



HELLENIC REPUBLIC
MINISTRY OF DEVELOPMENT
GENERAL SECRETARIAT FOR RESEARCH AND
INNOVATION
**HELLENIC FOUNDATION FOR RESEARCH AND
INNOVATION**



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WP6
D6.3: Open access research portal and database

Spatially Explicit Digital Twin of the Greek Agro-Hydro-System



ID 14815

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Open access research portal and database
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Open Access Research Portal and Database

Introduction

The Open Access Research Portal and Database developed under WP6 provides a platform for hosting, documenting, and disseminating the datasets, and outputs produced throughout DT-Agro.

The portal is available at:

<https://gisnas.aua.gr:5001/d/s/164C73AFEUgVoiiC7ulzUbE8jhoDe8O2/yZPGA0FGI3pLD-BsBtpUWNXBpmd4QyWh-KbhAQMLazAw>

Purpose and Content

The portal hosts a collection of datasets processed during the project, including land-use and land-cover products, soil datasets, meteorological datasets, hydrological layers, NDVI-derived indicators, and outputs from the Digital Twin. More specifically it includes:

- Earth Observation datasets (NDVI time series, imperviousness density, soil moisture).
- Land Use/Land Cover layers (CORINE and CLCplus Backbone) harmonized to the DT-Agro spatial grid.
- Meteorological datasets (AgERA5 extractions, evaluation statistics).
- Soil datasets
- Hydrological terrain derivatives (flow direction, accumulation, slope, velocities) derived from EU-DEM.
- Outputs, including Curve Number maps, soil moisture simulations, evapotranspiration estimates, and preliminary scenario analyses.
- Field data (soil moisture, soil properties, irrigation measurements etc.).

The repository is organized into categories, allowing users to navigate and retrieve information efficiently. Additional datasets such as AgERA5 updates, future land-use scenarios, soil datasets, and outputs will also be integrated to ensure that the portal remains current and comprehensive. This architecture supports long-term scalability and enables the platform to serve as a repository beyond the project's end.