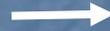


Agenda

- What is GIS?
- GIS and SAP
- Real Examples

Life Without GIS



My Stuff

My Paper Maps

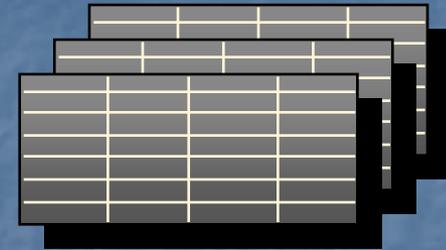


Three Elements of a GIS

Features



Attributes

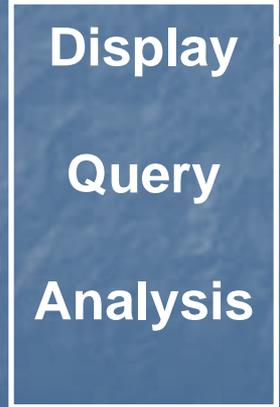


Feature Characteristics

- Building type
- Appraised Value
- Parcel owner



Behavior

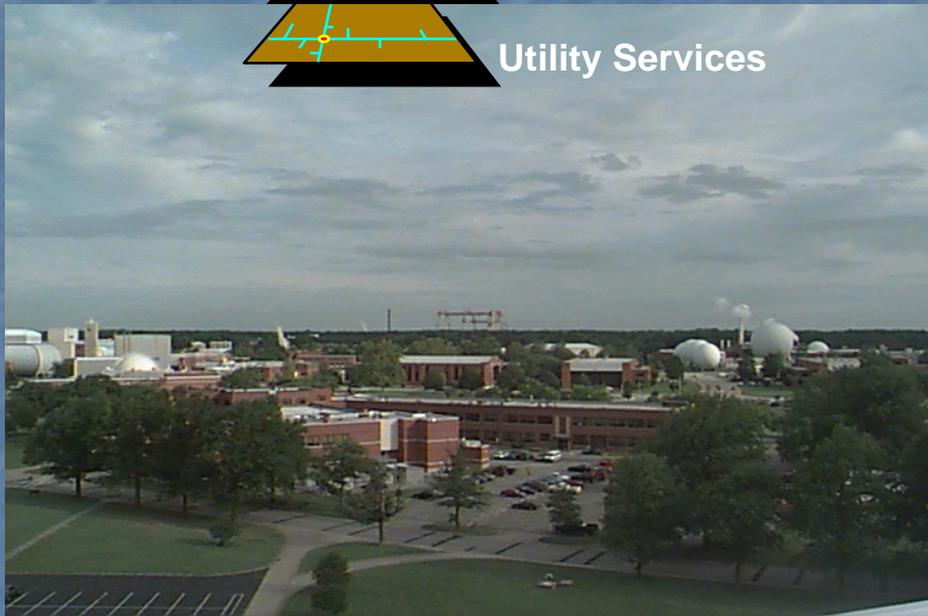
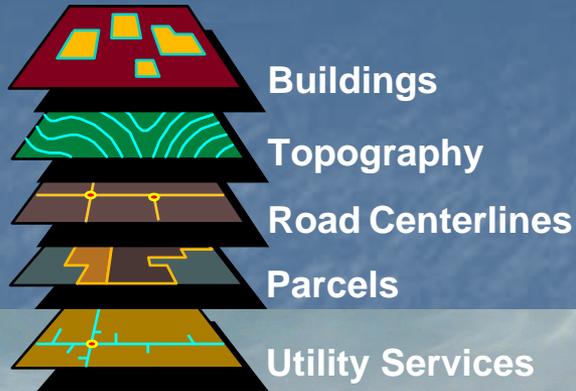


What parcels are adjacent to Main Street?

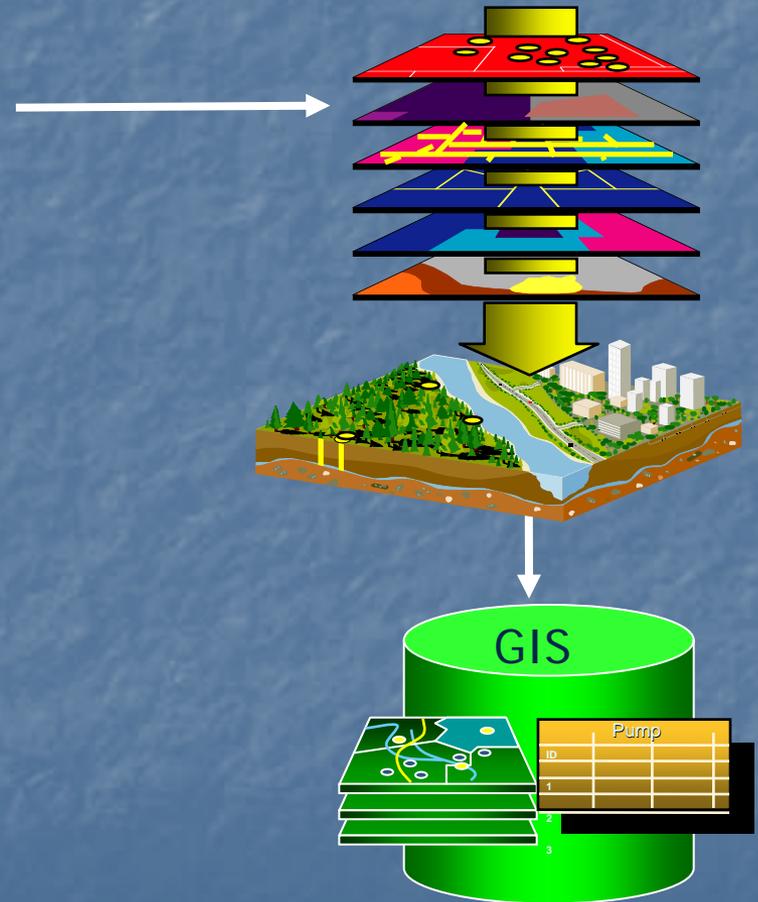
Unimproved lots are displayed in blue

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

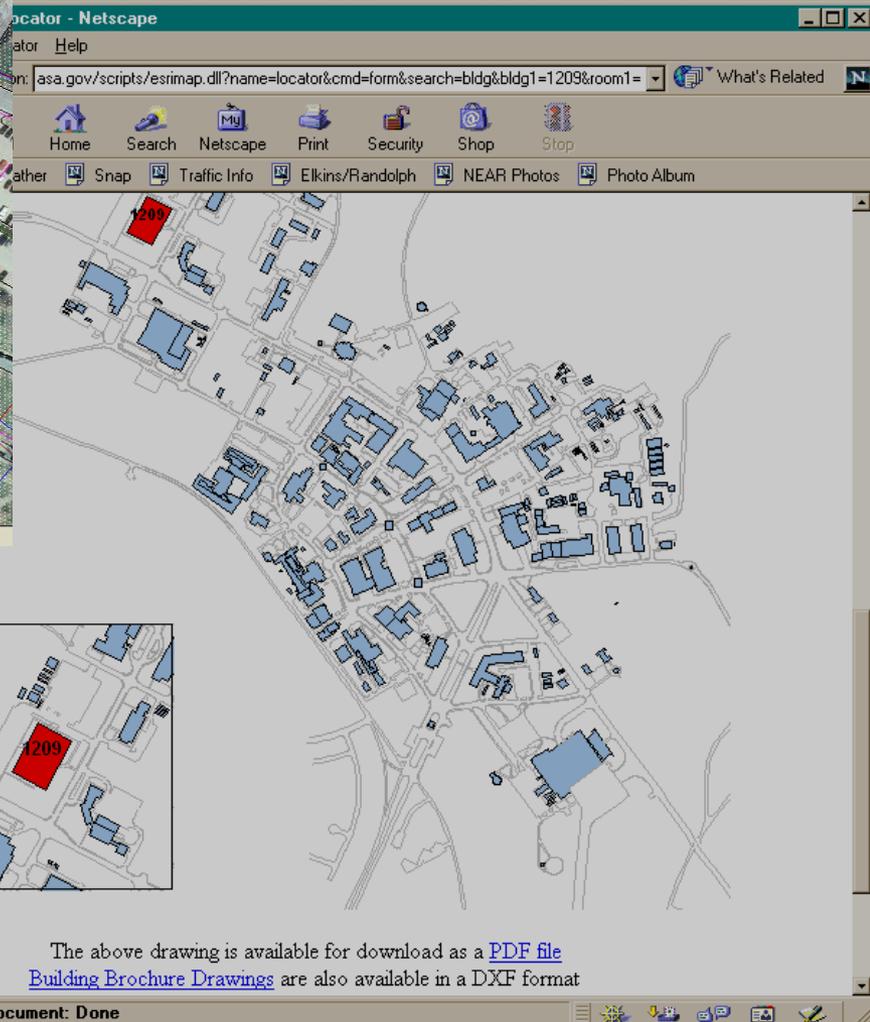
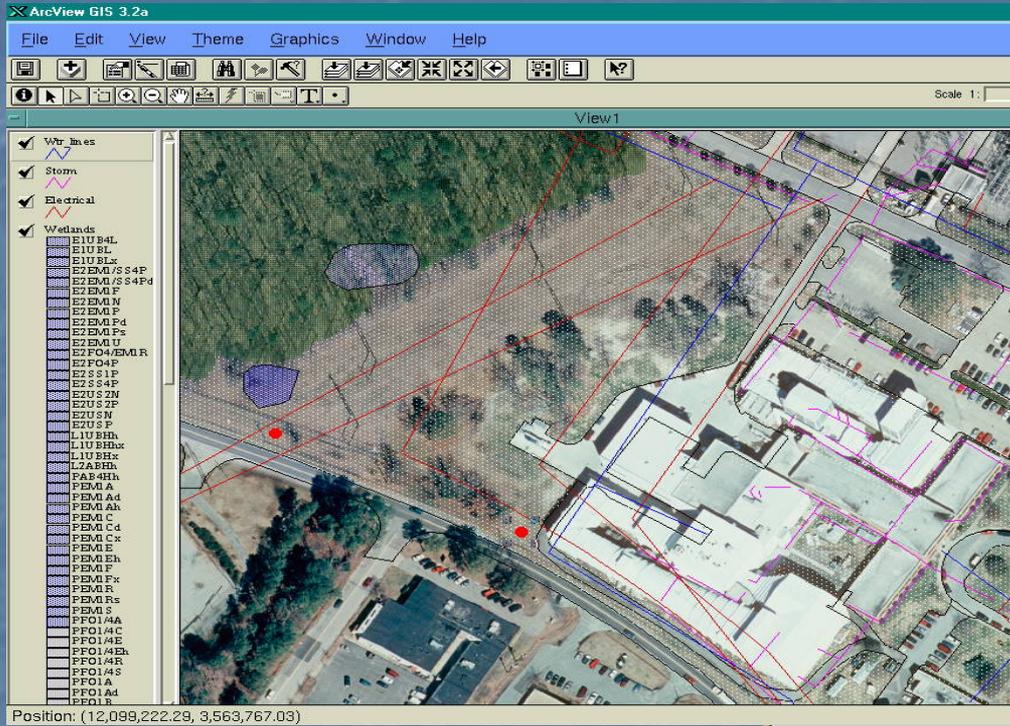
Features



