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NANOTECHNOLOGIES IN THE ECONOMY OF UKRAINE

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Nanotechnologies are a real salvation in various areas: in water filtration, medicine, machine building, etc. However, because it proves to be poorly studied branch of knowledge, nanotechnology costs incredibly big money. However, in Ukraine the development of these technologies is not in the forefront, which has a negative impact on trade.

Nanotechnology is a field of fundamental and applied science and technology dealing with a combination of theoretical justification, practical methods of research, analysis and synthesis, as well as methods for the production and application of products with a given atomic structure through controlled manipulation of individual atoms and molecules. It is difficult to look in to the future without knowing why nanotechnology is needed. Skillful application of knowledge about the properties of nanoparticles can be used in a variety of industries. This is not necessarily some abstract research, which an ordinary person does not care about. For example, many people use flash memory cards for 16-64 gigabytes almost every day. They contain microcircuits, some of which are made at the nanoscale, with a scale of 25 nanometers.

Still these technologies will help to simplify the work of many workers: machine builders, complex combing machines. It is difficult to look to the future without knowing why nanotechnology is needed. Skillful application of knowledge about the properties of nanoparticles can be used in a variety of industries. And this is not necessarily some abstract research, to which an ordinary person does not care.

On this basis, it can be inferred that Ukrainian economy needs significant changes in the development and updating of technologies in favour of nanotechnology. Also a lot of Ukrainian workers should know how to work with nanotechnologies. This process will require considerable financial investments and changes in the production vector. It can be assumed that in 5-10 years under favourable economic conditions the perspective of practical application of nanotechnologies in the economy of our country can be quite realistic but even then we will know and apply the knowledge gained.

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