

# ↓ GEOGNOSI S.A.

Consultant Engineers & Geologists

Ground Investigations & Monitoring \* Laboratory & In-situ Testing \* Engineering Design \* Construction Supervision



Geotechnical and Geoenvironmental Investigations  
Engineering Laboratory Testing  
In-situ Testing, Measurements & Geotechnical Monitoring  
Geotechnical Engineering Design  
Management & Supervision of Advanced Geotechnical Works  
Environmental Monitoring & Soil Remediation  
Hydraulic Projects / Dam Design  
Industrial & Renewable Energy Projects  
Pavements Design and Foundation  
Construction Supervision

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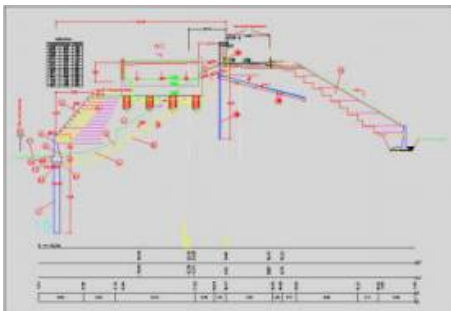
### Company's Information Brochure



Geotechnical and Geoenvironmental Investigations  
Engineering Laboratory Testing  
In-situ Testing, Measurements & Geotechnical Monitoring  
Geotechnical Engineering Design  
Management & Supervision of Advanced Geotechnical Works



Geological Surveys & Studies  
Environmental Monitoring & Soil Remediation  
Hydraulic Projects / Dam Design  
Industrial & Renewable Energy Projects  
Pavements Design and Foundation  
Construction Supervision



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## 1. INTRODUCTORY NOTE

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**GEOGNOSI S.A. Consultant Engineers and Geologists**, established back in 1983 in Thessaloniki, Greece, is a privately - owned leading consultant firm, 100% independent from any construction and industrial group, that provides state-of-the art geotechnical engineering services domestically and internationally for both the public and private sector. Its activities include, but not limited to ground investigation and monitoring, in-situ and laboratory testing, geotechnical design studies, construction supervision and geotechnical assistance for all phases of project implementation.

Geognosi S.A. is registered at the Greek National Bureau of Engineering Consulting Firms (ΓΕΜ) with registration number 232 and holds the highest “E level” of certification in Greece with regards to its geotechnical engineering activities. Its operations run based on the EN ISO 9001:2015 and ISO 14001:2015 quality control systems, both issued by TUV NORD. It has been member of the AGS union (Association of Geotechnical & Geoenvironmental specialists) since 2006 and its name is also mentioned at the Partners List of the World Bank (DACON database), as its activities have been expanded worldwide.

Geognosi S.A. operates in a two - storey office building ( $\cong 1.000m^2$ ) in Thessaloniki with a very large basement, which hosts our engineering laboratory, and with a separate private courtyard ( $\cong 3.500m^2$ ), which operates also as a parking lot for our vehicle fleet and machinery units.

Geognosi S.A. possesses many proprietary ground survey machinery units (such as drilling rigs, penetrometers, etc), and an advanced and fully licensed geotechnical engineering laboratory, all fully equipped and staffed with experienced permanent employees. It also possesses, a well - developed engineering Design Department, staffed by numerous specialized permanent experts and executives working in the firm for several years in various parts of their expertise (such as civil / geotechnical engineers and geologists, most of them with post-graduate studies in Masters and Ph.D's, accounting staff, specialized technicians, secretaries, etc.).

As a conclusion, our given full professional services provided by our people in conjunction with our available advanced engineering software packages and technical support equipment, *guarantee not only the rapid preparation, but also the technically optimal and “best value for money” delivery of our engineering services to the clients.*

Managing Director/C.E.O.



N. Naskos

Civil Engineer NTUA  
Dr. Geotechnical E.C.Paris

# CERTIFICATE

Management system as per

**DIN EN ISO 9001 : 2015**

The Certification Body TÜV NORD CERT GmbH hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organization

**GEOGNOSI S.A.**  
**CONSULTANT ENGINEERS & GEOLOGISTS**  
570 01 Thermi, Thessaloniki  
Hellas

operates a management system in accordance with the requirements of ISO 9001 : 2015 and will be assessed for conformity within the 3 year term of validity of the certificate.

