СЕКЦІЯ
ТРАНСПОРТНІ ТЕХНОЛОГІЇ ТА ОБЛАДНАННЯ;
ДОСЯГНЕННЯ, ПЕРСПЕКТИВИ ТА ПРОБЛЕМИ ДОРОЖНЬОГО БУДІВНИЦТВА ТА МАШИНОБУДУВАННЯ.

FEATURES OF FUNCTIONING OF SUPPLY CHAINS OF CONSUMER GOODS DURING A PANDEMIC

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Since the beginning of the pandemic in the world, the problem of buying HPS through closed stores has become relevant. One way to overcome this issue is to use e-commerce. In connection with the transfer of trade from a stationary store to an online store there was a question about the organization and implementation of address delivery to the customer

Under COVID-19, analysts have noted an active increase in online sales, as more and more people are forced to buy online. E-commerce is projected to grow to 22% of total retail sales in 2023.

Address home delivery is a phase of supply chains that includes the activity by which goods are physically moved to the customer. There are a number of potential benefits because home delivery services are convenient, becoming more popular, but have their drawbacks.

Today, sellers often deliver goods by mail, third-party courier service or their own courier service. Also, the customer must be at home at this time to be able to pick it up. Therefore, they choose the time of receipt of the order when it is convenient for them. There are various methods of charging for delivery, but all existing approaches to determining the cost of delivery are unreasonable and intuitively determined by logisticians.

Significant factors in determining the cost of delivery are the weight of the purchase, bulk density and distance of delivery. Analysis of methods for calculating the cost of delivery in different companies showed that the most convenient is an automated tariff calculator.

Factors that reduce shipping costs include volume of purchase, type of delivery, urgency of delivery, and location of recipients. There are also external factors influencing delivery costs.

The following known software products are used to plan the address delivery system:

- Ant Logistics is the most common program in use. With which you can form the optimal route.

-In the updated program for automation of courier delivery. Delans the optimization of a route on distance or time is realized.

- MobiDel allows you to keep track of customers, warehouses, points of sale of goods and couriers, distribute orders among couriers.

- Courier Service 2008 is a system for complex automation of courier delivery service.

- Fast Operator includes call center operation, cooking, courier and logistics services, provides detailed marketing and customer analysis.

- Run CRM allows you to quickly distribute tasks among couriers, choosing the optimal routes, control couriers, delivery process and even financial transactions.

Thus, in the context of modern globalization, which has been exacerbated by the spread of SARS-CoV-2 coronavirus and the resulting global financial crisis in 2020, the importance of developing, practicing, and supporting such economic activities as e-commerce has become clear. And so it becomes a question of scientific substantiation of the cost of address delivery and under what conditions it is possible to organize free delivery in general.

DEVELOPMENT OF AUTOMOBILE INDUSTRY

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The automotive industry is crucial for Europe's prosperity. The automotive sector provides direct and indirect jobs to 13.8 million Europeans, representing 6.1% of total EU employment. 2.6 million people work in direct manufacturing of motor vehicles, representing 8.5 % of EU employment in manufacturing. The EU is among the world's biggest producers of motor vehicles and the sector represents the largest private investor in research and development (R&D). To strengthen the competitiveness of the EU automotive industry and preserve its global technological leadership, the European Commission supports global technological harmonisation and provides funding for R&D.

The history of the automobile industry, though brief compared with that of many other industries, has exceptional interest because of its effects on history from the 20th century. Although the automobile originated in Europe in the late 19th century, the United States completely dominated the world industry for the first half of the 20th century through the invention of mass production techniques. In the second half of the century the situation altered sharply as western European countries and Japan became major producers and exporters.

Although steam-powered road vehicles were produced earlier, the origins of the automotive industry are rooted in the development of the gasoline engine in the 1860s and '70s, principally in France and Germany. By the beginning of the 20th century, German and French manufacturers had been joined by British, Italian, and American makers.

Most early automobile companies were small shops, hundreds of which each produced a few handmade cars, and nearly all of which abandoned the business soon after going into it. The handful that survived into the era of large-scale production