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MILITARY SECURITY IN THE AGE OF ARTIFICIAL INTELLIGENCE

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National and international policies in the field of artificial intelligence (AI) must take into account its potential transformative potential, dynamics and dangers. The policy of leading countries in the field of AI is beginning to be formalized and structured at the national level. Most of the developed countries today already have basic plans for the development of AI. They can be formalized as integral national strategies, or they can exist in the form of a number of documents devoted to separate areas of activity. Applicants for the role of world leaders in the field of AI focus attention on the security dimensions of its application. One of these dimensions is military security. AI (and AI-enhanced autonomous weapons systems) can be applied and bring maximum potential military benefits at a tactical, operational and strategic level.

AI technologies are constantly evolving. Today we are talking about the so-called "narrow or weak" AI, or AI with limited capabilities. Such an AI can be trained to perform a specific task and cannot train itself or be applied to other problems without prior adjustment and training. This type of AI will be increasingly used in various spheres of society in the coming years. A broad survey of scientists working in the field of AI gave a median estimate of AI reaching human intelligence in about 35 years (as of 2018) (Future Proof, 2021, p. 24). And most importantly, AI will not stop at the human level.

Advanced AI can provide new first-strike capabilities, new destructive capabilities that will tempt a new war. At the same time, advanced AI can make the dynamics of any crisis more complex and unpredictable, escalating faster than humans can manage. This will increase the risk of unintended war.

Modern theories and practices of deterrence are based on human rationality, human perception of the surrounding world. Modern concepts of escalation, deterrence and others need to be clarified and updated according to the complicated landscape of human – artificial intelligence interaction, artificial intelligence – environment, artificial intelligence – artificial intelligence, and their complicated configurations.

All stakeholders must be involved in the creation of a system of norms that will regulate the use of AI in the military sphere. Underestimation of risks, overestimation of new possibilities of AI application can lead to catastrophic consequences.

The use of advanced AI in relation to nuclear weapons requires special attention and caution. Representatives of the scientific community of the UK assess the risks

as too great. Therefore, it is proposed to make it impossible to use AI systems in the field of communications, command, control over nuclear weapons. UK can and should initiate the application of this norm at the international level due to the risks of accidental use of nuclear weapons (Future Proof, 2021, p. 27). It is also necessary to clearly define at the international level what lethal autonomous weapons systems are, because today there are a number of disagreements in the understanding of this term. And again to control and guarantee the impossibility for advanced AI to act autonomously in the field of application of these weapons (Future Proof, 2021, p. 28-29).

Ukraine, as a country defending itself against Russia, a nuclear aggressor, faces constant threats of nuclear attack. Ukraine should therefore actively join this discussion and support the ban on the use of AI systems in the field of communications, command, and control of nuclear weapons.

References:

- [1] *Future Proof. The opportunity to transform the UK's resilience to extreme risks.* (2021). The Centre for Long-term Resilience. Retrieved from <https://www.longtermresilience.org/futureproof>