

International E-Conference on

# GEOLOGICAL AND ENVIRONMENTAL SUSTAINABILITY

December 14-15, 2020 | Virtual Webinar

## The concept of cosmo-bio-economy and models of collaborative sustainable development

**Prof.dr. Otilia MANTA**

Centre for Financial and Monetary Research-“Victor Slăvescu”, Romanian Academy, Bucharest, Romania  
-American University, Bucharest, Romania

Currently, we are increasingly witnessing the discoveries of NASA researchers who are focused on identifying solutions to ensure life in the cosmos through orbiting cosmic settlements, respectively resources for the capacity of over 10,000 personnel and sizing to 3 trillion people.

From our point of view life on these cosmic settlements is real. The functioning of the concept of cosmo-bio-economy is testable from our point of view, respectively by ensuring the collaborative economic activities to and from the Earth (an example being the economic transactions with energy and the cosmic tourism). Moreover, for these cosmic settlements, energy resources can be provided that can directly and complementarily contribute to the depletable resources on Earth, and can even be a direct contribution to saving life on Earth.

This work is based on NASA research results, and within it we develop the concept of cosmo-bio-economy and economic models of collaborative development of life from the economic, social, ecological, managerial, and cultural and security point of cosmic settlements.

From a financial point of view, the activities on the cosmic settlement will be based on the concept of the functioning of the Time Banks (as it currently works on Earth ).

Therefore, the paper is an empirical research of the development of new concepts such as cosmo-bio-economy, collaborative economics, time bank, as well as to provide integrated models for the life of a cosmic orbit.

**Keywords:** cosmo-bio-economy, collaborative economics, time bank. JEL CODE: O16, O36, P47

### Biography:

Prof. Otilia MANTA is a Doctor of Economics, Scientific Researcher of the Romanian Academy, Associate Professor - International Financial Relations, macroeconomics and entrepreneurship, Evaluation Expert and Rapporteur for EU Projects, Expert in investment projects, capacity building, sustainable development at local and global level, founder of companies and NGOs - more than 20 years experienced in financial and banking consulting and EU project management, scientific research in the multidisciplinary field, international reviewer.