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4.2 Integrated information systems for management of agricultural enterprises of Ukraine

Conditions of global competition, growing societal requirements for product quality and environmental friendliness, encourage Ukrainians agricultural enterprises to seek various means to improve the efficiency of production and marketing activities. One of the obvious ways is adaptive management and rapid response to changes in production and market factors based on reliable and timely information. Currently, this is possible due to the use of modern management methods, computer information systems, special business and mobile applications.

It is known that the larger the scale of the enterprise, the more information is needed to manage it. Therefore, farms and small agricultural enterprises mainly use accounting automation systems to compile mandatory financial and tax reporting, as there is no need for an automated system to calculate several units of equipment.

For great enterprises with a large number of structural divisions, including geographically dispersed, it is very important to streamline information flows to coordinate the decisions of management at all levels and structural units and the actions of employees. This is possible through the formation of integrated information systems, which combine specialized, namely automated accounting systems, production process management systems, trade and warehousing systems, etc., into a single complex.

Domestic and foreign scientists have paid enough attention to various aspects of the functioning of integrated information systems (IIS). Among them Guzhva V. M, Ilyenko R. V, Hopkins D., Morehart M., Sokol K. M., Plekhanova G. O., Riznichenko L. V., Rybalko L. P., Tatarchuk M. I., Titova O. P., Udovik A. S., Ushakova I. O. But not enough attention was paid to the analysis of software solutions for the agricultural sector, which determined the purpose of this research.

The key properties of IIS are the modular principle of construction, inheritance of systems of different profile, integration, long life cycle software, scalability, use of equipment of different generations and quality characteristics, etc.

The modular principle of construction allows completing the system for your own needs and the ability to gradually increase functionality.

Under the integration of information systems understand the combination of a single whole subsystems and components of different systems in order to form the information space of the enterprise. That is, the purpose of integration is to combine information arrays and business process automation programs. There are several types of integration in integrated systems: vertical (between management levels), horizontal (between production units) and information (at the level of databases and knowledge bases).

System integrators solve the problems of integration of various specialized enterprise management programs, namely specialists and firms that analyze the software used, evaluate the software available on the market and based on the tasks and financial capabilities of the client, offer a set of hardware and software, configure programs and transition modules, train employees.

The term "corporate" is often used in Ukrainian educational and scientific publications, thus emphasizing the scale of the tasks to be solved and the approximate consumer of the product.

In world practice, the recognized international standards in the construction of integrated systems in recent years are ERP, ERP II and CSRP. ERP – Enterprise Resource Planning includes modules: procurement, sales, orders, supplies, accounting, human resources, fixed assets, warehousing, business planning, etc. In ERP II – Enterprise Resource & Relationship Processing in addition to the previous expanded capabilities for manipulating external relations based on Internet protocols, including benchmarking subsystems (information about competitors) and CRM – Customer Relations Management. CSRP – Customer Synchronized Resource Planning involves the inclusion of the customer in the business planning system of the enterprise.

Recently, the term EAS – Enterprise Application Suite has become widespread. One of the reasons for this was the widespread use of Data Mining technology and Business Intelligence (BI).

In the practice of using integrated information systems, there are two main ways to create integrated information systems: acquisition and self-development.

According to the scale of the tasks to be solved, integrated systems are divided into several groups: small (1C), medium (Galaxy, Parus, Microsoft Axapta, Microsoft Navision) and large (SAP R / 3, Oracle Applications, Baan IV).

Acquisition and implementation of ready-made solutions. This is quite a costly and time-consuming process, which requires the integration of the implemented information system with the organizational structure of the enterprise and the possible reengineering of his business processes.

Integrated information systems on the market are represented by foreign, Russian and domestic developments.

Among the big integrated systems the most widespread in the world and in Ukraine are the developments of companies: SAP AG, Oracle, Infor Global Solutions, J.D. Edwards & Co, PeopleSoft and Platinum. The proposed libraries of functional modules allow you to complete the system on a single platform, removing the problem of data compatibility. The main users of large IIS in Ukraine are the industrial, energy, trade and telecommunications sectors.

