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*the other cover*  
Roberto Diacetti

*the cover* Anna Sirica

Publisher: New Business Media - Via Eritrea, 21 - 20157 Milano - Every second year, 41 issue 30 - March 2018 Complimentary copy with today's Il Sole 24 Ore - Nation. Conv./304/2008 of 1 June 2008

# Safeguarding the environment

*Coordination and problem-solving, looking at the substratum, earthquake protection and the harbour seabed*



RIVER CORNIA: "MEANDERS" ZONE

## A project for the sustainable management of water resources in Tuscany

*Life REWAT, an "innovation" laboratory*



Val di Cornia is an area in central Tuscany tucked between the provinces of Livorno and Grosseto. This is where the project "Life Rewat" is being developed, co-financed by the European Commission, Consorzio 5 Toscana Costa acting as lead partner and ASA SpA, the water services manager, Scuola Superiore Sant'Anna and the Tuscany Region as project partners. "We are aiming to pursue a participatory strategy for the sustainable management of

water resources", explains Alessandro Fabbrizzi, Coordinator of Life Rewat. "We are seeking to integrate socio-economic development and maintain the agricultural ecosystems of the River Cornia coastal plain by rationalising water consumption and working to preserve rainwater". Rudy Rossetto of the Scuola Superiore Sant'Anna of Pisa, the scientific coordinator of the project, adds: "We are acting to recharge the aquifer under controlled conditions, reuse

wastewater for irrigation purposes, improve the quality of the river, use drip irrigation to reduce consumption in agriculture and reduce losses in aqueduct systems. This is a unique project in terms of innovation". Governance actions entail an institutional agreement between all local stakeholders, both private and public: a contract entered into voluntarily by all parties, to serve as the foundation for the water resources management.



LIFE PROJECT: WORKING GROUP AT CERVIA HARBOUR ENTRANCE UP TO THE EDGE OF THE TEST FIELD, 07.2017

Trevi Spa has specialized in underground engineering and deep foundations since 1957. Work on substrate engineering and in the Oil & Gas sector by each of the companies in the group

follows a business model whereby technological information is continuously shared to favour innovation and continuous improvement. The company is also involved in several European projects to develop innovative technologies for application on an industrial scale. Specifically, two Horizon 2020 projects and one LIFE project were acquired in 2016: "three equally important projects for many different reasons," explained Giovanni Preda from the Cesena-based company's Design, Research and Development Service. Our understanding of the environment has led us to work in a variety of fields and these projects give us an opportunity to explore issues which we may be able to further develop and find solutions to."

"TTMJ (Tension Track Milled Joint), an H2020 project which Trevi is le-

ading, looks for pioneering technical solutions to eliminate safety, quality and environmental risks in underground works. Perfect joints can be achieved at any depth, regardless of panel verticality. The second Horizon project is called "Liquefact" and looks at the effectiveness of a series of mitigation actions to improve the ability of a community to withstand liquefaction produced by earthquakes. The project will produce a suite of tools to aid decision-makers identify the most appropriate mitigation actions for their specific circumstances. The final project, LIFE Marina Plan Plus, again coordinated by Trevi, aims to test an innovative and sustainable technology targeting harbour entrance sea beds. Early results from Cervia harbour formed the basis of the system to be installed in the Adriatic city in April.



LIQUEFACT PROJECT: GROUP PHOTO DURING THE CONSORTIUM MEETING IN NAPLES, OCTOBER 2017



TTMJ PROJECT: BOOTH AT THE DFI CONFERENCE ON DEEP FOUNDATIONS IN NEW ORLEANS, OCTOBER 2017