

COMPUTERIZED WAREHOUSE MANAGEMENT SYSTEM

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Аўтаматызаваныя сістэмы кіравання сховішчамі шырока распаўсюджаны ў эканамічна развітых краінах. Прыводзяцца аргументы за неабходнасць выкарыстання падобных сістэм ў эканоміцы Беларусі.

The report is dedicated to Computerized Warehouse Management System(CWMS).

It is a planning system, which is based on computer facilities and economy-mathematical simulation methods. It supervises the processes of acceptance, storage and distribution of warehouse commodity-material assets.

The CWMS operates all warehouse cycle in real time. It provides the exact information on current conditions in a warehouse. The CWMS operates personnel and machinery work in a warehouse, supervises freight and moving warehouse mechanisms on the territory of a storehouse. The loaders and storage workers are equipped with the radio terminal portable computers, which are transact with the host radio channel system computer. The system automatically selects places of the storage for the accepted cargoes and formulates tasks for the storage staff. Each worker receives individual tasks on the radio terminal's screen performed in elementary stage-by-stage commands. If a storage house is equipped by stoke-coding system the accomplishment of tasks must be confirmed by scanning of a bar code from the labels on the storage places and the goods, which have arrived.

The CWMS is widely embedded in Europe. There are numerous companies, which deal with settings for any custom-made software

adapted for warehouse's peculiarities (IND Mobile Detensysteme GmbH, Ehrhardt+Partner GmbH & Co Kg, Bertello S.p.A., Savoye, ECOLOG Logistiksysteme GmbH, etc). Germany is considered to be the leader in development of CWMS software.

Since 2001 CWMS has been used in Russia. The program Exceed WMS has an opportunity to support Voice Picking and the module of planning of warehouse resources as well as the graph module of warehouse optimization is in a comparative great demand because of its capabilities:

- to improve utilization factor of storage by 40%;
- to increase work efficiency and productivity of staff and mechanisms by 25%;
- to reduce errors on cross-picks by 7.5 times.

In Belarus the CWMS is not used because of the following facts:

- the infrastructure in the sphere of circulation (supply, production, transportation, distribution, demand, and consumption) is weakly developed;
- low foreign commerce level;
- high costs of a foreign equipment and CWMS software because investigations in this sphere do not take place in our country;
- lack of a qualified staff for warehouses supplied with CWMS.

Because of the need for solutions to these main problems the use of the CWMS in Belarus would not be justified. Logistics system will operate in a right way if all its components work equally debugged and productive.

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EL ANALISIS DE LAS TARIFAS DE LAS TRANSPORTACIONES DE LOS PASAJEROS EN LOS CIUDADES

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Аналізуюцца тарыфы на пасажырскія перавозкі рознымі відамі грамадскага транспарту ў гарадах еўрапейскіх краін. Выяўлены асаблівасці аплатаў праезду і правілаў карыстання пасажырскім транспартам.

Nosotros vivimos ahora en el siglo XXI y ya no podemos imaginar nuestra vida sin transporte. Es el servicio más importante y necesario para toda la gente. Con el crecimiento de la población se aumentan las transportaciones de los pasajeros. En los países diferentes existen diferentes medios de transporte y las tarifas tambien son diferentes. Es muy importante conocer estos precios y tarifas para las transportaciones mas extendidas.

Vamos a prestar nuestra atención a las ciudades de los países europeos tales como España, Polonia, Inglaterra, Francia y