Scope

- Execution of Geotechnical Investigations and Studies
- Conducting of Laboratory Tests in the field of Geotechnical Engineering
- Geological, Hydraulic, Structural and Environmental Studies
- Provision of Engineering Consulting and Construction Supervision Services on the above mentioned fields

Certificate Registration No. 44 100 074657  
Audit Report No. GR-2306/2022

Valid from 2022-11-23  
Valid until 2025-11-22  
Initial certification 2007



Certification Body  
at TÜV NORD CERT GmbH

Athens, 2022-11-15

# CERTIFICATE

Management system as per

**ISO 14001 : 2015**

**Environmental Management Systems - Requirements with guidance for use**

In accordance with TÜV HELLAS (TÜV NORD) S.A, procedures, it is hereby certified that

**GEOGNOSI S.A.**

**Consultant Engineers & Geologists**

**570 01 Thermi, Thessaloniki**

**Hellas**

applies a management system in line with the above standard for the following scope

- Execution of Geotechnical Investigations and Studies
- Conducting of Laboratory Tests in the Field of Geotechnical Engineering
- Geological, Hydraulic, Structural and Environmental Studies
- Provision of Engineering Consulting and Construction Supervision  
Services on the above Mentioned Fields

Certificate Registration No. 042 18 0059

Audit Report No. EM-1053/2021

Valid from 2021-10-16

Valid until 2024-10-15

Initial certification 2018

*3 Kalala*

TÜV HELLAS (TÜV NORD) S.A. Certification Body

Athens, 2021-10-15

This certification was conducted in accordance with the TÜV HELLAS (TÜV NORD) S.A. auditing and certification procedures and is subject to regular surveillance audits.



**User certification of AGS**



**This is to certify that**

***Geognosi SA***

**is a Registered User**

**of the AGS Format Edition 3.1**



**March 2006**

Registration No.2075

## **2. SERVICES AND MAIN ACTIVITIES**

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Our primary engineering activities include - but not limited to - the consulting and supervision services in the field of geotechnical, geological and geoenvironmental engineering for motorways, railways, earthworks, bridges, building facilities, industrial / energy projects and any other type of big infrastructure for both the public and private sector as well as for the construction companies. More specifically, we provide services in the following areas:

- ***Geotechnical Investigations and In - Situ Testing***
  - On-shore and off-shore geotechnical investigations (boreholes, CPTs, etc.).
  - Pressuremeter tests (Menard type)
  - Cone penetration tests CPT
  - Standard penetration tests ( $N_{SPT}$ )
  - In - situ ground permeability tests and pumping tests
  - In-situ strength tests
  - Pile and Plate loading tests
  - Pile integrity tests
  - Ultra sonic tests
  - Cross - hole and down - hole tests
- ***Geological Surveys and Studies***
  - Geological and hydrogeological investigations and studies
  - Geological feasibility studies
  - Geological supervision during construction
- ***Geoenvironmental Investigations, Monitoring and Soil Remediation***
  - Environmental Impact Assessment studies
  - Phase I and Phase II geoenvironmental surveys and sampling
  - Waste characterization and management
  - Soil fixation and decontamination
- ***Engineering Laboratory Testing***
  - Full scale laboratory tests on soil and rock samples with respect to soil and rock mechanics
  - Full scale laboratory tests on structural and building materials (asphalt, concrete, aggregates, etc)
  - Geochemical analyses of soil and ground water samples (geoenvironmental)
- ***Geotechnical Engineering Design***
  - Foundation Design of Structures and Buildings
  - Earthworks - Roads and Railways
  - Ground Improvement
  - Slope Stability of Cuts and Embankments
  - Earth Retaining Structures
  - Soil and Rock Nailing
  - Reinforced Embankments - Geosynthetics
  - Landslide Stabilization
  - Tunnel and Underground Structure Design

