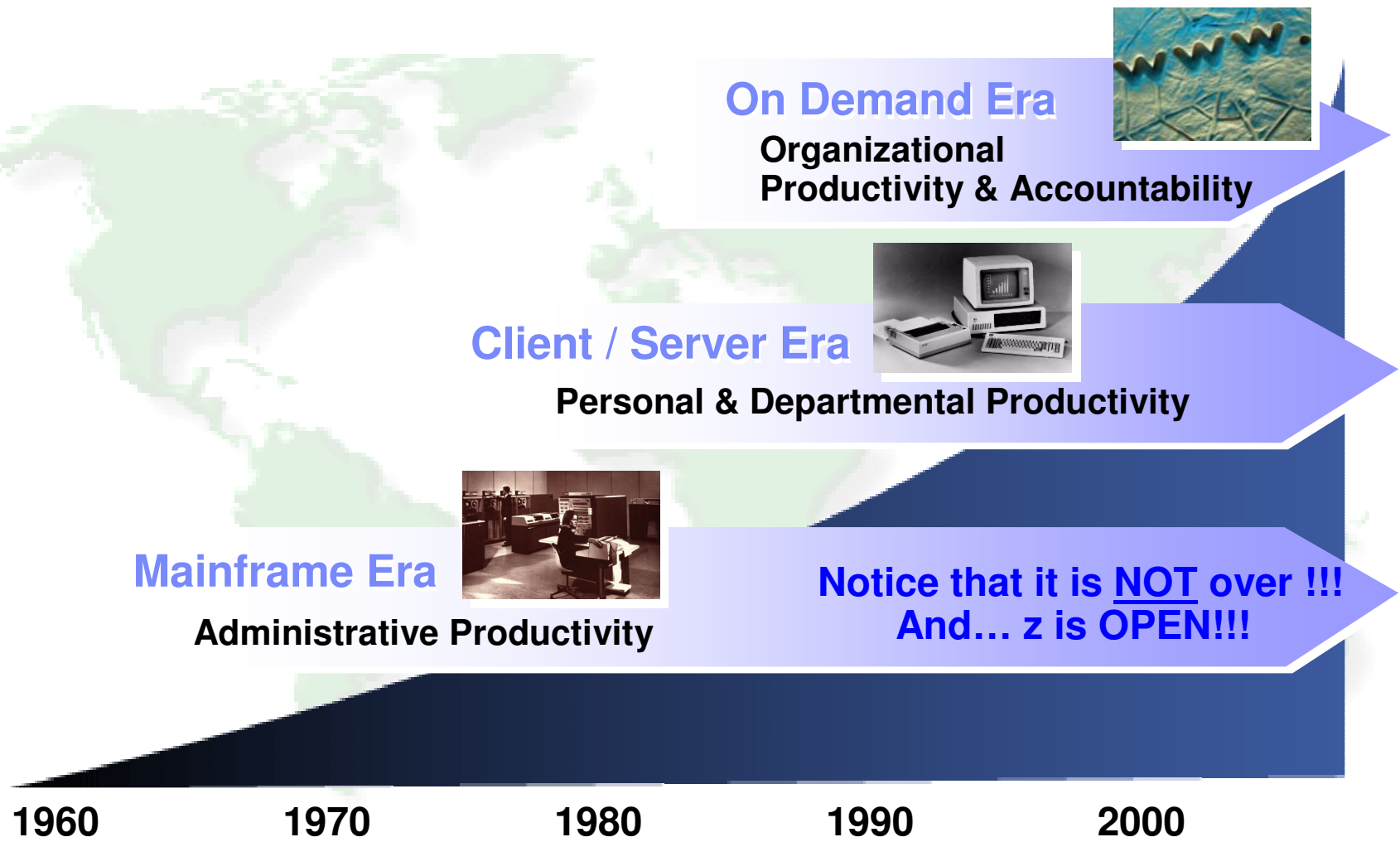


Agenda

- **Why DB2 for z/OS**
- Enterprise Spatial Data Solutions with ESRI
 - Location Information
 - Case Studies & Examples
- Spatial Support in DB2 9 for z/OS
 - Features
 - Usage Scenarios
- Q & A

Eras of IT Evolution



On Demand Era

Organizational Productivity & Accountability



Client / Server Era

Personal & Departmental Productivity



Mainframe Era

Administrative Productivity



**Notice that it is NOT over !!!
And... z is OPEN!!!**

1960

1970

1980

1990

2000

Source: U.S. Department of Commerce

Why Customers Choose DB2 on System z

- Delivers secure information services you can trust
 - Unmatched synergy with System z and z/OS
 - Offers the ideal platform for SOA
 - Cost effective choice for customers to scale up to an enterprise-wide solution
- Concurrent HW/SW upgrades provide the highest possible availability
- Better risk management than IT investments today will support future requirements
 - Helps address regulatory compliance with ability to establish centralized policies and procedures for privacy, security and audit
- Total Cost of Ownership advantages

Proven history, DB2 for z/OS in:

- 25 of the top 25 WW banks*
- 23 of the top 25 US retailers**
- 9 of the top 10 global life/health insurance providers***



DB2 delivered the world's largest core banking benchmark result delivering a record 9,445 business transactions per second in real-time based on more than 380 million accounts with 3 billion transaction histories¹

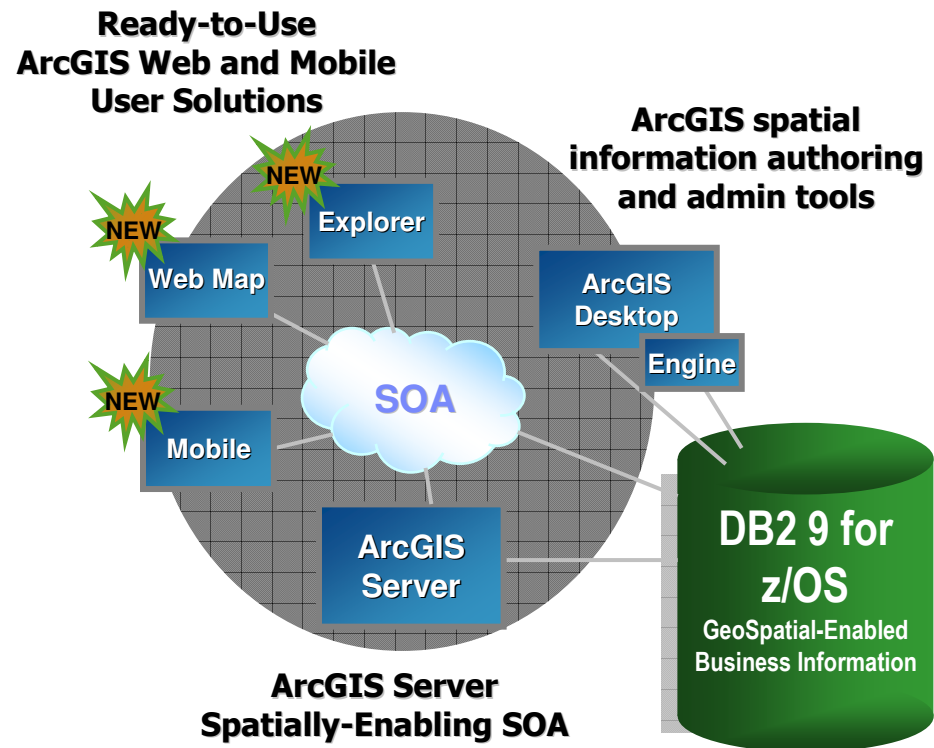
Top companies as identified in: WW Banks from The Banker.com:
 *http://www.thebanker.com/news/fullstory.php/aid/1699/Tio_1000_World_Banks.html
 **US Retailers from National Retail Federation July 2005:
<http://www.stores.org/pdf/TOP100printwithad.pdf>
 ***Insurance - 2005 Ward's 50 Benchmark Group: www.memic.com/news/Wards50.asp
http://www.marketwire.com/mw/release_html_b1?release_id=213236

ESRI & DB2 9 for z/OS Spatial Support

Enabling DB2 9 for z/OS for Enterprise Spatial Information Management on System z



- **Dynamic & continuous, spatially-enabled business information on System z**
- **Integration with ESRI ArcGIS™ spatial information authoring, serving, user, and hosted solutions**
- **ArcGIS™ Web-Based and Desktop Clients directly-connected to DB2 9**
- **Strongest, most secure spatial-information management platform with near-linear scalability and highest business resiliency for Insurance, Banking, Retail, Energy & Utilities, and Government**



ESRI ArcGIS: A Complete System for Authoring, Serving and Using Spatial Information on DB2 9 for z/OS

Agenda

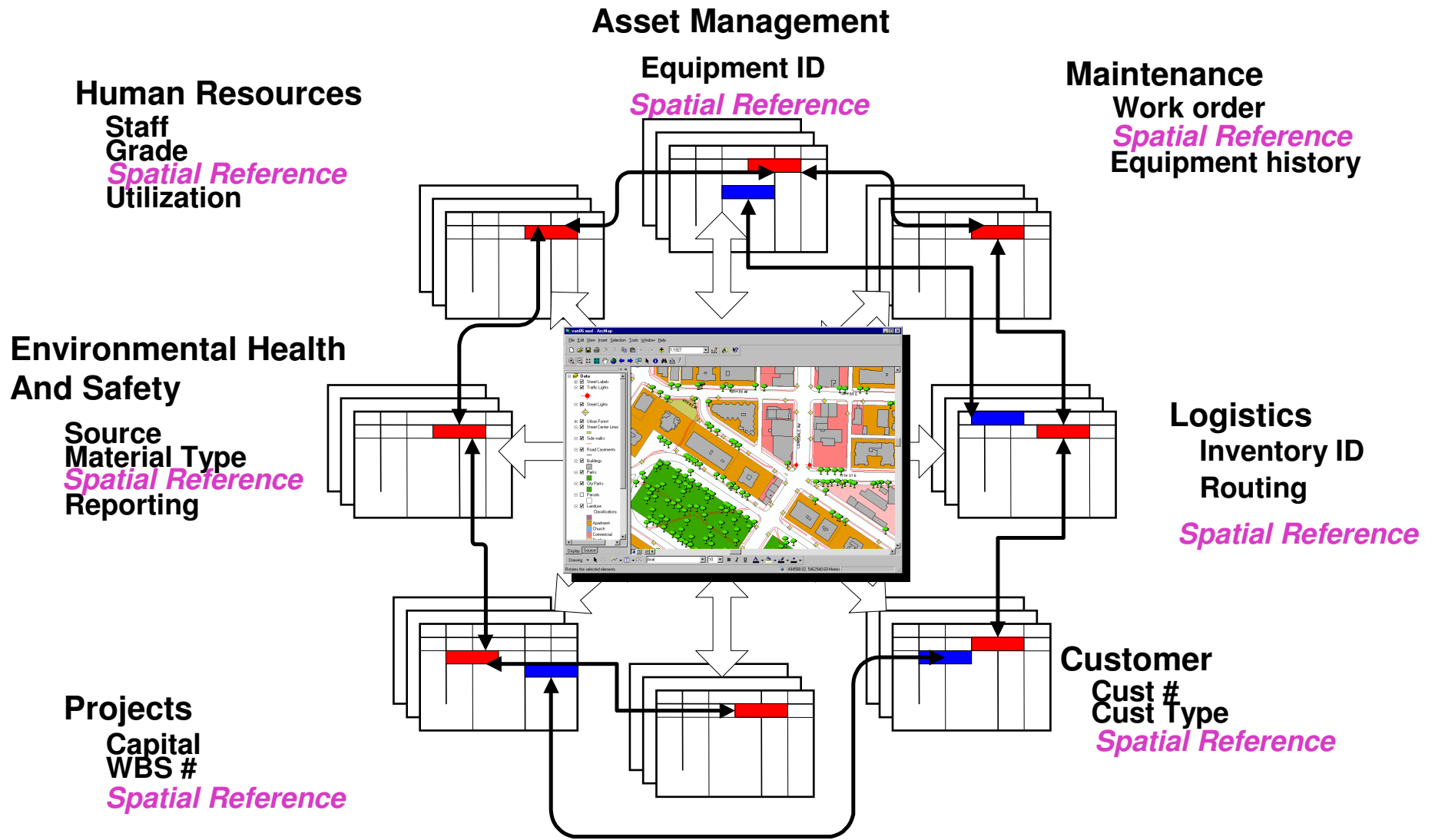
- Why DB2 for z/OS
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 - Location Information
 - Case Studies & Examples
- Spatial Support in DB2 9 for z/OS
 - Features
 - Usage Scenarios
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Finding Your Place: Maps

The image shows a screenshot of a web browser displaying Yahoo! Local Maps and Google Earth. The Yahoo! Local Maps interface includes a search bar with "LAS" entered, a list of directions, and a "GET MAP AND DIRECTIONS" button. The Google Earth window shows a 3D satellite view of Las Vegas with a search panel open. The search panel includes a "Task Center - What's Around Here?" section with a search radius of 10 miles and a list of tasks such as "Find Place", "Find Address", and "What's Around Here?". The "What's Around Here?" task is selected, showing results for "MC CARRAN INTL (LAS) 1.88 Miles" and "3950 Las Vegas Blvd S, Las Vegas, NV 89119". The Google Earth window also displays a "Task Center - What's Around Here?" panel with a search radius of 10 miles and a list of tasks. The "What's Around Here?" task is selected, showing results for "MC CARRAN INTL (LAS) 1.88 Miles" and "3950 Las Vegas Blvd S, Las Vegas, NV 89119". The Google Earth window also displays a "Task Center - What's Around Here?" panel with a search radius of 10 miles and a list of tasks. The "What's Around Here?" task is selected, showing results for "MC CARRAN INTL (LAS) 1.88 Miles" and "3950 Las Vegas Blvd S, Las Vegas, NV 89119".



