

Thinking on the Construction of "Meta-Verse + Education" Environment

-- From The Perspective of Marxist Social Science Methodology

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Abstract

Education needs change and breakthrough, and the Internet + education gives us the benefits of it, but the further development of the Internet + education is not a mature, a lack of practical experience, a lack of practical experience, more about the yuan universe, and more about the idea of thinking and daydreaming, which also gives us a vision of the good vision of education. Scientific theories guide us to gradually integrate the yuan universe and education. The marxist social science methodology that has been confirmed by many and many times will be our choice, and the introduction of the yuan universe to education is scientific and correct, through the objective principle, the principle of subjectivity, the principle of subjectivity, the principle of unity, the principle of specificity, and the development principle of development.

Keywords

Social Science Methodology; Meta-verse; Education; Meta-verse+Education.

1. Introduction

There is no question that Marxist philosophy is correct and great. The course of China's socialist struggle and construction has proved for countless times that Marxism does and can. The Marxist method of social science is correct. It is based on practice and looks at world affairs from the perspective of relations. By using philosophy as the basis, social science methodology has long antagonized natural science and humanities, which makes the natural science research appear certain difficulties. [1] It was not until we introduced the Marxist methodology of social science that the barriers were broken and the methods of social science research entered a new era. The social science research method based on the new materialist road has established a set of scientific and complete social science methodology, which has made great progress in social science research. Nowadays, with the emergence of the metaverse, it is necessary for us to think and construct the metaverse with the methodology of Marxist social science, especially the "metaverse + education". The education plan can never be separated from the theoretical guidance of science.

In technology and gaming, the concept of a Metaverse is not new. Everyone knows the "Metaverse," as it was originally described in Neil Stephenson's 1992 book *Avalanche*. [2] The "Metaverse" we translate as "the Metaverse," so the Metaverse is very old. In the virtual world of multiplayer online, each person is registered with a unique identity, a self-portrait of the user, which we can call a "digital twin". In such a world, we carry out all kinds of activities, all kinds of interactions and transactions in a custom identity, free flow, super realistic simulation of the real world. The year 2021 metaverse became the hot word of the year, and the industry also regarded 2021 as the first year of the metaverse. Driven by commercial capital, the metaverse becomes a social focus. [3] In particular, the country's strong promotion of "Internet +

education" and support for artificial intelligence have promoted the emergence of metaverse + education. At the same time, various problems in the metaverse + education still affect the hearts of countless educators and educatees. Many of these questions are still in the fog. This paper discusses the basic problems in the meta-universe + education from the perspective of Marxist social science methodology, which is helpful to the construction of the meta-universe.

2. Methodology of Marxist social science Law

In the history of philosophy for thousands of years, human exploration of society, nature and human came to Marxist philosophy after several ups and downs. In the pursuit of essence, Marx took "relationship" as the research object from a unique and detached perspective to discuss human beings and human society and explore the process of human history, which greatly enriched human philosophy and promoted the development of philosophy in a landmark way. The methodology of social science put forward by Marxist philosophy is also a methodology with scientific nature and advanced nature. Is our guide to the right action to transform the world. [4]

Marxist social science methodology mainly includes methods, starting from the practice of social system research method, analysis of social contradictions, social subject research methods, the process of social research methods, social cognition and evaluation method, and the history of the world's research methods and so on, attempts to address the issue of social, people and the nature of problem, the formation of human society, As well as to the history, the human problem elaboration, its superiority lies in through the scientific, dialectical, the connection and the development point of view to look at the problem, can teach the learning to guide the social science activities. Marxist methodology of social science is open and growing, it is not stationary, and the system is relatively complete, with universal applicability and long-term perspective, which are conducive to our more convenient understanding and application of social science methodology.

