

Sub-project description for the website

Sub-project Title:

An integrated digital twin for nutrient risk assessment and policy evaluation in the Eilat agro-hydro-marine system

Sub-project Acronym:

NutriTwin

Responsible local and/or regional public authority:

Municipality of Eilat — <https://www.eilat.muni.il>

Location of the sub-project:

Eilat-Eilat region, Israel — Gulf of Eilat-Aqaba / Red Sea

Local and/or regional public authority logo:



**THE EILAT-EILLOT
ENVIRONMENTAL UNIT**

Description of the local and/or regional public authority:

The Municipality of Eilat is the local public authority of Israel's southernmost city, on the Gulf of Eilat-Aqaba (Red Sea) and the only Israeli Mission City. Through the Eilat-Eilat Environmental Unit, it leads projects related to mitigation, adaptation, coastal management, EU projects, environmental education and community engagement. As part of the city's vision, Eilat is advancing ICZM to protect its sensitive desert-marine ecosystem and coral reef while supporting sustainable development.

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Funding Awarded:

€100,000

Brief Description of sub-project:

NutriTwin addresses fragmented nutrient-related data and decision-making tools in the Eilat-Eilat agro-hydro-marine system. Nutrient inputs from urban runoff, agriculture, wastewater and infrastructure can move from land to groundwater, surface water and the Gulf of Eilat-Aqaba, risking soil, coastal waters and coral ecosystems. The sub-project will implement Path4Med Solutions 4 and 8 by adapting data aggregation, modelling, digital twin and policy-enabled scenario analysis methods. NutriTwin will integrate monitoring, regulatory and scientific data into an interactive platform, map nutrient pathways and hotspots, and test "what-if" planning and policy scenarios. The expected impact is stronger evidence-based nutrient governance and a scalable model for other Red Sea, Mediterranean coastal regions and Mission Cities.

LinkedIn: Eilat-Eilat Environmental Unit
Facebook אילת הסביבה ; עיריית אילת
/ X / Eilat-Eilat Environmental Unit
Instagram eilat.environment ; eilatmuni

YouTube: to be completed by Municipality of Eilat.

Other: <https://www.eilat.muni.il>

Photos and videos will be provided separately when available.

Sub-project logo



NutriTwin