Place Information: It's Everywhere



Place Information is a Business Asset

- **A spatial context:**
 - Location
 - Orientation
 - Distance
 - Area...

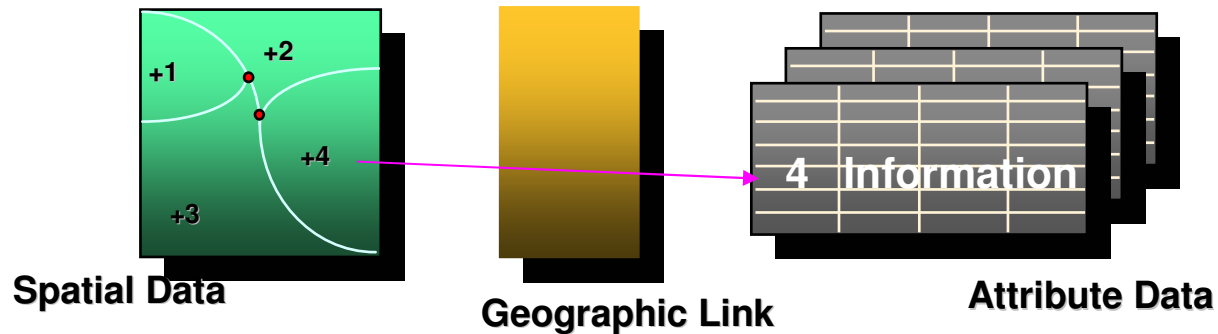
- **A business necessity:**
 - Where are new customers? How many? How close?
 - Competitor locations?
 - Cost of doing business...?

- **Analyze Outcomes:**
 - Is the supply-chain efficient?
 - Business continuity- risk from natural and manmade perils?
 - What if I used 10 trucks instead of 15?

The “Secret Sauce”

Linking features and attributes, plus...

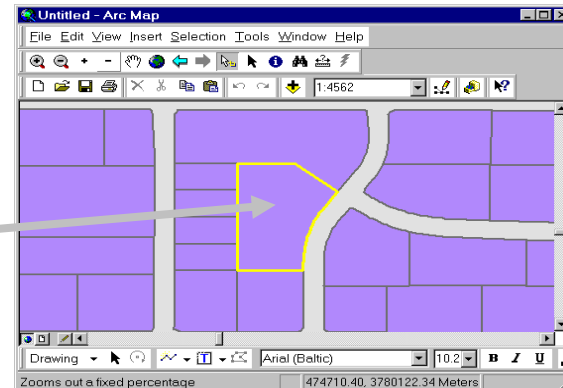
- Each feature has a record in the table



Unique identifier links feature and attributes

FID	Shape	AREA	PERIMETER	PARCEL_	PARCEL_ID	ZONE_CODE	LU_CODE
4103	Polygon	9142.507	392.7513727949	4104	4116	LMDR	RES
4105	Polygon	6499.797	333.9707078642	4105	4117	LDR	RES
4106	Polygon	1677.3564	1105.5807035660	4106	4118	IVAC	IVAC

FID = 4103
(Feature Identifier)



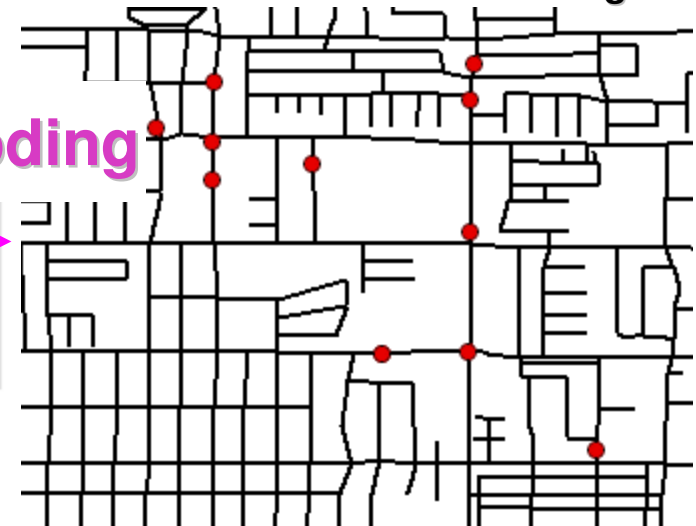
...Getting at Corporate Data Thru Geocoding

- Linking descriptive data, such as address, to a geographic location.
- Address is matched to address range on street data
- A real-world location is assigned to each address

Street Data With Address Ranges

LOCATION	OBJECTID	CASE_NUM	TYPE	REP
145 S CHURCH ST	33	990302252	7	3/20/99
1711 N ORANGE ST	36	990100032	3	1/2/99
1702 N ORANGE ST	38	990302093	3	3/15/99
1144 OCCIDENTAL DR	53	990302239	6	3/20/99

Geocoding



Why is Place So Important?

- Save Money/Cost Avoidance
- Save Time
- Increase Efficiency
- Increase Accuracy
- Increase Productivity
- Increase Communication
- Increase Collaboration
- Generate Revenue
- Make Better Decisions
- Aid Budgeting
- Automate Workflow...
- Build an Information Base
- Manage Resources
- Assist Consumers Locate Resources
- Improve Access to Government
- Streamlining Business Processes
- Making Informed Decisions
- Create multiple scenarios
- Optimum Resource Management
- Effectively allocate, analyze, track, and conserve assets
- Maximize investments and control inventories

...Lets look at some examples

State of Connecticut Anti-terrorism Preparedness System



State of Connecticut Viewer - For Official Use Only - Microsoft Internet Explorer

Active Tool: SELECT EVENT
You'll find select events by dragging a box on the map; address features to selected list.

1. Location: Report Number: 01
 On Map Look Up Address
 1158812852007 582174441581

State of Connecticut Viewer - For Official Use Only - Microsoft Internet Explorer

Active Tool: Data
Tool Box: For the rise in severity detection by holding down the mouse and dragging the map to a new location.

Condition	Color	PK#	Address	Visites
22		622 North M.L. BENTON, 06243	New	
22		22 Wilson St, Plainville, 06064	New	
31		29 Union St, Plainville, 06064	New	
20		64 Crescent St, Middletown, 06457	New	
22		New London, New London, CT, New London	New	
20		12 Parkside Rd, Norwich, 06252	New	
21		56 City Circle, New London, 06243	New	
26		Unassessed St, New London, 06243	New	
20		Unassessed St, New London, 06243	Modify	
20		1305 Section, 06243	Modify	

Step 2: Specify Study Areas by

Rings

Dots

Overlapping Rings
Information for up to three overlapping rings that are centered on the center point. Each ring includes the date of any inner ring.

Radius #1: 3.5 miles
 Radius #2: 5.5 miles
 Radius #3: 15.0 miles

Step 3: Select Subscription Reports

Tapestry Area Profile
 Tapestry Area Profile

Demographic
 Market Profile
 Graphic Profile
 Demographic and Income Profile
 Housing Profile
 Census 2000 Summary Profile

Consumer Expenditure
 Retail Goods and Services Expenditures

One Map Per Site
 Standard Site Map

UCC

Ground Zero

JFO, JIC, JOC

Legend

NARAC Product for MUSTARD GAS

Set SA: Skin Exposure to Liquid

- > 600 reg/m²
- 50% Non-fatal injuries for liquid on bare skin exposure for 70kg man
- > 225 reg/m²
- 10% Non-fatal injuries for liquid on bare skin exposure for 70kg man

- Ground Zero
- General Hospital
- Housing Homes

Map produced by the Connecticut Department of Emergency Management and Homeland Security
 Map created: April, 2003
 This map is intended for planning purposes only.

THIS IS AN EXERCISE

State of New York Dept of Motor Vehicles (DMV) Accident Location Information System



Accident Location Information System | Location Coding Data Entry

HOME | MV104 LOCATION | RESULTS | ADMIN | MV104 IMAGES | MV104 IMAGES | MAP

MV104 Location Entry Form

Case: 6720850 NCIC: 13601
County: (None) Municipality:
Coordinate: 0 Motorist Supplied
Reference Marker: 14563728
Milepost: 13.2 House Number: 456
On Street/Route: GATES RD
Cross Street/Route: PORTAGE RD
 At Intersection At Railroad
Distance: 0.05 MI
North From Cross Street

Process



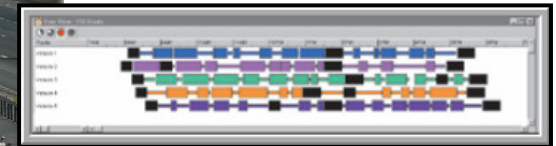
Logistics

Consistently Saves 15-30% Costs, Reduces Fuel Consumption & Improves Services

Manage Time

Cook County Housing

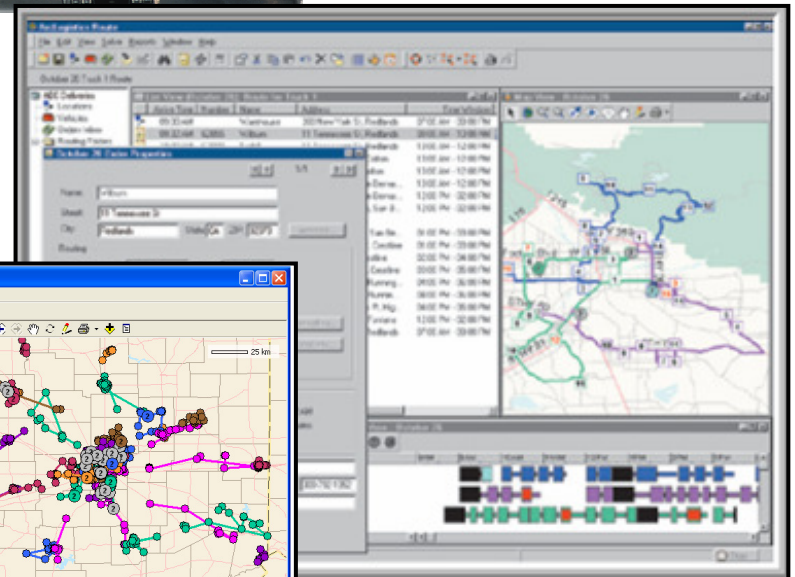
- 25,000 inspections per year
- 33% more inspections



Optimize Routes

Nashville Electric

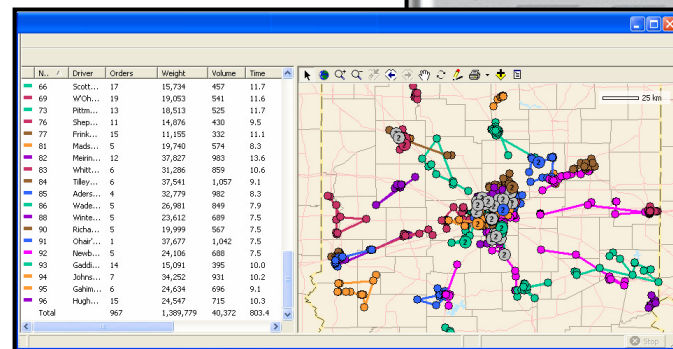
- 100 calls / day
- 23% increase in service calls



Schedule Vehicles

San Diego Paratransit

- 20% more trips per hour



Monarch Beverage

- 300,000 deliveries / year
- Large savings
- Mission critical to business process



Sears Holding Company Mobile Mapping System

Customer Information

Mr. William Miller
7738765132
2000 W. Evergreen Ave
60622

Turn	Driving Directions	Time	Dist
	Go East on W Ainslie St Drive 0.1 mile(s)	0:00:10	0.1 m
	Turn right on N Avers Ave Drive 0.1 mile(s)	0:00:18	0.1 m
	Turn right on W Lawrence Ave Drive 0.2 mile(s)	0:00:20	0.2 m
	Turn left on N Pulaski Rd Drive 1.2 mile(s)	0:01:58	1.2 m
	Take ramp and go South East on I 90 E (I 94 E) Drive 2.2 mile(s)	0:02:56	2.3 m
	Take ramp to N California Ave		

Distance to Next Stop: 6.5 m
Time to Next Stop: 0:10:36

Customer Stop Information

1320 W Lawrence Ave
Chicago, IL, 60640

Application Settings

Voice Settings

Volume:

Rate:

Navigation Display Settings

Vehicle Oriented (Based on Vehicle Direction)

North Oriented (North Always at Top)

Label All Streets

ZOOM LEVEL:

0.5 miles 0.75 miles 1.0 mile 2.5 miles 5.0 miles

Default End Location

1320 W Lawrence Ave
Chicago, IL, 60640

Reset...