- A GIS models reality digitally
- Abstraction of real-world features
- Communicates locational & descriptive info
- Portrays spatial relationships



Features: Facility Data -NASA

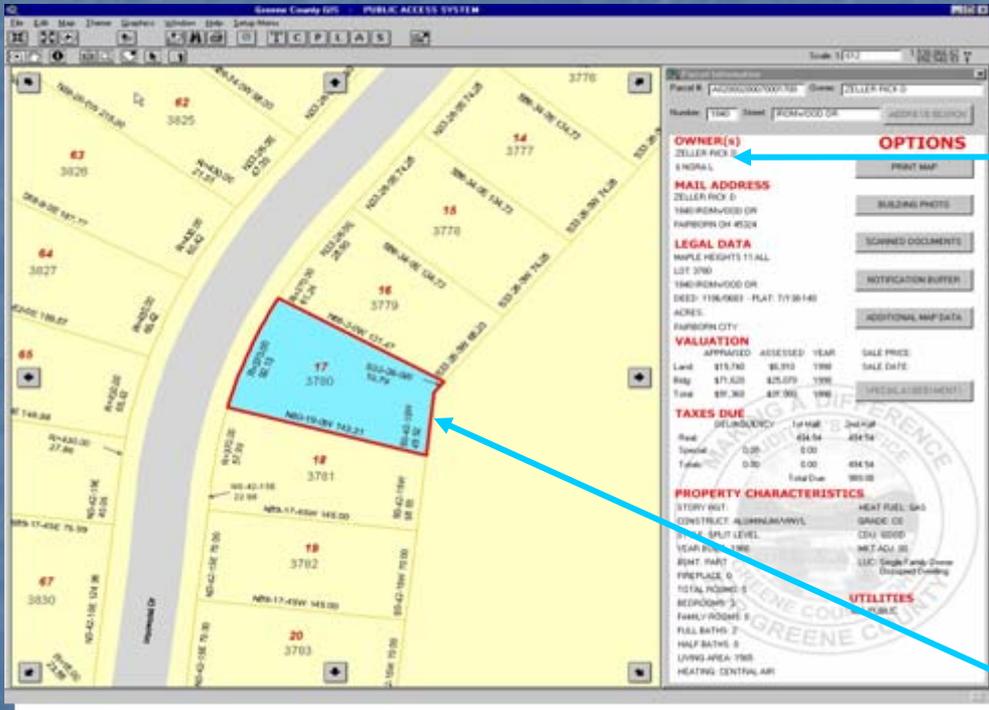


~100 Layers

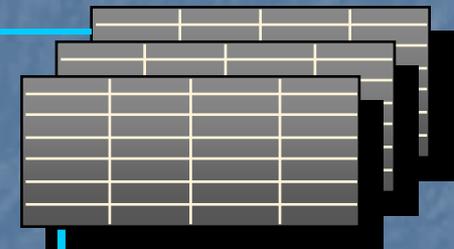
The above drawing is available for download as a [PDF file](#)
[Building Brochure Drawings](#) are also available in a DXF format

Attributes

- Attributes are information about a feature
 - Feature characteristics
 - Display and label characteristics



Attributes



Feature Characteristics

Building type

Appraised Value

Parcel owner

Display and Label Characteristics

Attributes

Welcome to the MAPS Website - Microsoft Internet Explorer

Address: http://maps.aramco.com.sa/maps/

Find Place | Find City | Dhahran | Abqaiq | Ras Tanura | Bookmarks

Click Here to FIND Best Route to your Location

HERE for HELP

Hide Legend

Legend

- Selected Building
- Selected Route
- Highways
- Community Roads
- Walls
- Trails
- Ditches
- Aramco Gates
- Fences
- Recreation Areas
- DriveWays
- Excavation Sites
- Parking Lots
- Pools
- Landmarks
- Athletic and Sports Facilities
- Banking and Finance
- Govt. and Public Agency
- Health and Medical Services
- Hotels
- Land Marks
- Libraries
- Mosques
- Office Buildings
- Postal Services
- Recreational & Amusement Parks
- Restaurants
- Retail Trade
- Sculptures & Museums
- Shopping and Comm. Centers
- Airports
- Public Buildings
- Housing Units
- Buildings
- Roads
- KSA Boundaries

100m

User: MAJED ABDALLAH (ABDAMAQB)

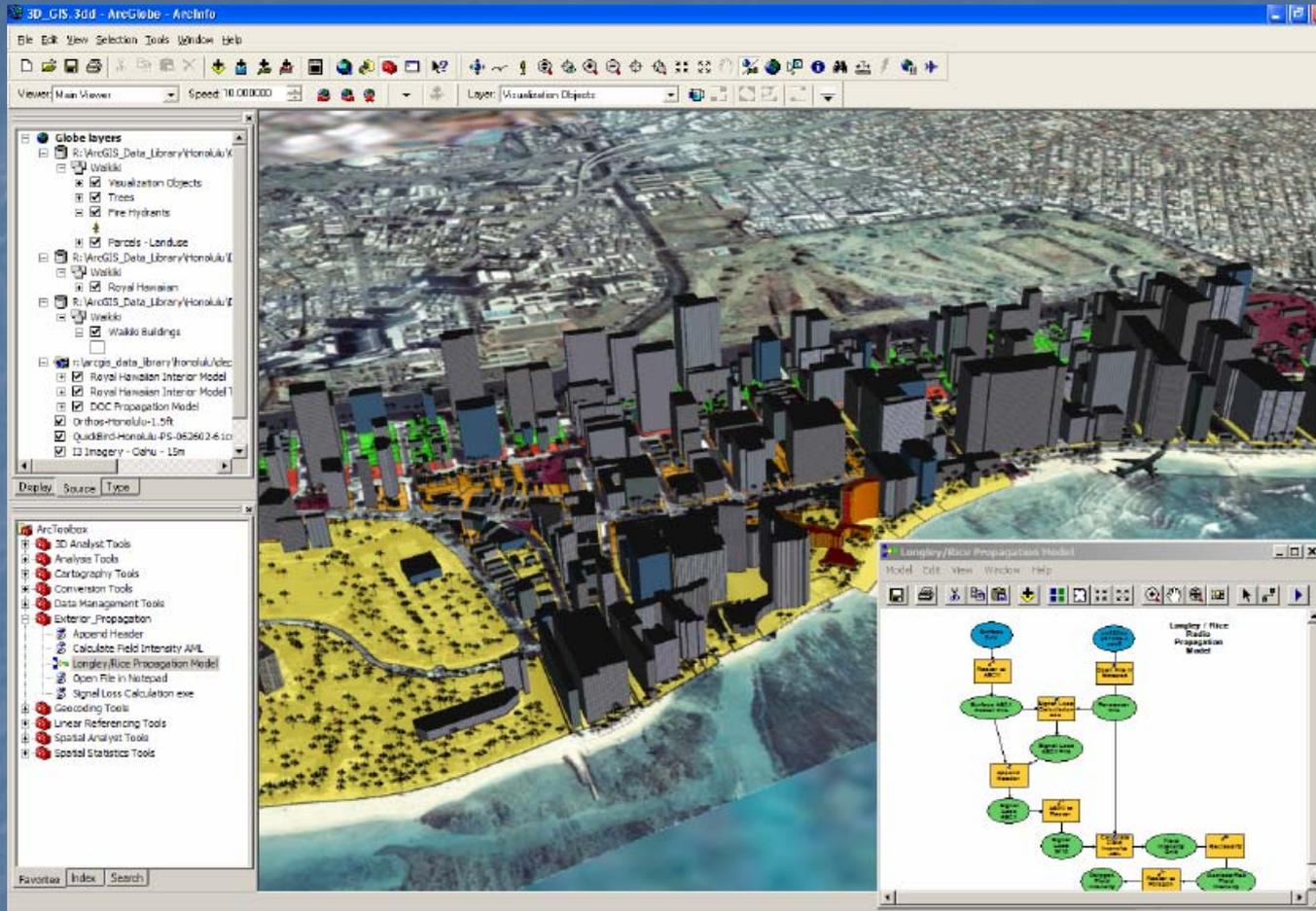
Functional Location Structure: Structure List

