



**ESRI**

TM

# Enterprise Solutions by ESRI

*Dave Wrazien*  
*ESRI Inc.*

ESRI Business GeoInfo Summit

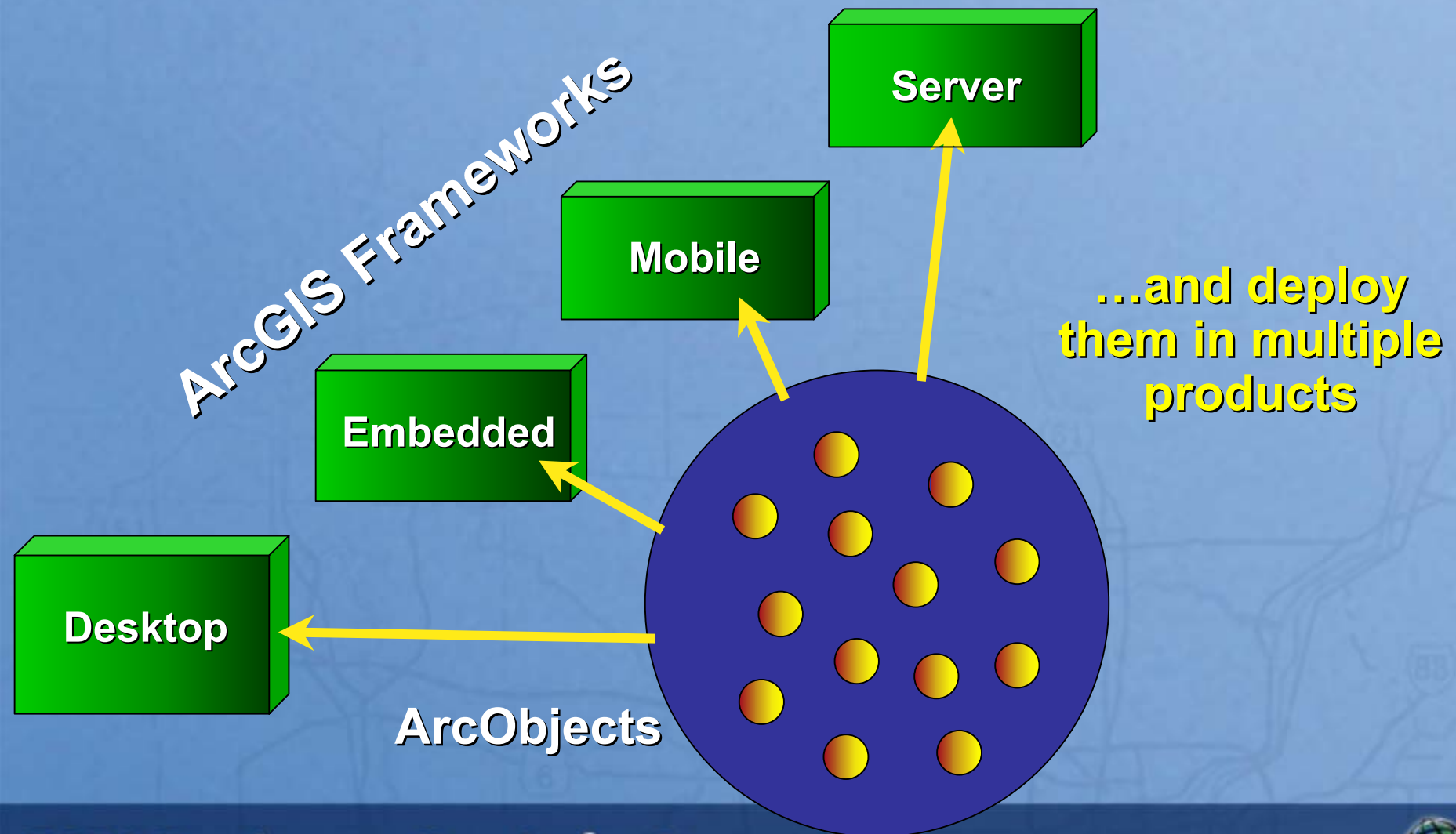


# ESRI Product Vision

- **Single Scalable Architecture**
- **Common Data Model**
- **Multiple Complementary Products**
- **Based on Industry Standards**
- **Continuous Improvement via Incremental Releases**