US HWY 41
N ASHLAND AVE
NASHLAND AVE
W LAWRENCE AVE
W MONTROSE AVE
HWY 19
W ADDISON ST
N CLYBOURN AVE
STATE HWY 64
W DIVISION ST
W CHICAGO AVE

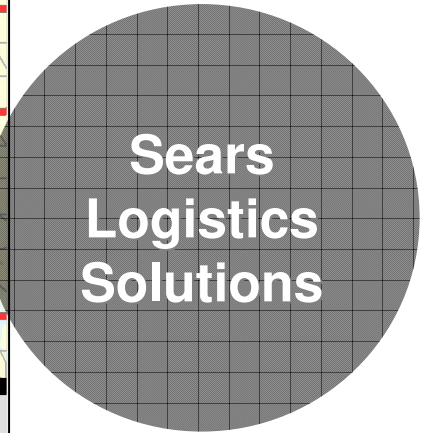
ATM
ATM
ATM
ATM

1
2

1.90 EL 90 W
1.90 W 1.90
1.90 E

Driving Directions

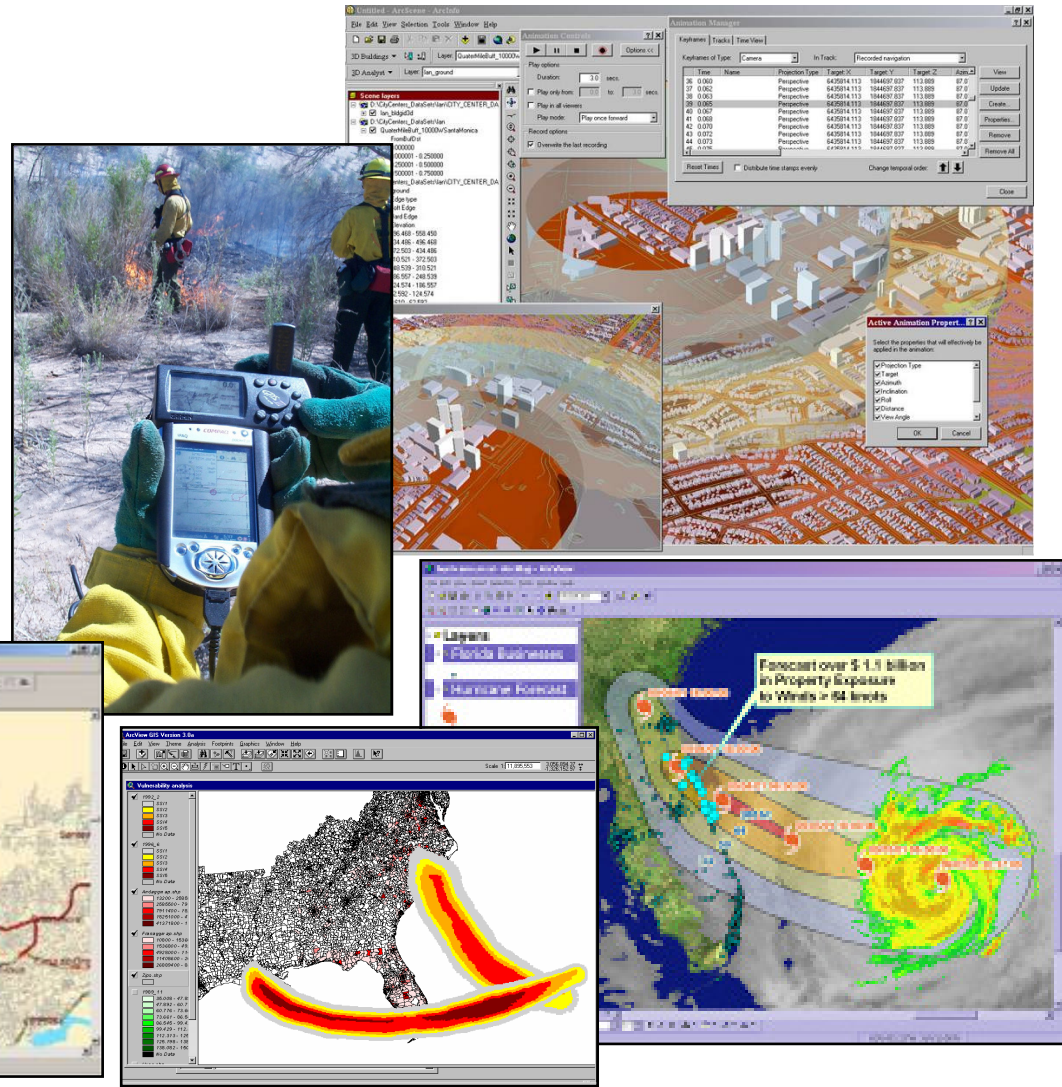
Total Distance To Stop: 6.0 miles Total Time To Stop: 0 Hrs: 10 Min



Insurance and Banking

Solution Business Areas:

- Workers Compensation
- Risk Prediction
- On-Demand Claims
- Service Optimization



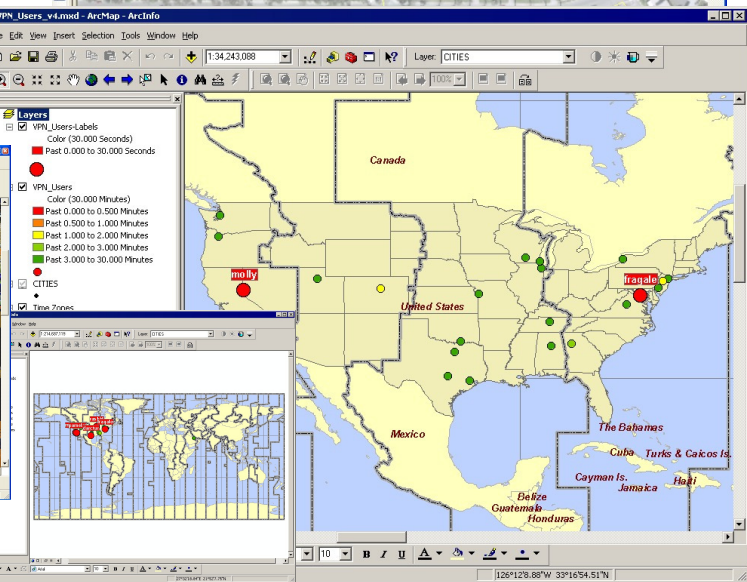
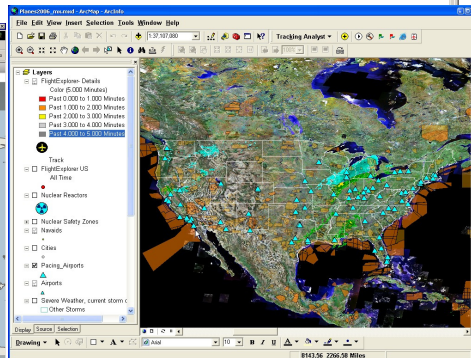
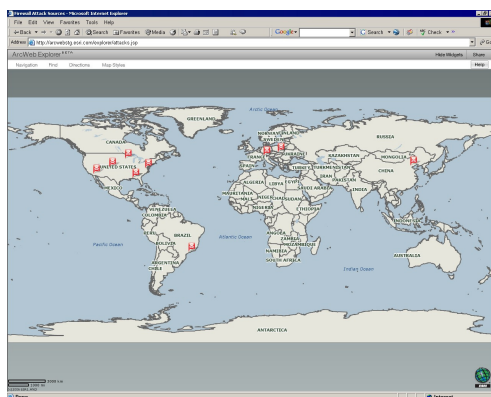
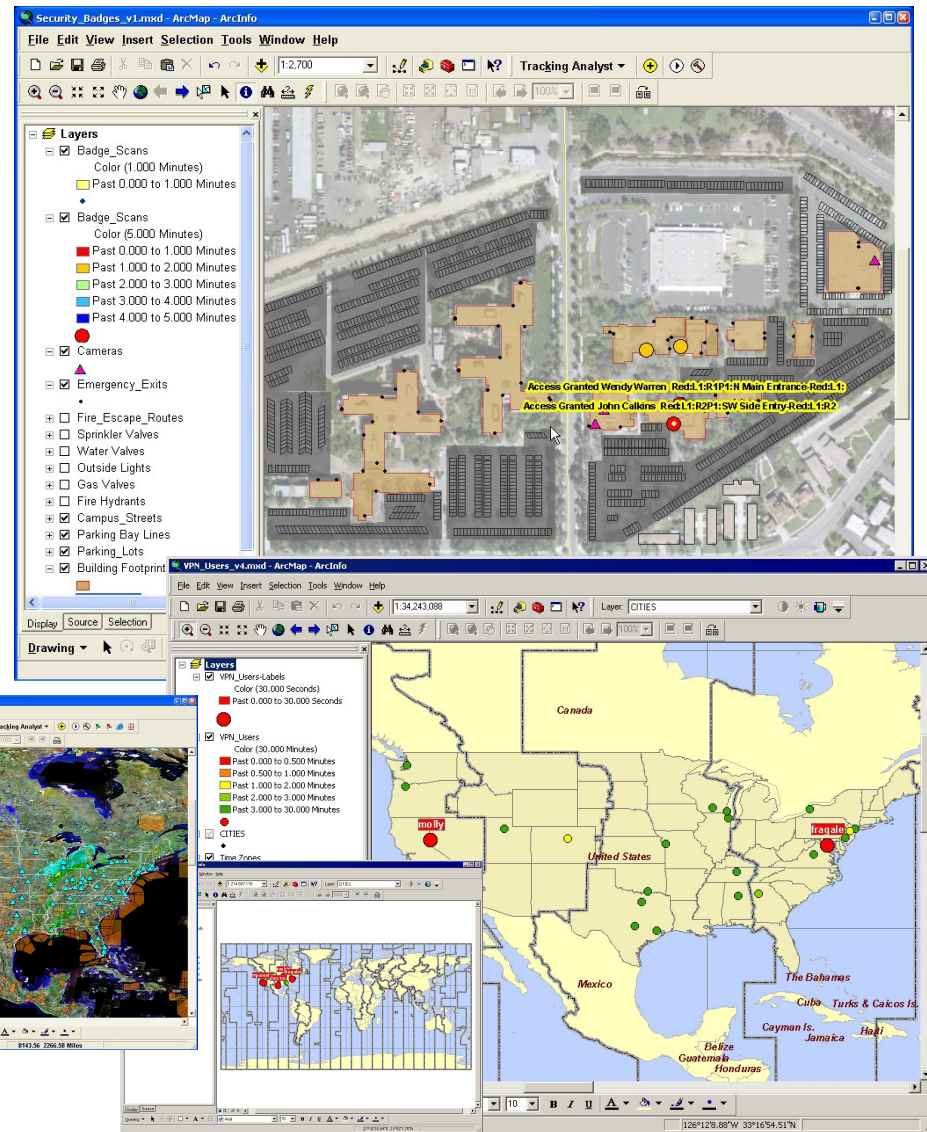
How can the Insurance Industry use GIS?

- Every insured RISK has a location
House, office, vehicle, warehouse, person, goods, etc
- This location can change
Vehicle, property, policy, restructuring, merger, acquisition, etc
- Every PERIL influencing the risk can be geolocated
- The perils are influenced by geography
Urban development, population, demographics, climate, postal units, flood, fire, crime, earthquake, tsunami, landslip, etc
- The locations impacted change over time

ESRI: Employee Locator

A Common Operating Picture

- Where are all employees right now?
- Business resiliency, continuity
- Safety and response
- Offer better employee safeguards/welfare
- Reduce/defend liability



So Why is Place Important to Any Organization?

