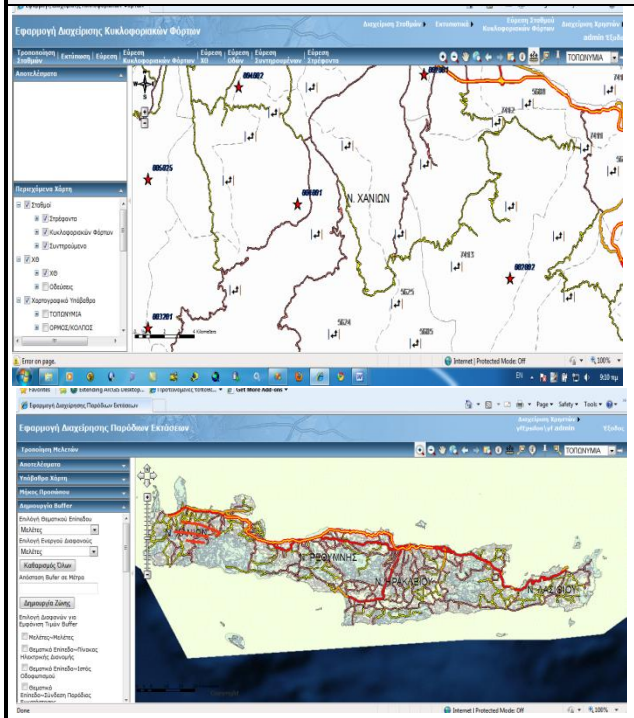
Ref no	Project title		Development of Geographic Information System and Application development of the National Register of Roads - Technical Support					
Name of legal entity	Country	Overall project value (EUR)	Proportion carried out by legal entity (%)	No of staff provided	Name of client	Origin of funding	Dates (start/end)	Name of consortium members, if any
Epsilon	GREECE	500.000	50%	9	YPOMEDI/DMEO Ministry of Public Works	GREECE	08/2009-10/2011	GEOAPIKONISIS

Detailed Description of the Project



"National Register of Roads", is defined as the integrated database of geographical and descriptive data that supports the rational structuring and organizing the management of road network data in the country and will create the platform of an Integrated Geographic Information System for managing road network and road environment in the country.

The main purpose is to improve efficiency in managing quantitative, geometrical and qualitative characteristics for the road and the road environment, and to facilitate the Services of the Ministry in implementing procedures to observe, study, supplement, improve and maintenance procedures of the road network to benefit and for the safety of its users. This information either was not recorded or existed in manuscript form or paper.

After the completion of the project we managed the electronic information management, and through the functional interface of the relevant central and regional services of the Ministry, conditions will be created for the cooperation of bodies for the effective and economical management of the road network.

Technologies involved (hardware, software and tools):

ORACLE Enterprise Manager 11g Application Server Control

ArcGIS 9.3.1 Arc Editor for the development of the desktop application for managing the census data

ArcGIS Server Enterprise Advanced 9.3.1 for the development of the Web applications of Management of Traffic Volume and transient Land Road Network

The **hardware** consisted of: 2 racks with height 24U, 2 Database Servers, 1 File Server, 2 GIS Servers, 1 Web Server, 2 Storages, 3 Ethernet Switches, 2 Optical Switches

Type of services provided

Corresponding tender activities carried out under this project:

During the project, the following actions were made:

- Purchase and installation of hardware (servers) and software
- The development of Geographic Information System and its applications for the integrated management of the road network data (spatial and descriptive), with the capability of a complete and integrated approach of the issues concerning the National and Regional Road Network about:
  - The improvement of geometric characteristics
  - The maintenance of road works and road equipment
  - The upgrade of road safety conditions
  - The assist of decision-making on the roadside uses
  - The organizing of traffic volume data
  - The organizing and availability to any interested body of a valid and updated representation of the National and Regional Road Network of the country in a digital form
  - The provision of technical support to the information system's users to productive operation and utilization in everyday practices
- Providing services of production and test operation
- Network and location analysis services were developed
- Training of DMEO personnel