibility across their operations, the client could make informed decisions to drive efficiency, profitability, and environmental sustainability in their sugarcane cultivation endeavors.



Get In Touch

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