

Project presentation

AdSWiM | Municipality of Pescara

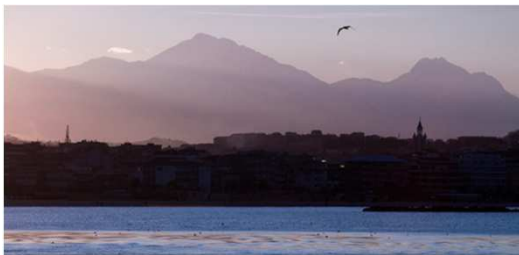
Kick off meeting | Udine | 9-10 of April 2019

About the Organization

Pescara is the most important and biggest city of Abruzzo Region, placed on the Adriatic Coast, at the same name River "Pescara".

Pescara is a modern and young city, of 90 years old, where the tourists should enjoy several services and trade activities and full of amazing events, from music to culture, art, wine & food.

Our city is lively, reachable by land and air from everywhere and where it's nice to stop and come back, also to visit the other beautiful places of Abruzzo.



About the Organization/2

Municipality of Pescara (MoP) has a total staff of about 750 units.

The European Policies Department includes a staff of 5 officials. Each one contributes, in a different way, to complete the expertise of the Department.

This teamwork ensures project management and all the administrative and budget skills. The general knowledge is enriched thanks to the collaboration with other offices, involved in many other projects.

The main target of municipal authority's project is dedicated to monitor and restore degraded marine ecosystems and habitats in the Adriatic Sea and also improving methods to restore a selection of damaged Adriatic marine ecosystems and habitat (Life, Interreg MED).

The position of the city, placed in front of our sister country of Croatia and the common history we share, are the natural bases of a well-established neighborhood relationship. This condition made possible a good partnership in promoting cross-border development and a new concept of knowledge of the different marine ecosystems and habitats.

So, we are able to improve an integrated and wide solution about marine ecosystem quality and use, aimed to protect marine habitats and impacts on the current European Union policies.

Expertise linked with AdSWiM goals

The Municipality of Pescara, through the collaboration with the Abruzzo Region, has give start to the empowerment and modernization of the whole purification system, to improve quality of fluvial waters and, consequentially , of the sea waters. This intervention totally amounts to almost 32 milion euros, applied on POR FSC 2014/2020 european funds.

This project has prevented to remove negative effects of the wastewater promiscuos system collection, through two tipies of solutions.

The first one includes the empowerment of purification plant of the City of Pescara, by works in progress amounting to 12 milion euros, that will be able to extend the purifying capacity treatment of wastewater, even by four times.

The second one is concerned on creating first rain tanks, that contains and treats meteoric waters directioned to the cleaner wastewater in a controlled and progressive way, without forcing his normal rythm of working.



Activities (WP) in AdSWiM project and goals

WP3 Harmonization of the knowledges and plan of the activities

WP3.1 Survey of the knowledges - critical analysis and analysis of existing chemical and microbiological data

To get a general picture of the extent and nature of the water pollution in the area facing the **Municipality of Pescara** it is necessary to collect all the chemical and bacteriological analytical data available, produced in the last ten years, aimed at drafting the Water Protection Plan, at monitoring of bathing water and the monitoring required by Legislative Decree 152/2006 "Regulations on environmental matters". The GIS (Geographic Information System) maps will show the sampling points of the various monitoring programs, the parameters analyzed and the data collected, both chemical and bacteriological. Considerations will also be given to new realizations or restructuring of maritime works such as piers, breakwater barriers and other artifacts that may have interfered with sea currents and therefore with the spread of pollution from the river. The quantitative analysis of the data will be evaluated over time for each sampling point in order to define the diffusion of the pollution and the representativeness of the existing sampling points with respect to the polluting sources. A critical analysis of the situation will follow, which will highlight the measures to be taken to improve water quality.

WP3.2 Selection of sampling points in the marine area (SW) relevant to wastewater purification (DP)

The dispersion of the waters of the Pescara river at the mouth is strongly conditioned by the presence of the port channel, the breakwater and the eastern pier. Considering the predominant winds, the currents and the bathymetry inside and outside the port complex, sampling stations will be identified capable of assessing the quality of the water according to the variables listed above. In addition, monitoring stations will be identified upstream and downstream of the Pescara purifier in order to consider the incidence of the polluting intake, coming from upstream, of the river in addition to that due to illegal discharges. Regardless of the effectiveness of local purification.

Activities (WP) in AdSWiM project and goals

WP4. Innovative solutions in analytical, microbiological controls and to treat urban wastewaters (UWW)

WP4.2 Innovative analytical methods/devices (IAMD) Nutrients and trace elements

In the sampling points used for bathing water samples will be taken for research of pathogenic bacteria such as Salmonella sp, Vibrio spp, Lysteria monocitogenes, Campylobacter spp., Shigella spp. and for Norovirus research to verify the health risk of the population exposed through bathing water. The analyzes will be conducted in parallel with traditional methods and with innovative methods of molecular biology (PCR Polymerase Chain Reaction) based on nucleic acid amplification.

WP4.6 Results analysis

WP5 Technologies and strategies for managing DPs – guidelines definition and cross borders strategies

WP5.1 Investigation on the cross-borders depuration plant technologies, management strategies, transfer of knowledges

WP5.2 WWT process innovation and test of the optimized AdSWiM solutions

WP5.3 Definition of cross-borders strategies of WWT plant management; joint and shared legislative action proposal

Team

(technical staff) (administrative staff) (contact persons)

technical staff

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