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# Automated information system in the field of economy Agriculture

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**Annotation** . Currently, the problems of farm management and management decision support are urgent. At the same time, the problems of creating and delivering excellent software based on the capabilities of modern information and communication technologies in educational institutions, and developing effective methods and tools for creating such programs are considered a very urgent problem.

**Key words** : automation, hardware, control, telex,

Today, farm automation is one of the trends in the technological development of world agriculture. The directions of automation in agriculture are different - technological and software, and IT solutions for them have arrived in our country. IT has no match for the speed of technology development. Currently, the state is spending a lot of money on automation of work, and robot farmers are being actively created to replace people who are retiring due to their age. Today, about twenty types of robots are working in the field of agriculture.

GPS-enabled tractors are capable of determining and calculating the coordinates of plowed land, areas and soil conditions while moving around the fields. The drone tractors themselves suggest when to fertilize the soil. An exoskeleton has been created for farming communities, with which a person on the farm can carry heavy loads alone.

Automation of farms today is not a fashion trend, but an urgent need. It is clear to everyone that it is difficult to achieve great milestones or at least to achieve profitable farm production, given the control on paper and in the form of a foreman. Automation provides three main advantages - saves time, reduces costs, reduces production costs.

Farms that implement automation in a complex, such as modern technical developments, adoption of automated devices and lines, use of new scientific methods, as well as introduction of process automation software, show the best results. Thus, it is quite difficult in terms of choosing software for farms - there are many developers, different programs. When choosing automation software, farmers rarely think about what exactly they want to get, what the software is actually supposed to do.

With the help of automation, work and documents in the farm will achieve a high level of control, this system will not contain random data and will be able to form a truly effective team. He begins to work on the basis of an analytical approach to solving existing problems on the farm, because any statistics and indicators are visible to the manager at any time.

Automated workplace (AIJ) - appears as a set of information, software and technical resources that provide the user with the development of information and the automation of management tasks in a specific problem area.

The main activity of the office (office) is to process information for the purpose of decision-making. Organizational policies are formed at different levels of offices and from there the management carries out day-to-day operations. In the office, information is collected from departments and the external environment, meetings and



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meetings are held, and decisions are made. Because the office is a form of organizing management work, improving its work is one of the conditions for increasing the efficiency of the work of the management apparatus.

elements in any management apparatus , and providing the operation of this apparatus with various tools and personnel requires a lot of money. For example, according to the data of the National Computing Center of England, the costs of the management apparatus make up 45-50% of the company's costs, of which: managers - 46 %, specialists - 33%, secretaries - 7% . As a result of the research, the distribution of working hours of the employees of the management apparatus is determined. For example, the manager spends 60% of his time on conducting interviews, meetings and other events, specialists - 33%, employees - 12%, secretaries - 6%. The rest of the time is spent working with data. There are more than 30 types of work in the control apparatus, in which document processing is the main one. Among the types of work, the following can be distinguished; establishing communication within the enterprise and with other organizations, searching for, gathering and processing information, analyzing and finding solutions , managing organizational activities, providing services, etc. In general, the services of the control apparatus can be divided into three types; working with documents, communication and decision making. For this reason, modern information technologies help to carry out the above tasks effectively . For this, 15% of the time there is a chance to win .

In order to automate the operation of the control apparatus, first of all, systems that perform various tasks with documents are needed, that is, it is necessary to turn the "paper" operation into a "paperless" electronic system.

the electronic system is that it reduces the costs of working with texts. For example, data processing costs can be reduced by 60% as a result of replacing cards with electronic files, and another 40 % can be saved as a result of establishing electronic communication . For this, the control apparatus should be provided with modern technical means .

years ago, the control apparatus was provided with mechanical or electronic machines , telephones , telexes and photocopiers . Currently, it is provided with the following technical means ; computer , software tools, Printing device, photocopying , faxing, teleconferencing and a number of other tools . As a result, the costs of searching for information, editing text and performing other tasks have been reduced. Information is delivered to users at different distances in a short time .

To sum up, the activities of the employees of the management sector (accountants, specialists of the credit banking system, managers , etc.) are aimed at using currently developed technologies . The organization and implementation of management tasks require a radical change in both the management technology itself and the technical means of information development, among which personal computers occupy the main place . They are increasingly turning from systems of automatic processing of incoming information into tools for deploying the experience of management personnel, analyzing, evaluating and selecting the most effective economic decisions.

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# ERGONOMICS IN CAR DESIGN: A JOURNEY TOWARDS DRIVER AND PASSENGER COMFORT

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**Annotatsion**

In the world of automotive design, performance and aesthetics have long taken the spotlight. Yet, beyond the gleaming exteriors and powerful engines lies an equally vital aspect—ergonomics. The science of ergonomics focuses on creating products and environments that enhance human well-being and performance. In the realm of cars, it's about crafting vehicles that prioritize the comfort and safety of drivers and passengers. In this three-page article, we delve into the world of ergonomics in car design, exploring how it shapes the vehicles we drive and ride in.

**Keywords:** ergonomics, car design, human-centered design, driver-centric design, user interface, vehicle interior, adjustable seating, safety features, user experience, comfort in cars, vehicle customization, technological advancements in cars, sustainability in automotive design, user feedback, driving experience, interior, layout, automotive safety, personalized car features, ergonomic controls, autonomous driving.

**Аннотация**

В мире автомобильного дизайна производительность и эстетика уже давно находятся в центре внимания. Однако помимо блестящего внешнего вида и мощных двигателей скрывается не менее важный аспект — эргономика. Наука эргономика фокусируется на создании продуктов и сред, которые улучшают самочувствие и производительность человека. В сфере автомобилей речь идет о создании транспортных средств, в которых приоритет отдается комфорту и безопасности водителей и пассажиров. В этой трехстраничной статье мы углубляемся в мир эргономики в автомобильном дизайне, изучая, как она формирует автомобили, на которых мы ездим.

**Ключевые слова:** эргономика, дизайн автомобиля, дизайн, ориентированный на человека, дизайн, ориентированный на водителя, пользовательский интерфейс, салон автомобиля, регулируемые сиденья, функции безопасности, удобство использования, комфорт в автомобилях, индивидуализация автомобиля, технологические достижения в автомобилях, устойчивость автомобильного дизайна, пользователь. обратная связь, впечатления от вождения, интерьер, компоновка, автомобильная безопасность, персонализированные функции автомобиля, эргономичное управление, автономное вождение.

**Annotatsiya**

Avtomobil dizayni dunyosida ishlash va estetika uzoq vaqtdan beri diqqat markazida bo‘lib kelgan. Biroq, yorqin ko‘rinish va kuchli dvigatellarga qo‘shimcha ravishda, bir xil darajada muhim jihat - ergonomika mavjud. Ergonomika fani inson farovonligi va ish faoliyatini yaxshilaydigan mahsulotlar va muhitlarni yaratishga