Agenda

- What is GIS?
- GIS and SAP
- Real Examples
Life Without GIS

My Stuff

My Paper Maps
Features

Unimproved lots are displayed in blue.

Attributes

Feature Characteristics
- Building type
- Appraised Value
- Parcel owner

Three Elements of a GIS

Behavior

Display

Unimproved lots are displayed in blue.

Query

What parcels adjacent to Main St. are also zoned mixed use?

Analysis

What parcels are adjacent to Main Street?
A GIS models reality digitally
- Abstraction of real-world features
- Communicates locational & descriptive info
- Portrays spatial relationships
Features: Facility Data - NASA

~100 Layers
The ArcGIS land parcel data model gives you the flexibility to model condominiums either through overlapping polygons for each floor, a polygon with relates to table records, or a polygon with relates to other polygons; whichever best conforms to your government agency's existing practice.
• Attributes are information about a feature
  • Feature characteristics
  • Display and label characteristics
Attributes
Behavior
Behavior
Spatial Data Management

- Organization and management of spatial information
  - Accommodate all spatial data types
  - Integrate all spatial data types
  - Manage all spatial data types
    - Data Creation
      - Rules and Behavior
      - Metadata
    - Data Maintenance
      - Editing tools
        - GIS
        - CAD
        - Etc..
      - Editing workflows
        - Model Builder
        - PLTS
    - Data sharing and distribution
      - Spatial data repositories
      - Replication, Versioning, Check in/out
  - Persist all spatial types
    - Oracle, SQL Server, DB2, Access, Files

*Geodatabase: Object-relational information model responsible for managing all geographic data types and their associative rules and behaviors.*
Spatial Data Management: CAD Data Type

- CAD Rendering
- CAD Conversion
- CAD Editing
Spatial Data Management : Workflow
GIS and SAP

Integrated Platforms

Ad-hoc Analysis

Reporting

Modeling

Operations

GIS

SAP

Attributes

Features

Equipment Table

ID
1
2
3

Updates & Transactions

Updates & Transactions
Each geographic feature has a record in an associated attribute table within SAP.
SAP NetWeaver Integration Points

SAP NetWeaver™

INTEGRATION OF PEOPLE
- Multichannel access
- Portal
- Collaboration

INTEGRATION OF INFORMATION
- Bus. Intelligence
- Master Data Management
- Knowledge Mgmt

INTEGRATION OF PROCESSES
- Integration Broker
- Business Process Mgmt

APPLICATION PLATFORM
- J2EE
- ABAP

Composite Application Framework

Life Cycle Management

Powered by SAP NetWeaver
Three Different Types of Users

- SAP User
- Composite User
- GIS User

SAP Functionalities and Connections
Composite Business Processes and Services
GIS Functionalities and Connections

Data Synchronization and Distribution

SAP
GIS
NESA, Denmark
Real Estate Example
Selected Circuit From GIS
In Blue

Selected Transformer

Related Data From SAP
Real Estate Example
San Diego

SAP List of all Functional Locations, attached Equipment, and Bill of Material
Real Estate Example

<table>
<thead>
<tr>
<th>Address</th>
<th>Name</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

[Image of a map and a list of properties with details such as address, name, and city.]
Real Estate Example

Call GIS from SAP

SAP  ↔  ArcGIS
New Possibilities: Netweaver XI
New Possibilities: Vehicle Tracking Composite
Typical Project Management: Schedule for each element in the Work Breakdown Structure (WBS)
GIS Enhanced Project Management

Potential problem areas (orange on this map)
Managing Problems

Request for Information Log

Problem Hotspots

RFIs Mapped to Project
An Improved Way to Visualize Projects