Case Study: DOABIS – BURSAGAZ

How an innovative natural gas provider is increasing network efficiency, customer satisfaction and profit by using an integrated Mapbis data environment

Client: Bursagaz: 820,000 subscribers, > 5000 km network length

Challenge: To integrate network activity, inventory and customer data, and provide a single dashboard view of all data for daily operations and strategic planning.

Solution: Mapbis scalable GIS environment, synthesizing all data into an instantly updatable system providing easy monitoring, analyses and planning.

Natural Gas Infrastructure GIS System

Client Profile

BursaGaz
www.bursagaz.com
Bursa Natural Gas Distributor

820.000 Subscriber, 3.760 km   polyethylene tube line, 389 km steel line, 1.350 km service line

Executive Summary

BursaGAZ has a completely integrated IT system (GIS, SCADA, SAP, FM, etc). The data in the system are live data, making it possible to analyze the ongoing system status for emergency failures, valve operations, customers affected, and enterprise resource planning.

Utilizing a live system, with up-to-date data, easy to adopt and ready to develop new systems is a must for managing activity in such a large and complex network.

Business Challenge

EWE Group aims to become the leader in the areas of expertise thanks to EWE Group's 80 years of experience and knowledge and the synergy created by its companies operating in Turkey.

In this context, the vision of the group:

Growing in the natural gas distribution sector with an understanding of high-quality and customer-oriented service.
Accurate selection for expanding the infrastructure installation

Better decision support system

Becoming, through its knowledge and expertise, a reliable supplier in the developing natural gas wholesale market across the country In the medium term, operating in natural gas retail sector especially in the actual distribution areas and in the natural gas market

Speeding up the information sharing between the departments

Making accurate and effective analyses

Preventing information redundancy and inconsistency

Building a unique address system for Customer Database and GIS

Optimizing workforce and time efficiency

Having a good system to easily update the maps and information

Managing the natural gas network in an effective, controlled and coordinated way

www.mapbis.com

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Solutions

Mapbis' GIS system became the central framework of all the information systems of Bursagaz. The address system was unified and became map-based. The rest of the systems started to use this same address structure for inventory, customers, sales etc.

Database standards were implemented and user needs were analyzed.

DOABIS, which is Mapbis' desktop-based GIS solution, is implemented based on MapInfo GIS + Oracle Database. This module helped users to enter the existing inventory data, and to enter new data from the field.

For ERP integration, the existing SAP system and new GIS system have been completely integrated.
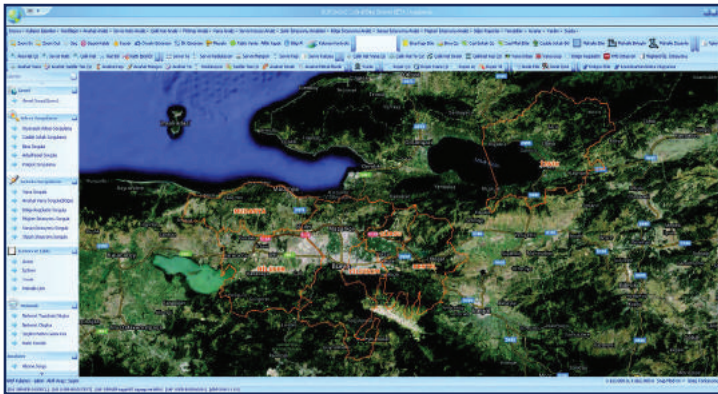
Bursagaz Desktop
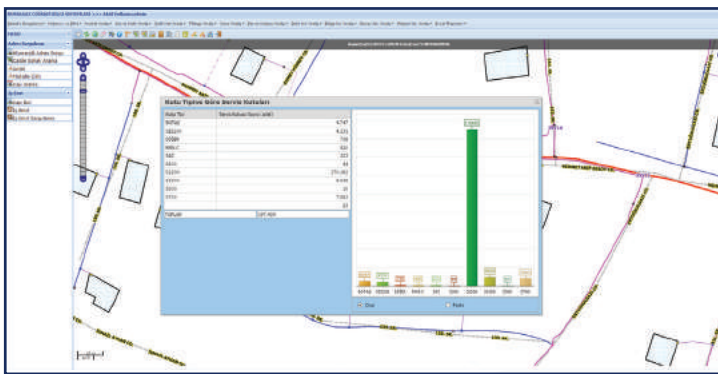
Bursagaz Web

Technology Used

Oracle as a Spatial Database.

MapInfo Professional is the leading Desktop GIS solution.

MapXtreme is the powerful web-based GIS application software development kit (SDK).

MapXtreme is the leading software development kit (SDK) for integrating location intelligence with existing business systems. It allows developers to build custom mapping applications, provide tailored views of geographic data and automate and augment business processes.

Mapbis' YOLBIL Navigation SDK is used for Field Team Management.

Results & Benefits

With a completely integrated and live system, it became possible to

- analyze valve positions in emergency cases

- address verification with device numbers

- report inventory by addresses

- unify redundant data and increase usability

- dispatch field teams to the correct location with correct equipment

- map the usage of gas and locate the potential areas for sales

- planning new potential areas with minimal time for ROI

- integrate SCADA, ERP/SAP, Maintenance, CRM, Billing, etc

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