

Hydrographic Survey of the River Drava Branches in the Process of Revitalization, Flood Control and Morphological Monitoring

Dino Dragun *Project Manager*, Ana Gavran and Vedran Car (Croatia).

Key words: Hydrography; Young surveyor; methodological monitoring, forecast system

SUMMARY

Hydrographic survey of the river Drava branches in the process of revitalization, flood control and morphological monitoring Abstract: Under the IPA cross-border project 'Morphological monitoring and methodological guide of the Drava river' as the first in a series of steps, hydrographic survey of branches of the Drava river is performed. This hydrographic survey is contribution to the preparation of the draft guide for revitalization and improvement of watercourses and forecasting system upgrading for the better defense against the ever more frequent flooding. Furthermore, this project is a part of the process of establishing good environmental water quality through morphological monitoring of the river branches. Most of branches are usually covered with lush vegetation and represent a very important habitat for flora and fauna and with that, they should be carefully managed. In effort of its revitalization and promoting balanced and sustainable economic development of the border areas of the Republic of Hungary and the Republic of Croatia, this survey is performed using modern methods of surveying and data processing. Properly focused application of the project results obtained by combining terrestrial and hydrographic survey (single-frequency echo sounder) will form a good basis to converse dynamic processes of rivers, the survival of the most valuable habitat and endangered species, and slowing down the process of eutrophication, which will enable the survival of man in these areas. Keywords: forecasting system, hydrographic survey, methodological monitoring, revitalization, river branch