- Port and Marine Geotechnical Engineering
- Dams
- Industrial and Renewable Energy Projects
- Pavements Design and Foundation
- Soil Corrosion and Rock - Falling Control
- Geosynthetic applications
- ***Managing, Design & Supervision of Advanced Geotechnical Works***
  - Preloading
  - Cement and Grout Injections
  - Piles and Micropiles
  - Vertical Plastic Drains
  - Stone and Lime Columns
  - Dynamic Compaction, Vibrocompaction, etc
  - Ground Anchors and Anchored Systems
  - Jet Grouting
  - Soil and Rock Nailing
  - Reinforced Embankments - Geosynthetics
- ***In situ Measurements & Monitoring***
  - Quality Assurance - Quality Control Material Testing
  - Incliner Application and Testing
  - Apparatus installation, measurement recordings and interpretation of settlement, lateral displacement, pore pressure and deformation results
  - Environmental hazardous material identification
- ***Hydraulic Works & Dam Design***
- ***Construction Supervision for infrastructure and transportation projects***

Before



After



- Landslide rehabilitation in Lefkada island, Greece

### **3. GROUND INVESTIGATIONS, IN-SITU TESTING & MONITORING**

GEOGNOSI S.A. owns all the equipment required to perform all types of ground investigations (such as drilling rigs, penetrometers, pressiometers, etc.) and in-situ testing and monitoring (plate and pile loading tests, etc.). The company also owns a complete fleet of transportation vehicles to support its wide range of activities.

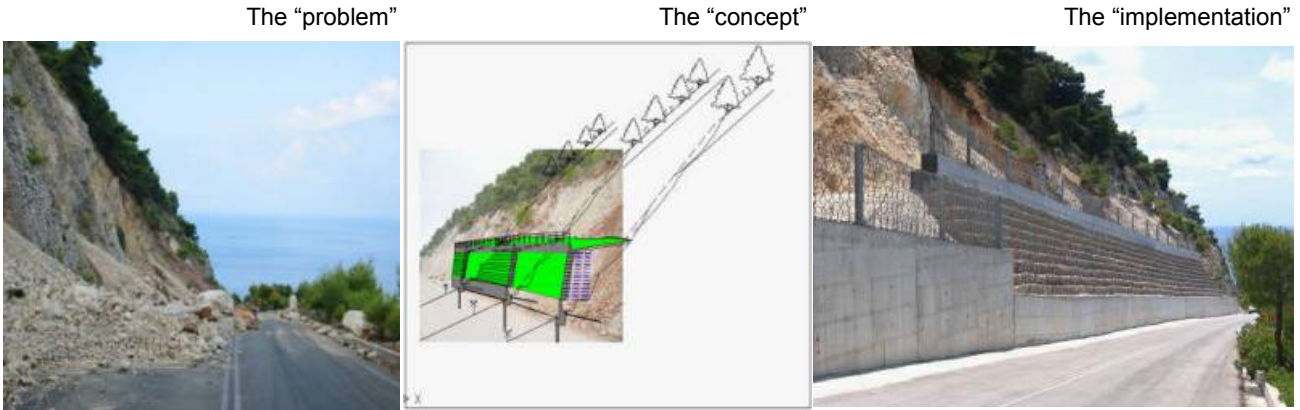


## **4. GEOTECHNICAL & GEOENVIRONMENTAL ENGINEERING LABORATORY**

GEOGNOSI's fully licensed and accredited according to EN 9001:2015 standard geotechnical and geoenvironmental laboratory provides state of the art services in the field of laboratory testing with respect to soil and rock mechanics. It operates in an atmosphere-controlled room of 330m<sup>2</sup> and is equipped with all the necessary testing devices, instruments and apparatuses. The laboratory's permanent staff includes 4 qualified geologists and technicians.

