



PROJECT

# TRANS-SAHARA

*Novel WEF E Nexus-based approaches towards agroforestry management in the Greater Northern African Region*

The TRANS-SAHARA project is pioneering agroforestry as a transformative solution to combat climate challenges across the Greater Northern African Region (GNAR). By integrating water security with sustainable land use through the Water-Energy-Food-Ecosystems (WEFE) Nexus approach, the project addresses critical issues such as drought, degraded land, and limited water resources. Using cutting-edge tools, scalable agroforestry strategies, and innovative business models, TRANS-SAHARA aims to restore degraded lands, boost crop yields, and double farmers' incomes while creating new carbon sinks



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**21**

PARTNERS

**15**

COUNTRIES

**€5.5 M**

TOTAL BUDGET

**36**

MONTHS



## TRANS-SAHARA

IN ONE CLICK		
<b>Coordinator</b>	<b>Programme</b>	<b>Period</b>
TUM	Horizon Europe	2024-2027
<b>Sector</b>	<b>Web</b>	
AGROFORESTRY	<a href="https://trans-sahara.eu/">https://trans-sahara.eu/</a>	

01  
Challenge

The GNAR faces significant climate challenges, including droughts and scarce water resources, posing significant vulnerability. Agroforestry offers potential for mitigating these issues, but its implementation in arid and semi-arid regions is hindered by data gaps, water scarcity, and limited stakeholder capacity.

02  
Solution

The TRANS-SAHARA project seeks to break down these barriers by embedding water security into agroforestry systems using an innovative Water-Energy-Food-Ecosystems (WEFE) Nexus approach. By deploying innovative technological nature-based solutions (NBS), advanced measurement technologies, scalable agroforestry models, and sustainable business strategies, the project aims to enhance community livelihoods and promote long-term adoption.

03  
Impacts

By bridging knowledge gaps, improving crop yields, and establishing carbon sinks on degraded land, the TRANS-SAHARA project will contribute to socio-economic growth and climate resilience. Its participatory, multi-stakeholder approach aspires to achieve widespread adoption across Africa by 2030, fostering sustainable development and bolstering climate change mitigation and adaptation efforts in Africa and beyond.