



IST - LNEC Joint Doctoral Initiative

Thesis Topic Proposal Form

TITLE: Mitigate water scarcity through nature-based solutions using managed aquifer recharge. Hydrological and hydrogeological studies, and decision support protocol development.

Short Description (max. 500 characters)

Managed Aquifer Recharge (MAR) comprises a set of techniques that provide innovative solutions to enhance water resources management, particularly in countries exposed to recurrent drought and flood periods. The main objective of this doctoral project is to develop a decision support protocol that combines studies on water availability with spatial physical characteristics, aiming to decide the best location and the most feasible MAR techniques.

Keywords: Managed aquifer recharge; water availability; water management; nature-based solutions; scarcity

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