Valid from 06/14/03

FunctLocation	DHH	Description	DHAHRAN HOUSING	Valid from	06/14/03
DHH	DHAHRAN HOUSING	J001 BRD 782400	J001		
DHH-DOC	DH DOMESTIC CAMP	J001 BRF 782411	J001		
DHH-DEX	EXECUTIVE HOUSES (OUT OF CAMP)	J001 BRG 786442	J001		
DHH-DHC	DHAHRAN HILLS CAMP	J001 BRD 782400	J001		
DHH-DHC	DH AL-MUNIRAH CAMP	J001 BRF 782411	J001		
DHH-DOC	DH OLD CAMP	J001 BRB 782400	J001		
DHH-DOC-01ST	FIRST (1ST) STREET	J001 BRB 782400	J001		
DHH-DOC-01ST-00128	128 FIRST STREET	J001 BRB 782400	J001		
DHH-DOC-01ST-00129	129 FIRST STREET	J001 BRB 782400	J001		
DHH-DOC-01ST-00131	131 FIRST STREET	J001 BRB 782400	J001		
DHH-DOC-01ST-00132	132 FIRST STREET	J001 BRB 782400	J001		
DHH-DOC-01ST-00133	133 FIRST STREET	J001 BRB 782400	J001		
DHH-DOC-01ST-00135	135 FIRST STREET	J001 BRB 782400	J001		
2413833	135-321 SELF CONT. EVAPORATOR	135-321	J001 E		
3800042103	AIR HANDLER UNIT	I X	1 EA		
1000306691	CAPACITOR	L	1 EA		
1000313095	MOTOR: BLOWER	L	1 EA		
1000306451	BLOWER: PARTS ASSEMBLY, INTERIOR	L	1 EA		
2413834	135-451 AIR COOLED CONDENSER	135-451	J001 E		
2419522	135-DM1 DISHWASHER	135-DM1	J001 E		
2419523	135-DV1 Double Oven, Americana	135-DV1	J001 E		
DHH-DOC-01ST-00136	136 FIRST STREET	J001 BRB 782400	J001		
DHH-DOC-01ST-00139	139 FIRST STREET	J001 BRB 782400	J001		
DHH-DOC-01ST-00140	140 FIRST STREET	J001 BRB 782400	J001		
DHH-DOC-01ST-00141	141 FIRST STREET	J001 BRB 782400	J001		
DHH-DOC-01ST-00142	142 FIRST STREET	J001 BRB 782400	J001		
DHH-DOC-01ST-00143	143 FIRST STREET	J001 BRB 782400	J001		
DHH-DOC-01ST-00144	144 FIRST STREET	J001 BRB 782400	J001		
DHH-DOC-01ST-00145	145 FIRST STREET	J001 BRB 782400	J001		
DHH-DOC-01ST-00146	146 FIRST STREET	J001 BRB 782400	J001		
DHH-DOC-01ST-00148	148 FIRST STREET	J001 BRB 782400	J001		

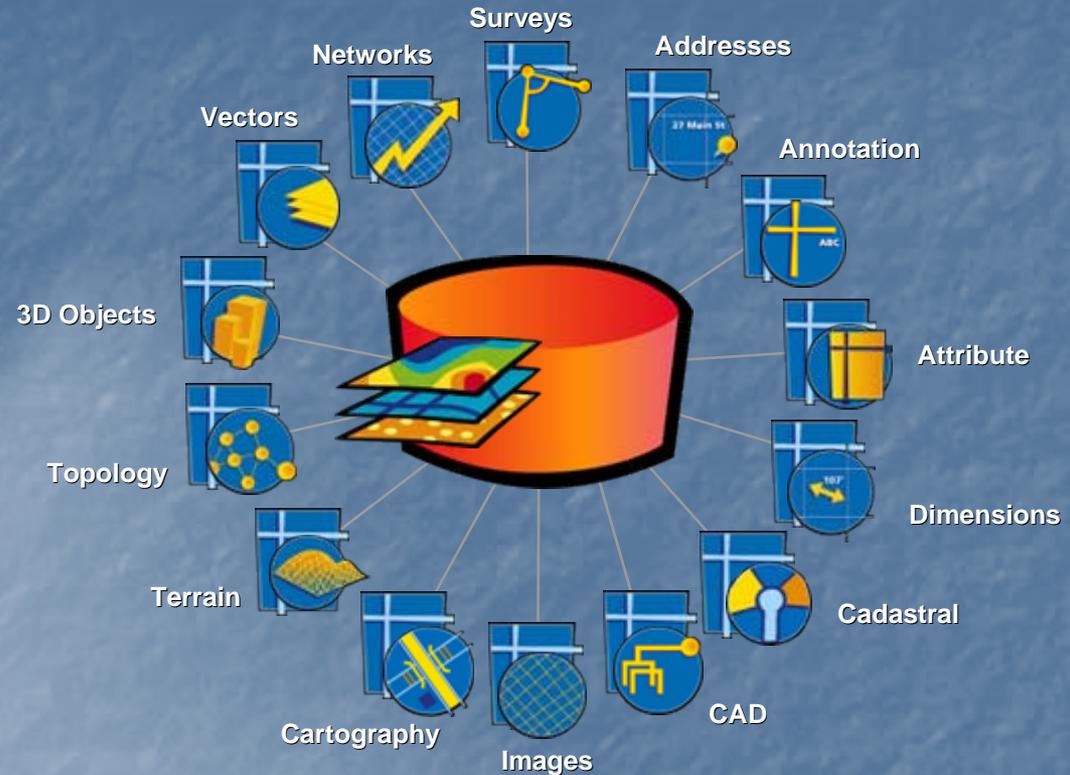
ABUDIBAA anise OVR

Behavior



Spatial Data Management

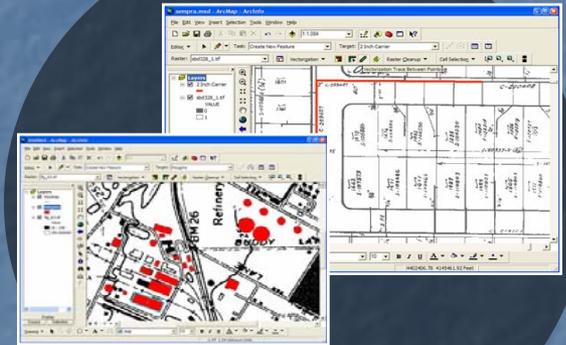
- Organization and management of spatial information
 - Accommodate all spatial data types
 - Integrate all spatial data types
 - Manage all spatial data types
 - Data Creation
 - Rules and Behavior
 - Metadata
 - Data Maintenance
 - Editing tools
 - GIS
 - CAD
 - Etc ..
 - Editing workflows
 - Model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



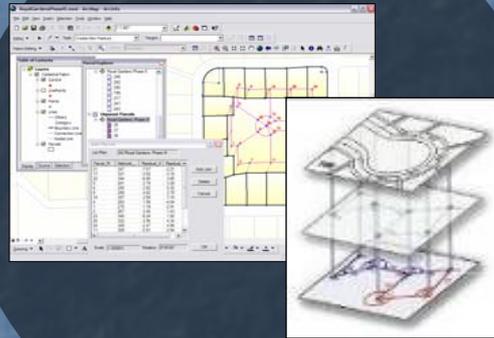
Geodatabase: Object-relational information model responsible for managing all geographic data types and their associative rules and behaviors.