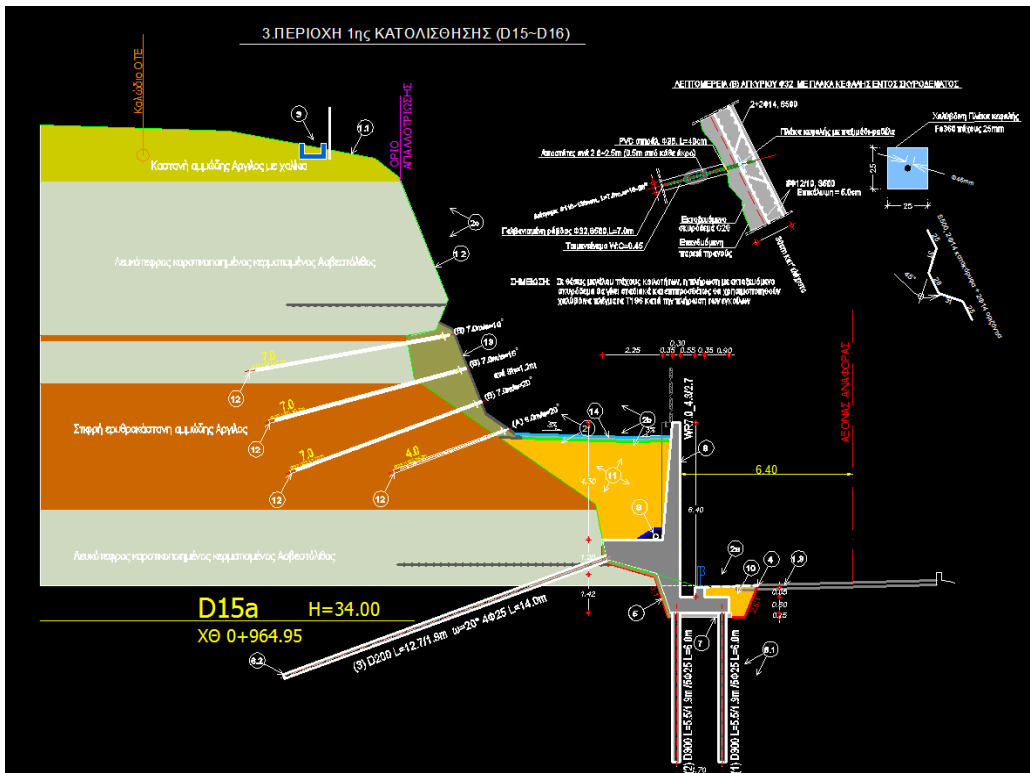


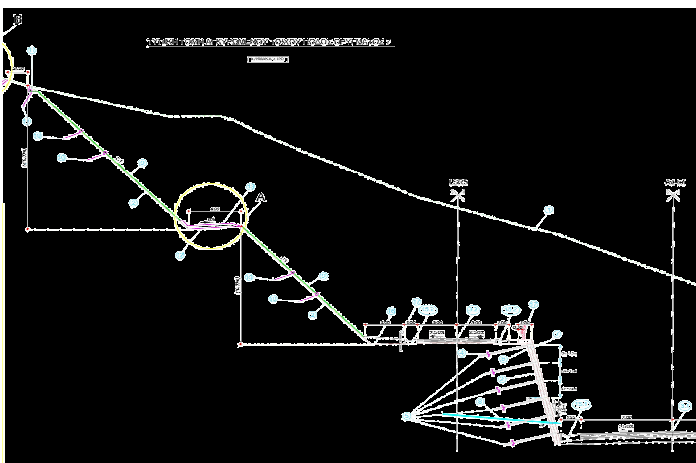
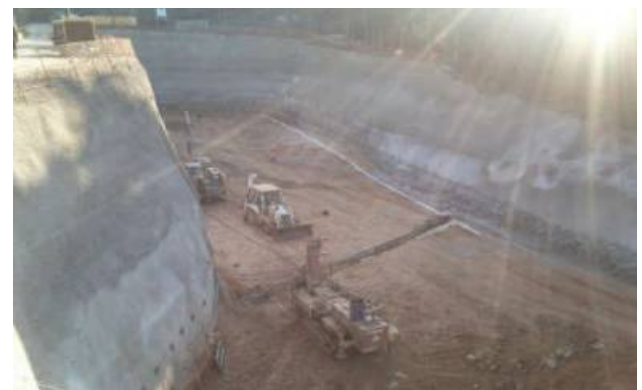
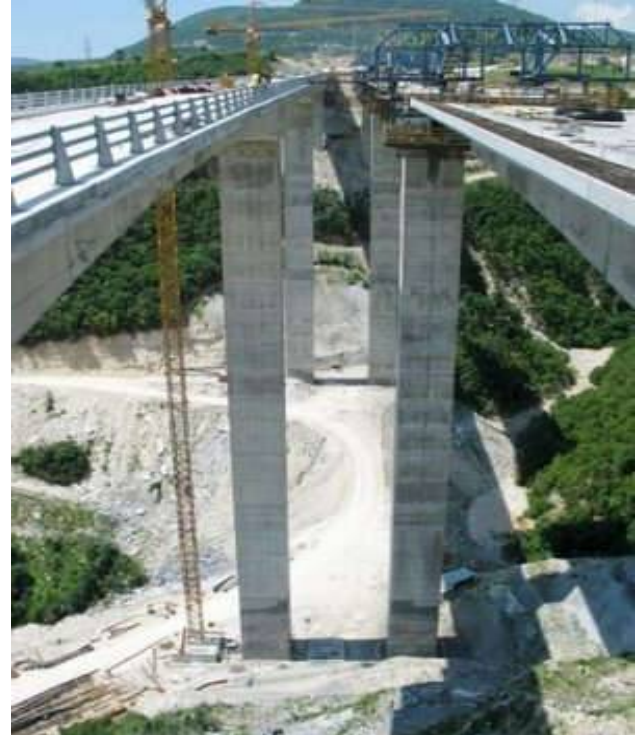
## 5. ENGINEERING DESIGN STUDIES