The basic principles of Marxist social science methodology include objectivity principle, subjectivity principle, wholeness principle, concreteness principle and development principle. The principle of objectivity is the product of the contemporary nature of Marxism, the expression of the materialist viewpoint, and also one of its basic principles. Everything should be done from the objective perspective, from the objective conditions of society to study social sciences and natural sciences. Social science research should be conducted on the basis of objective reality, dialectically treat subjective initiative and objective law, do not transfer with human will, and actively transform the world under the guidance of scientific methods. The principle of subjectivity is an important issue in philosophy. Similar to ontology, the pursuit of ontology is the original pursuit of philosophy. In the meta-universe + education, the pursuit of ontology is more important. If the ontology is wrong, everything will collapse. [5-6] The value goal pursued by the subject is the result of the interaction between the subject and society and environment. The principle of integrity requires that each element be connected with each other and the research problem be analyzed from a comprehensive and holistic perspective. Find the problem of the elements through the relationship between the various elements for an organic whole, adopts the method of knowledge such as social system, social contradiction analysis method and process of social research methods, etc., revealing the characteristics and regularity of social science, to analysis the overall and analysis section, partly on the principles of integrity. [7] The principle of concreteness is aimed at abstractness. We need to be concrete first and then abstract. What exists objectively is true. For truth related to social science, the more comprehensive, detailed and real the content is, the more applicable it is to specific objects, requirements, situations and time, and the more concrete truth and concept can be grasped. The principle of development reflects the reality and scientificity of Marxist

philosophy. It is not self-styled, good at absorbing and keeping open. This is the real picture of the world we know at present "unbounded" and "development and change". Any stagnant, complacent and complacent conclusion will be used as a stepping stone, the law of development of the wave forward and spiral tells us the "way". [8]

3. Metaverse

In the past two years, "Metaverse" has become a hot word in many fields and entered the vision of many scholars. For such a vocabulary is derived from the novel, through the translation of scholars and conjecture, from "super yuan domain" to "yuan" the universe, there are a lot of people called "parallel universe", parallel universe is parallel universe with quotation marks because such a physics vocabulary, idea is that we can't find and enter a and the world we live in exactly the same as the real world, And our world do not interfere with each other, do not overlap but parallel, parallel means never intersect. But the metaverse and our real world must meet and connect. This is also an important aspect to pay attention to during the construction of the metaverse. The result of philosophical research is that human beings are transcendent, and we all want to go beyond the status quo, so we take our imagination a step further than the scenario depicted in the science fiction novel Snow Crash. Based on the current cultural and social environment, including scholars, engineers, students... Based on real technology and personal experience, we want a world beyond the current living environment, but this world is not the original, we have the possibility to create, so we prefer to call it "metaverse". [10]

The recently released Research Report on the Development of the Metaverse (2020-2021) points out that the metaverse is a new Internet application and social form that integrates virtual reality and reality by integrating and expanding reality, digital twin, blockchain and other new technologies. A future persistent and decentralized artificial online 3D virtual world that can be accessed through virtual reality technology and can realize virtual and real interaction. But there's still a lot of disagreement about what the metaverse is. In 2021, Lobrox proposed eight key elements of the metaverse: identity, social interaction, immersion, anywhere, diversity, low latency, economy and civilization. Therefore, the metaverse should be an ecological world with economic and social attributes and the integration of virtual reality driven by digital information technology. It should be said that the most likely thing we can achieve at present is to enter a virtual world through wearable devices, where each of us has his or her own unique identity and we can live another life in it. The realization of this world is still very difficult. First of all, what kind of reaction will our body have when wearable devices are worn for a long time? Secondly, what are the morals and laws like in such a world? What are the differences and connections between them and the real world? Again, what is the use of such a world for us, entertainment, or learning, or something else? Because this is the virtual world, not the real world. And finally, how does this world connect to the real world? Therefore, such a world can only be small, or a domain, for some special purpose.