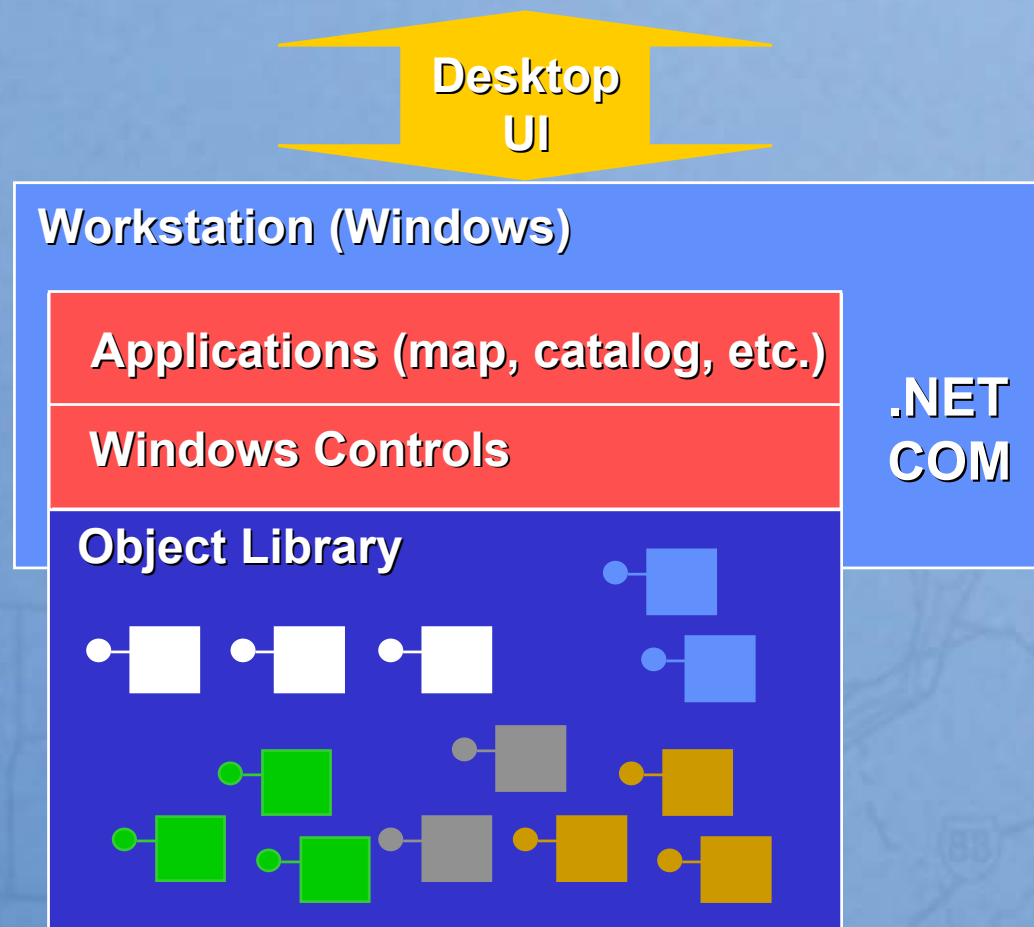
# ESRI Product Strategy

Develop Generic GIS Components . . .



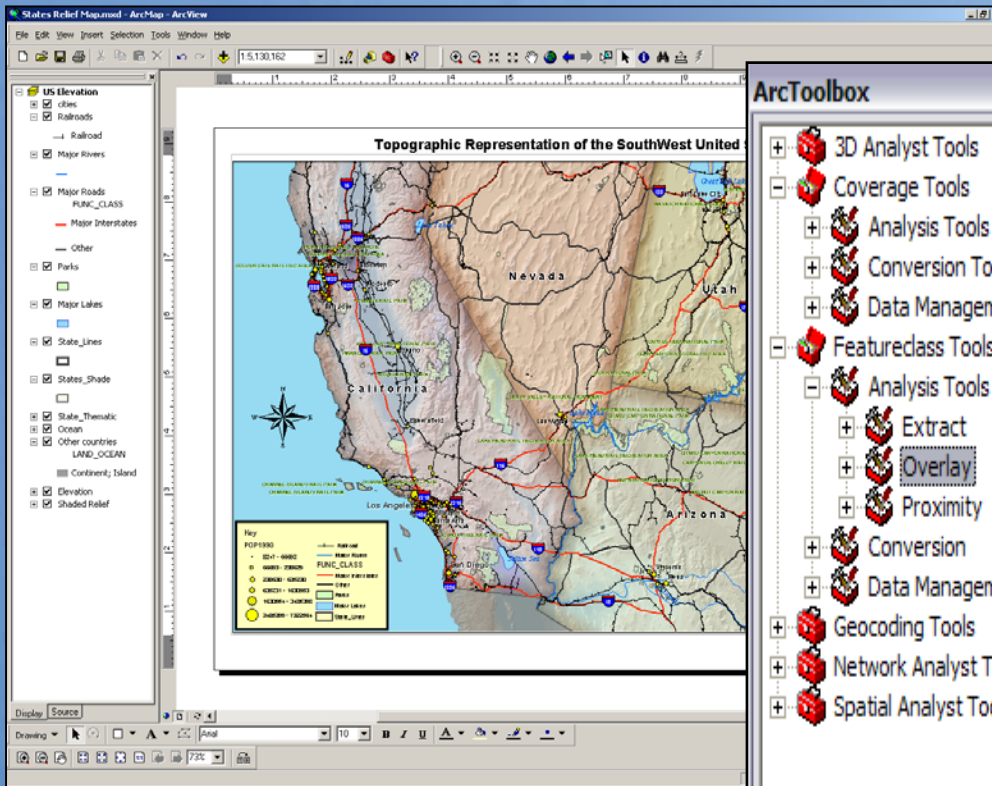
# Desktop GIS

- A suite of Windows desktop applications.
- Customized and extended using COM & .NET interfaces.
- ArcObjects on the desktop.