Spatial Data Management : CAD Data Type

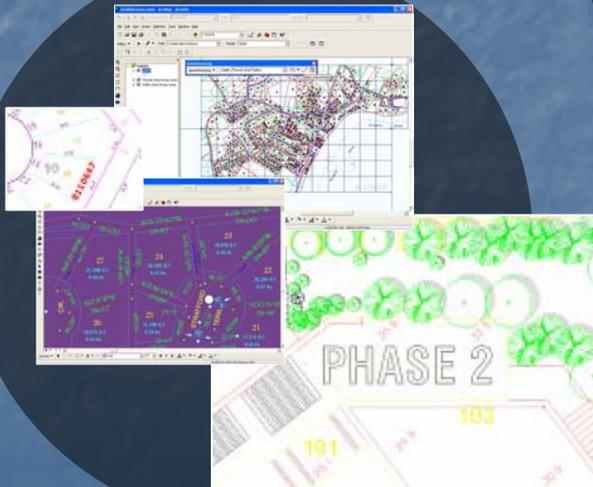
CAD Editing



CAD Conversion

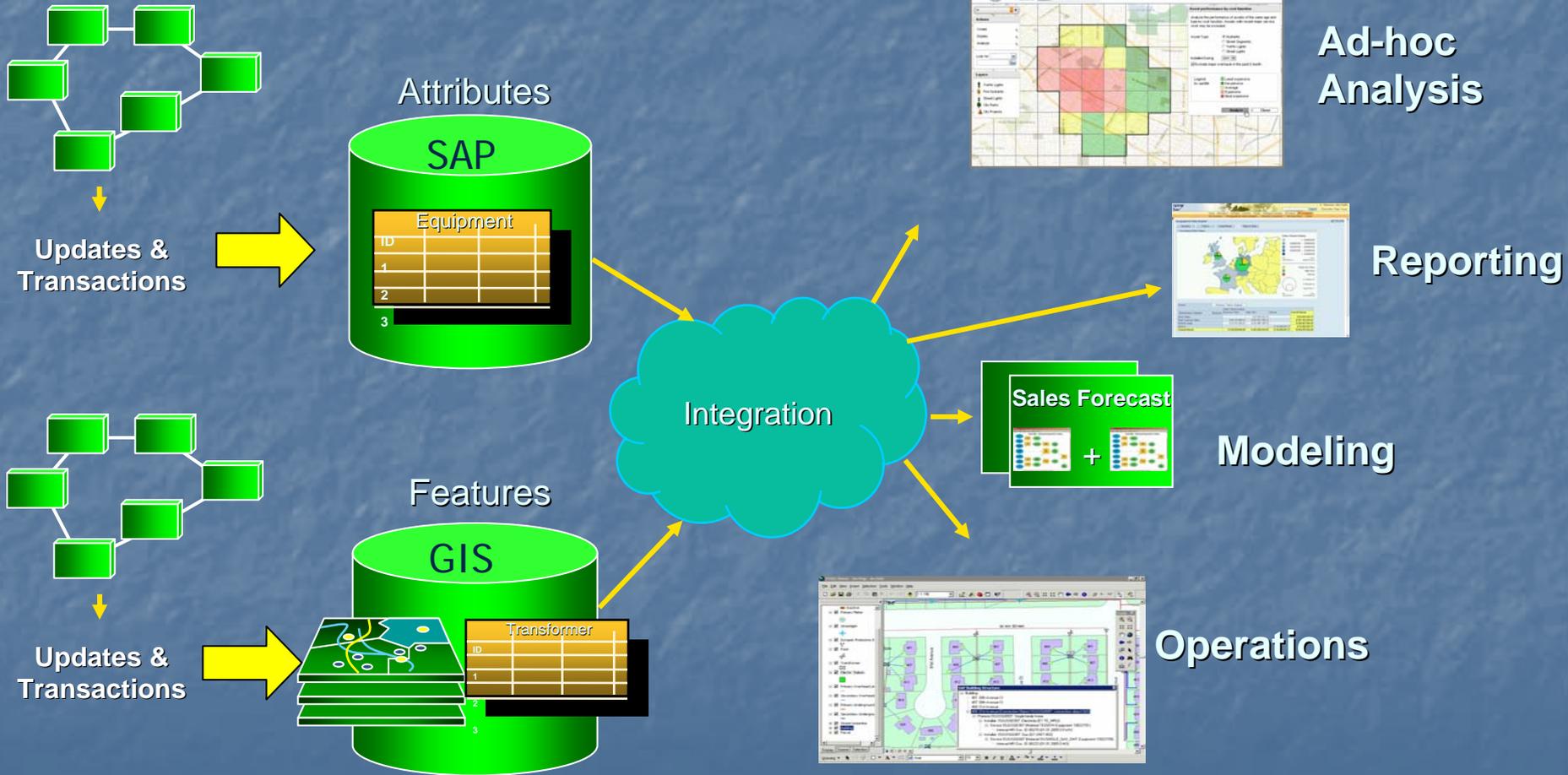


.CAD Rendering



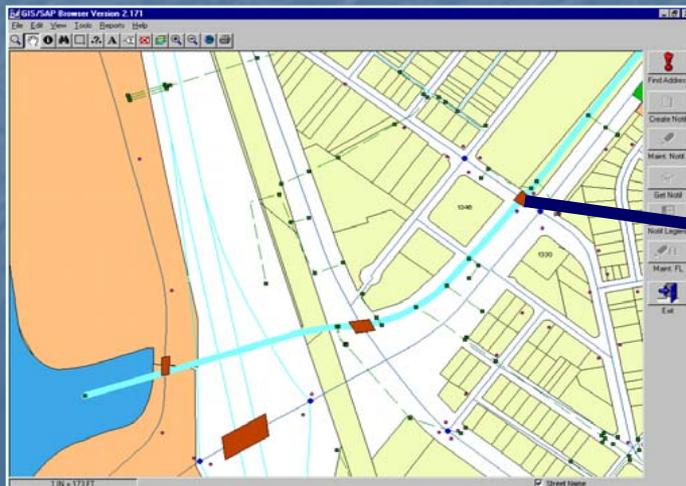
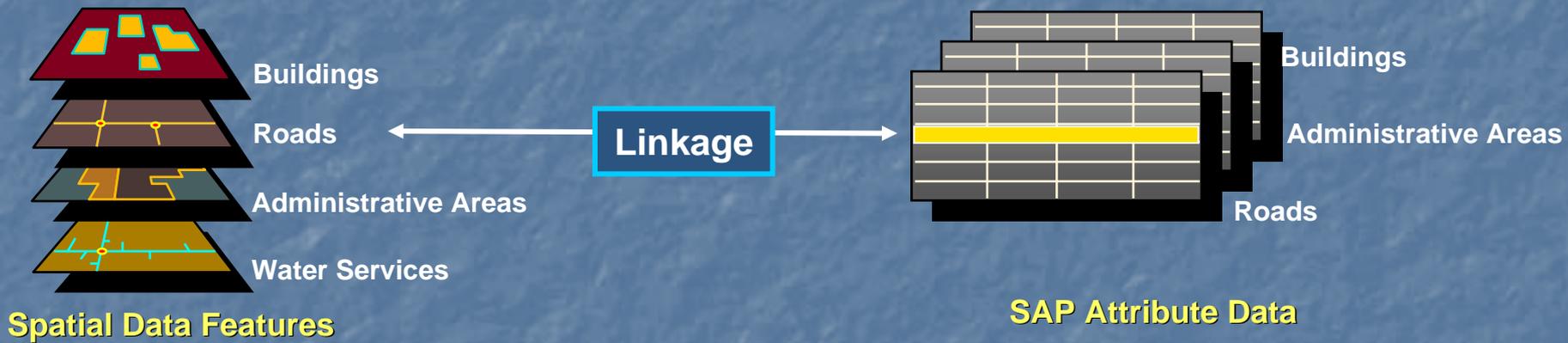
GIS and SAP

Integrated Platforms



Linking Geospatial Features and SAP Attributes

Each geographic feature has a record in an associated attribute table within SAP



Equipment	Description	Valid from
60003441	QUEEN PALM-4577 PARK BL	05/05/00
SS-021176	4500-4509 PARK BL	S 1269-C4
SS-021176-001	QUEEN PALM-4511 PARK FL	
SS-021176-002	QUEEN PALM-4522 PARK BL	
SS-021176-003	QUEEN PALM-4577 PARK BL	
SS-021176-004	QUEEN PALM-4584 PARK BL	
SS-021176-005	INLET: MADISON AV SEC 8 PARK BL	
SS-021176-006	INLET: MADISON AV SEC 8 PARK BL	
SS-021176-007	INLET: 43' FROM MONROE AV ON PARK BL	
SS-021176-008	INLET: 43' FROM MONROE AV ON PARK BL	
SS-021176-009	CLEANOUT: 33' FROM MADISON AV ON PARK BL	
SS-021176-010	4504 PARK BL W/O MONROE AV 20' W/S	L 1269-C4
SS-021176-011	STANDARD SS LIDEN-13	1
SS-021176-012	LUMINAIRE MORELCO_POST TOP-150(E)	1
SS-021176-013	LUMINAIRE MORELCO_POST TOP-150(W)	1
SS-021176-014	LAMP SS WISH PRESSURE SODIUM-150	1
SS-021176-015	BALLAST SS RECTOR-150	1
SS-021176-016	LENS FORNED PLASTIC_POST-SS	1
SS-021176-002	4505 PARK BL W/O MONROE AV 20' E/S	L 1269-C4
SS-021176-003	4500 PARK BL S/O MADISON AV 40' W/S	L 1269-C4
SS-021176-004	PARK BL W/O MONROE AV 240' E/S	L 1269-C4
SS-021176-005	PARK BL W/O MONROE AV 320' W/S	L 1269-C4
SS-021176-006	PARK BL S/O MADISON AV 100' E/S	L 1269-C4

Integration Scenarios

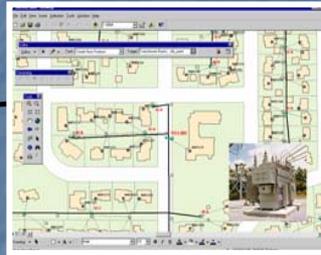
Real Property

Parcel
Building
Utilization
Spatial Reference



Asset Management

Equipment ID
Account depreciation
Spatial Reference



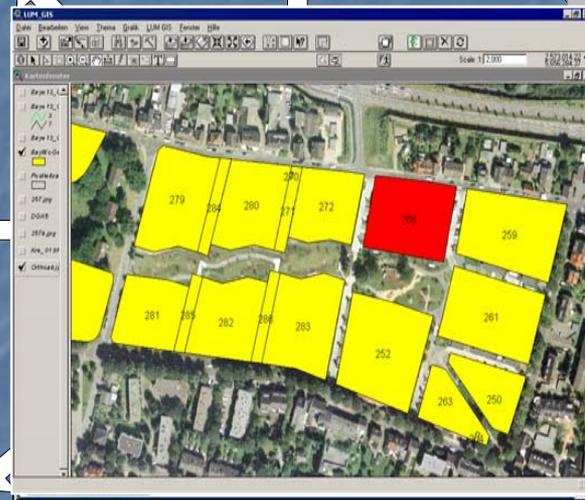
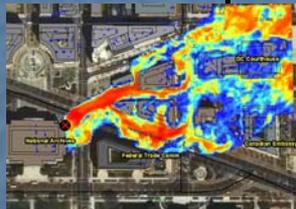
Maintenance

