

OVERVIEW OF RESPECTIVE AIMS AND EXPECTED RESULTS OF THE PLANTSVITA IPA HU-SRB PROJECT

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One of the most important ways of protecting plants and plant products from harmful organisms and improving agricultural production and its efficiency is application of chemical pesticides and fertilizers. However, this leads to the occurrence of their residues (xenobiotics) in soil, which can have negative effects on plant production, involving risks and hazards to the environment and humans through the inevitable transfer to the food-chain and drinking water. In order to ensure a high level of human health and the protection of the environment, and, at the same time, to safeguard the competitiveness of the cross boarder (CB) agriculture, there is a constant need for alternative, environment-friendly and sustainable soil treatment strategies with favorable effects on crops. The main research aims of PLANTSVITA, project approved through the last IPA call Interreg-IPA Cross-border Cooperation Programme Hungary-Serbia, 2014-2020, are to develop and demonstrate the application efficiency of two multi-component microbial products, PLANTSVITA AC (for acidic soils) and PLANTSVITA AL (for alkaline soils), to minimize the pesticide risks and hazards, implementing and promoting in this way the principles of Ecological Pest Management (EPM) in the CB region. Through development and demonstration of the new products and the technology of their production and application, PLANTSVITA supports enforcement of the agricultural production, enabling alternative soil quality management solutions based on green and sustainable approaches, which has a positive influence on CB agriculture and food industry for providing affordable, high quality crops grown with consideration to the environment.

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