



## Doxiadis Associates

### TECHNICAL CONSULTANT FOR THE PROJECT ELEFSINA - STAVROS - SPATA AIRPORT MOTORWAY & WESTERN YMITTOS PERIPHERAL ROAD

The project of the Elefsina - Stavros - Spata Airport motorway & Western Ymittos Peripheral road (commonly called "Attiki Odos") has been one of the most important and complex infrastructure projects implemented in Greece. The main technical characteristics of the project can be summarized as follows:

- Total length 72,7 km (45,2 km. of six lane motorway, 18 km. of four lane motorway and 9,5 km. four lane road "artery" class).
- 32 grade separated junctions
- 22 major road bridges
- 77 local road overpasses
- 17 local road underpasses
- 31 large – scale culvert structures
- 4,5 km. of tunnels and more specifically:
  - 4 bored tunnels
  - 1 cut & cover tunnel
- 63,2 km. of retaining walls
- 4 main motorway toll stations

- 32 side toll stations

The total budget of the Attiki Odos project amounted to **2,94 billion €** and was implemented and funded by the Concessionaire own capital, the Greek State, the European Investment Bank and an International Group of Commercial Banks, under a D.B.F.O.T. contract (Design, Built, Finance, Operate, Transfer).

Doxiadis Associates, in cooperation with Halcrow Technical Consultant (through separate contract), supplied services to the International Group of Commercial Banks funding the Attiki Odos project. Leader of this Group was the Mitsubishi Bank of Tokyo, while HypoVereinsbank, the National Bank of Greece, the Commercial Bank of Greece and Societe Generale were members of this Group. The duration of the Technical Consultant's services was 5 years and its remuneration came to 2,35 million €.



**Services Provided:**

- Confirmation of the Project's Physical progress.
- Confirmation of the Project's Financial progress.
- Support on technical matters that arose during the realization of the various project contracts.
- **Construction monitoring using procedures similar to FIDIC.**
- Risk matrix monitoring (48 risk factors in 7 major categories):

1. WORKSITE AVAILABILITY
2. DESIGNS
3. CONSTRUCTION
4. FINANCIAL
5. POLITICAL RISK
6. OPERATION AND MAINTENANCE
7. FORCE MAJEURE

- Monthly report elaboration
- Supply of Experts, providing advice for a short period, in cases of specific technical problems during the construction phase.

**DATA ON OVERALL PROJECT**

Name of Client <i>Attiki Odos S.A.</i>	Start Date <i>1999</i>	Project Value in 12/2004 prices <i>4,5 billion Euro</i>
Project Location within Country	Completion Date <i>2004</i>	Value of Services in 12/2004 prices <i>907.000,00 Euro</i>

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