

Functional connected areas: Sea and land uses interaction

F. STEINMAN¹, P. BANOVEC¹, L. GOSAR¹

¹*University of Ljubljana, Faculty of Civil and Geodetic Engineering*

The regulations and the competence related to the sea often define various, decision-making levels and institutions. Joining the land and the marine (water) areas into a uniform planning instrument is a prerequisite for bridging the gap between the water management planning and spatial planning in the coastal areas.

Theory: To a great extent, the land use planning indirectly dictated and still dictates the use of the sea in the narrow coastal belt (since these are the so-called functionally connected lands). The discussion about the sea related issues will have to focus also on the consequences brought by the authorized uses and the applicable legislation on the individual (spatially defined) areas. Regarding the recognized notion of the use of the sea and the water rights, it is first necessary to record and present the actual state of the use of the sea, the rights and the obligations associated to the obtained water rights arising from the national regulations and regulations of the local communities, which relate to an individual area of the authorized use or to the performance of activities.

Case study: The modeling approach used for the entire Slovenian coastline is presented. In the article methodology will be presented by which a turn from qualitative assessments (e.g. how the sea is problematic) to the suitable conceptual and quantitative solutions could be performed. The proposed system of marine area use cadastre integrates uses determined by different segments of legislation. With an application of modeling tools this works as a modulus in the development of river basin management plan that includes also coastal zone. Definition of the objective status and foreseen measures could be defined, elaborated and gradually implemented.

Keywords: marine area; water management; integrated coastal management; GIS; spatial development.