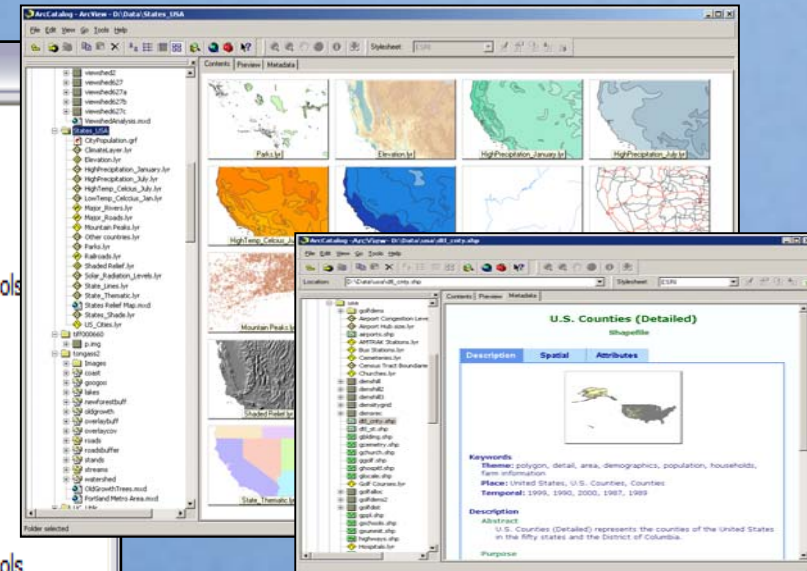


# ArcGIS Desktop Applications

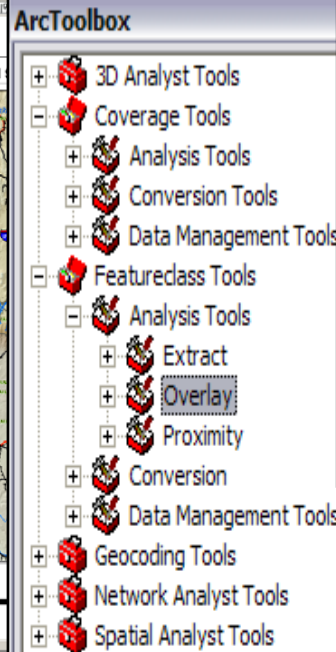
**ArcMap**



**ArcCatalog**



**ArcToolbox**



**Available in...**

**ArcView**  
**ArcEditor**  
**ArcInfo**  
**ArcGIS Business Analyst**

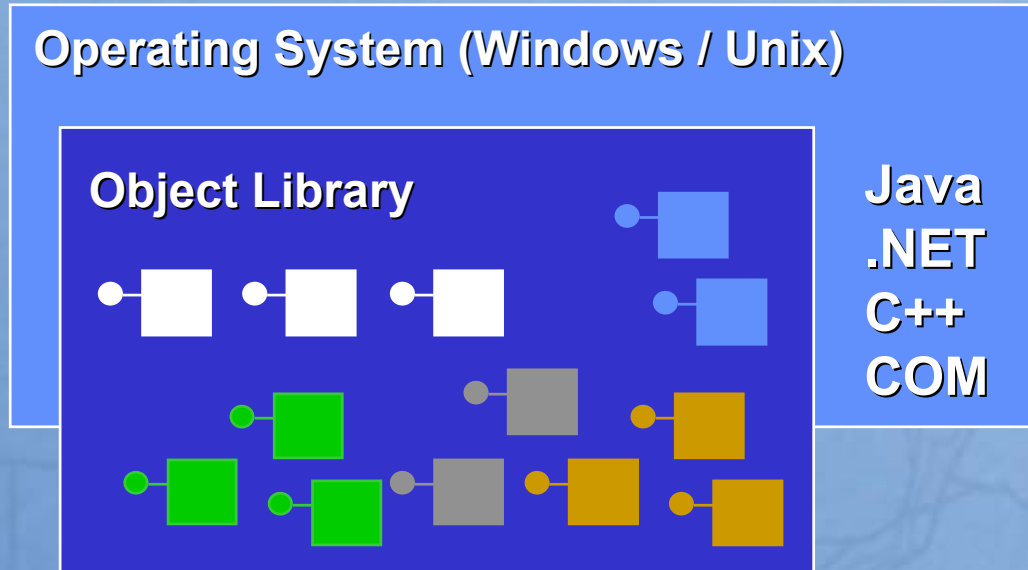
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# Embedded GIS

- Embeddable ArcObjects components (fine and coarse grain objects, controls & tools).
- Cross-platform (Windows, UNIX, and Linux).
- Programmers interact with component object API.