Work order
Equipment history
Spatial Reference



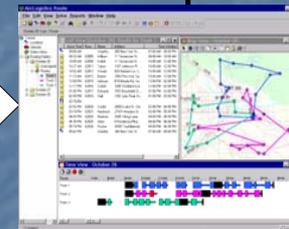
Environmental Health And Safety

Source
Material Type
Reporting
Spatial Reference



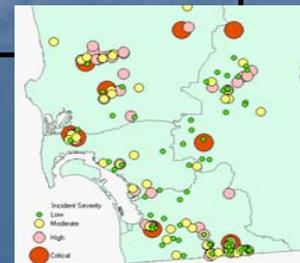
Logistics

Inventory ID
Routing
Spatial Reference



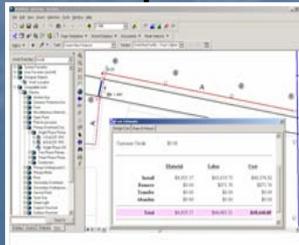
Incident Management

Incident #
Incident Type
Spatial Reference



Projects

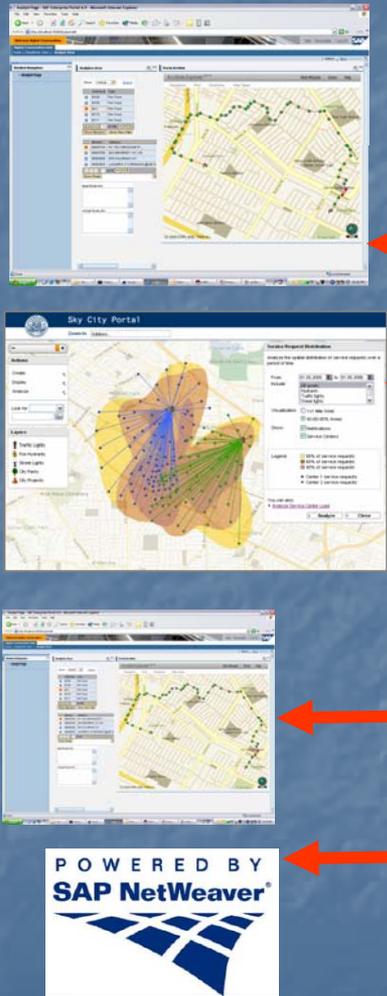
WBS #
Network
Spatial Reference



Mobile



SAP NetWeaver Integration Points



SAP NetWeaver™

INTEGRATION OF PEOPLE

Multichannel access

Portal

Collaboration

INTEGRATION OF INFORMATION

Bus. Intelligence

Knowledge Mgmt

Master Data Management

INTEGRATION OF PROCESSES

Integration Broker

Business Process Mgmt

APPLICATION PLATFORM

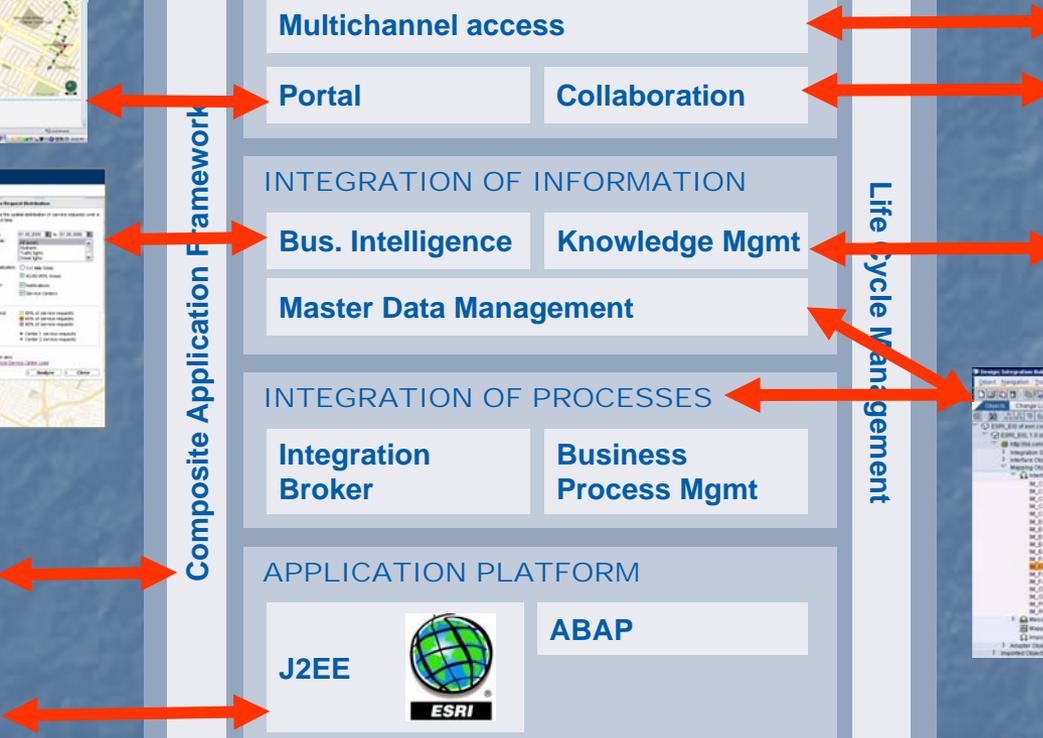
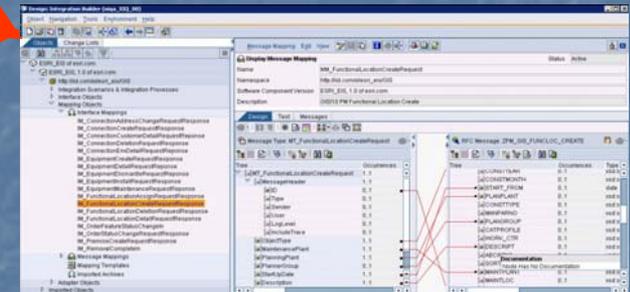
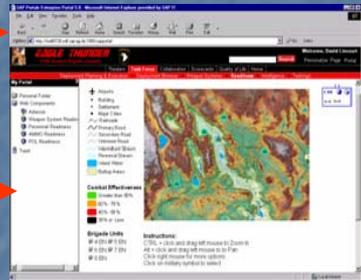
J2EE



ABAP

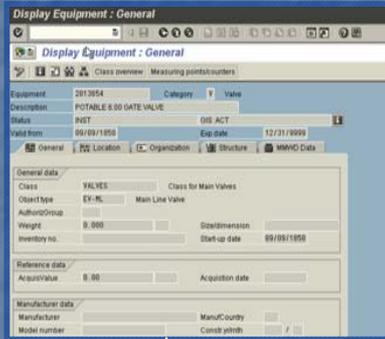
Composite Application Framework

Life Cycle Management

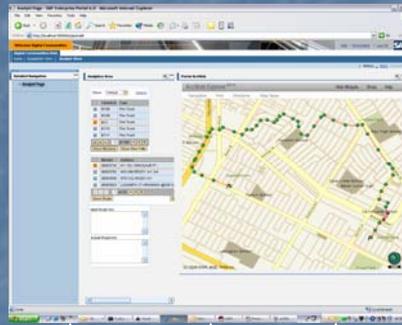


Three Different Types of Users

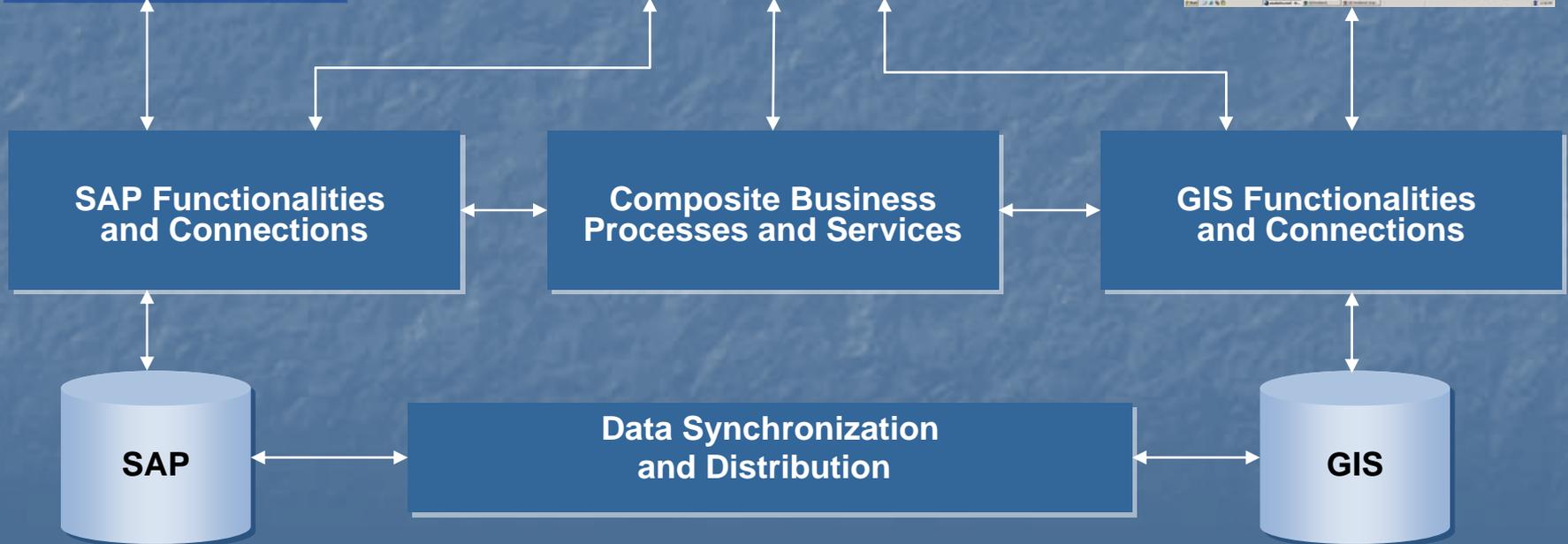
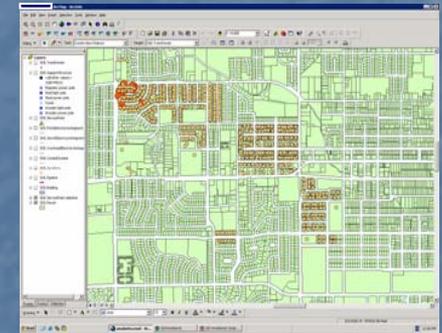
SAP User



Composite User



GIS User



NESA, Denmark

Telefoni Behandl Spring Indgående opkald Udgående opkald CC-medarbejder System Hjælp

Velkommen til NESA KundeCenter

Afslut kontakt

Forretningspartner

Eft./for.	Westmose	Poul
FP gade/r	Skolekrogen	12
PNr./byld	3500	Værløse DK
Partnr/tlf	600375725	

Opkaldsstatus

Opkalder
Valgt nummer

Aktioner

Info Kunde Fyltning Aftregn Betaling Teknik Adm.tekn

QMS-kald
Opret målerbehandl.
Opret forsyningsopp.

Omgivelser Bilag Udklipshol... Kundeoversigt Kontakt Scripting Kontooversigt

Objekt

Objekt	Beskriv...
PRV Poul Westmose / Skolekrogen	Partner 600
01: Poul Westmose/KU1557791	Aftalekonto
Skolekrogen 12, Værløse	Forbrugsst
el Aktiv EL 15-012590	Aftale 1003
EL el, Værløse, Skole Installation	
LK F7 DIREKTE 3	Enhed 648:
el Aktiv NET 15-012590	Aftale 1003
NET el, Værløse, Sko Installation	
LK F7 DIREKTE 3	Enhed 648:
1 Regninger	
13.06.2002 1300.00 DKK	Faktura 550

Vælg fejltype: -Vælg-
-Vælg-
Fejl 1-3 lamper u.lys (Brug prioritet C)

15410 15410
Lille Værløsevej
92 94 116
471C

P01 (1) (300) sapp01 INS

Start Niels ... Velko... Orad... Micro... O:\IT... Creat... DA 16:00



Real Estate Example

PAR PROPTAX/1/6 Display: Administration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <https://dy4tdc00.wdf.sap.corp:56181/sap/bc/gui/sap/its/webgui?sap-client=800&sap-language=EN> Go Links >>

PAR PROPTAX/1/6 Display: Administration

Menu | Back Cancel System | Display Previous Object | Display Next Object | Changes Between Display <-> Change | Create Parcel | More...

