

# NANOTEHNOLOGIA PENTRU O DEZVOLTARE SUSTENABILĂ – INOVAȚIE ÎN EDUCAȚIA TEHNOLOGICĂ

## NANOTECHNOLOGY FOR SUSTAINABLE DEVELOPMENT – INNOVATION IN TECHNOLOGICAL EDUCATION

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**Abstract:** Nanotechnologies represent engineering on a very small scale. They can be applied in many areas, such as: health and medicine, information and communication technology and energy and the environment. Nanotechnologies are currently considered "emerging technologies" that can revolutionize a large number of application domains. Nanotechnologies can have some revolutionary implications for our society in terms of applications or tools that can be accomplished. Nanotechnology is impacting businesses and will offer new and improved products and processes and will allow companies to innovate and enter with new generation products on a new global market. The scale, which identify factors EE (external environment), IE (internal environment), SE (social environment), CE (cultural environment) was administered randomly to 580 students from 11 High Schools with different specialization in Maramures County which can also influence the orientation of students in their carrier. The research identifies the barriers and the needs of innovation knowledge transfer for sustainable education system. The cultural barriers in technological culture give the opportunity to develop and implement new tools and methods for future generation.

**Keywords:** innovation, knowledge management, transfer of information, barriers