## MINISTRY OF EDUCATION OF THE REPUBLIC OF BELARUS BELARUSIAN STATE UNIVERSITY FACULTY OF PHILOSOPHY AND SOCIAL SCIENCES Department of Social Communication

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## THE PROSPECTS FOR THE DEVELOPMENT AND USE OF METAVERSES INTO THE ACTIVITIES OF SCIENTIFIC AND INDUSTRIAL ENTERPRISES

Diploma work ANNOTATION

Speciality: 1-23 01 15 Social Communications

Academic supervisor: Doctor of Philosophy in Philosophy, Associate Professor Julia Y. Gafarova

## **ANNOTATION**

The structure of the diploma work consists of an introduction, two chapters and a conclusion. The first chapter is theoretical, it reveals various approaches to the metaverse as a phenomenon and the possibilities of its use in various spheres of human activity and, in particular, in the activities of scientific and industrial enterprises. The second chapter is practical, which describes the the prospects for the development of metaverses and their use in the activities of scientific and industrial enterprises of the Republic of Belarus. The volume of the thesis is 50 pages and includes 4 appendices and 20 sources used.

Keywords: metaverse, virtual reality, augmented reality, virtual space, industrial space, virtual reality, digital twin, artificial intelligence, 3d reconstruction, blockchain.

The object of the research work is the metaverse as a social phenomenon.

The subject of the research paper is the prospects for the development and use of metaverses.

The aim of the thesis is to consider the metaverse as a virtual communication space from the point of view of the emerging prospects of its use, in particular, in scientific and industrial enterprises. Methodological basis of the thesis The methodological basis of the thesis was a qualitative approach, which consists in conducting in-depth expert directed informal interviews with a low degree of detail. In the course of writing this thesis following results were obtained: the periodization of development is systematized, the principles of operation and the specifics of technological support of the metaverse are explained; the possibilities of using metaverses in various spheres of human activity are considered; the possibilities of using metaverses in the activities of scientific and production enterprises have been identified; the possibilities of exploring the prospects for the development and use of metaverses are substantiated; the attitude of experts to the development of metaverses as a social phenomenon has been revealed; the attitude of experts to the prospects of introducing metaverses into the activities of scientific and industrial enterprises of the Republic of Belarus has been revealed.

The novelty of the results obtained is due to the lack of theoretical and practical knowledge regarding the prospects for the development of metaverses and the possibilities of using their technologies in the activities of scientific and production enterprises.

The materials and results of the thesis were obtained on the basis of reliable sources and independently conducted theoretical and practical research.

The materials of the thesis can be used in the educational process, as well as in the strategic planning of digitalization at scientific and production enterprises of the Republic of Belarus.