City Information System in KAGİTHANE

Presenters

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History of the Municipality

- The area is very rich with historical and archeological buildings and assets.
- In the time of Suleiman the magnificent the valley was known as 'Sadabad' and used by the Ottomans for hunting, riding and recreation.
- The area was administrative part of Municipality of Sisli till 1987.
- The administrative area is about 16 km² and has a population of 418,229.
City Information History in the Municipality

- Municipality Automation System was built to serve the citizens and manage the municipality in 1996
- The municipality had an automatic answering system to serve the citizens through the phone
- The old system of tracking citizen transactions was built on Linux platform
- All transactions and data were stored using IBM Informix
- Tracking done through one unique record that controlled the address information, the physical image of the address and the municipality record of the citizen
Why Need a City Information System

- The need to archive, update, analyze and track all municipal transactions
- The need for an integrated Address System
- The need for an automatic tracking of citizen transactions in the municipality
- The need for web services that enables e-government transactions.
- The need for a comprehensive system to manage the municipality.
- The old system was not capable to meet the growing needs of the Municipality
**KBS – The City Information System**

- Fully integrated (GIS+MIS+CRM+HR+e)
- Embedded GIS solution
- Unified Structure
- Work Planning, Performance Management, Total Quality Management, Logging, SMS/e-mail utility
- Advanced Picture recording
What is Included

- CRM
  - Citizen Service, Call Center
  - E-mail integration
  - Content Management
- Social Aid Tracking
- City Guide and zoning information
- Business Process Management and Planning
- Address Information System Integration
- Revenue Increasing Activities
- Parcel Information
Advantages of Using KBS

- Integration of digital archive system
- 100% data integrity thanks to using entirely relational databases
- Automatic recognition of accruals, payment collections and payrolls
- Flexible and open structure system
- Comprehensive Administrator desktop package
- Integrating CRM and ERP with GIS and web applications
- Web applications that provide query services to citizens like Parcel Query, Address Query, and Activity Query.
Spatial Editor – UniGIS

Infrastructure

- ESRI ArcGIS Engine runtime (9.x)
- Microsoft Visual Studio.NET C# language
- ArcGIS Server Support
Why Need **UniGIS**

- Based on industry leader ESRI technology
- To-date spatial data for City Information System (U.KBS)
- Database support
- High-speed data production
- Low cost GIS&CAD tool
- Multiuser editing
- Effective support from manufacturer
UniGIS Capabilities

- Combination of CAD&GIS Functionalities
- Raster Data Editing
- Fully integrated with U.KBS
- English and Turkish Support
- Rich GIS Functionalities
Why Use UniGIS

1. Low-cost and integrated CAD&GIS tool
2. Directly GIS data creation and editing
3. Work on the database with the basis of the database user privileges
4. Compliance with national and international standards
5. International solutions, integration and interoperability
Lessons Learned

- Digital Archiving is much more sustainable than any type of archiving systems and updating is much more simpler.
- Relational data bases are more reliable in integrating the management information and spatial information.
- ESRI technology because of its interoperability function was the right choice.
- Updated spatial and non-spatial data should be kept in a common database.
- Work with a company that had both MIS and GIS experience was a wise decision.
- Serving the citizen through the web has both satisfied the citizens and lowered tracking and updating costs for the municipality.
Next Steps

- Development and renewal of the existing system to comply with the new technology trends and meet growing demands of the citizens and municipality needs.
- Make the Interfaces more user friendly.
- Add more functions that meets the city needs.
- Encourage citizens to use web based services and promote Spatial Information awareness.
Thank You  Danke  Gracias  Merci

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