4. Meta-verse+Education

Our country in recent years vigorously supports the development of artificial intelligence and Internet. The development and application of artificial intelligence will be an important part of national competitiveness, with the promotion of IP V6 technology, we gradually occupy higher autonomy in Internet technology, 5G technology development we are also in the forefront of the world, seize the opportunity, we will catch up. Integrating artificial intelligence technology, interaction technology, network communication technology, Internet of things technology, cloud technology, augmented reality, virtual reality and other technologies, to develop and construct the meta-universe from multiple dimensions is what we can do at present. [11-12] Entrepreneurs hope to build an emerging economic model in the form of the metaverse under

the Internet technology, while experts and scholars focus on the social attributes of the metaverse and the mapping and connection between the metaverse and the real society. Education is arguably the least changing component of this society. All sectors of society hope that education can be reformed and a new form can emerge, and the emergence of the Internet gives us hope. "Internet + education" is a popular word in recent years, and various educational groups and countries are also constantly trying. And we see a lot of hope. At present, our greatest hope is to realize the fairness and efficiency of education through the Internet. The application of Internet in education improves the fairness and efficiency of education, and the appearance of artificial intelligence makes us further expect the fairness and efficiency of education. Now, the emergence of the metaverse brings our expectation of fair and efficient education even further. We do not need to wait for the technology of the metaverse to mature before introducing education. We can grow together with the metaverse, promote and complement each other. The technologies of the metaverse, we can introduce education. In the process of introducing metaverse technology into education, we need scientific theories to guide us forward.

Meta-universe + education, we need to pay attention to the principle of objectivity. Objectively speaking, the technology of the metaverse is not yet mature, and students and teachers still do not know what the effect is, how they feel and how the man-machine relationship is when they teach and learn through the metaverse technology. Therefore, the education industry should not blindly follow the trend of the metaverse. We can explore how metaverse technology can be applied to the education industry through the experiment of some technical equipment and regional pilot. [13] The quality of school education cannot be considered based on the degree of modern equipment, [14] but should be comprehensively evaluated in combination with the actual situation of the region, the school and the actual development needs of students.

Meta-universe + education, we need to pay attention to the principle of integrity. Based on the national level of educational development and economic development, a reasonable introduction of meta-cosmic technology. It would address issues such as educational inequality and the digital divide, rather than widen them. Based on the overall characteristics of students, the reasonable introduction of metaverse technology. After introducing in some ways to better promote the education and growth and help, but can't have a bad influence on other aspects, such as introducing electronic screens after damage students' eyesight, after the introduction of network self-study, students access to all kinds of violent games and bad content, wearable devices are introduced to hurt the students' body and so on, so it is likely to do more harm than good, Students are complete people, people with personality. [15]

Meta-universe + education, we need to pay attention to the principle of subjectivity. When metaverse technology and equipment enter the teaching process, the problem of who is the main body is particularly prominent. We can't turn to looking at device and technology usage or other attributes of the device. In education and teaching, the subject should be education, rather than equipment, or the subject should be people, educators and educated, rather than those cold things, people with temperature and personality. [16] What should be paid attention to is whether intelligent equipment and meta-cosmic technology can realize the comprehensive and individual development of human beings, improve teaching efficiency and quality, and promote the efficient construction and development of students' knowledge, skills and moral level. [6] The construction of smart campus and the entry of metaverse into education should better serve education. When students study in the metaverse environment, the problem of moral subject and the morality of moral education are also prominent. [17] Moral education is a part of education that emphasizes much but has little effect. The phenomenon of emphasizing knowledge over moral education is everywhere, and the moral issues of moral education are not paid enough attention. If the process of moral education is not moral, then what is moral

education? In the metaverse and Internet education, moral education needs to be solved urgently.

Meta-universe + education, we need to pay attention to the principle of concreteness. Different schools and different regions have different needs for educational content, equipment and technology. The one-size-fits-all approach often wastes resources but has little effect. Therefore, it should be equipped with regional characteristics, economic development and students' actual needs. At the same time provide alternative solutions, a variety of options is feasible. This requires the establishment of a rich resource base (such as the national intelligent education cloud platform), the provision of diversified technical support, diversified equipment support. [18]

Meta-universe + education, we need to pay attention to the principle of development. Movement and development are fundamental to the existence of things. When the metaverse enters education, it is necessary to adjust technology and equipment support in time according to the needs of education. Technology and equipment need to be replaced in time according to the needs of students; Need to replace technology and equipment in time according to social development; Technology and equipment need to be replaced in time according to the development of metaverse technology; It is necessary to replace technology and equipment in time according to the development of teaching and learning theory. [19] Lagging technology and equipment are likely to drag down the quality and efficiency of teaching.