Ukrainian agricultural enterprises are offered a specialized solution based on SAP Business One. The system includes modules: Basic registers, Equipment, Crop production, Livestock, Specialized industry solutions (Cotton, Coffee, Fisheries), Maintenance of machines and mechanisms, Manpower, Stocks and supplies, Planning and cost [107].

Agricultural enterprises of Ukraine use software products of mainly Russian origin in the construction of enterprise management information systems, which is due to the aggressive distribution policy of companies (especially 1C products) with a branched structure of implementation centers and a common historical past and lack of language barrier. Between the Russian-language and English-language interface and lower costs, the first choice will be the obvious choice for the average user.

One of the first Russian products for agricultural holdings were ERP-systems "CPS: AgroHolding based on 1C: Management of the production enterprise" (CenterProgramSystem) and "1C Agricultural Enterprise" (Voronezh).

CenterProgramSystems offers 1C: Enterprise 8. Agricultural Enterprise Accounting and GeoGovernment Geographic Information System (GIS) on the 1C: Enterprise platform for the agricultural sector. Among the company's clients are domestic Veres Group of Companies, AGROTRADE Group, Freedom Pharm International, UkrTransAgro LLC, Zelena Dolina Agrocomplex, Agricor Holding, Agrodin JV LLC, international with production areas in Ukraine AS Trigon Agri Group and SigmaBleyzer [108].

In response to the state's restrictive sanctions against Russian software, IT-Enterprise offered Ukrainian MASTER: Agro for agricultural enterprises in 2015. Like all ERP-based IT products, the system consists of interconnected functional modules that cover management, accounting and organizational functions. Agricultural components of the system are represented by modules: Crop production, Livestock, Transport, Land lease. Specialized add-ons MASTER: Technical and economic planning, MASTER: Threshing floor and MASTER: Agronomy contribute to the expansion of crop management functionality [109].

It should be noted that the system is offered in stationery and cloud solutions. The latter helps reduce equipment and administration costs, but will not allow adjustments to be made to the system. For the most part, cloud-based solutions of this type are unacceptable to large data security and control companies. For farmers and small agricultural enterprises, the deterrent is mainly the financial aspect.

The advantage of using domestic developments is full compliance with national accounting standards and timely updating of the system (adjustment by the developer of software algorithms) when changing legislation.

Independent development of an integrated information system is an extremely complex, time-consuming and costly process. Even with an information technology division, this method is inefficient for this class of systems, as the market advantage of

IIS market leaders is the use of SMART components, namely intelligent components and science-intensive algorithms in data analysis and decision support.

In our opinion, the most promising is a combined approach, when the company combines different standard systems and creates insufficient subsystems to solve its own specific problems.

An example of this approach is the experience of AgroGeneration, which did not find in the market programs for automation of relationships with shareholders, and therefore in 2011 developed a management system of contracts with shareholders "Land Accounting", which included a document management module on platform 1C: Enterprise 8. The next step was to create a management system to display the spatial characteristics of land on the ArcGIS platform. To automate settlements with shareholders in the accounting system, a subsystem "Accounting for land resources" was created in parallel, which combined financial and management data. External information resources are also used in the information system of the enterprise. In particular, the control of land use accounting data is carried out on the basis of free images from the Landsat 8 and Modis satellites [110].

An important feature of integrated information systems is their configuration depending on the needs of the enterprise. Thus, in the agricultural holding "Ukrlandfarming" the integrated information system of production process management includes: in the field of distribution and transportation the Tele Track system for monitoring the location and operation of road transport; in crop production, the equipment of the precision farming system Auto Track from John Deere - for compiling programs for growing in specific areas, managing field units, generating reports; at processing plants and elevators weight control system [111].

In summary, the success of the implementation and use of integrated information systems largely depends on the interest of management and the willingness of professionals to work with information and use and develop software products, namely the availability of information culture.