

PROJECT: INTEGRATED PROGRAM FOR MONITORING DISPLACEMENTS AT THE TAVROPOS DAM – LAKE PLASTIRAS, KARDITSA PREFECTURE

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DURATION (MONTHS): 9 months

DEPARTMENT: Department of Topography

FINANCIER: DEI

DESCRIPTION: Displacements and deformations detection in large or smaller constructions is one of the main areas of expertise for a surveying engineer. The installation of control points, both on the constructions and their surrounding areas, has been practiced since ancient times, with measurements conducted over time using geotechnical and geodetic methods. One such construction is the Tavropos Dam, was built by the Public Power Corporation (PPC) between 1955 and 1960. It was the largest construction of its time for the Prefecture of Karditsa and whole Greece. While control networks were installed and measured in the past using older methodologies, recent years have seen a decline in systematic monitoring of deformations in two or three dimensions. Therefore, the objective of this research is to create an integrated program for monitoring displacements of the dam, following modern trends and utilizing new technologies for measurement, processing, and visualization of displacements.