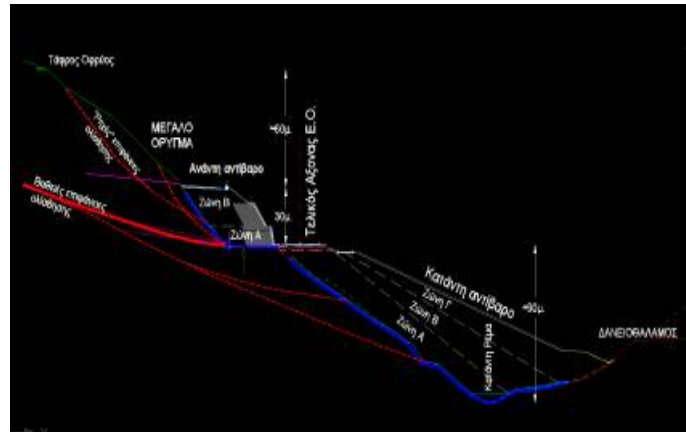


Amongst others, GEOGNOSI S.A. presents:

- Increased geotechnical activity in both ground surveys and engineering designs in Greece and worldwide with approximately 180-200 geotechnical, geological and geoenvironmental design studies carried out every year in house for the public sector, the private sector as well as for the construction companies. As a result, more than 3.500 total projects have been successfully completed during the (more than) 3 decades of continuous company's activity.
- Extensive experience on providing consulting engineering services in the field of foundations, retaining structures, earthworks, soil improvement, monument repairing, etc.
- Extensive research projects in activity with foreign research institutes and companies.
- Participation in conferences and publication of articles or books by individuals or groups of GEOGNOSI's S.A. scientific consultants and associates in the field of geotechnical, geological and geoenvironmental engineering.







**“Big Cut stabilization” in Egnatia Odos motorway - Design**



**“Big Cut stabilization” in Egnatia Odos motorway - During Construction**



**“Big Cut stabilization” in Egnatia Odos motorway - During Operation**

## 6. INTERNATIONAL EXPERIENCE

Geognosi S.A. is able to provide its unique engineering consultant services not only in Greece, but also worldwide as indicated in the following graph, since most of the Company's permanent senior engineers and geologists hold post-graduate degrees, are multi - lingual, willing to travel abroad and mostly, can provide project support as Experts in their respective area not only during project design, but also during construction (as part of construction supervision services).



Geognosi S.A., when involved with projects in developing countries, is always associated with local engineering firms, making thus available to take advantage of the existing knowledge of the local conditions and on the other hand, to transfer international technology to locals.

Some representative geotechnical projects that Geognosi S.A. has delivered world wide, are summarized next:

- Project : Development of Ayia Napa Marina, Cyprus Phase: Villas, Towers and Commercial Buildings  
Country : **CYPRUS**  
Service provided : Geotechnical pile and dewatering design[3680]  
Client : TERNA OVERSEAS LIMITED
- Project : Design & Rehabilitation of the Unsanitary Dumpsite "CAFE" in Municipality of BAR  
Country : **MONTENEGRO**  
Service provided : Detailed Geotechnical Design of a Reinforced embankment and the capping system with geosynthetics [3610]  
Client : PHYSIS MONTENEGRO
- Project : Construction Works of Corridor X, E80 Motorway, Nis (Prosek) - Dimitrovgrad (Border Crossing with Bulgaria) CORRX.E80.WB.PACK1-RW2.ICB Dimitrovgrad bypass – Border crossing  
Country : **SERBIA**  
Service provided : Detailed geotechnical design study of the rectification of the landslided "Gradinje" cut [3671]  
Client : OGRANAK AKTOR BEOGRAD / WORLD BANK
- Project : TIRANA - Elbasan Highway  
Country : **ALBANIA**  
Service provided : Final design of mitigation and stabilization measures for several landslides [3557]  
Client : J/V "Copri-Aktor"

