

Sub-project description for the website

Sub-project Title:	Smart Monitoring of Pollution in the Slovene Riviera
Sub-project Acronym:	SmartMonitor
Responsible local and/or regional public authority:	Public Institute Ankaran, https://visitankaran.si/en ; https://obcina-ankaran.si/
Location of the sub-project:	Ankaran, Slovenia
Local and/or regional public authority logo:	Please send it as a separate file (in .png transparency)
Description of the local and/or regional public authority:	Public Institute Ankaran provides public services in the field of nature conservation, promotion of culture, development of sports, tourism and care for youth and the elderly. With its activities, it ensures the preservation of natural values and biodiversity of the Ankaran Peninsula and enables community development, creates wider benefits, and improves the quality of life of citizens.
Contact Person	Danijel Stojković Kukulin, dskukulin@gmail.com Additional contact (optional) Neža Hervatič, neza.hervatic@zavod-ankaran.si
Funding Awarded:	
Brief Description of sub-project:	SmartMonitor will implement Path4Med “Novel monitoring strategies” in the Slovene Riviera to assess whether runoff from agricultural land significantly pressures coastal organisms and habitats. We will deploy real-time IoT monitoring with alerts (NO ₃ -N, turbidity, COD, EC, ORP, pH, oil-in-water) and conduct routine and event-triggered sampling at two sites: (1) the Rižana River tributary near the Port of Koper and (2) The bay of St. Bartholomew (Debeli rtič protected area). Heavy metals (Cu focus, Pb, Cd, Zn) will be measured by strip voltammetry, complemented by DNA/RNA (eDNA/eRNA) analyses to detect microbial/phytoplankton shifts linked to eutrophication and potential genes related to pesticide degradation. Outputs include a Feasibility Plan, Demonstration Report, A public event and a Scale-up Plan. Expected outcome are early detection of pollution peaks, baseline evidence for management, and a scalable model for routine monitoring and prevention.
Social media of the Responsible local and/or regional public authority (include links for all that apply)	LinkedIn: / Facebook: https://www.facebook.com/VisitAnkaran/ ; https://www.facebook.com/Obcinankaran/?locale=sl_SI X: / YouTube: https://www.youtube.com/@visitankaran9836 Other (please specify): https://www.instagram.com/visit_ankaran/ ; https://www.instagram.com/obcina_ankaran/
Sub-project logo (if available)	/



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Communication Material

Please provide high-quality photos and, where available, short videos for use on the Path4Med website and social media channels. Please send them as separate files.



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the European Union