HydronetMaestro
SudaBIS

Case Study: HydronetMaestro – KASKİ water

How an innovative water provider keeps its customers happy, manages its physical network, and plans sustainable growth easily and quickly on a single clickable landscape

Client: Kayseri Water: 510 000 subscribers, 500 employees, 3 700 km of pipe in network

Challenge: Integrate fragmented data from all operations (customer relations, physical network, etc) in a unified, easy to use digital environment

Solution: HydronetMaestro(Doabis) data environment, specially designed for managing water networks

Water - Sewage Infrastructure GIS Sytem

Client Profile

Kayseri Water (KASKİ)
www.Kaski.gov.tr
Kayseri Water Distributor

558.532 Subscriber
5.775 km potable water pipelines,
3.806 km sewer lines.

Client's Background

Kayseri Water provides water and treats wastewater for over 510 000 customers in the region of Kayseri, Turkey. Digitization of paper maps of infrastructure was completed in 2002.

Subsequently, several geographic information systems (GIS) programs based on ArcGIS were tried for managing inventory. However, Kayseri Water's strategic challenge was to integrate all types of data – pipeline geographic coordinates, network operational data, customer and call center information, and maintenance schedules.

With this kind of integration, data become more reliable and up-to-date, and can be accessed via controlled accounts by everyone in the organization, from managers to maintenance crews.

Solutions

In 2014, Kayseri Water decided that the best way to integrate their diverse types of data, manage daily operations and plan strategic growth was to use HydronetMaestro, a data environment designed specifically for managing water and wastewater distribution systems.

The key to combining diverse data involved in water distribution is the approach known as geographic information systems (GIS).

In GIS, all data are associated with geographic coordinates. This way, diverse types of data become integrated into a single, zoomable, searchable environment.

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Benefits

- Manage network inventory, maintenance status and connectivity in real time

- Increase customer satisfaction by integrating customer addresses, field crew work schedules and local service status

- Improve workflow throughout the organization, because everyone uses the same integrated system via controlled accounts

- Maximize return on investments through integrated planning based on all types of data

Features

- Clean, simple design

- Customized tools make Sudabis easy to use for all employees, from managers to maintenance crews

- Zoomable to any scale, from international to a single customer's address

- Advanced analyses can be performed easily and intuitively, according to whatever categories the user defines

- Each employee's access is password controlled, and file permissions can be managed to keep data reliable and safe

Technology Used

HydronetMaestro Water Network Information System, designed by Mapbis based on MapInfo and Oracle.

Oracle 12c as a Spatial Database.
MapInfo Professional is the leading Desktop GIS solution.

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MapXtreme is the powerful web based GIS application software development kit.

"With the Sudabis web and desktop applications, access to infrastructure and customer information became faster."

Salim Tuncay
Kayseri Water GIS Director

MapInfo **Pro**

ORACLE

HydronetMaestro
SudaBIS

Map**Xtreme**

Web Users