

RESEARCH OF THE EFFICIENCY OF OPERATIONAL MANAGEMENT IN AGRICULTURAL FARMS THROUGH THE USE OF AGRICULTURAL EQUIPMENT FLEET MONITORING SYSTEMS

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Abstract

When it comes to managing a fleet of vehicles and machinery in the agricultural industry, a manager's main concerns are the productivity of the fleet as well as the drivers, efficiency and reducing maintenance costs. Precision agriculture refers only to the use of advanced technologies for carrying out agricultural works. That is why it cannot characterize the whole formed by an independent agricultural system. Precision agriculture is a subsystem especially of the sustainable and ecological agriculture systems, but also for the intensive agriculture system. Thus, thanks to the use of information and technology in crop management, it is possible to achieve: monitoring of works on each plot; guidance or self-guidance; precision. Precision agriculture encompasses a set of technologies that combine sensors, information systems, improved machinery and management to improve production. In order to ensure the food supply for the future, adequate quantities and quality of agricultural products are needed. In addition, the ability to track food products from production through processing, storage and retail sales offers the opportunity to respond to changing market conditions, to provides elements for a correct and healthy nutrition.

Key words: monitoring systems, operational management