# ArcGIS Engine

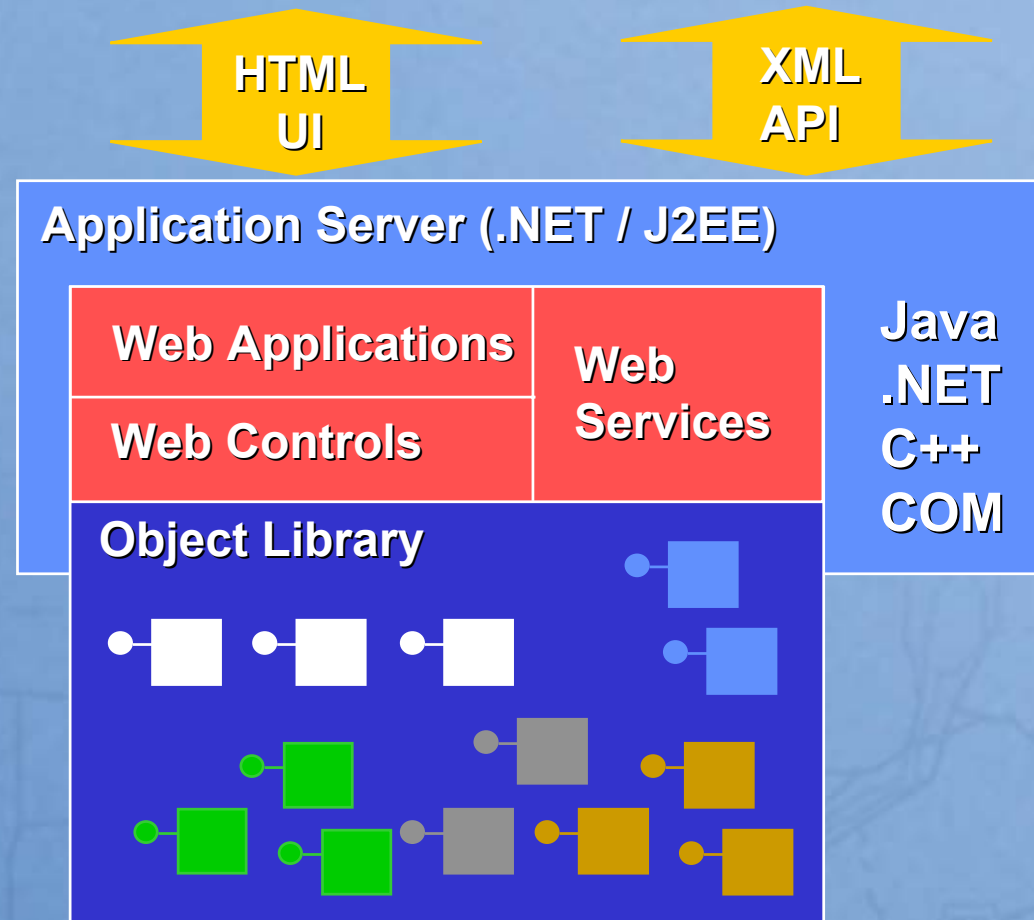
The image displays the ArcGIS Engine development environment, which is a Java-based application running on the Eclipse Platform. The interface is divided into several panels:

- Package Explorer:** Shows the project structure, including the `com.esri.arcgis.samples.beans` package and the `DropFiles.java` file.
- Code Editor:** Displays the `DropFiles.java` source code, which implements the `createLayer` method. The code includes comments and logic for setting the mouse pointer, creating a `LayerFactoryHelper` class, and creating layers from a name.
- Map View:** Shows a map of Washington, DC, with various landmarks and features. The map is titled "Washington, DC" and includes a "Load PMF" button. The map shows the White House, Lincoln Memorial, Washington Monument, and the Capitol. The map is overlaid with a grid of colored lines (Blue, Green, Orange, Red, Yellow) representing different transit lines.
- Object Browser:** Shows the `esriMapControl` object and its members, including `AddLayerFromFile`, `AddShapeFile`, `Appearance`, `BackColor`, `BorderStyle`, and `CausesValidation`.
- Map View (New York City):** A detailed street map of New York City, showing the location of the "ESRI NEW YORK CITY OFFICE" and the "CUCINA BENE" restaurant. The map is titled "Project1 (State)" and includes a "Project1 (State)" button.



# Server GIS

- Centrally managed, server-based ArcObjects.
- Cross-platform (Windows, UNIX, and Linux).
- Strong developer platform (web controls, web application templates, samples and web services.)





