

Proposal for the development of the Bârzava river, in the district downstream the town of Bocșa, in view of the defense against flooding of river locations.

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Abstract

Floods are natural phenomena that occur when the discharge capacity of watercourses is exceeded. The discharge becomes too large due to prolonged periods of precipitation. Flood occurrence and magnitude increase due to various human activities, decreasing the natural capacity retention rate through land and climate change. Historical flood events (fluvial and pluvial) have occurred in the Banat river basin with repercussions on properties, communities, infrastructure of any kind, economic activities, and protected areas. Bârzava river is one of the areas of potential significant flood risk identified in the Banat Basin. In the second cycle of EU Floods Directive 2007/60/EC implementation, the hazard and risk maps for the Bârzava river (downstream of the Secu reservoir) were updated and mitigation measures were proposed, Bârzava being selected as one of the 30 priority projects in Romania.

Keywords: Romania, Bârzava, flooding