Parcel of Land: PROPTAX/1/6 test

General Data Administration Addresses Areas Assignments Development Partner Usages Contractual Usage Resubmit Overviews

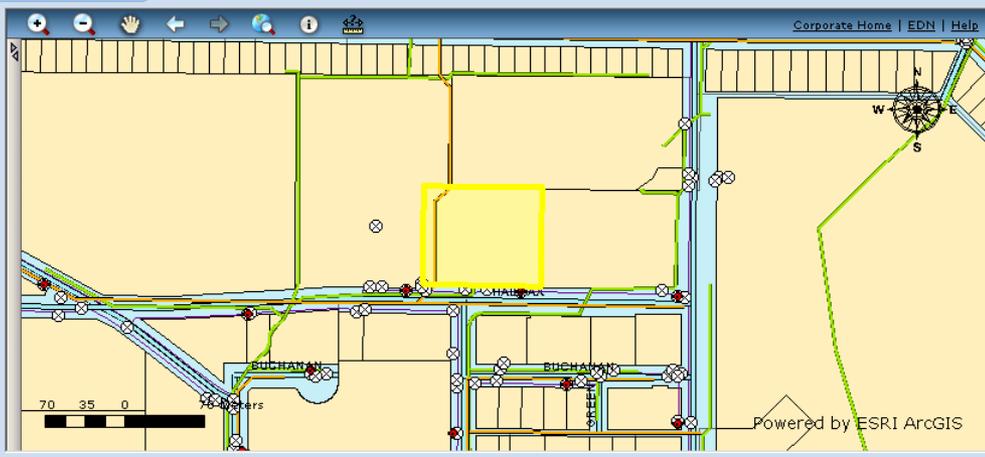
Survey Office

Survey Office External BP number

Hierarchical Object Location

Property Tax: PROPTAX Taxable parcel

GIS / other graphical



Corporate Home | EDN | Help

Powered by ESRI ArcGIS

DY4 800 dy4tdc00

Local intranet

Detailed description: The image shows a screenshot of a web-based GIS application. The browser window title is 'PAR PROPTAX/1/6 Display: Administration - Microsoft Internet Explorer'. The address bar shows a URL from a SAP system. The main content area is titled 'PAR PROPTAX/1/6 Display: Administration' and features a navigation menu with tabs for 'General Data', 'Administration', 'Addresses', 'Areas', 'Assignments', 'Development', 'Partner', 'Usages', 'Contractual Usage', 'Resubmit', and 'Overviews'. The 'Administration' tab is active. Below the navigation, there are sections for 'Survey Office' (with a dropdown menu and an 'External BP number' field), 'Hierarchical Object Location' (with icons and a 'Property Tax' field containing 'PROPTAX'), and 'GIS / other graphical'. The GIS section displays a map with a yellow highlighted parcel, a scale bar (0 to 70 meters), and a compass rose. The map is powered by ESRI ArcGIS. The browser's status bar at the bottom shows 'DY4 800 dy4tdc00' and 'Local intranet'.

PSE&G

The screenshot displays the ArcMap interface with several key components:

- Map View:** Shows a network of electrical circuits. A specific circuit is highlighted in blue. A transformer symbol is circled in black. Labels on the map include A75, A100, A50, C50, C75, and C100. A road labeled "SHEARWATER" is also visible.
- Layers Panel:** Lists various GIS layers such as "PSEG.sz_working (sun18)", "pseg.electric_052400", and "pseg.DistributionTransformer".
- Annotation:** Three yellow arrows point to specific features with the following text:
 - "Selected Circuit From GIS In Blue" pointing to the blue circuit line.
 - "Selected Transformer" pointing to the circled transformer symbol.
 - "Related Data From SAP" pointing to the ArcFM Attribute Editor window.
- ArcFM Attribute Editor:** A table showing detailed data for a selected transformer:

Object ID	4257
SubType CD	SinglePhasePadmount
Functional Location ID	ME-W-B293-PAD-2575
Circuit ID	HNC8013
Phase Designation	A
Operating Voltage	13KV
Label Text	A75
Structure Number	2575
Rated KVA	75
Low Side Configuration	Standard
Low Side Voltage	120/240
Break Down Indicator	No
Network Switch Status	Open
Flow Through Indicator	Yes
Network Clearing Location	0
Switch Type	<Null>
Nominal Voltage	<Null>
Comments	<Null>
Creation User	<Null>
Last Action Type	<Null>
Last Action Date	12/30/1899
Last Action W/O	<Null>
Creation Date	<Null>
Modified Date	<Null>
Last User	<Null>
Symbol Rotation	333.697531
Data Source	FMS Database
- Circuit Chooser:** A dialog box with two columns: "Available Circuits" (listing HIL4003, HIL4004, HIL4007, HIL4008, HILTF, HLB8001, HNC8012, HNC8013) and "Selected Circuits" (containing HNC8013). It includes options for "Display Distribution Circuits", "Display Distribution Supply Circuits", and "Create Map Sheets".

Real Estate Example

SAP Liegenschaftsverwaltung RE/LUM Powered by **ESRI saardata**

Legend

- Gebäude
- Wohngebäude
- Andere Gebäude
- Gemarkung
- Flur
- Flurstück
- Städte
- Landkreise
- DGRS

Layers

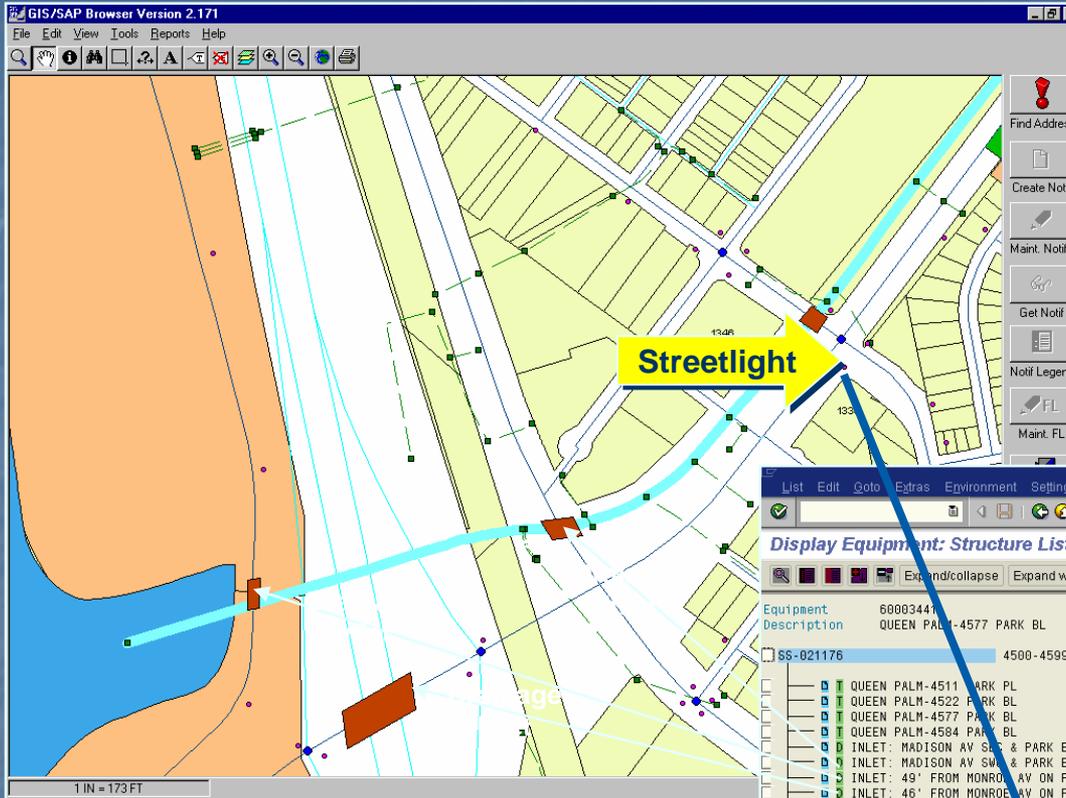
- Orthophoto
- Gebäude
- Gemarkung
- Flur
- Flurstück
- Städte
- Landkreise
- Flurkarte

Flurstück

RNO	OBJ_ID	OBJART	DAT_ERST	AK	ACT	OBJ_TYP	LAND	GEMARKUNG	FLUR	FLST_NR_I	FLST_NR_F	FLST_NR_N	GEMARKUNG_N	FLUR_TEXT	FLURSTUECK	ALB_ID	SHAPE_AREA	SHAPE_LEN
1	ACBJEON	0310233	20031028	01	N	F	10	507	10	217	0	32	Esszellingen	Flur 10	217.02	DE-10-0007-010 00017000002	011.5487055	100.570510058

Map created with ArcIMS - Copyright (C) 2008 saardata GmbH

San Diego



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

Display Equipment: Structure List

Equipment 68003447 Valid from 05/05/00
Description QUEEN PALM-4577 PARK BL

SS-021176 4500-4599 PARK BL S 1269-C4

- QUEEN PALM-4511 PARK PL
- QUEEN PALM-4522 PARK BL
- QUEEN PALM-4577 PARK BL
- QUEEN PALM-4584 PARK BL
- INLET: MADISON AV SW & PARK BL
- INLET: MADISON AV SW & PARK BL
- INLET: 49' FROM MONROE AV ON PARK BL
- INLET: 46' FROM MONROE AV ON PARK BL
- CLEANOUT: 33' FROM MADISON AV ON PARK BL
- SS-021176-001 4504 PARK BL N/O MONROE AV 20' W/S L 1269-C4
 - STANDARD: \$\$, IRON-13 1
 - LUMINAIRE: NORELCO, POST TOP-150[E]
 - LUMINAIRE: NORELCO, POST TOP-150[W]
 - LAMP: \$\$, HIGH PRESSURE SODIUM-150 1
 - BALLAST: \$\$, REACTOR-150 1
 - LENS: FORMED PLASTIC, POST TOP-\$\$ 1
- SS-021176-002 4505 PARK BL N/O MONROE AV 20' E/S L 1269-C4
- SS-021176-003 4588 PARK BL S/O MADISON AV 40' W/S L 1269-C4
- SS-021176-004 PARK BL N/O MONROE AV 240' E/S L 1269-C4
- SS-021176-005 PARK BL N/O MONROE AV 320' W/S L 1269-C4
- SS-021176-006 PARK BL S/O MADISON AV 160' E/S L 1269-C4

