

Case Study:

Egnatia Odos SA: A collision of history with the electronic 21st century...

The origins of a two thousand year-old Roman road running the length of Greece is one of the world's oldest and it is now amongst one of the most technically sophisticated and advanced in terms of its construction and maintenance systems.



Case Study

Technical Complexity



Egnatia Odos SA Motorway, Greece

“Exor’s software was selected as they demonstrated their software’s ability. It greatly helped that Exor had a Greek operational base, so language and individual contact time is and was not a problem.”

Egnatia Odos SA with technology software from Exor, the leading provider of infrastructure asset management solutions, will oversee and manage the assets on its 680 km of highways. The project, due for completion in 2008, is one of Europe’s largest ongoing construction projects and will contain 1650 individual bridges, 74 tunnels, and meander through some of Greece’s toughest terrain.

The technical complexity of its construction is hampered not only by the geography of the region, but also by it being in one of the most seismically active on the European continent. As Egnatia Odos SA moves towards the Adriatic port of Igumenitsa, winding through the Pindos Mountains, or Greek Alps, the challenges facing Egnatia Odos SA means world leading linear asset management solutions are critical to its maintenance.

The Greek state-owned company, Egnatia Odos SA, sought to appoint a software provider with regional knowledge as well as world leading technology. Routine Maintenance Management System (RMMS), a comprehensive asset management software suite provided by Exor, has been successfully deployed on the modern highway. Its functionality includes network manager, and maintenance manager all in a map-based environment.

Egnatia Odos SA is the first Greek highways organization to implement a comprehensive asset management solution for a highway network. Ginna Karakaidou, Assistant Director Road Network Support Department at Egnatia Odos SA explains the needs and demands of setting up an asset management tool; “As the first such system in Greece there were no benchmarks to work with. So, there was a need for a system that combined modularity, scalability and fast implementation. Exor’s software was selected, as they were able to demonstrate their ability.

“With the software introduction, our Maintenance Department looked at benchmarking other similar projects and, with the help of Exor’s consultancy services and expert guidance, based our management system on the UK’s Highways Agency methodology. Exor personnel and the IT staff of Egnatia ensured that specific adaptations were included to meet our own network requirements. This cross transfer of intellectual knowledge and industry expertise has proven invaluable.”

Egnatia Odos SA awards outsourced road maintenance contracts based on regional sections of the highway. These are currently allocated into four sections, each having responsibility to manage and maintain the assets such as bridges, road signs, issuing of work repair notices, as well as monitoring all work. These regional maintenance offices are coordinated through a central general administration system based at Egnatia’s HQ in Thessaloniki.

- ◆ **Locational Referencing System (LRS):** Exor’s advanced linear referencing capability that includes network connectivity, multiple linear referencing and flexible user created views of the road network
- ◆ **Flexible Data Structures:** The ability for users to define new asset types and associated attributes without limit and without programming - yet fully supported by Exor. Assignment of generic condition assessments, costs associated with capital and rehabilitation projects and to assign unit cost values to activities
- ◆ **Management Reporting:** Generic query and reporting facilities under user control
- ◆ **Future Proofed:** The ability to operate client / server or over intranet, extranet, Internet environments



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Cost Effective Delivery Program

For Egnatia Odos SA the next set of challenges include upgrading to Exor's eHighways(tm) release. This will enable regional offices to access the system with nothing more complicated on their desktop than a web browser. Also, Exor's web based reporting tool, Information Manager, will be introduced to help disseminate information cost-effectively throughout the organization.

Pano Voudouris, Exor Project Manager for Greece; "This project demonstrates not only Exor's ability to work across international boundaries but also how robust our technology is in terms of its scalability on large and very complex projects, such as Egnatia.

"This is a Total Asset Management system which will soon be web-enabled. Our software was chosen after rigorous analysis of other systems including a pilot of competing products. Although, not initially the cheapest, our software demonstrated long term best value based on the derived business benefits and sophisticated functionality available which will lead to longer term savings."

"Exor software was chosen after rigorous analysis of other systems including a pilot of competing products. And, although not initially the cheapest, Exor software demonstrated long term best value based on the derived business benefits and sophisticated functionality available which will lead to longer term savings."

Kavalva Bypass Bridge, Greece





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About Exor:

Exor Corporation was founded in 1995 and is a global provider of asset management software solutions for network centric infrastructure industries. Exor established its operating base in highways management and is rapidly expanding into other strategic markets including rail, water, power distribution and oil & gas. Based on world-class Oracle technology Exor provides clients with a modular approach to their individual technology needs. Exor Corporation operates worldwide in Europe, North America and Asia/Pacific. Exor systems manage 1,000,000 miles of roads with an asset value in excess of \$75 billion (USD).

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