

## Management of Planetary Systems for Sustainable Living



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Human activities change the “natural” balance of planetary systems, and the changed balance then changes the performance of other systems. In addition, some systems are reacting on each other, and these, consequent, impacts also change the performance of impacted systems. This current situation requires immediate review.

The model of human activities on planetary systems and the methodology proposed for the management of planetary systems should be based on integrated systems analysis researched over the period 2002-2022 (Soroczynski, 2002, 2022a).

Planetary systems should be considered as large chemical and biological plants in which all processes should be managed by human management/intervention of the relevant component systems to maintain sustainable living.

For some systems, human intervention has, so far, been undertaken without the necessary understanding of the methodology needed to manage all planetary systems for sustainable living. Some cases of human interventions will be discussed.

The difference of performance between universal systems and planetary systems will also be mentioned.

The principal approach of this methodology is based on controlling processes as they would be controlled in chemical or biological plants. This approach considers human intervention to be necessary to maintain sustainable living.

The climate is a different system which, currently, operates on entropy. The climatic system is impacted by carbon dioxide. For this reason, this system requires intervention, and this can be done by balancing and removing carbon dioxide at the sources. It is considered that this strategy would be the most effective. It should be noted that conditions of entropy may lead to the destruction of a system.

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### Biography:

I am an environmental and systems engineer who specializes in strategic planning. In addition, I hold a PhD which deals with integrated systems analysis (ISA) to be used in the development of decision support systems (DSS). My expertise is focused on modelling of sustainable systems for sustainable living.

My special interests are related to the behavior and performance of the integrated output of systems for sustainable living.

My professional career covered the following areas of responsibility: designing of water and sewage treatment plants, construction, cooperation with urban and regional planners for the development of strategic plans for agglomerations up to 2.5 mill (two projects), optimization of performance of water and sewerage systems, and research in relation to integrated systems analysis (PhD).