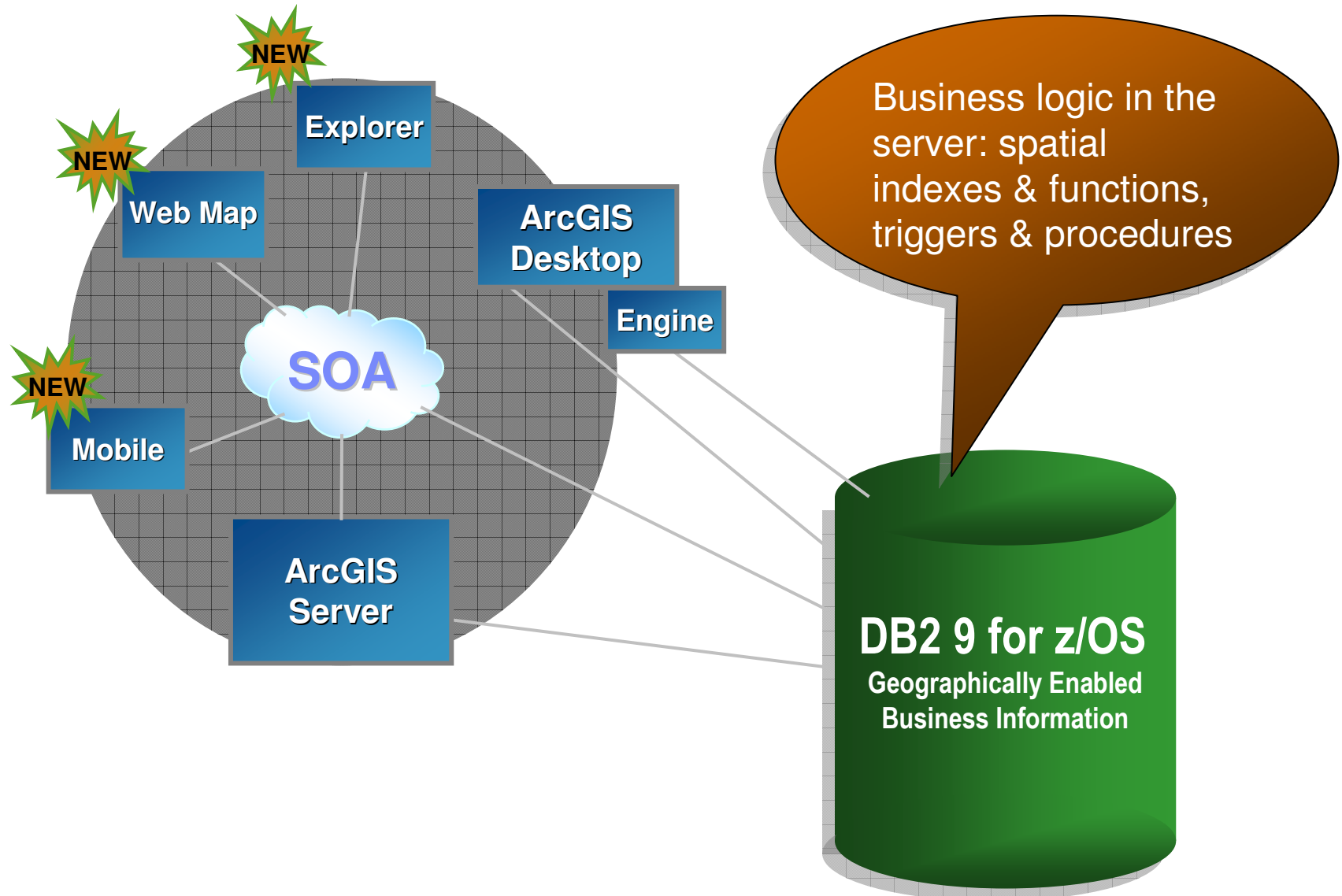
- Integrates data and improves processes
 - *contributes to process performance*
 - *reduces “silo” thinking*

- Supports evidence-based decision making
 - *provides a sound and relevant analytical frameworks*
 - *communicates differential outcomes - visually*

- Adds considerable value to new and existing information
 - *improves geographic data accuracy*
 - *leverages existing IT and data investments*

- Brings a relevancy to data analysis and information presentation
 - *empowers people to take action*
 - *allows rapid evaluations of alternatives*

Geographically Enabled IT Stack

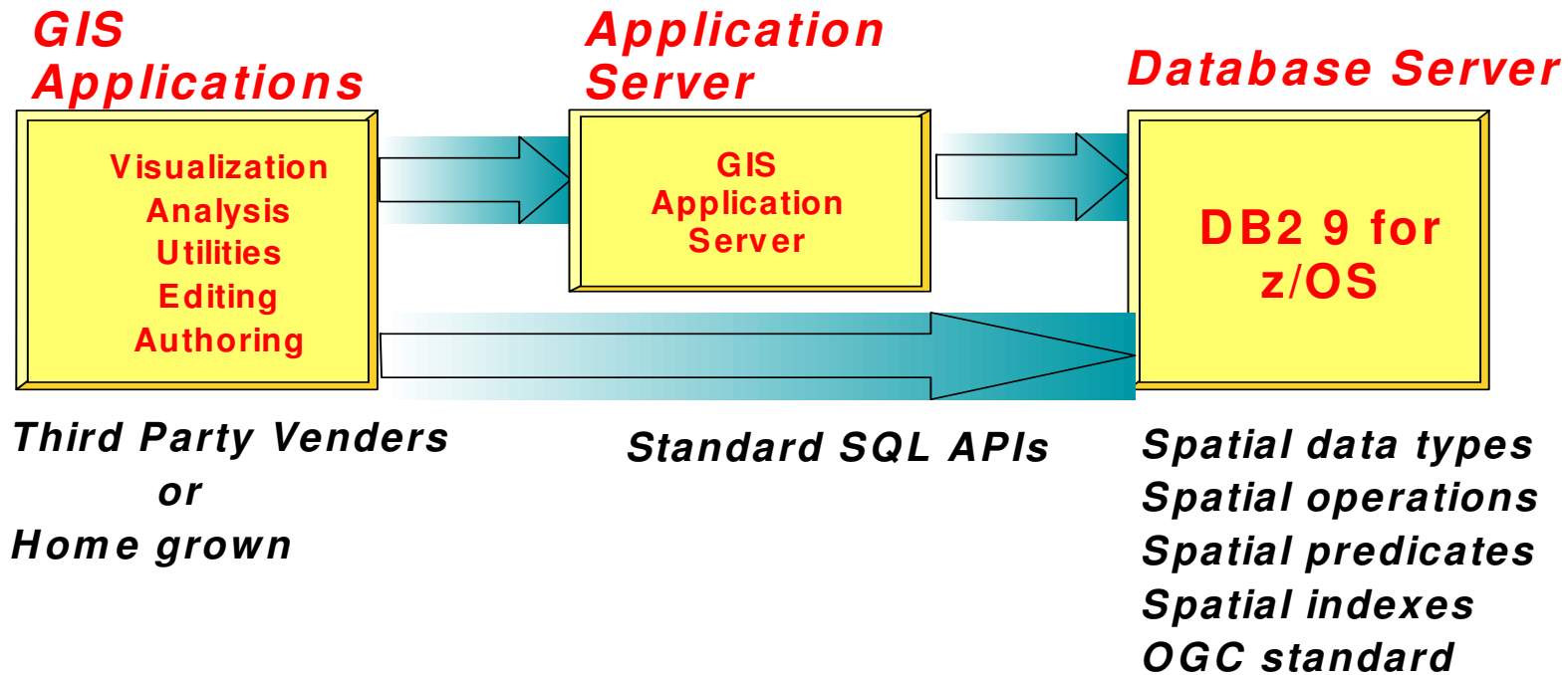


Agenda

- Why DB2 for z/OS
- Enterprise Spatial Data Solutions with ESRI
 - Location Information
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- Spatial Support in DB2 9 for z/OS
 - Features
 - Usage Scenarios
- Q & A



DB2 9 Spatial Support Overview



Spatial Support for DB2 9

- Seamless integration with DB2
 - Spatial data types
 - Spatial functions
 - Spatial catalog tables and views
 - Spatial stored procedures
 - Spatial indexes
 - Implement Open Geospatial Consortium (OGC) SQL specification and ISO SQL/MM Spatial standard for types and functions

Spatial Support for DB2 9 – cont.

- Spatial Data Types
 - ST_POINT
 - ST_LINESTRING
 - ST_POLYGON
 - ST_MULTIPPOINT
 - ST_MULTILINESTRING
 - ST_MULTIPOLYGON
 - ST_GEOMETRY (Abstract)

Spatial Support for DB2 9 – cont.

- Data can be represented by a single geometry or a collection of geometries
 - Point: IBM SVL (-121.736658, 37.201095)
 - Linestring: road, earthquake fault line
 - Polygon: property line, lake
 - Multipoint: all the fire stations in a city
 - Multilinestring: all the public bus routes of a county
 - Multipolygon: all the lakes in the western USA

Spatial Support for DB2 9 – cont.

- **Spatial Functions**

- Constructor
- Observer
- Predicate
- Cast
- Conversion
- Analysis
- Utility



Spatial Query

Sample Spatial Query

```
SELECT sid ,count(*), avg(income)
FROM stores s, customers c
WHERE ST_Distance(s.loc, c.loc)<100
GROUP BY sid;
```

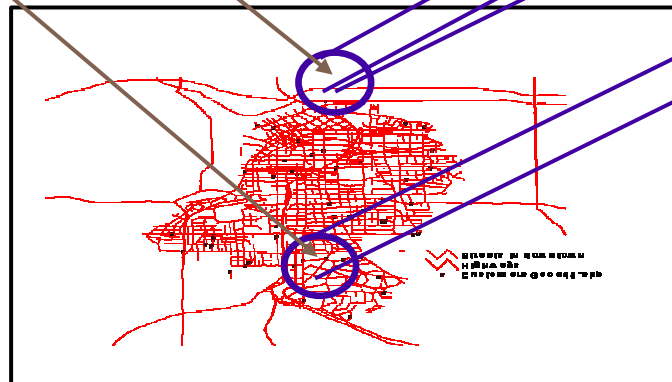
"tell me the average income, and number of all customers who live within 100 miles of each store"

STORES

SID	NAME	ADDR	LOC	ZONE

CUSTOMERS

CID	NAME	INCOME	ADDR	LOC



Spatial Support for DB2 9 – cont.

- **Spatial Catalog Tables:**
 - GSE_COORDINATE_SYSTEMS
 - GSE_COORDINATE_SYSTEMS_ID
 - GSE_GEOMETRY_COLUMNS
 - GSE_SPATIAL_REFERENCE_SYSTEMS
 - GSE_SIZINGS
 - GSE_UNITS_OF_MEASURE

- **Spatial Catalog Views:**
 - GEOMETRY_COLUMNS
 - SPATIAL_REF_SYS
 - ST_COORDINATE_SYSTEMS
 - ST_GEOMETRY_COLUMNS
 - ST_SIZINGS
 - ST_SPATIAL_REFERENCE_SYSTEMS
 - ST_UNITS_OF_MEASURE

Spatial Support for DB2 9 – cont.

- **Spatial Administrative Stored Procedures**
 - ST_ALTER_COORDSYS
 - ST_ALTER_SRS
 - ST_CREATE_COORDSYS
 - ST_CREATE_INDEX
 - ST_CREATE_SRS
 - ST_CREATE_SRS_2
 - ST_DROP_COORDSYS
 - ST_DROP_INDEX
 - ST_DROP_SRS
 - ST_IMPORT_SHAPE
 - ST_REGISTER_SPATIAL_COLUMN
 - ST_UNREGISTER_SPATIAL_COLUMN

Spatial Support for DB2 9 – cont.

