



# Diagnosing drought for drought management in 3D

From 2019-2023 | Total budget € 500,000\*

This project is a joint effort of Brazilian and Dutch organizations including: Wageningen University (WRM, HWM and PAP chair groups); the Research Institute of Meteorology and Water Resources (FUNCEME); the Federal University of Ceará (UFC) and the Brazilian Research Agricultural Corporation, National Research Tropical Agroindustry Center (EMBRAPA).

To improve drought management, human influences on drought must be better understood. Current frameworks for drought monitoring and water accounting offer little help in distilling human influences on drought. We combine insights from socio-hydrology and water management to produce an entirely new approach, incorporating the study of water-related human dimensions (D1), socio-hydrological dynamics (D2), and the structuring of dialogues (D3) among actors. The project will develop and test the integrated, participatory 3D Drought Diagnosis (3DDD) toolbox. The test case is the drought-affected Northeast Brazil. Finally, the 3DDD toolbox can be used to enable existing drought monitors to provide contextualized information in drought-affected regions worldwide. We will demonstrate how proposed drought management solutions perform with regard to cross-scale synergies and trade-offs in relation to the UN SDG 2, 6, 10, and 13.

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**More information:**

[www.wur.eu/diagnosingdrought](http://www.wur.eu/diagnosingdrought)

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