

## **71. CLIMATE CHANGE, ADAPTATION AND RESILIENCE PLANNING STRATEGIES**

**21 SETTEMBRE LUNEDI**

**14.30 -16.30 CEST**

Adriatic coastal areas and their communities are increasingly at risk due to the ongoing climate changes, resulting in sea level rise and intensification of extreme events with consequent increase of flooding, coastal erosion and saline intrusion effects. It has therefore become necessary to broaden our knowledge of the phenomenon, in order to develop adequate adaptation strategies for coastal cities to be applied at different planning levels and enhance their resilience.

ASTERIS project aims at improving the knowledge of spatial and temporal variations in seawater intrusion in the Adriatic area, based on future downscaled climate scenarios. Within the project needs and barriers to the management of coastal fresh groundwater resources have been identified and mapped, by means of case studies monitoring and modelling activities in three selected sites: Ravenna and Fano coastal areas in Italy and the Neretva Delta area in Croatia. The final aim of the project is to provide an adaptation plan containing practical tools for sustainable exploitation of vulnerable coastal aquifers.

Programme

**14.30-14.45** Registration

**14.45-15.00** An integrated approach to the vulnerability assessment of Adriatic coastal aquifers due to the climate change impacts on sea level rise and the hydrological cycle

*Simone Galeotti – Urbino University – ASTERIS Project Interreg Italy-Croatia Project*

**15.00-15.15** Hydrogeochemical surveys and aquifer-seawater intrusion modelling: first results from Ravenna's and Fano's (central-eastern Italy) coastal areas

*Barbara Nisi and Marco Doveri – CNR-Institute of Geosciences and Earth Resources – ASTERIS Interreg Italy-Croatia Project*

**15.15-15.30** Adaptation to Saltwater intrusion within the Polder-type Agricultural Catchment

*Monika Zovko University of Zagreb – ASTERIS Interreg Italy-Croatia Project*

**15.30-15.45** Future sea-level rise scenarios and possible impacts along the Emilia-Romagna coast (Italy)

*Luisa Perini – Emilia-Romagna Region, Geological, Seismic and Soil service*

**15.45-16.00** Resilient territorial planning – The experience of Cervia

*Daniele Capitani – Municipality of Cervia, Planning and Territory management division – ADRIADAPT Interreg Italy-Croatia Project*

**16.00-16.15** Questions and discussion

+++