- Spatial Indexing Capability
 - 2-D Grid Index
 - Utilized when spatial predicate functions are used
- Support various input and output formats
 - ESRI's shapefile format
 - Geographic Markup Language (GML)
 - Well-Known Binary (WKB)
 - Well-Known Text (WKT)
- Supported by ESRI's GIS tools
 - ArcSDE, ArcGIS



Getting Started

- Order DB2 Accessories Suite (no cost)
- Install and enable Spatial Support
 - Required DB2 9 for z/OS New Function Mode (NFM)
 - (FMID J2AG110 + PK51010 + PK54451)
- Order ESRI ArcGIS 9.3 (Beta - 4Q 2007, GA - 1Q 2008)
- Install and run post-installation setup job for ArcSDE & ArcGIS 9.3
- Use ArcSDE to import various shape files
- Use ArcCatalog to manage spatial and non-spatial data
- Use ArcMap to manage and display different map layers

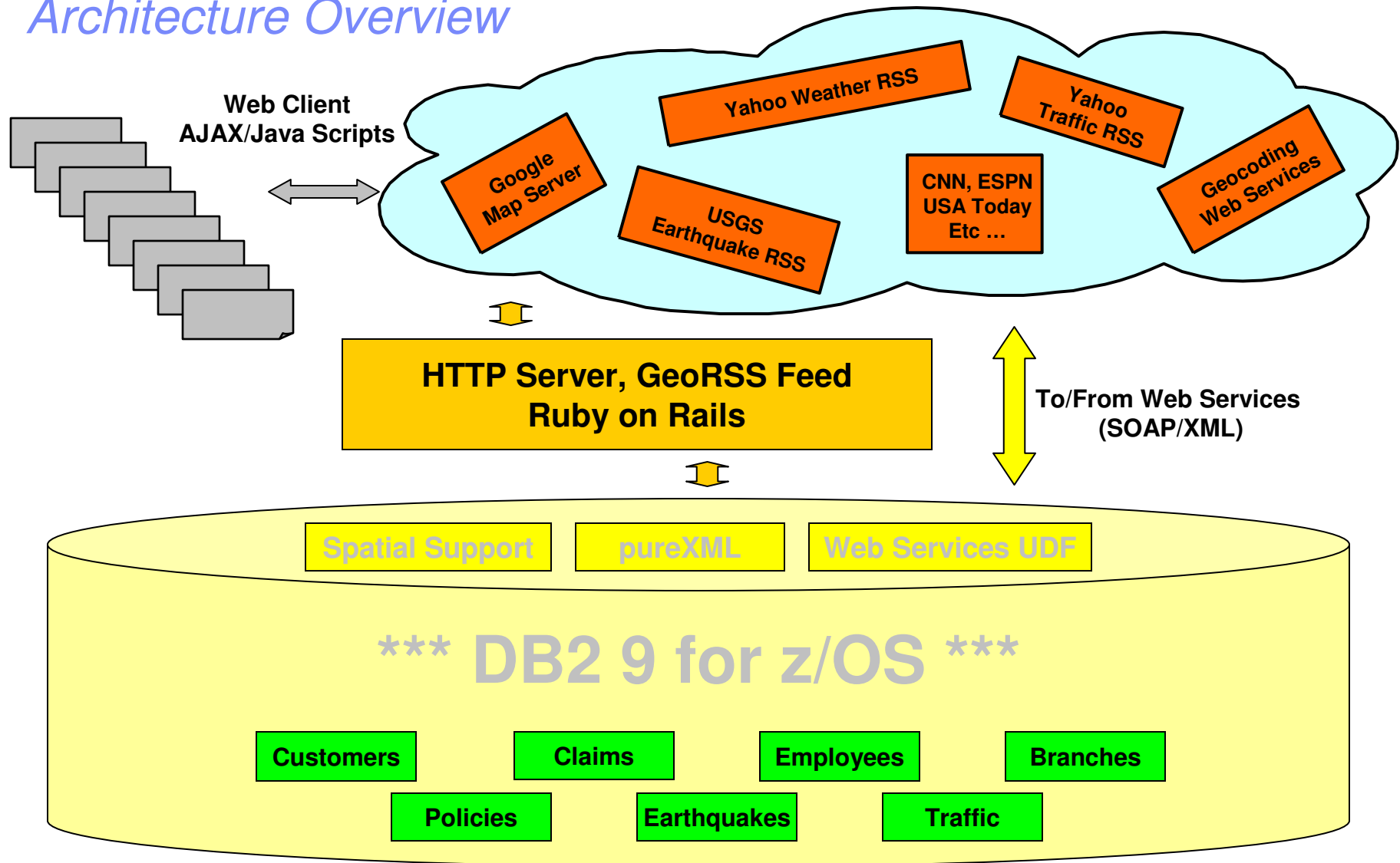
Usage Scenarios

- Scenario #1 – Insurance Company
- Scenario #2 – City Government

Problem Statement #1:

- An insurance company, MBI, needs a website for both customers and employees. The website needs the capabilities that can satisfy the following objectives:
 - Use web based mapping services such as Google Maps for the user interface.
 - Allow customers to review their policy and claim information. Allow user to search for traffic and earthquake related data near their location.
 - Allow employees to see what the customers see. In addition, employees can determine risk assessment for a customer based on their locations. Information such as earthquake activities and accident frequencies can influence insurance premiums for individual customer.
 - Allow simple asset management by tracking insurance field agents for optimal routing in customer visits.
 - Provide a GeoRSS feed for customers and other online visitors.

Architecture Overview



Team Video Code Guide PPT Docs

Appreciation is extended to the Companies whose products and services are used to create this demonstration. All Trademarks belong to their respective owners.

Customer Employee Guest

PEGGY ZAGELOW Login

Date: Tue, 23 Oct 2007 03:09:07 PDT Temp: 55F Wind Speed: Clear Full Forecast

Customer
Guest
Employee
Claim
Traffic Incidents
Earthquake
Field Agent

GeoRSS

Map Policy Agent

ID: 44
Date: 2007-07-04
Type: Fire accident
Policy ID: 44
Status: Processing
Description: it burned my house down and the mona lisa
Comment: rampant fire
Estimated Damage: 23000
Approved Amount:

Powered by Google

Traffic Data Provided by NAVTEQ, Copyright © 2007
 Weather Data Provided by WeatherBug
 Earthquake Data Provided by U.S. Geological Survey

SQL Query:
 select c.id as claim_id, c.pict, c ctype c_type, c.status c_status, c.comment, c.policy_id, c.description, c.x, c.y, c.date, e.branch_id emp_branch_id, c.estimated_price, c.approved_price, e.first emp_first, e.last emp_last, e.role emp_role, b.phone emp_phone, b.street emp_street, b.state emp_state, b.city emp_city, b.zip emp_zip, b.name emp_name, p.ptype p_type, p.status as p_status, p.comment as pcomment, p.date as pdate, e.pict emp_pict, p.coverage_amount, p.description as pdescription, cust.id customer_id, cust.pict customer_pict, cust.first customer_first, cust.last customer_last, cust.phone customer_phone, cust.street customer_street, cust.state customer_state, cust.zip customer_zip, cust.city customer_city from zdemo.branches b, zdemo.policies_v p, zdemo.claims_v c, zdemo.customers cust, zdemo.employees e where c.customer_id = '3' and cust.id = 3 and c.employee_id = cast(e.id as varchar(100)) and c.policy_id = p.id and e.branch_id = b.id

Internet

Risk assessment and geographical claim management are possible using a map interface

IBM Software Group | Information Management software

Team Video Code Guide PPT Docs

Appreciation is extended to the Companies whose products and services are used to create this demonstration. All Trademarks belong to their respective owners.

Customer Employee Guest

Gene Fuh Login

Date: Wed, 24 Oct 2007 00:37:07 PDT Temp: 62F Wind Speed: Clear Full Forecast

Details Customer Policy Claim

Role: Field Agent
Name: Roger Miller
Branch Name: Cupertino Branch
Branch ID: 1
Address: 20220 Suisun Drive Cupertino, CA 95014
Phone: 4429419604

Map Satellite Hybrid

POWERED BY Google

U.S. Geographical Survey
 Ruby on Rails Mongrel GeoRSS
 IBM DB2 9 for z/OS
 Google Maps Yahoo! Maps ESRI
 GeoCoding

- Customer
- Guest
- Employee
- Claim
- Traffic Incidents
- Earthquake
- Field Agent

GeoRSS:

Traffic Data Provided by NAVTEQ, Copyright © 2007
 Weather Data Provided by WeatherBug
 Earthquake Data Provided by U.S. Geological Survey

SQL Query:
 select c.id as claim_id, c.pict, c.ctype c_type, c.status c_status, c.comment, c.policy_id, c.description, c.x, c.y, c.date, e.branch_id emp_branch_id, c.estimated_price, c.approved_price, e.first emp_first, e.last emp_last, e.role emp_role, b.phone emp_phone, b.street emp_street, b.state emp_state, b.city emp_city, b.zip emp_zip, b.name emp_name, p.ptype p_type, p.status as p_status, p.comment as pcomment, p.date as pdate, e.pict emp_pict, p.coverage_amount, p.description as pdescription, cust.id customer_id, cust.pict customer_pict, cust.first customer_first, cust.last customer_last, cust.phone customer_phone, cust.street customer_street, cust.state customer_state, cust.zip customer_zip, cust.city customer_city from zdemo.branches b, zdemo.employees e, zdemo.customers cust, zdemo.claims_v c, zdemo.policies_v p where b.id = 1 and e.branch_id = b.id and e.role = 2 and c.employee_id = cast (e.id as varchar(100)) and c.customer_id = cast (cust.id as varchar(100)) and c.policy_id = p.id

Internet

Asset management is performed by tracking field agents as they are working in the field





Appreciation is extended to the Companies whose products and services are used to create this demonstration. All Trademarks belong to their respective owners.

Customer
 Employee
 Guest

Country:

Street:

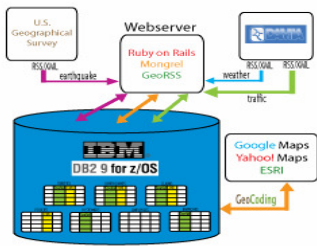
City:

State:

Zip:

SQL Geocoder
 WS Geocoder

Date: Wed, 24 Oct 2007 00:39:27 PDT Temp: 62F Wind Speed: Clear **Full Forecast**



- Customer
- Guest
- Employee
- Claim
- Traffic Incidents
- Earthquake
- Field Agent

GeoRSS:

Traffic Data Provided by NAVTEQ, Copyright © 2007

Weather Data Provided by WeatherBug

Earthquake Data Provided by U.S. Geological Survey

Map Satellite Hybrid

Details Query

Name: Guest
Address: 3950 Las Vegas Blvd. South Las Vegas, NV 89119 USA

SQL Query:

```
WITH temp(point) as (select zdemo.wsgeocoder(100,'3950 Las Vegas Blvd. South','Las Vegas','NV','89119', ' ', ' ') as point from SYSIBM.SYSDUMMY1) select cast(db2gse.st_x(point) as varchar(100)) x, cast(db2gse.st_y(point) as varchar(100)) y from temp
```

Done

Internet

Using ESRI's geocoding web service, a guest can input a valid address for risk assessment

