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MODERN PROBLEMS IN AVIATION AND INNOVATIVE WAYS TO SOLVE THEM

Innovation in the field of air transportation refers to the manufacture, provision of monetary services in the organization of air transportation infrastructure, the introduction of new types of aircraft, responsibility for the responsibility of international services in domestic and foreign airlines, the implementation of projects through the introduction of revised information technologies and business management with the help of investments made by financial and private companies, taking into account the interaction with government agencies.

After the declaration of independence of Ukraine, the level of development of the aviation industry in our country began to preliminary grow. During 1992-1993, a state body of Ukraine was introduced, and air links were established between various countries of the world and the proclaimed Code of Ukraine.

Due to the unfavorable conditions for the functioning of the aviation industry in Ukraine, an increase in the level of competition, an increase in consumer requirements for services provided by one of the main opportunities to ensure the competitiveness of domestic airlines, an increase in the quality of their services, improvement of production and organizational processes is an active innovation.

It should be noted that at present, a state target program for the scientific and technical development of the aviation industry of Ukraine for the period 2011-2020 has been developed and exists, which must comply with international standards in aviation at the world level.

Now the main directions of development of aviation transport production in the airline of Ukraine are: organization of transportation, improvement of maintenance of transportation, marketing and safety.

The innovative development of aviation in Ukraine is explained by the fact that they improve and increase the number of modern airports, in accordance with the State Code of Ukraine, which studies the standards of the International Civil Aviation Organization and the European Union. We can track the trend towards the spread of low-cost airlines, namely low-cost airlines or “LCC” for short.

According to IATA, at the beginning of 2019, 65% of the world's air traffic is carried out by low-cost airlines.

It should also be noted that in our state recently a BSP will be created through an improved system for selling electronic tickets on airplanes, as well as general settlements with international companies. According to the National Institute for Strategic Research, today, directions are being implemented to introduce the creation, together with the European Agency for the Safety of Polish Landfills, of a perfect system for checking the suitability of aircraft. Recently, by the Resolution of the Ministry of Infrastructure of Ukraine, the technical standards of air carriers in accordance with European ones were promulgated.

Due to the lack of working capital and development funds, the Ukrainian aviation industry was unable to organize large-scale and high-quality production of modern aircraft, and the country's financial and credit system to create an attractive environment for their purchase and leasing.

During 2019, the largest airlines operating in Ukraine operated 193,743 flights (Table 1).

Table 1

Top 10 airlines in Ukraine by the number of flights in 2019

Airline	Number of flights, units	Specific gravity,%
UIA	58772	30.3
TURKISH AIRLINES	33716	17.4
WIZZ	20944	10.8
BELAVIA	18629	9.6
LOT	18449	9.5
SkyUp	10631	5.5
WINDROSE	10185	5.3
RYANAIR	9295	4.8
AZURAIR	7229	3.7
QATAR	5893	3.1

The largest share was accounted for by UIA - 30.3%. It should be noted the airlines SkyUp and RYANAIR, which increased the number of flights by 340.9% and 437.9%, respectively.

Air fleet of the largest Ukrainian airlines is represented by the following types of Boeing aircraft (Boeing 737-900ER, Boeing 737-300, Boeing 767-300), Airbus (A320-212, A320-214, A321-211, A321-231, A330 - 223), Embraer (EMR ERJ190-100LR, EMR ERJ190-100STD, EMB-145EP, EMB-145EU, EMB-145LR, EMB-500), Antonov (An-124-100M, An-124-100 150 , An-140-100, An-148-100V, An-158, An-178, An-2, An-22, An-24RV, An-225 "Mriya", An-26B-100, An 74TK-300D), "Yakovlev" (Yak-40, Yak-42D). The average age of aircraft is 23 years.

There are also a number of problems in the development of aviation transport in Ukraine, in particular:

- depreciation of fixed assets (the average age of aircraft is 23 years);

- lack of qualified personnel (qualified personnel generally prefer foreign companies due to low wages);
- inconsistency of the technical capabilities of airports with modern international requirements;
- lack of a state program to support the development of air transport and aviation systems work, loss of manageability of investments in transport;
- tough tax policy in relation to the aviation industry (airlines are forced to pay a large share of budget revenues in the form of taxes, despite the high cost of their activities);
- insufficient modernization of the aircraft fleet;
- occupancy of airports and airspace.

Solving these problems will help improve the efficiency of air transport and improve the economic situation in Ukraine.

Options for problem solution:

- cheap and long-term loans, 3-7% per annum for 10-12 years.
- all types of aviation leasing (financial, operational, operational) for the stated period. For domestic aircraft there was only financial leasing;
- the presence of an organized and high-quality secondary market for civil aircraft, which significantly reduced the transaction price;
- a modern model range of aircraft of the primary and secondary markets, competitive in all types of air transportation;
- proven system of after-sales support from the manufacturer;
- a wide range of services offered to maintain aircraft airworthiness;
- high reliability of aircraft, the presence of a reasonable and relatively wide list of pending defects, etc.

It is very important to develop air passenger transportation in Ukraine – cost efficient, quick and comfortable way to travel by country. Motivates the development of infrastructure and tourism in the country by improving the economic situation.

Paying attention to the problems and making the right decisions to solve them will help improve the overall situation of aviation in Ukraine.

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