



## **Understanding human-water system: pilot action case PROLINE-CE project**

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Water research and water management is not only the subject of natural and technical sciences, more and more is important that social sciences are involved. Domestic demands compete with ecology, agriculture, industry and other users for the same water resource. These competitions play out via economic and political mechanisms on scales from the local to global. Water science should be interdisciplinary and it is apparent that water knowledge produced widely within society, across experts, stakeholders and citizens.

The main objective of Interreg Central Europe project PROLINE-CE is the improved protection of drinking water resources as well as protection against floods or droughts in an integrated land use management. This encompasses minimizing conflicts between drinking water resources protection and land use activities, integrated land use management and a developing implementation strategy for effectively harmonized environmental standards in drinking water recharge areas to improve water and soil quality and reduce flood or drought risks and improved effectiveness and sustainable use of capacities as well as efficient organisational structures of land use management and drinking water protection.

Water resources are under increasing pressure, mainly due to land use and climate change that both have significant impacts on water resources in general and drinking water resources in particular. The vulnerability of water resources is therefore constantly increasing.

Drinking water protection is already an integrated part of land –use management and spatial planning processes, but lagging behind with implementation and realisation. In PROLINE-CE project, from the very beginning the stakeholders and decision makers are involved and participate the project workshop and other events.

Our pilot action area in PROLINE-CE project is Dravlje valey – the location of reserve drinking water source. The pilot action area is settled area, crossing by highway with large open spaces adjacent to a Natural Park of hilly area. Because of its location in the suburbs of Ljubljana, there is also a high pressure on land use. The area is also a flood area with no properly regulated surface waters drainage coming from hinterland. Despite favourable hydrogeological conditions, there is influence of existing land use on groundwater vulnerability. As we can see the pilot action area is the junction of diverse interests. To harmonise the interests of different stakeholders, that is a prerequisite to establish the drinking water source in the existing land use, we organise workshops, meetings and interviews with stakeholders and decision makers.

On EGU 2019 we want to present the results and our experiences that we have gained in communication and work with stakeholders and decision makers.

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