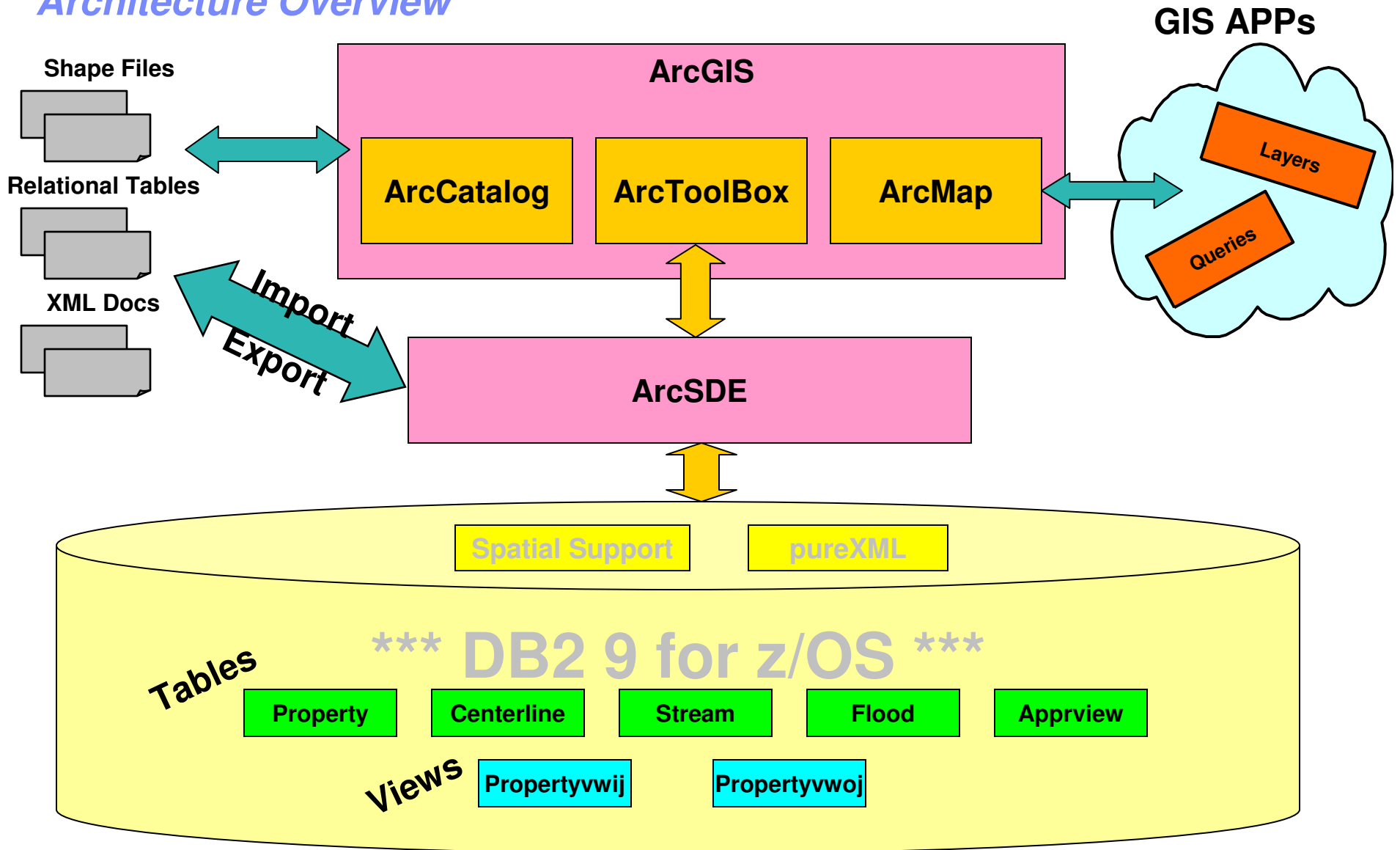
Implementation Summary #1

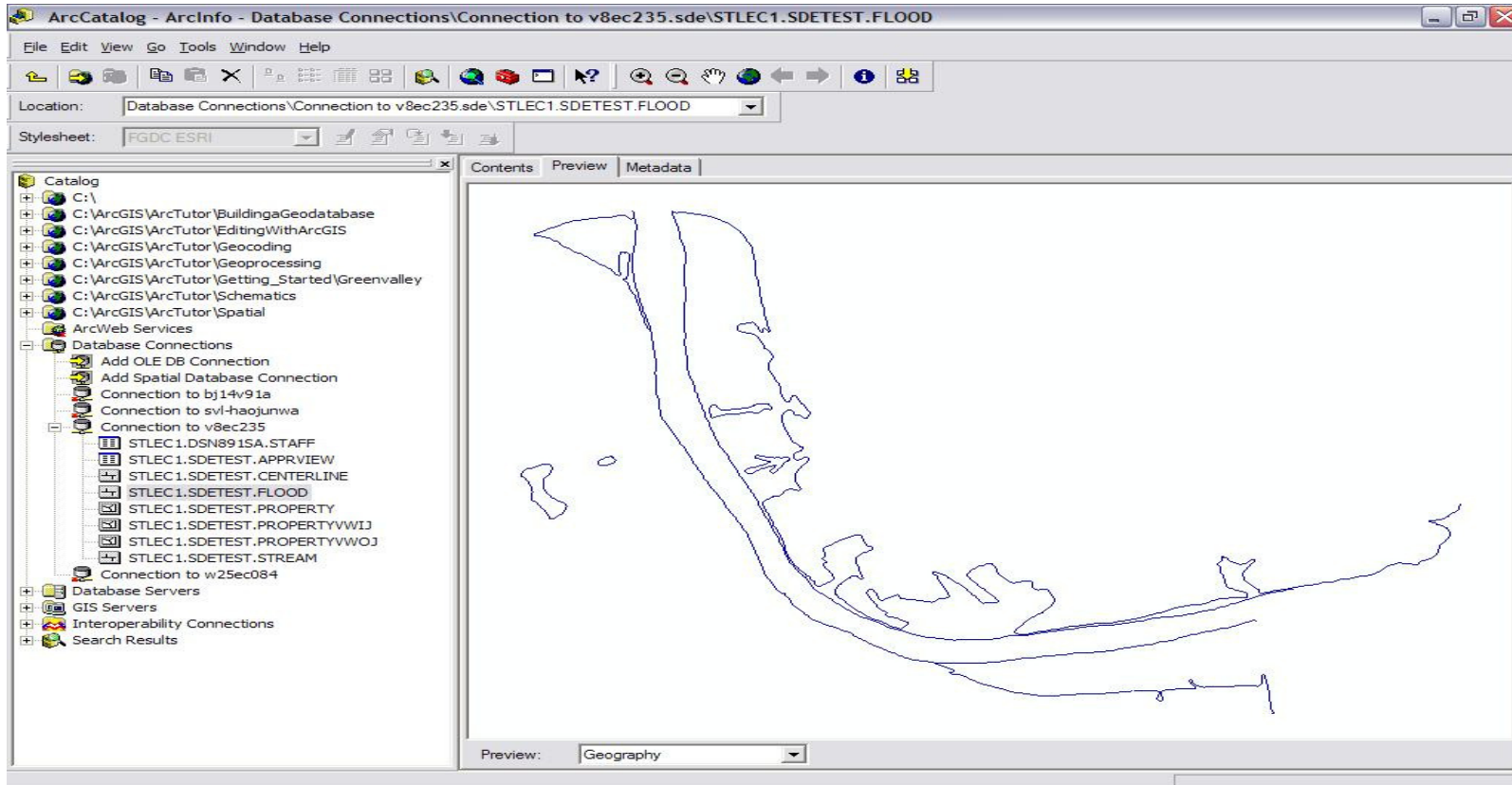
- Can design, prototype, and deploy a scalable and customizable solution
- Can be time consuming to build web based application from scratch
- Take advantage of ESRI's ArcWeb Services for Web-based geocoding
- Loose coupling relationship between DB2 for z/OS spatial database server and spatial application server
- Unlimited usage scenarios

Problem Statement #2:

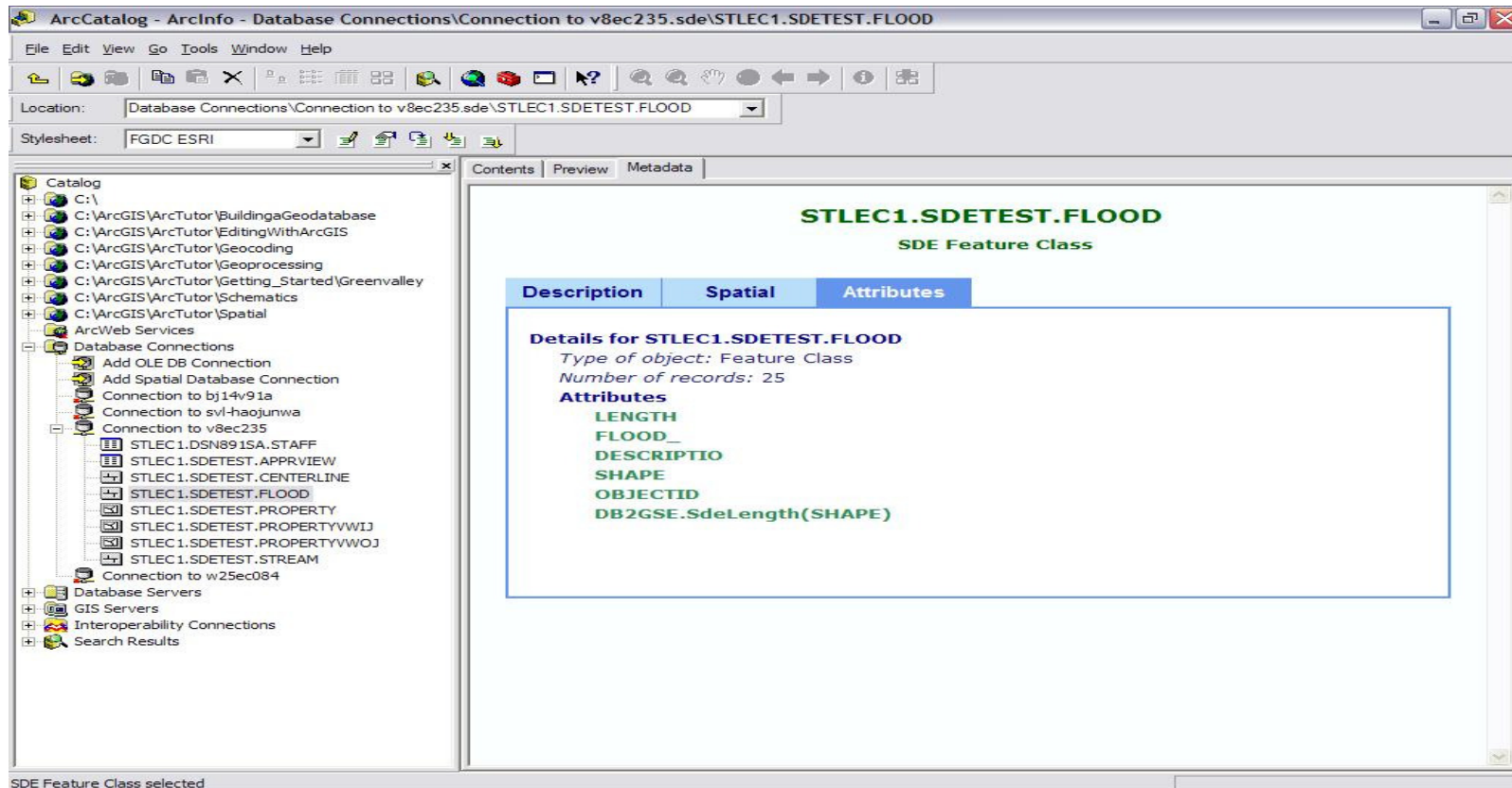
- A city government that maintains the data of the land properties of downtown Nashville needs to develop a GIS application with the following capabilities:
 - Display the maps of properties, rivers and road networks based on existing shape files.
 - Maintain the non-spatial data, such as property owners and property values on the backend database.
 - Provide easy ways to integrate non-spatial data with their spatial properties.
 - Allow users to customize the display of maps for different purposes.
 - Allow users to submit complex spatial queries (within, intersect, contain, etc) without much knowledge of spatial SQL.

