PROJECT: LAND USE MAPPING WITH SATELLITE DATA IN GREECE

SCIENTIFIC DIRECTOR: K. Karantzalos

DURATION (MONTHS): 60 months

DEPARTMENT: Department of Topography

FINANCIER: SUPCO Sustainable Urban Planning Consultants

DESCRIPTION: The project uses satellite data and artificial intelligence for land use mapping in island and mainland regions. By analyzing high-resolution images, landscapes, residential and agricultural zones, as well as natural and man-made features, are recorded. Machine learning algorithms automate classification, providing accurate data for planning. The historical development of construction is studied through archival and contemporary data, analyzing changes and development trends. This approach contributes to understanding landscape dynamics and formulating proposals for sustainable management. The results are presented in maps and reports, supporting rational planning and environmental protection.