P01 (1) (300) earth OVR

Real Estate Example

Call GIS from SAP

SAP ↔ ArcGIS

Flurstück anzeigen: Allgemeine Daten

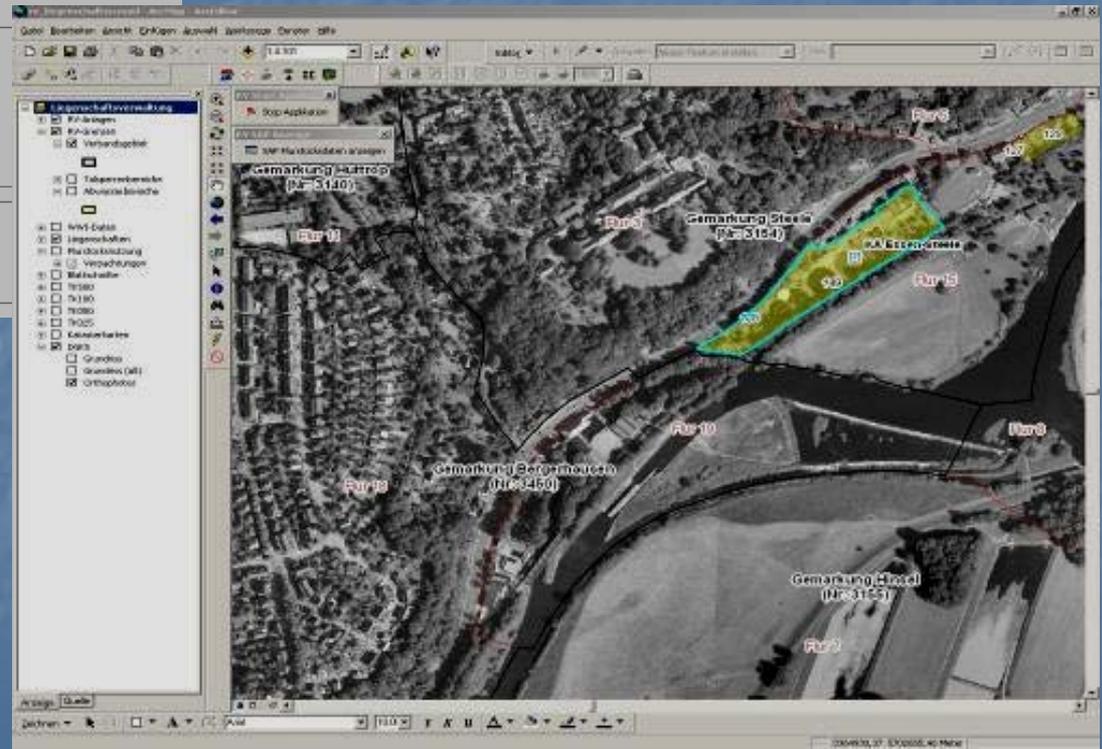
Dokumentenablage Gesamtübersicht **GIS-Visualisierung**

Allgemeine Daten **Kataster** Altdaten Veränderungsnachweis Grundbu

BLand/Gemark. 05 3154 Nordrhein-Westfalen / Steele
Flur/Flurst 15 149W Flurstkz DE-05-3154-000015-149W

Kostenstelle	
Kostenstelle	1501000 KA Essen-Steele
GeschBereich	0001 Wassergüte
Abteilung	A5
Wasserw. Anlage	K_501 KA Essen-Steele

Name und Typ der Anlage	
Anlagentyp	KA Kläranlage
Anlagenname	0140 Essen-Steele



New Possibilities: Vehicle Tracking Composite

Analyst Page - SAP Enterprise Portal 6.0 - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://localhost:50000/irj/portal/#

Welcome Digital Communities [Help](#) | [Personalize](#) | [Log Off](#) **SAP**

Digital Communities Role [home](#) | [Dispatcher View](#) | **Analyst View** | History [Back](#) [Forward](#)

Detailed Navigation

- Analyst Page

Analytics Area

Show Vehicle ... Search

Vehicle Id	Type
<input type="checkbox"/> ID108	Fire Truck
<input type="checkbox"/> ID109	Fire Truck
<input checked="" type="checkbox"/> ID11	Fire Truck
<input type="checkbox"/> ID110	Fire Truck
<input type="checkbox"/> ID111	Fire Truck

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Show Missions Show Raw Path

Mission	Address
<input checked="" type="checkbox"/> 06003734	HY 152 / DINOSAUR PT ,
<input type="checkbox"/> 06003765	403 UNIVERSITY AV , PA
<input type="checkbox"/> 06003936	879 COLORADO AV
<input type="checkbox"/> 06003933	LAGUNITA CT-GRANADA @326 S

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Show Route

Ideal Route Info

Actual Route Info

Portal ArcWeb

ArcWeb Explorer ^{BETA} Hide Widgets Share Help

Navigation Find Directions Map Types

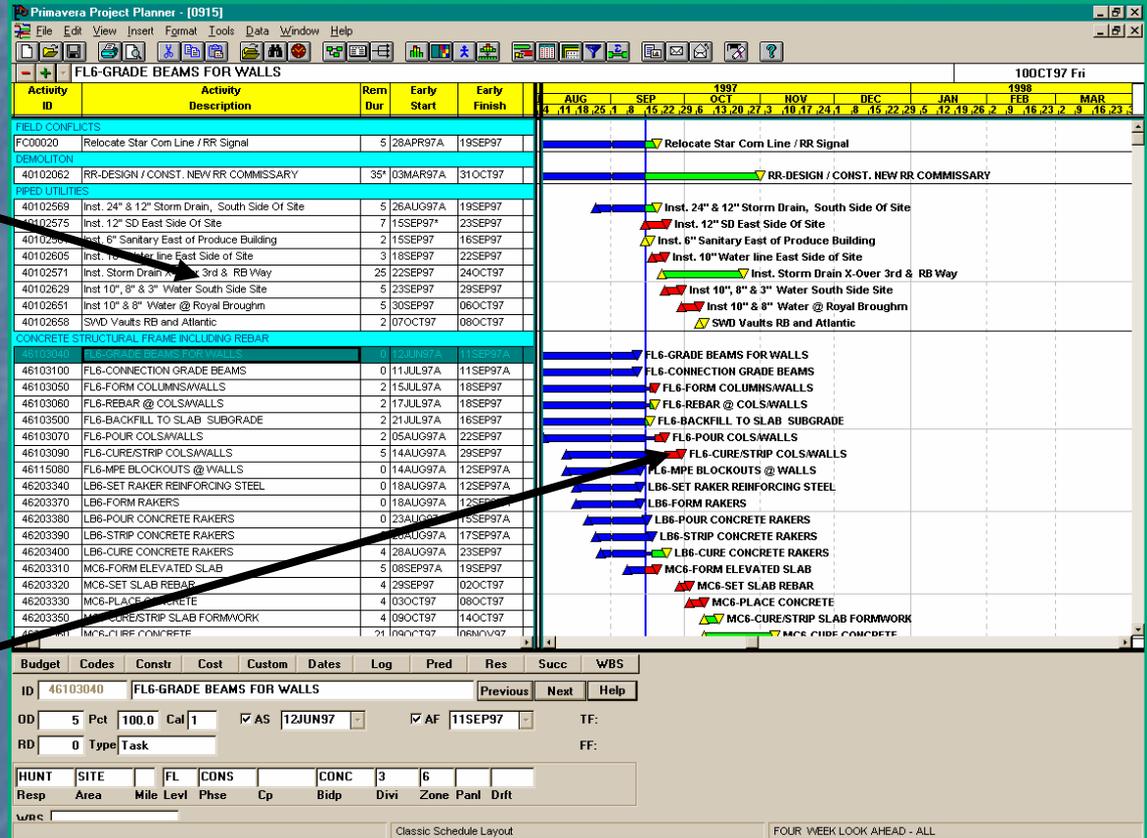
Midway Park
Houston School
Lindale Park
Ray High School
Caswell Park
Fannin School
Casa Linda School
Baker Junior High
Carroll Lane School
Brawley Hwy
Collier Park
Lexington School
Price Field

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Done Local intranet

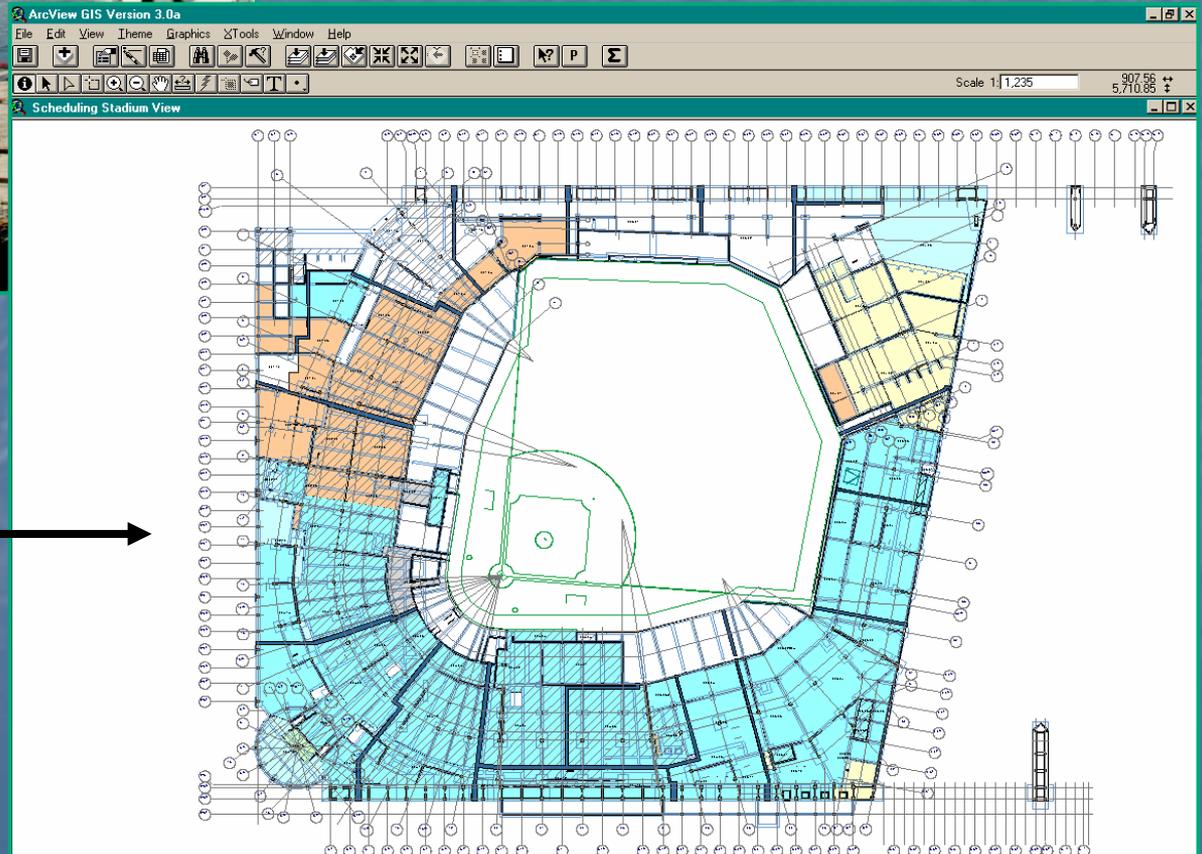
start 2 Wi... ToolLa... Visual... Int... Inbox... EditPl... Prese... untile... 16:02 PM

