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New holistic approach of bioeconomics and ecoeconomics theories, practical bridging from the green economy to blue economy, through new integrated and innovative paradigm about “bio-eco-geo-economy”

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Abstract

The authors present a new practical approach through the bridges between green economy and blue economy, with practical examples about the *rural eco-bio-economy*, for the *agrifood green power*, *innovative eco-biotechnologies*, *the management of complex systems etc.* Within the globalized context of the *agrifood and climatic crisis*, with a major social impact, the authors exemplify the numerical dynamics of the multiple disparities regarding poverty and famine all over the world, including the “*hidden hunger*” through the food insecurity caused by pollution. Finally, the authors of this paper, based on their professional activity in wide trans-disciplinary and biodiversity comparative collectives in ecosanogenesis, suggest a series of projects necessary for the social welfare and viable solutions for a good governance, based on a innovative bio-eco-geo-economy through *complexity sciences* and *the integration of the complex socio-ecological systems*, including the knowledge of the *chaordic systems* principles for a smart shaping of the globalized green world and innovative reshaping for a blue bioeconomy, that will

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save the food safety of the planet Earth.

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1. Introduction

Here introduce the paper, and put a nomenclature if necessary, in a box with the same font size as the rest of the paper. The paragraphs continue from here and are only separated by headings, subheadings, images and formulae. The section headings are arranged by numbers, bold and 10 pt. Here follows further instructions for authors.

In the last years, within Romanian Academy, at the National Institute for Economic Researches “Costin C. Kiritescu”, through the studied topics by the scientific researchers from the Center for Studies and Researches of Agroforestry Biodiversity “Acad. David Davidescu”, new visions of bioeconomy and ecoeconomy are addressed in a national and international context on the basis of new searches that target viable solutions for durable development of our country and all humankind against the great challenges of XXI century. They’re researches have been developed between 2011-2013 through the activities of 105 scientific postdoctoral researchers in a project funded through Romania’s post-accession European Union funds (POSDRU project “Postdoctoral School for Zootechnical Biodiversity and Agri-Food Biotechnologies, based on Eco-Economy and Bio-Economy for Eco-Sanogenesis”, ID No. 63258, with the next thematic areas: plant and livestock biodiversity, food safety and security, zootechny and vegetable biotechnologies, genomic banks and genetic engineering, rural ecoeconomy, integrated bioeconomy, biochemistry cycles, ecosanogenesis.

1.1. New holistic approach of bioeconomics theories

In the international speciality literature is already established the fact that the first who used the term “bioeconomy” and even “bioeconomical science” is the Romanian Academy member, scientist Grigore Antipa, through the communication made in 1931 in Paris at the International Congress for Aquaculture and Fish Culture, and on the basis of another conference presented at the Oceanographic Institute from Paris, issues published in French, in the year of 1933, in the Scientific Section Bulletin of the Romanian Academy, with the title “La Biosociologie et la Bioeconomie de la Mer Noire”. In over 12 pages, Romanian Academy member Grigore Antipa proves scientifically the need of approaching the biological and ecological mechanisms with social and economical impact on the relationships between man and nature for the biotopes and biocenosis from the ecological areas that are specific for the Danube and the Black Sea.

Also, it is very well known, at international level, the pioneering activity of the American scientist with Romanian origins, the Romanian Academy member Nicholas Georgescu-Roegen, proposed many times for the Nobel Prize, scientist that is considered the parent of world bioeconomy, both by economists and biologists, and also, by other specialists, such as sociologists, doctors, philosophers, lawyers, etc. In this respect, a numerous speciality literature that acknowledges the ideas and bioeconomical conceptions of this important and visionary economist exists. Within National Institute of Economic Researches “Costin C. Kiritescu”, there are, by many decades, constant concerns for the study and capitalization of scientific original contributions of Nicholas Georgescu-Roegen scientist; thus, 15 volumes that contain the high prestige scientific opera of Academy member Nicholas Georgescu-Roegen have been already published, through the care of Romanian Academy member Aurellancu and the professor Ion Valeriu Franc.

1.2. New holistic approach of ecoeconomics theories

In the last 30 years, and especially over the last 12 years, in the world speciality literature, through the complexity, depth and originality of innovative approaches of relationships between ecology and economy, another American scientist imposed – Lester R. Brown, founder of the well-known Worldwatch Institute and Earth Policy

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