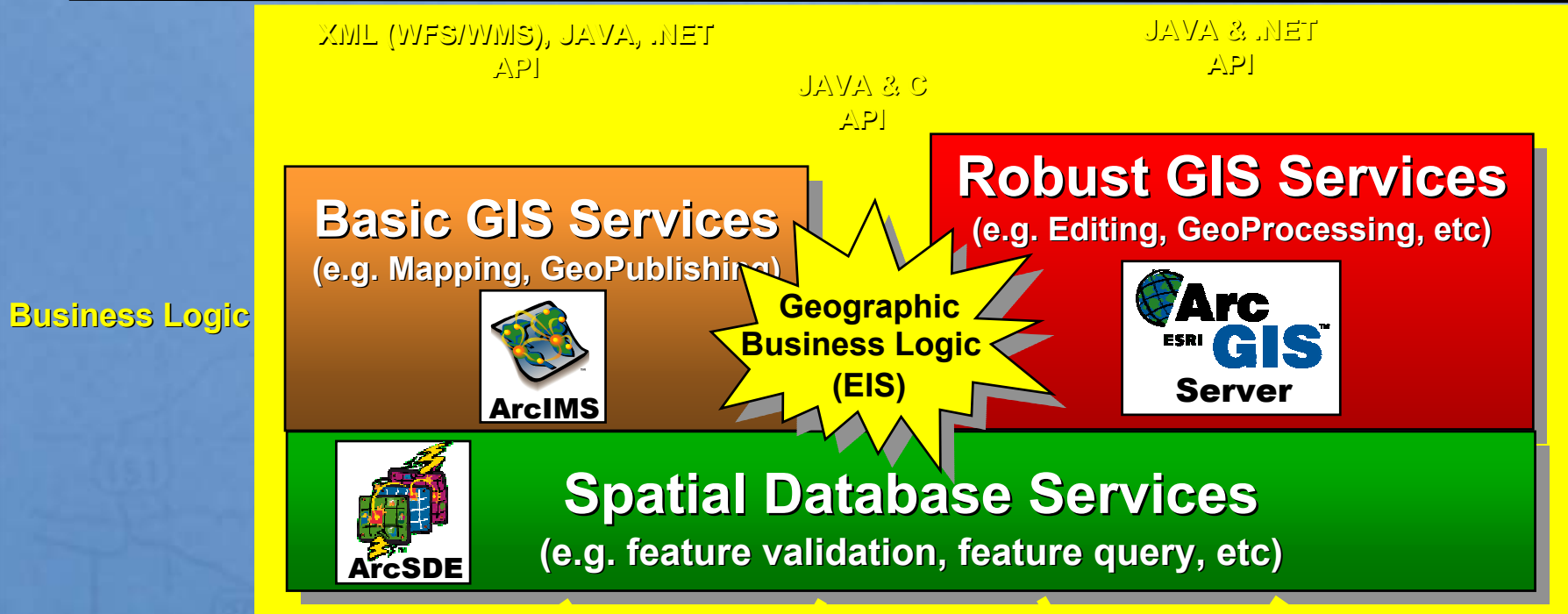
# ESRI Server Products

- **ArcSDE** – application server for storing, managing and using spatial data in a DBMS
- **ArcIMS** – application server for GIS web publishing (Delivering maps, data, and metadata)
- **ArcGIS Server** – application server for advanced GIS functionality (geoprocessing, editing, advanced cartography, etc)

