POSSIBILITIES OF GIS TECHNOLOGIES IN THE MINING INDUSTRY

D V Andreev
Federal State Autonomous Educational Institution of Higher Education "M. K. Ammosov North-Eastern Federal University"
This article deals with the possibilities of using geoinformation technologies in the mining industry. It should be noted that today geoinformation technologies are a modern version of an integrated information system that fully meets all current requirements. In this article, the author considered that the use of geoinformation technologies in the racing industry has a positive impact on the activities of geological exploration enterprises and mining companies. There is no doubt that the use of geoinformation technologies contributes to the solution of a wide range of tasks related to the extraction and transportation of minerals.
Due to the fact that production volumes increase annually, and the processing process becomes more complex, data processing takes slightly longer than before. This results in the following problems:

- the degree of relevance of the data that are necessary for the operational conduct of mining operations;
- the emergence of new development systems necessitated the need to complicate the system of visualization of runway workings, as a result of which it was necessary to make a transition to three-dimensional models.
FINDINGS

The solution of these problems contributed to the creation of complex information systems and computer technologies. Having become widespread, these systems became a tool for their daily use by various engineering and technical services.

Thus, we see that the use of GIS technologies is advisable in those areas that need constant monitoring, as well as monitoring equipment and the state of mining.
Having analyzed the possibilities of GIS technologies in the mining industry, their advantages and disadvantages, it can be concluded that geographic information technologies have been and continue to be one of the key links in the mining industry, since, thanks to tracking geographic variables and relationships, risks are reduced. If this had not happened, they would have been missed. That is why GIS technologies are now so widespread.