

DATA SHEET: 15

**REVISION OF THE
VOLOS WATER
SUPPLY NETWORK
STUDY**



PROJECT FRAMEWORK:	<i>Revision of the Volos Water Supply Network Study</i>
PROJECT PHASE:	<i>Final Study</i>
PROJECT TYPE:	<i>Water Supply network</i>
REGION:	<i>Magnisia Prefecture – Thessaly</i>
CLIENT:	<i>Municipal Water Company of Volos</i>
SUBMISSION DATE:	<i>2002</i>
PROJECT BUDGET:	<i>35 million €</i>
PARTNERSHIP:	<i>G.Machairas SA</i>

PROJECT SCOPE:

- *Revision of the 1995 final study of the Volos water supply network (also see Data sheet 10, under different contracts).*

PROJECT DEFINITION:

- *The revision concerns the pipe material, slight alteration of the pressure zones and details regarding the operational structure of the network, in order to facilitate water leak detection efforts.*
- *The design specification require the implementation of proper measuring gauges and control devices, intended for the central SCADA automated network management and the facilitation of leakage detection.*

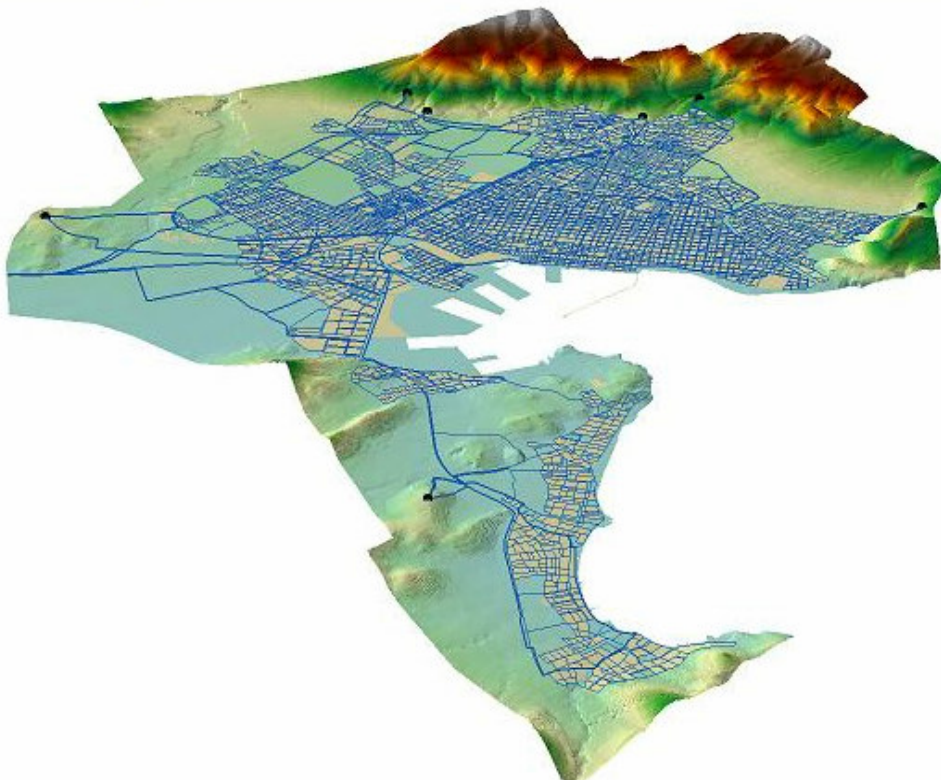


Figure 1: Greater Volos area water supply network

PROJECT DESCRIPTION:

- The model size is 10400nodes and 15675 links, with a total length of 745km
- The operational structure of the network consists of 28 separate control zones, under 3 different pressure zones
- The previous study models and database were revised and enhanced to modern formats, taking into consideration the parts of the study that had already been applied
- The EU funding specifications requested for a clear marking of existing, to be replaced and to be extended sections of the network.

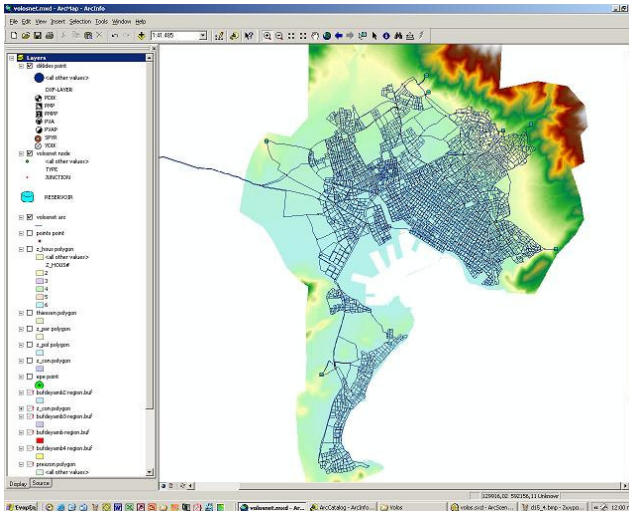


Figure 2: Network model GIS

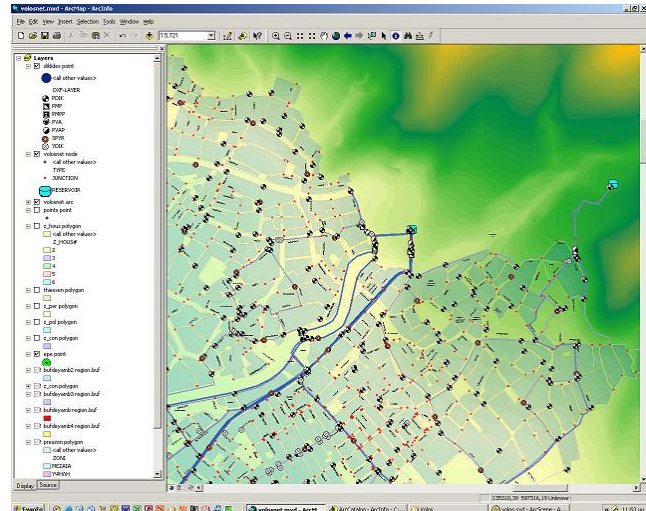


Figure 3: Geodatabase details

PROJECT IMPLEMENTATION:

- For the preparation of this study, extensive GIS and network modeling techniques were used in all the phases of the project, ensuring a potential to investigate several operating and cost scenarios, as requested by the client.
- The network geodatabase will be used by the client for the future implementation of the SCADA control system (as described in the project specifications)

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