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MODULAR AGRICULTURE – PARADIGM OF GLOBALIZATION DYNAMICS WITHIN THE CONTEXT OF CLIMATIC AND SCIENTIFIC CHANGES

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Abstract

Agriculture remains a constant challenge for the coming years. This is the reason why all the ideas that may offer solutions to the “avalanche” of economic-scientific and technical changes as well as to the ensuing climatic changes become opportune. Modular agriculture is an approach in this regard. This paradigm was structured on a cluster of concepts and an original interpretation that this paper develops and defines. The paper highlights the importance of a holistic vision for the evolution of complex systems such as those in agriculture and food, as compared to the fragmentary aspects that may have poor understanding or undesirable effects. The paper also emphasizes the existing or future applications which, through a unitary concept, grounded on the idea of “modulization” and design of “mini-agricosystems” in dynamic balance, provide other perspectives and solutions based on principles, rules and innovative methodologies. The conclusions of the paper aim to technologically and managerially adjust the obtaining process of agri-food products in specific production modules, complex systems that take account of foreseen climate changes and the prognosis for world development on Earth or in space.

Key words: agriculture, ecosystem, foods, globalization, holism, module, space

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