

BIOHARMONISATION OF AGRI-FOOD ANTHROPOSYSTEMS WITH THE NATURAL ECOSYSTEMS

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Abstract. *A major concern for the EU at the moment is to increase systemic effectiveness (i.e. the returns of various flows and economic efficiency) in terms of finding concrete models and actions to be taken to ensure resilience and achieve the green and digital transition. In this context, the paper aims at problem posing, as a basis for understanding the envisaged transition, through a conceptual analysis on the inter-systemic harmonization between anthroposystems and ecosystems, with the objective of initiating a process of transitional development of agri-food ecosystems to be more resilient, sustainable and digital. It highlights the process by which the anthroposystem is found to be closely linked including the ecological and economic systems of the agri-food domain. A comparative analysis between ecosystems and anthroposystems is carried out, with an applied study in the agri-food domain, highlighting a comparison of flows of physical and biological environments. A number of linking pathways between economic and ecological food systems are highlighted regarding their evolution towards the bioharmonisation of complex biological-informational systems in the "green and digital" transition.*

Keywords: agri-food system, anthroposystem, bioharmonism, ecosystem, resilience

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1. Introduction

At a time of post-pandemic, unprecedented climate change and armed conflict at its borders, Europe is looking for solutions and strategies to evolve as effectively and adaptively as possible to all these issues. The danger of food crises requires solutions that are integrated into the EU's overall concerns [3, 6, 7, 15, 25, 30, 38]. For these reasons, the issue is becoming highly topical, with solutions being addressed through system-level analyses and, above all, with solutions resulting from conceptual comparisons between anthroposystems and ecosystems, which can lead to pragmatic actions directly linked to avoiding disharmonies in feeding the population [1, 2, 9, 10, 31, 32, 35].

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