- Project : Consultancy services for infrastructure design and supervision services for the second industrial city in Dammam  
Country : **SAUDI ARABIA**  
Service provided : Checking of geotechnical design studies [3802]  
Client : SALFO & Associates Saudi Arabia
- Project : *Dames - Tepelene Road Construction, Section Memaliaj - Tepelene*  
Country : **ALBANIA**  
Service provided : Laboratory tests on soil and rock samples [3180]  
Client : GEODATA S.p.A.
- Project : *Lamaka Port & Marina / Soil Investigation*  
Country : **CYPRUS**  
Service provided : Performing pressuremeter tests and results evaluation [3203]  
Client : Alivizatos Andreas
- Project : *Construction of the Dames-Tepelene section of the north-south corridor*  
Country : **ALBANIA**  
Service provided : Ultrasonic crosshole tests foundation piles of bridge 2.09 and 2.15. Results interpretation [3223]  
Client : AEGEK CONSTRUCTION S.A.
- Project : *Durres Albanian*  
Country : **ALBANIA**  
Service provided : Geotechnical investigation with cone penetration tests [3185]  
Client : GEOSTAND & Partners
- Project : *Extension and new dock construction of the port SHENGJIN*  
Country : **ALBANIA**  
Service provided : Geotechnical and geological investigation and studies [3121]  
Client : POSEIDON XXL Sh.p.k.
- Project : *Construction of the Dames-Tepelene section of the north-south corridor, contract 02*  
Country : **ALBANIA**  
Service provided : Pile ultrasonic crosshole tests on the foundation piles of bridge BR2.08 - Results evaluation [3133]  
Client : AEGEK CONSTRUCTION S.A. / ALPINE Bau GmbH
- Project : *Sofia South Ring Mall*  
Country : **BULGARIA**  
Service provided : Engineering consultant services and checking of the structural and geotechnical design studies [3063]  
Client : SOUTH RING MALL SOFIA E.A.D.
- Project : *Design, Build and Operate of the Astromeritis Sewage Treatment Plant and Associated Works"*  
Country : **CYPRUS**  
Service provided : Geotechnical study during tender procedure [3145]  
Client : AKTOR S.A.
- Project : *Construction of the Skopje Bypass Motorway, Section: "ORIZARI – SARAJ", Embankment at K.P. 17+650*  
Country : **NORTH MACEDONIA**  
Service provided : Laboratory tests on soil samples - results evaluation [3126]  
Client : TERNA S.A.



Performing Ultrasonic Tests on pile foundation of a bridge at the Melong - Dschang road in Cameroon