Typical Project Management : Schedule for each element in the Work Breakdown Structure (WBS)



GIS Enhanced Project Management

Potential problem areas (orange on this map)



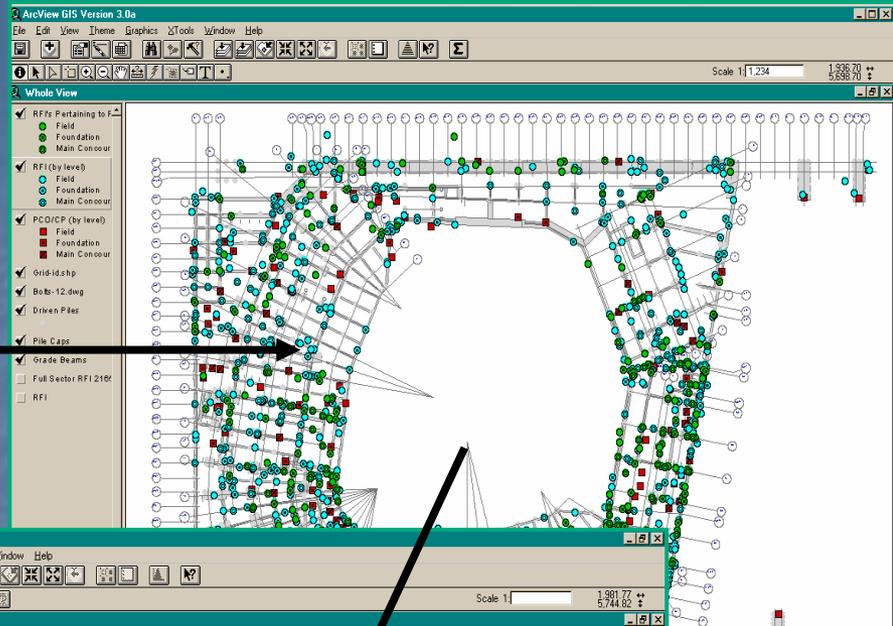
Activity	Start	Finish	Duration	ES	EF	LS	LF	TF	FF
1.000000	01/01/2003	01/01/2003	1	0	0	0	0	0	
1.010000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.020000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.030000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.040000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.050000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.060000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.070000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.080000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.090000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.100000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.110000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.120000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.130000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.140000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.150000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.160000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.170000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.180000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.190000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.200000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.210000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.220000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.230000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.240000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.250000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.260000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.270000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.280000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.290000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.300000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.310000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.320000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.330000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.340000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.350000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.360000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.370000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.380000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.390000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.400000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.410000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.420000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.430000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.440000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.450000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.460000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.470000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.480000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.490000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.500000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.510000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.520000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.530000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.540000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.550000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.560000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.570000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.580000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.590000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.600000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.610000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.620000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.630000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.640000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.650000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.660000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.670000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.680000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.690000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.700000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.710000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.720000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.730000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.740000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.750000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.760000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.770000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.780000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.790000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.800000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.810000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.820000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.830000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.840000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.850000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.860000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.870000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.880000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.890000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.900000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.910000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.920000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.930000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.940000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.950000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.960000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.970000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.980000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
1.990000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000
2.000000	01/01/2003	01/01/2003	1	0	0	0	0	0	1.000000

Managing Problems

London 5.1 13078

Requests

Type	To	From	Change No.	Title	Status	Cost	Date	Responded	Approved	Required
RFI	W/SO	HK	HK00001		NEW	\$0.00	10/1/97			
RFI	W/SO	HK	HK00002		NEW	\$0.00	10/1/97			
RFI	W/SO	HK	HK00003		NEW	\$0.00	10/4/97			
RFI	W/SO	ANS	231233	configuration	ANS	\$0.00	5/21/97	5/21/97	5/21/97	
RFI	W/SO	ANS	000002	Erection Sheet A215 and S213	ANS	\$0.00	5/21/97	5/21/97	5/21/97	
RFI	W/SO	ANS	000003	TGC, Ch4 - S104	ANS	\$0.00	5/21/97	6/13/97	5/21/97	
RFI	W/SO	ANS	000004	Sub wall @ W26 eqpt	ANS	\$0.00	5/21/97	6/13/97	5/21/97	
RFI	W/SO	ANS	000005	Shaw platform A215, S215	ANS	\$0.00	5/21/97	6/13/97	5/21/97	
RFI	W/SO	ANS	000006	Frash for hole 7402	ANS	\$0.00	5/21/97	5/21/97		
RFI	W/SO	ANS	000007	Plan Dewatering @ Slabing Tunnel	ANS	\$0.00	5/22/97	6/13/97	5/22/97	
RFI	W/SO	ANS	000008	Use MH for temp ramp	ANS	\$0.00	6/4/97	7/10/97	6/4/97	
RFI	W/SO	ANS	000009	TGC wall Tr A215	ANS	\$0.00	6/5/97	6/13/97	6/5/97	
RFI	W/SO	ANS	000010		NEW	\$0.00	10/4/97			
RFI	W/SO	ANS	000011	Concrete top design, air entrance	ANS	\$0.00	6/13/97	6/13/97		
RFI	W/SO	ANS	000012	Addition of water to reduce smoke	ANS	\$0.00	6/13/97	7/27/97	6/13/97	6/13/97
RFI	W/SO	ANS	000013	Backfill Material	ANS	\$0.00	6/13/97	6/13/97		
RFI	W/SO	ANS	000014	Asst E 7.6, 36.37 S GRM	ANS	\$0.00	6/13/97	6/13/97	6/13/97	
RFI	W/SO	ANS	000015	Survey stations, W/P5	ANS	\$0.00	6/13/97	6/13/97	6/13/97	6/13/97
RFI	W/SO	ANS	000016	Opening in wall, S216, A44 10	ANS	\$0.00	6/13/97	6/24/97	6/13/97	
RFI	W/SO	ANS	000017	Crew SW to Ch4 1, S226, ch410/572/ANS	ANS	\$0.00	6/13/97	6/24/97	6/13/97	6/13/97
RFI	W/SO	ANS	000018	Development length, rebar	ANS	\$0.00	6/13/97	6/24/97	6/13/97	6/13/97
RFI	W/SO	ANS	000019	Coll. Receptors @ G3 W/25 W/36	ANS	\$0.00	6/13/97	6/13/97	6/13/97	
RFI	W/SO	ANS	000020	Verify home plate survey control	NEW	\$0.00	6/13/97	6/13/97	6/13/97	6/13/97
RFI	W/SO	ANS	000021	Swf Footing bearing method	ANS	\$0.00	6/13/97	6/13/97	6/13/97	6/13/97
RFI	W/SO	ANS	000022	Cl in Runway File Caps	ANS	\$0.00	6/13/97	6/13/97	6/13/97	6/13/97
RFI	W/SO	ANS	000023	S Rivet/ PCAP @ sheet pile	ANS	\$0.00	6/20/97	6/20/97	6/20/97	6/20/97
RFI	W/SO	ANS	000024	Cl in Runway File Caps	ANS	\$0.00	6/20/97	7/3/97	6/20/97	6/20/97
RFI	W/SO	ANS	000025	Form Cur - PCAP, GRM - FTS, S04/MS	ANS	\$0.00	6/20/97	7/27/97	6/20/97	6/20/97
RFI	W/SO	ANS	000026	Card From Removal/ Overlapp	ANS	\$0.00	6/20/97	7/27/97	6/20/97	6/20/97
RFI	W/SO	ANS	000027	Dim for elevator 3	ANS	\$0.00	6/22/97	7/8/97	6/22/97	6/22/97
RFI	W/SO	ANS	000028	Shipping PCAP Items - Runway	ANS	\$0.00	6/22/97	7/27/97	6/22/97	6/22/97
RFI	W/SO	ANS	000029	Shut off Runway W/SO RFI 20	ANS	\$0.00	6/22/97	8/1/97	6/22/97	6/22/97
RFI	W/SO	ANS	000030	BE when finished call contact	ANS	\$0.00	6/24/97	7/27/97	6/24/97	6/24/97
RFI	W/SO	ANS	000031	BE to inspect/ test holes at top	ANS	\$0.00	6/24/97	7/27/97	6/24/97	6/24/97
RFI	W/SO	ANS	000032	Beam shapes	ANS	\$0.00	6/24/97	7/27/97	6/24/97	6/24/97
RFI	W/SO	ANS	000033	Top grade beam section S/1102	ANS	\$0.00	6/24/97	7/27/97	6/24/97	6/24/97
RFI	W/SO	ANS	000034	Top Sw footing 20 / S1005	ANS	\$0.00	6/24/97	7/27/97	6/24/97	6/24/97



Request for Information Log

Problem Hotspots



RFIs Mapped to Project

An Improved Way to Visualize Projects