Architecture Overview

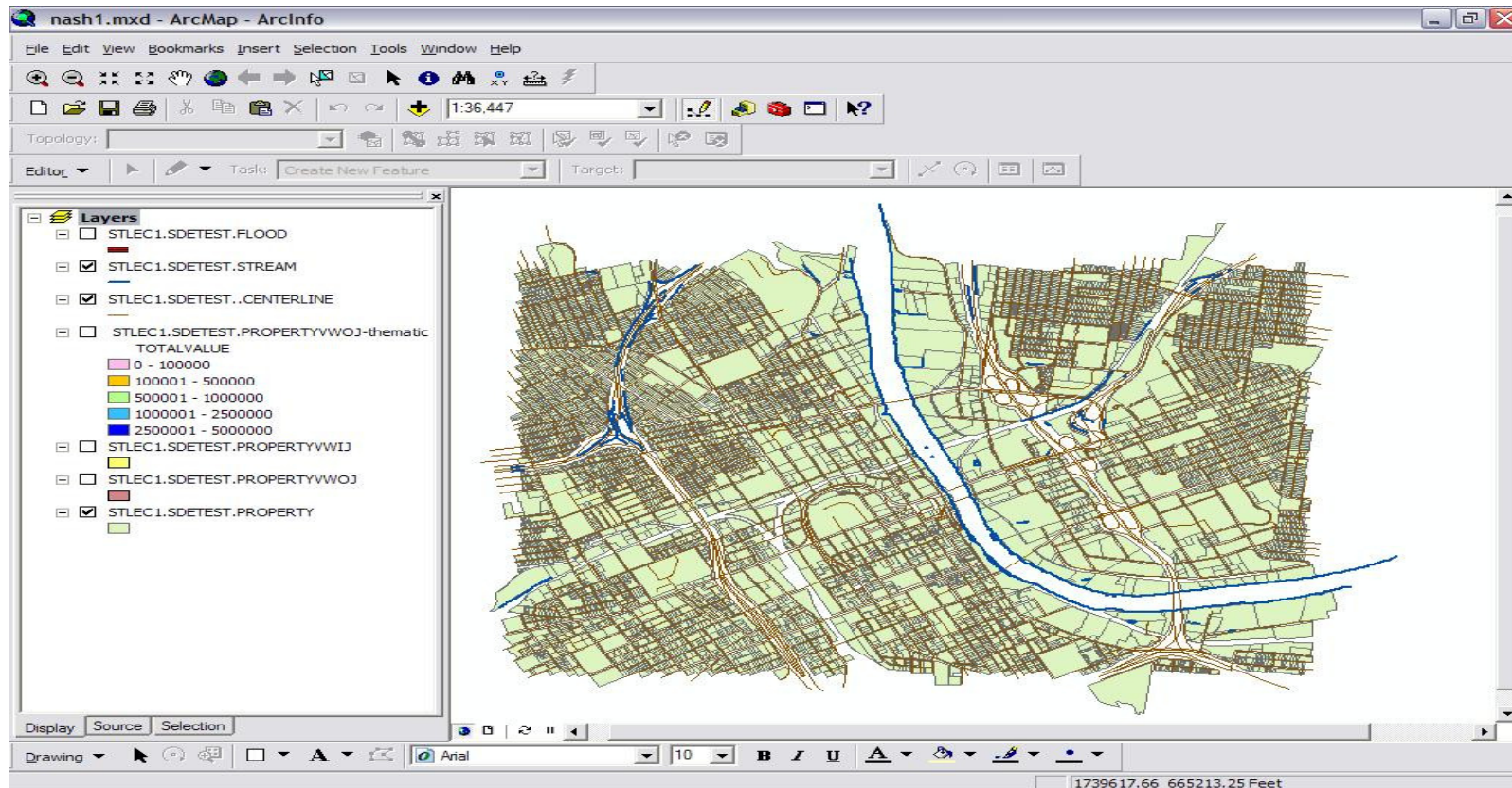




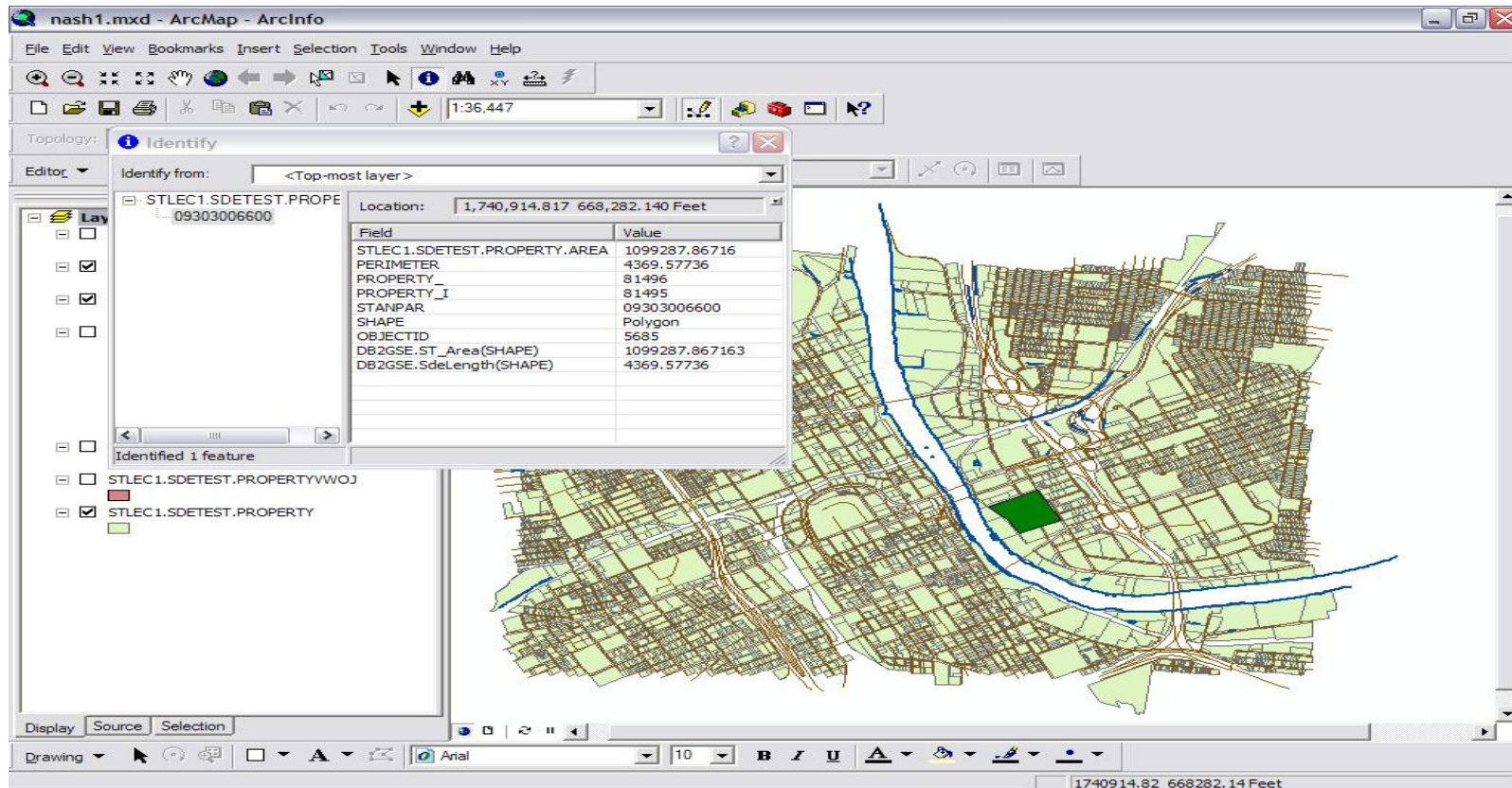
Screen 1 shows ArcCatalog with the preview of flood data set



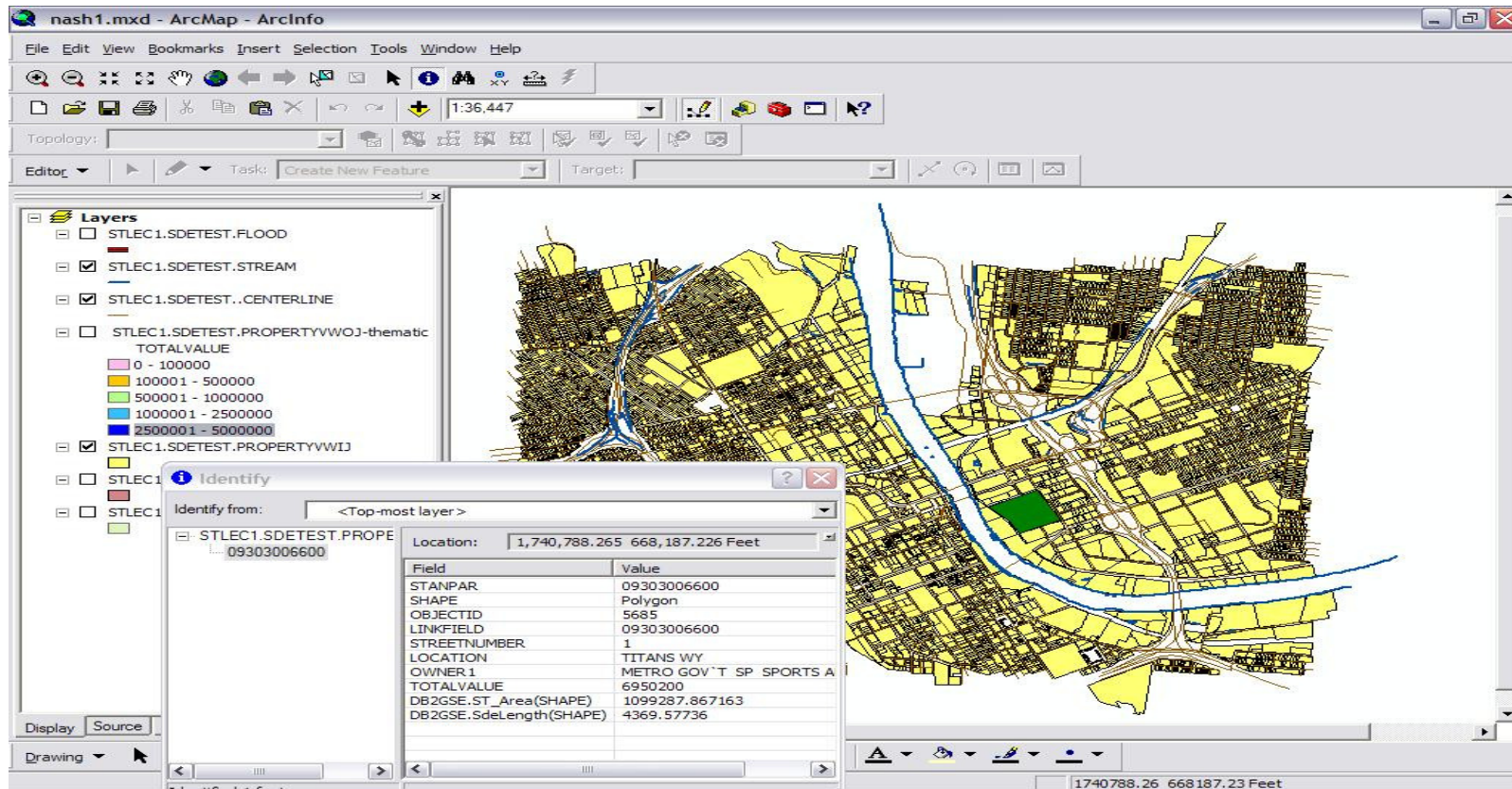
Screen 2 shows ArcCatalog with the metadata view of flood data set



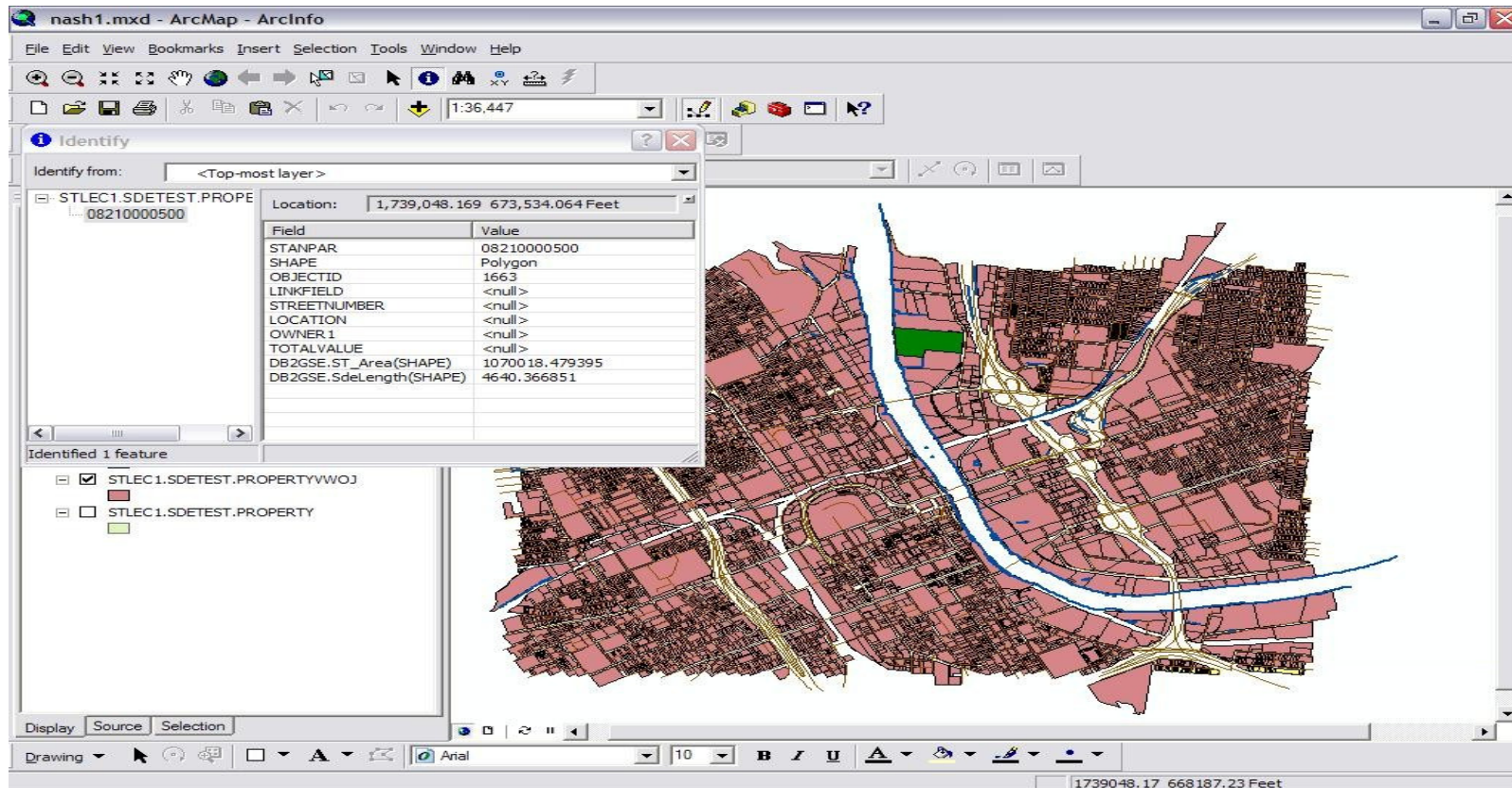
Screen 3 shows ArcMap with the layers of "stream, centerline, and property".



