PROJECT PARTNERS

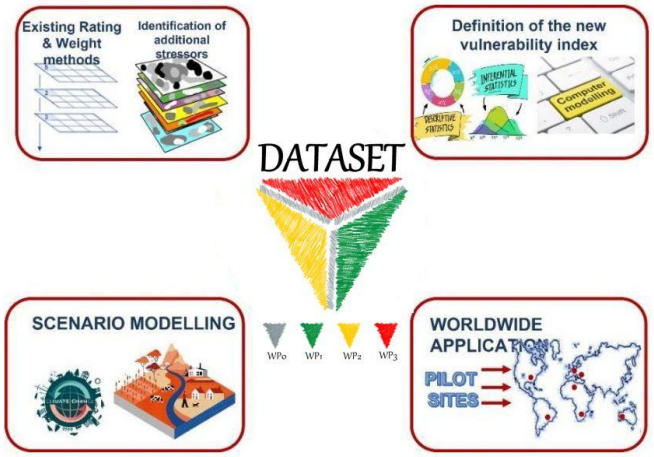
Università degli Studi della Campania *Luigi Vanvitelli*

GDAŃSK UNIVERSITY OF TECHNOLOGY

UNIVERSITY *of the* WESTERN CAPE

Universidade de São Paulo

AVIGNON UNIVERSITÉ



Water4All
Water security for the planet

WEBSITE & SOCIAL MEDIA

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DATASET

GrounDwater sAlinizaTion and pollution AsseSsmEnt Tool

Assessing aquifer vulnerability to both Salinization Processes and Agricultural Leaching represents an essential tool to soundly manage groundwater resources. The novelty of DATASET relies in the implementation of a holistic approach for the quantification of the vulnerability of coastal areas using open-source databases.

DATASET is part of the Water4All program supported by the European Union (Project number: WATER4ALL22_00084)

OBJECTIVES:

Objective 1:

- Develop and apply a new methodology to create vulnerability maps through a holistic assessment of coastal aquifers coupling the evaluation of *Agricultural Leaching* and *Salinization Processes* to improve water governance, aimed at early warning, prevention, and mitigation of groundwater quality degradation in the present and future conditions, accounting for impacts of *Climate Change* and *Hydrological Extreme Events*.

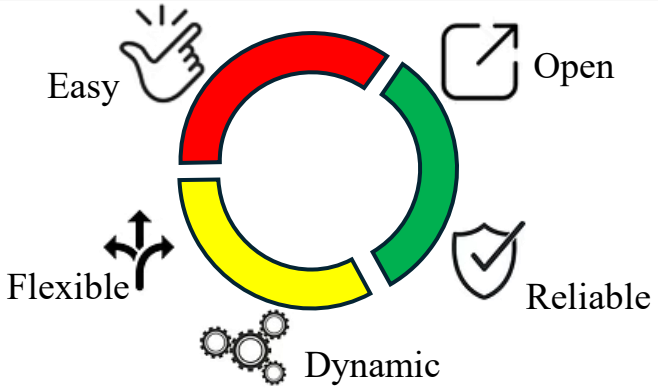
Objective 2:

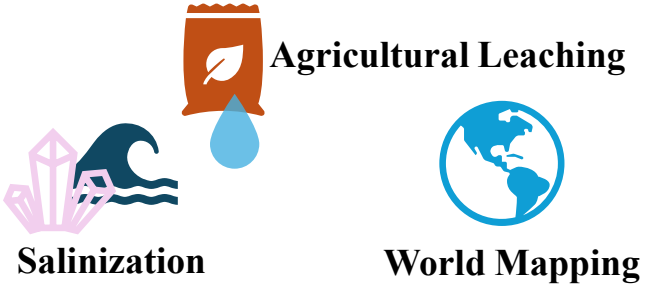
- Promote a paradigm shift in water management, through internet access to data and models, dissemination of management tools for planning and societal implication and their transfer to stakeholders.

Objective 3:

- Promote social awareness on the importance of groundwater and its sensitivity to *Climate Change* and *Hydrological Extreme Events* from stakeholders and decision makers to end users.

DATASET WILL BE:





Work Package 0

- Project management
- Data management
- Web platform

Work Package 1

- Creation of a GIS-based database
- Selecting and modifying DATSET parameters
- DATASET model equation

Work Package 2

- Project management
- Data management
- Web platform

Work Package 3

- Creation of GIS plug-in
- Free GIS tool created and available
- Full operation of the DATASET index