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## APPLICATION OF THE PRINCIPLES OF LOGISTICS INFORMATION SYSTEM IN ROAD ECONOMY IN CHERNIGIV REGION

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*Summary. The article explored the views of scientists regarding the concept of «principle», described the basic principles of logistics information system and offered his own opinion on the definition of «Logistics Information System». Considered the Features of logistics information system of road construction and principles of compliance information logistics information system. Grounded the expediency of implementation of logistics information system at the subsidiary «Chernihiv Oblavtodor» Public Joint Stock Company «National Joint Stock Company» Roads of Ukraine.*

**Key words:** *logistics information system, the principle of construction, logistics information, road construction.*

At present, enterprises in the industry of road construction, for which the ultimate objective – the construction, repair and operational maintenance and reconstruction of highways – it is impossible without the use of new technologies and innovative methods of communication, organization and management of production processes. This encourages enterprise road construction to expand the use of logistics in its production and commercial activities. One important area of improving the management of road use economy logistics information system.

The aim of the article is to systematize the views of scientists on the concepts of «information system», «information logistics», «logistics information system», characteristic of the basic principles of construction of the logistics information system in enterprises sector road construction, development of circuit information of management and structuring of the logistics enterprise information system of road construction.

Logistics information systems in enterprises of road construction should be designed so that each model-making mechanisms of the administrative decision to establish appropriate information flows. Such an organization design LES requires a hierarchical approach. The essence of this approach is multi-layered sequence of their creation.

Information support in the process of business enterprise road construction requires appropriate software, through which all the logistics information system operates as a single entity. LES should provide a horizontal (between functional sub-systems) and vertical (between levels of the hierarchy) the integration of the logistics system. The key issue is the organization of logistics management information flow, provides a timely and adequate information about the situation in the field of road construction.

### *References*

1. Gricanov A. A. (1998) *Novejshij filosofskij slovar'.* Minsk: Izd. V. M. Skakun.
2. Lebedev S. A. (2004) *Filosofija nauki: slovar' osnovnyh terminov.* M.: Akademicheskij Proekt.

3. Nekrasova N. A., Nekrasov S. I. (2010) *Filosofija nauki i tehniki. Uchebnik*. M.: MIIT.
4. Savchenko V.N., Smagin V.P. (2006) *Nachala sovremennogo estestvoznaniya. Tezaurus*. Rostov n/D.: Feniks.
5. Karpov A.K., Polishhuk V.I., Gutov E.V., Samohina N.N. (2010) *Istorija i filosofija nauki. JEnciklopedicheskij slovar'*.
6. Rajzberg B.A., Lozovskij L.SH., Starodubceva E.B. (1999) *Sovremennij jekonomicheskij slovar'*. 2-e izd., ispr. M.: INFRA-M.
7. Gusakov V. G. (2008) *Prodovol'stvennaja bezopasnost' terminy i ponjatija jencikl. sprav*. Minsk: Belarus. nauka.
8. Gusakov V.G., Dereza E. I. (2008) *Agrarnaja jekonomika. Terminy i ponjatija jencikl. sprav*. Minsk: In-t agrarnoj jekonomiki NAN Belarusi.
9. Galkin V.P. (2001) *Teoreticheskie aspekty i osnovy jekologicheskoy problemy: tolkovatel' slov i ideomaticeskikh vyrazhenij*. CHEboksary.
10. Matvienko O.V., Civin M.N. (2005) *Osnovi menedzhmentu informacijnih system*. K.: Centr navchal'noi literatury.
11. Oklander M. A. (2008) *Logistika: pidruchnik dlja vuziv*. K. : Centr uchbovoi literatury.
12. Ileva K.V., Kostricka N.A. *Osnovni funkcionalni skladovi logistiki*. Retrieved from <http://intkonf.org/ileva-kv-kostritska-na-kramarenko-vv-osnovni-funksionalni-skladovi-logistiki>.
13. Dybskaja V. V., Zajcev E. I., Sergeev V. I., Sterligova A. N. (2011) *Logistika: uchebnik*. M.: JEksmo.
14. Nikolajchuk V. E., Kuznecov V.G. (2006) *Logistika: teorija i praktika upravlenija: ucheb. posobie*. Doneck: Nord-Press.
15. Larina P.P. (2005) *Logistika*. D.: VIK.
16. Pituljak N. S. (2013) *Udoskonalennia principiv funkcionuvannia logistichnih informacijnih system*. Visnik CHernigivskogo derzhavnogo tehnologichnogo universitetu. Serija: Ekonomichni nauki. Retrieved from [http://nbuv.gov.ua/j-pdf/Vcndtue\\_2013\\_2\\_24.pdf](http://nbuv.gov.ua/j-pdf/Vcndtue_2013_2_24.pdf).
17. Bogurskij V.N., Sokolov R.V. (1998) *Jekonomika i proektirovanie informacionnyh system*. S-Pb.: RIF «Roza mira».
18. Bronnikova T.A. (2008) *Ocenka jeffektivnosti vnedrenija informacionnoj sistemy upravlenija predprijatim. Izmerimye celi i kontrol' ih dostizhenija*. Jekonomika i zhizn'.
19. Mihajlovska O.V., Filipova N.V., Koval R.Ju. (2014) *Umovi zabezpechennia rozvytku logistychnyh system dorozhnogo gospodarstva v Chernigivskii oblasti. Derzhavne upravlinnia: udoskonalennia ta rozvytok*.
20. Filippova N.V. (2013) *Instrumenty ocenki jeffektivnosti proektov gosudarstvenno-chastnogo partnerstva v dorozhnoj otrasli*. Economics and national economy management: problems and prospects. – San Francisco, California, USA.