

**Рецензія на монографію С.І. Страпчук
«Сталий розвиток аграрних підприємств на засадах
циркулярної економіки»**

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**Review of the Monograph of S.I. Strapchuk
“Sustainable Development of Agricultural Enterprises on the principles
of a Circular Economy”**

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A comprehensive approach to the management of agricultural enterprises requires integrating various interactions of environmental constraints, social needs, and economic efficiency of operations. The economic dimension of sustainability is of particular importance, as it represents a flexible and dynamic system where people and economic relationships are key in achieving sustainable development goals (SDGs).

The peer-reviewed monograph deserves the attention of scholars, managers, and authorities since it reveals the concept of sustainable development of agricultural enterprises on the principles of a circular economy.

The five-part book includes a theoretical background

and methodological approaches to sustainable development in agriculture; a monitoring of the progress of Ukraine with the achieving SDGs. The existing business models of agricultural enterprises in the EU were also considered based on the principles of a circular economy. The new measurements and the mechanism for sustainable development of socio-economic systems were developed based on a circular economy.

The first section explores the theory of sustainable development by examining the evolution of concepts and defining the role of the UN in implementing the ideas of sustainability, comparing the constraints, barriers, and indicators for measuring a circular economy in conjunction

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with the principles of sustainable development. An important part of the section is the study of the specifics of sustainable development in agriculture and its legal framework, which support it.

The second section of the book covers different methodological approaches and measurements of sustainable development of agricultural enterprises, as well as the circular economy. The research contains a survey based on questionnaire, which suggests definitions, barriers, and consequences of sustainable development for agricultural producers. The monitoring of the level of sustainability requires designing the integrated indices, modelling scenarios using a set of econometric equations, and defining specified targets. A benchmarking study of adapting business models to the circular economy by European Union agricultural enterprises is also an important part of the monography.

The monitoring of sustainable development level, presented in the third section, covers four key dimensions – economic, environmental, social, and energy. The author points out that despite the emphasis on the energy component, the sustainable development goals are considered in the context of three-pillar concept, which is the basis for measuring the integrated indices of sustainable development of agricultural enterprises in Ukraine in 2015-2019.

The fourth section suggests the structure of intersectoral balances in 2003-2019, which reflect the decline in the level of self-sufficiency (circularity) of the agricultural sector. The author proposes the measurement of ecological

and economic diversification of agrarian enterprise with an appropriate coefficient based on the principles of sustainable development, which allows considering the level of diversity of cultivated crops in conjunction with the structure of marketable products. The research investigates the factors of sustainable intensification of agrarian enterprises in Ukraine and Kharkiv region based on correlation-regression models, and supports the theoretical assumptions about the influence of the factors (crop diversity, use of organic fertilisers, livestock in the farm, labour costs, and mineral fertilisers) on the crop yield of agrarian enterprises.

The last section of the monograph substantiates the mechanism for the design of an appropriate institutional environment. The key steps are the adoption of sustainable development strategies for agricultural enterprises based on sustainable intensification factors; the development of a sustainable development mechanism, and case studies of business models for agricultural enterprises based on the principles of a circular economy.

The monograph is a thorough study that deals with the issues of sustainable development and circular economy in the agricultural sector, accompanied by the interdisciplinarity of the research and a comprehensive approach. The scientific work deserves a positive assessment, as its author managed to consider the conceptual principles, barriers, and consequences of sustainable development based on the circular economy, which could be priorities for the development of the agricultural sector.