**All work together...**



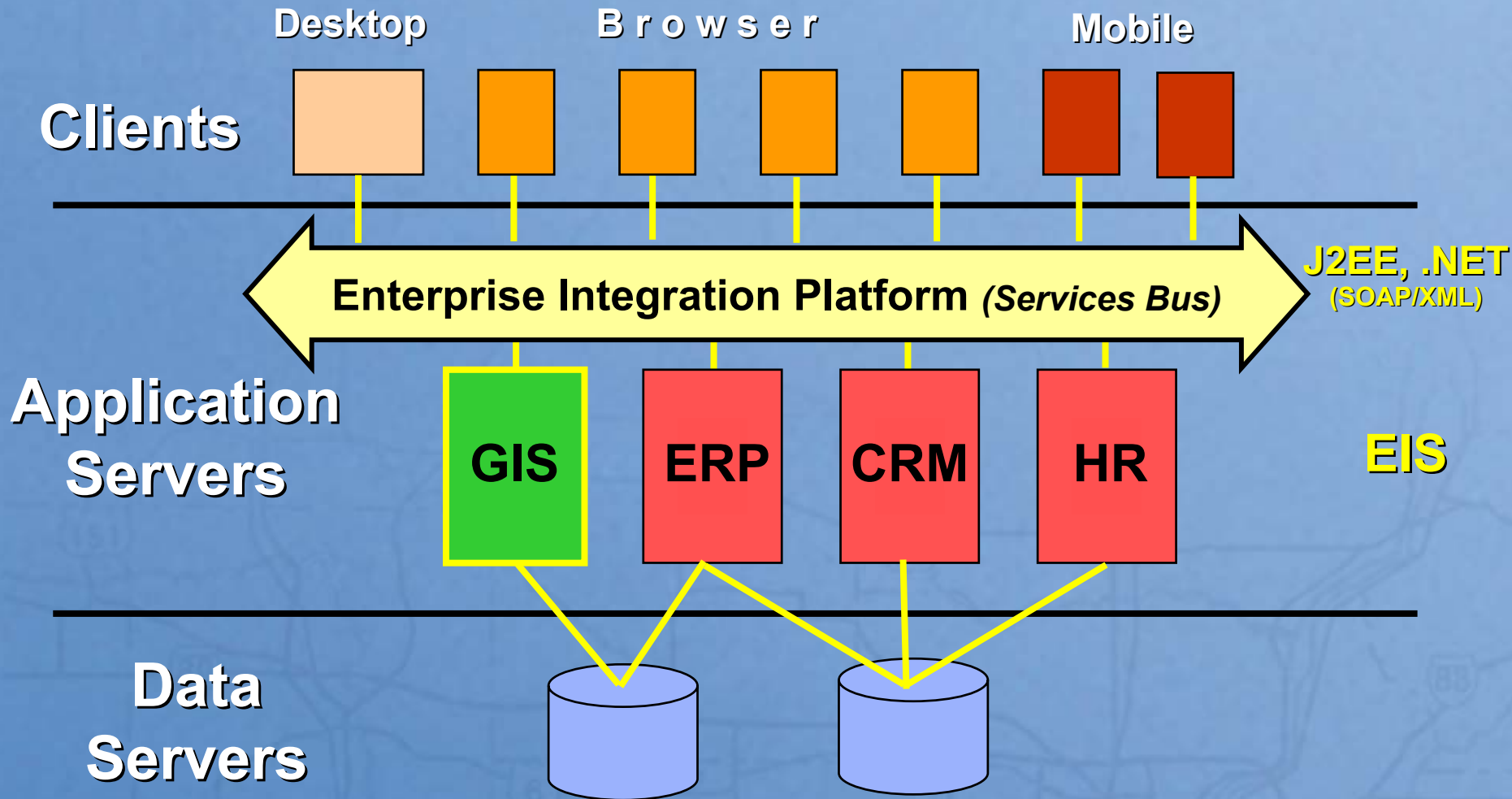
# ESRI = Geographic Business Logic



**Data**

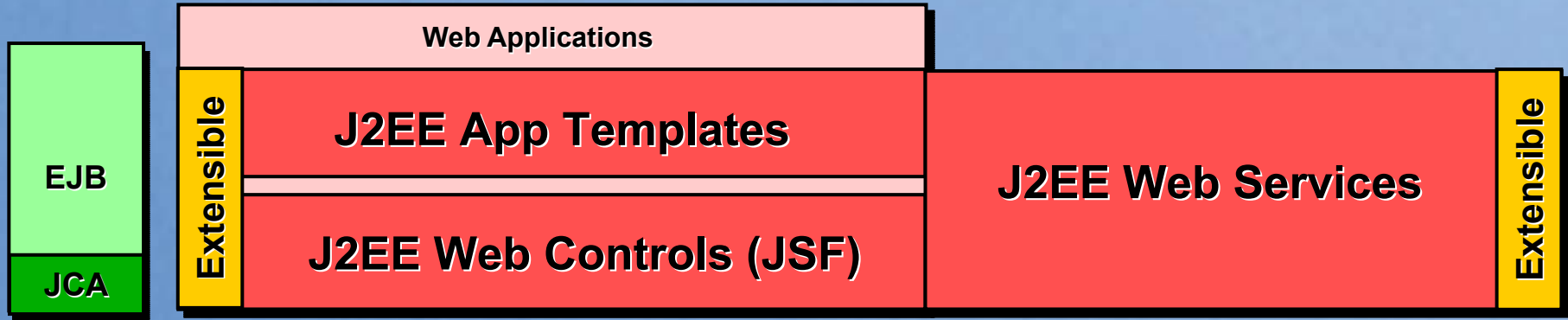


# Enterprise Architectures



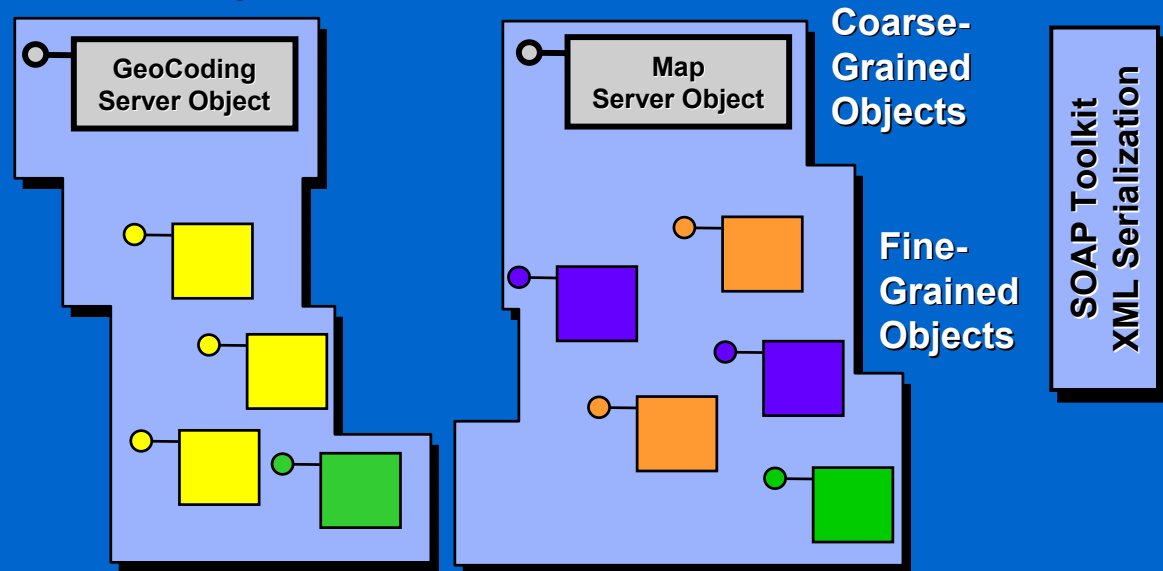
# J2EE Compliancy View

## J2EE Server



## EIS

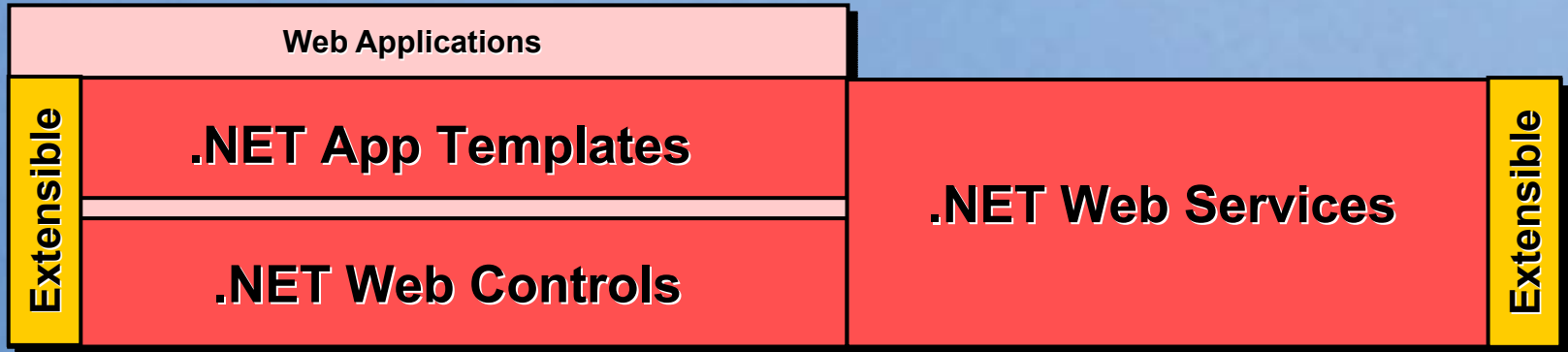