5. Conclusion

Under the background of the vigorous development of Internet technology and electronic information technology, and the epidemic epidemic, the methodology of Marxist social science law has more soil for the survival of Internet + education, which is also imperative. The metaverse gives people unlimited imagination, but education still needs to keep a clear mind when facing the metaverse. Guided by the methodology of Marxist social science, it should be carefully introduced into education. The education plan can not be joked about, and every educated person can not be delayed. Only by ESTABLISHING the meta-universe learning environment reasonably in education under the principles of objectivity, subjectivity, wholeness, concreteness and development, can the meta-universe and education be gradually integrated in a scientific way from the viewpoint of dialectic, connection and development.

References

- [1] The Basic Research of Marxist Social Science Methodology_Ziqi Ma [J].
- [2] Jing Zhao, Bing Pan. The Concept and Constitution of the Metaverse and its Influence on Media _Jing Zhao [J]. Audiovisual Industry, 2022(2): 44-49.
- [3] From Virtual reality to virtual reality --... "Universe" and the "Metacosmos" of Art_ Zhiqiang Zhou [J].
- [4] Shipeng Zou. Marx's Social Historical Dialectics and the Methodological Consciousness of Social Science Research_Shipeng Zou. Journal of Huazhong University of Science and Technology (Social Sciences Edition), 2022, 36(2): 1-8, 98.
- [5] Practice Cultivation of Methodological Literacy of Marxist Social Sciences_Li Zheng [J].
- [6] Yixue Wang. Multivariate Methodology and Naturalism in Social Sciences_Yixue Wang [J]. Journal of Qilu Normal University, 2020, 35(2): 62-69, 105.
- [7] The Contemporary Analysis of Marxism and Social science Methodology_Shuting Zhang.

- [8] The Functions and limits of the humanities and social sciences... The Philosophical Implications of Social Science Methodology_Lai He [J].
- [9] Tao Li. Marxism and Social Value Analysis of Social Science Methodology_Tao Li. Chinese Journal of Multimedia and Network Teaching (Last Issue), 2018(7): 170-171.
- [10] From the perspective of Etymology to the Metaverse _ Nanjing University Philosophy_Zhenyuan Su [J].
- [11] Yanhong Liu. The interpretability of Artificial Intelligence and Legal Liability of AI Yanhong Liu. Law and Social Development, 2022, 28(1): 78-91.
- [12] Jinjie Zhang. Discussion on the moral subject Status of Artificial Intelligence_Jinjie Zhang [J]. Quest, 2022(1): 58-65.
- [13] Xingliang Ti A. The Impact of Big Data technology on social science Methodology_Xingliang Ti [D]. Harbin University of Science and Technology, 2019.
- [14] Attach great importance to the security of artificial intelligence_Yu'an Tan [J].
- [15] On the Ethical Principles of Artificial Intelligence Development_Weiping Sun [J].
- [16] The Philosophical Implications, Practical Problems and Governance Approaches of Artificial Intelligence Ethics_Tieyan Yin.
- [17] On the autonomy of Artificial intelligence_Chengping Cheng [J].
- [18] Baoyan Li, Yongmou Liu. The Nature, Risks and Countermeasures of the Metaverse. Baoyan Li. Science · Economy · Society, 2022, 40(1): 15-26.
- [19] Zhe Zhu, Beidou Zhang. Recognition of the moral Subject Status of Artificial Intelligence from the perspective of Marxism_ Zhe Zhu [J]. Journal of Hubei University of Administration, 2021(6): 5-9.
- [20] Wikipedia. Metaverse [EB].