- Project : *Bridge construction at the Ayos - Abong - Mbang road*  
Country : **CAMEROON**  
Service provided : Performing Ultrasonic Tests on Pile foundation - Results evaluation  
Client : PANTECHNIKI S.A. / EDOK-ETER
- Project : *Central Storehouse of LIDL*  
Country : **CYPRUS**  
Service provided : Ground improvement and foundation design [2432]  
Client : LIDL Cyprus
- Project : *Drainage of Bucharest wastewater Treatment plant Rehabilitation*  
Country : **ROMANIA**  
Service provided : Design of drainage works [2622]  
Client : J/V: "AKTOR S.A. - ATHINA S.A."
- Project : *Rock - fall stabilization in Episkopi, Pafos*  
Country : **CYPRUS**  
Service provided : Laboratory tests on rock samples and detailed Geological Investigation and Study [2504, 2564]  
Client : ITSAK / PERFECTURE OF PAFOS, Cyprus
- Project : *Bridge construction at the Melong - Dschang road*  
Country : **CAMEROON**  
Service provided : Performing Ultrasonic Tests on Pile foundation - Results evaluation  
Client : GEOTEST S.A. / Andrade-Gutierrez
- Project : *Physical Refining and Biodiesel Plant at Lehliu, Romania*  
Country : **ROMANIA**  
Service provided : Soil improvement of the laboratory building area with stone columns [2426]  
Client : THEMELIODOMI S.A.
- Project : *(P375JA) Jebel Ali Berths 44-48Q Quay Wall Deepening*  
Country : **DUBAI / U.A.E.**  
Service provided : Geotechnical consulting [2268]  
Client : ARCHIRODON CONSTRUCTION CO.S.A.
- Project : *Extension of the Szeged Municipal Wastewater Treatment Plant, Construction of the biological WWTP*  
Country : **HUNGARY**  
Service provided : Geotechnical Report for the tender procedure [2239]  
Client : THEMELIODOMI S.A.
- Project : *Victoria Business Plaza, Bucurest, Romania*  
Country : **ROMANIA**  
Service provided : Pile loading tests - supervision [2313]  
Client : TEROM THEMELIODOMI S.R.L.
- Project : *Wastewater Treatment Plant in Braila City*  
Country : **ROMANIA**  
Service provided : Geotechnical Report on Foundation condition [2186]  
Client : THEMELIODOMI S.A.
- Project : *Lebanon - Tripoli port extension contract-II, Construction of quay wall, dredging of the port and reclamation*  
Country : **LEBANON**  
Service provided : Geotechnical evaluation and study [2206]  
Client : ARCHIRODON CONSTRUCTION CO.S.A.
- Project : *Construction of an industrial unit at Georgoutsati*  
Country : **ALBANIA**  
Service provided : Geotechnical investigation, evaluation & design [1968]  
Client : PALLAS S.A. / J/V: MORNOΣ S.A. - MORPACK
- Project : *Constanza Sewerage and Wastewater Treatment Rehabilitation Project*  
Country : **ROMANIA**  
Service provided : Geotechnical investigation, evaluation and foundation design [1731, 1867, 1917]  
Client : THEMELIODOMI S.A.
- Project : *Kumanovo Waste Water Treatment Plant*  
Country : **NORTH MACEDONIA**  
Service provided : Geotechnical investigation, evaluation and foundation design [1894, 2005]  
Client : THEMELIODOMI S.A.
- Project : *Rehabilitation of Wastewater Treatment & Sewerage Improvements for Timisoara City*  
Country : **ROMANIA**  
Service provided : Geotechnical Study and foundation design [2031]  
Client : THEMELIODOMI S.A.
- Project : *Berths 44-48 Quay Wall Deepening, Jabal-Ali Harbour*  
Country : **DUBAI / U.A.E.**  
Service provided : Geotechnical study [2050]  
Client : ARCHIRODON CONSTRUCTION CO.S.A.



- Project : *Extension and Refurbishment of Blagoevgrad Wastewater Treatment Plant*  
Country : **BULGARIA**  
Service provided : Geotechnical Report on Foundation condition [2143]  
Client : THEMELIODOMI S.A.
- Project : *Extension and Refurbishment of Focsani Wastewater Treatment Plant*  
Country : **ROMANIA**  
Service provided : Geotechnical Report on Foundation condition [2132]  
Client : THEMELIODOMI S.A.
- Project : *Wastewater Treatment Plant of Craiova City*  
Country : **ROMANIA**  
Service provided : Geotechnical Study and foundation design [1790]  
Client : THEMELIODOMI S.A.
- Project : *Three border crossing points, section 1: Carshova-Triurat access road and Triurat border crossing facilities*  
Country : **ALBANIA**  
Service provided : Geotechnical investigation, evaluation and design for Section 1: Carshova - Triurat access road [1536]  
Client : THEMELIODOMI S.A.
- Project : *Extension and Modernisation of the MANGALIA Wastewater Treatment Plant*  
Country : **ROMANIA**  
Service provided : Geotechnical Report on soil condition [1502]  
Client : THEMELIODOMI S.A.
- Project : *Wastewater Treatment Plant of Sofia, Bulgaria*  
Country : **BULGARIA**  
Service provided : Preliminary Geotechnical Investigation and Study [1571]  
Client : THEMELIODOMI S.A.

## 7. SELECTED CLIENTS



Archirodon Construction Co. S.A.