### GIS Server Objects





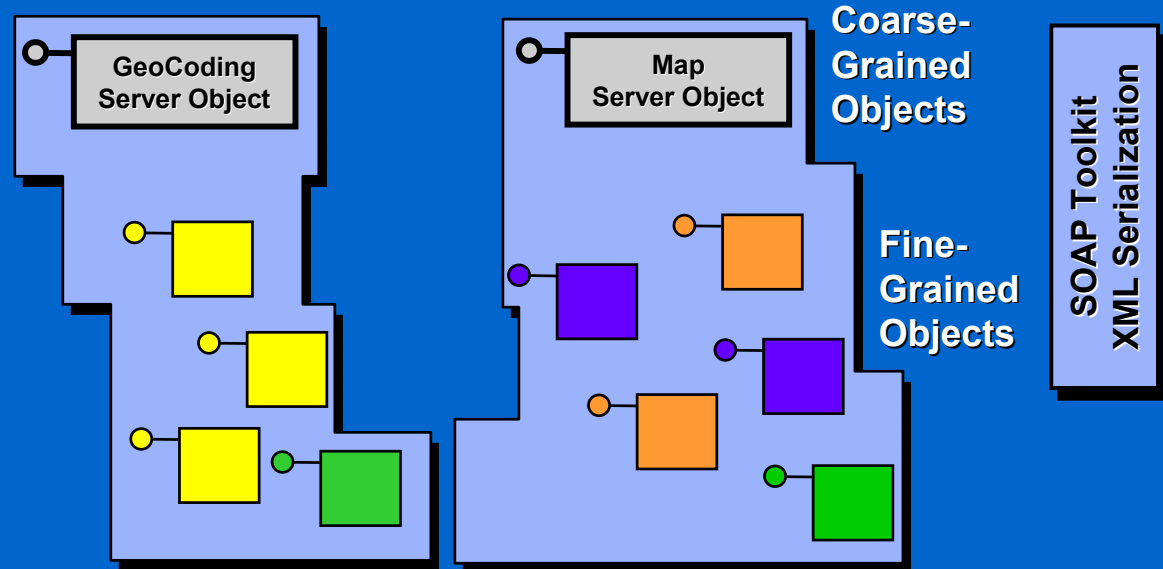
# .NET Compliancy View

## ASP.NET Server



## EIS

### GIS Server Objects



# Enterprise Applications

## Geographically Enable...

- Customer Resource Management (CRM)
- Customer Information System (CIS) Call Center
- Supply Chain Management (SCM) and Logistics
- Human Resources (HR)
- Many others...



