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Spatial planning modeling in ICZM implementation for Black Sea- case study Sulina

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The purpose of this paper is to present the results of modeling the spatial planning system in the context of implementation the Protocol for Integrated Coastal Zone Management (ICZM) in the area of Sulina, on the Romanian coastal zone of Black Sea.
Spatial Planning system in coastal zone is complex and composed by a big number of factors (identified from all its' components: environment, social, economic and cultural), with multivalent connections. By describing and considering the relationships between the identified factors related to the aspects of coastal zone Sulina we obtain a detailed model of this spatial planning system.This modeling process helps us to visualize the entire systems' dynamics and it is very important for future developments (scenarios, forward looking studies, etc.). The spatial planning system model is use to develop ideas, to use the complex process or predict possible evolution of coastal zone management.
Romania already has the legal basis for the implementation of ICZM Protocol, which is very important for the spatial planning system in the coastal zone and aspires towards an efficient coastal zone management. This positive aspect is revealed also in the model and gives the system a beneficial evolution.
The results of modeling show how spatial planning is strongly influenced by other factors, in various stages of analysis.One of the most important observations is that spatial planning in the coastal zone is influenced in similar ways by all its' four components, but there are still differences in the evolution of this process.