FINAL CONFERENCE OF AQUIFER PROJECT IN PORTUGAL

Innovative instruments for the integrated management of groundwater in a context of increasing scarcity of water resources

14th March 2023, Tuesday | **REGISTRATION HERE**

9:30	**Delegate welcome and registration**
10:00	**Opening remarks** **Laura Caldeira** *President of LNEC – National Laboratory of Civil Engineering* **José Saldanha Matos** *President of PWP – Portuguese Water Partnership*
10:30	**AQUIFER project presentation** **José Luis García Aróstegui** *Full Researcher of IGME - Geological and Mining Institute of Spain and leader of the AQUIFER Project*
11:00	**Presentation of main project results** Groundwater monitoring networks in real time **Pablo del Amor Saavedra** *Head of ICT in the Irrigation Community of Cartagena field* Tools for prediction of groundwater level and Decision Support System **Sandra Béranger** *Project Manager at BRGM – National Geological Service of France* Hydrogeological modelling in Campo de Cartagena –Mar Menor Case Study **José Luis García Aróstegui** *Full Researcher of IGME - Geological and Mining Institute of Spain and leader of the AQUIFER Project* Groundwater and agricultural practices ***Claúdia Marques dos Santos** Professor in Instituto Superior de Agronomia da Universidade de Lisboa* Aquifer Project Platform and Good practices eBook **Simon Olivier,** *Aquavalley*
12:15	**Project debrief -** Roundtable discussion on lessons learned and future work avenues Moderator: **João Simão Pires**, *Executive Director of PWP – Portuguese Water Partnership*

12:45	**Closing remarks**
	Miguel Carrinho *General Manager of AR – Águas do Ribatejo, E.I.M., S.A*

13:00 *"Finger food" lunch*

AQUIFER TECHNICAL WORKSHOP

Conducted by **Sandra Béranger** *Project Manager at BRGM – National Geological Service of France*

Target audience:

Groundwater management authorities and related organisations; institutions; hydrogeologists; academia and researchers, water organizations.

Context:

GARDENIA (acronym for Modèle Global À Réservoirs pour la simulation de DÉbits et de NIveaux Aquifères) uses meteorological data series related to catchment area (precipitation, potential evapotranspiration, air-temperature) to calculate:

- the flow rate at the outlet of a river (or spring);
- and / or the groundwater level at a given location in the underlying unconfined aquifer.

GARDENIA is an application for lumped hydrologic modelling. It simulates the main water cycle mechanisms in a catchment basin (rainfall, evapotranspiration, infiltration, runoff) by applying simplified physical laws for flow through successive reservoirs.

Agenda:

14:00	**Welcome and introduction**
14:10	The GARDENIA software: groundwater level modelling
16:00	The météEAU'Nappes website: groundwater level forecasts
17:00	The VIGINappe website: groundwater withdrawal forecasts
18:00	Site application example
18:20	**Closing remarks and closure**