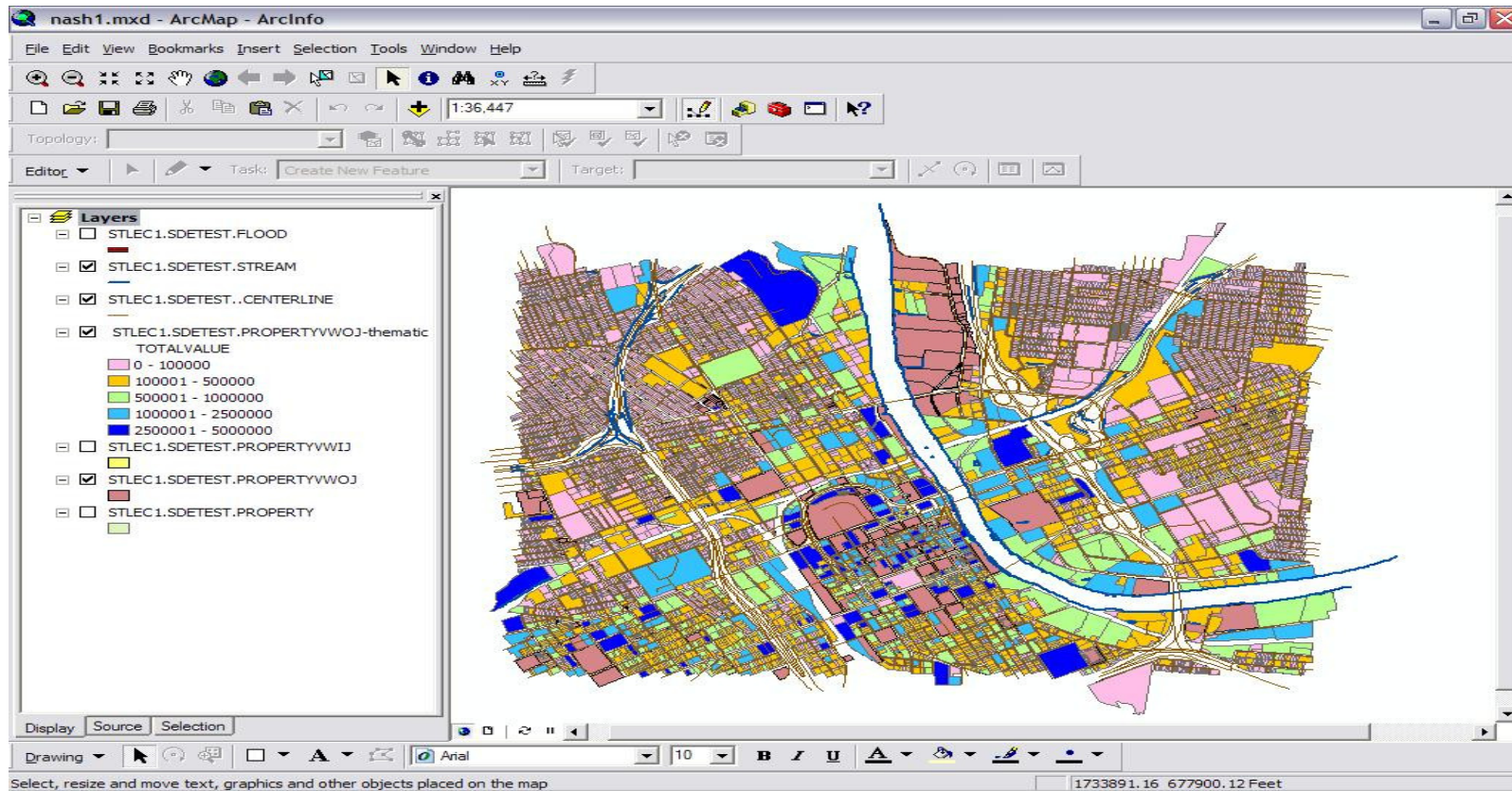
Screen 4 shows ArcMap with an identified property view



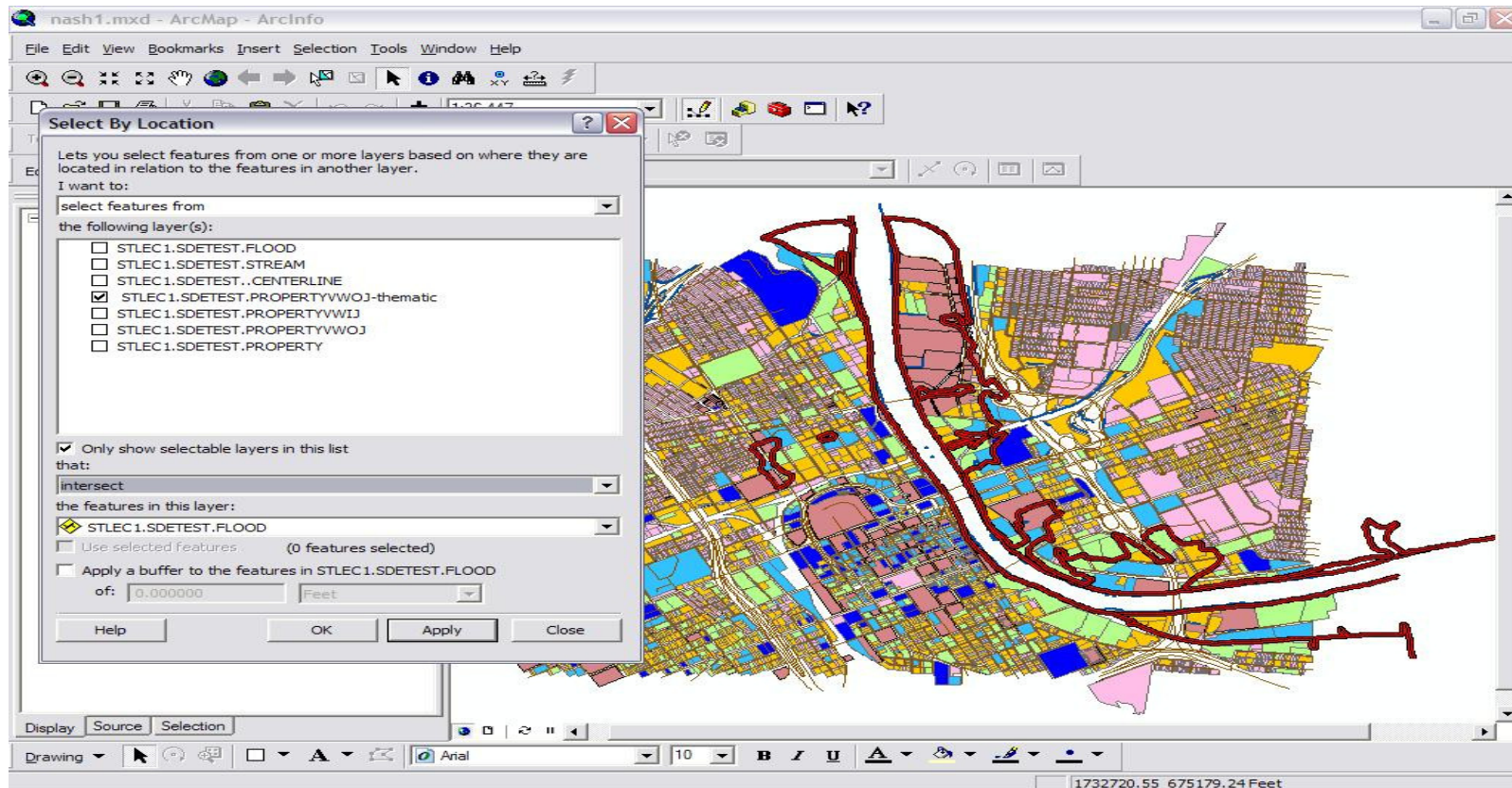
Screen 5 shows ArcMap with an identified inner join view



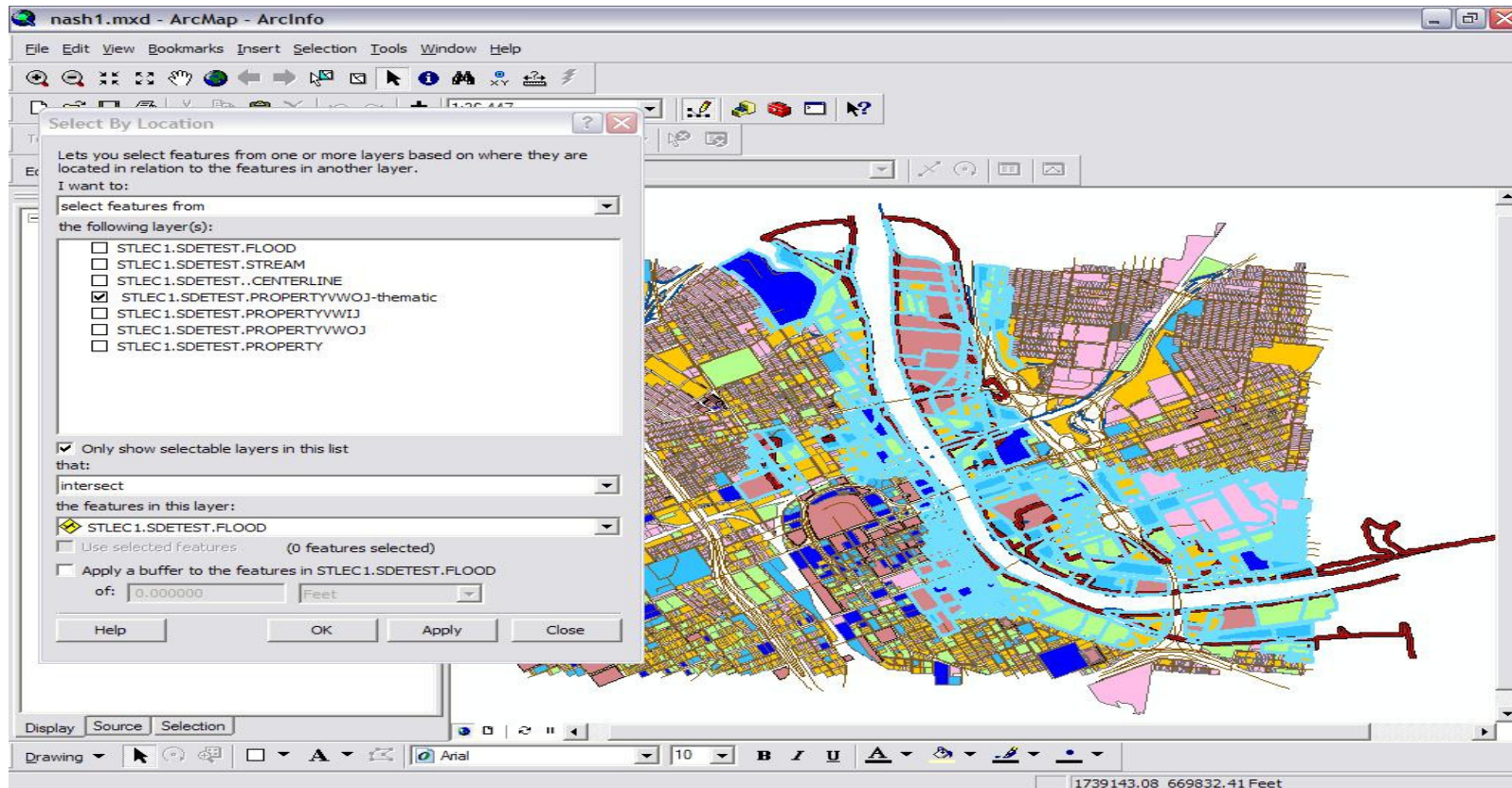
Screen 6 shows ArcMap with an identified outer join view



Screen 7 shows ArcMap with an categorized property view



Screen 8 shows ArcMap with the "select by location" query wizard



Screen 9 shows the query result for "categorized properties intersect flood".

Implementation Summary #2

- Can quickly design and deploy a scalable and customizable enterprise GIS solution using ESRI's ArcGIS 9.3 on DB2 for z/OS
- Loose coupling relationship between DB2 for z/OS spatial database server and ArcGIS application servers + clients
- ArcGIS server can support both intranet and internet web clients
- Unlimited usage scenarios for many industries

Resources for further information

- DB2 9 for z/OS Spatial Support User's Guide and Reference

<http://www-306.ibm.com/software/data/db2/zos/v9books.html>

- ESRI

<http://www.esri.com>

- *DB2 9 for z/OS Information; Download the full recorded version of the insurance demo and the city government demo*

<http://www.ibm.com/software/data/db2/zos-new/>

- Open Geospatial Consortium, Inc.

<http://www.opengeospatial.org>



Agenda

- Why DB2 for z/OS
- Enterprise Spatial Data Solutions with ESRI
 - Location Information
 - Case Studies & Examples
- Spatial Support in DB2 9 for z/OS
 - Features
 - Usage Scenarios
- Q & A

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