# CRM

**Company (Sales) - YORK INTERNATIONAL CORP, PA, YORK**

Company

Customer #  Primary ☐

**Name**


**Dept/Div1**

**Dept/Div2**

**Dept/Div3**


**Phone**


**Fax**  Don't Fax ☐


WWW  

**Cust Group**






Account Management

**Acct. Mgr.**   Override ☐

Region  



Territory  

Contacts | Opportunities | Open Issues | Notes | Leads | Quotes | Bus

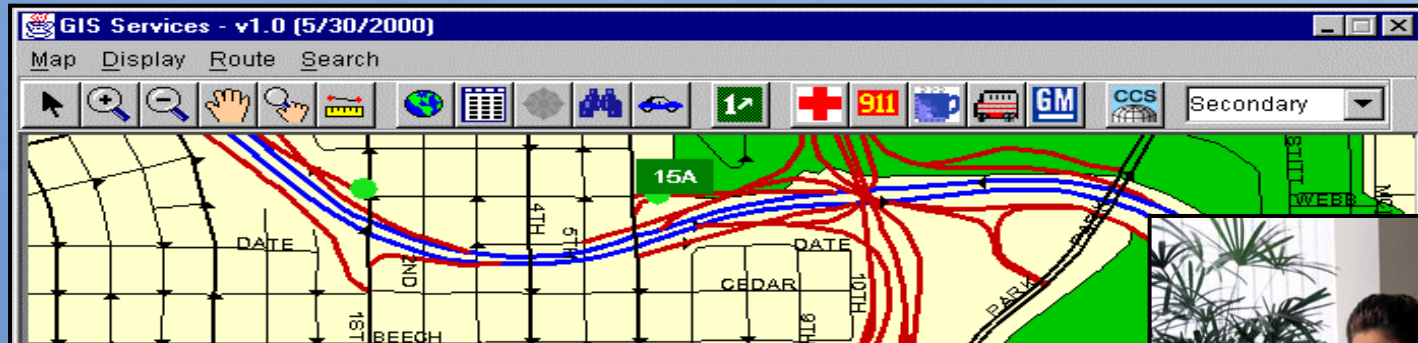
	Primary	First Name	Last Name	Job Title
		Nan	Dixon	GLOBAL WEB
		Stephanie	Jones	MANAGER OF
	<input checked="" type="checkbox"/>	Robert	Wernly	VICE PRESID
		Don	Willemstien	MANAGER CH
		Debra	Russell	MANAGER BU


**Audit**

**Created By:**

<div>   </div>			
Total Number of Steps:		Estimated Driving Distance:	Estimated Driving Time:
14		87 miles	1 hour(s) : 40 minute(s)
Step	Directions	Distance (mi.)	Time (h:m)
1	Depart from ESRI-Philadelphia Go East on W 9th Ave	0.0	0:00
2	Turn left on Moore Rd	0.0	0:00
3	Turn left on State Hwy 23	0.4	0:01
4	Take ramp and go South East on Us Hwy 422	0.7	0:01
5	Go West on I 76 (Pennsylvania Tpke)	41.1	0:45
6	Go South West on Us Hwy 222	16.8	0:19
7	Go West on Us Hwy 30 (Lincoln Hwy)	1.0	0:01
8	Take ramp and go West on State Hwy 283	0.2	0:00
9	Go West on Us Hwy 30 (Lincoln Hwy)	22.5	0:25
10	Turn left on N Sherman St	1.0	0:02
11	Turn right on State Hwy 462 (E Market St)	1.1	0:02
12	Turn left on S Pershing Ave	0.4	0:01
13	Turn right on Kings Mill Rd	1.0	0:02
14	Turn right on S Richland Ave	0.1	0:00

# CLS Call Center - GM




**Routing Assistance**

**Total Distance:** 1.4 mi.  
**Estimated Time:** 2.9 min.

**Routing Directions**  
 from **B St**  
 to **W Harbor Dr**

	Direction	Road Name	Distance
1.	Go left (W)	B ST	0.1 mi.
2.	Go left (S)	10TH AVE	0.4 mi.
3.	Go right (W)	MARKET ST	0.5 mi.
4.	Continue (W)	W MARKET ST	0.1 mi.
5.	Go left (S)	FRONT ST	0.2 mi.
6.	Go left (SE)	W HARBOR DR	0.1 mi.

Source: Primary
 ☒ Display Road Labels



**WHEREVER YOU GO, HERE WE ARE.™**



# HR Planning

**SAP Resource Planning Tool**

Reference Time Zone: EST / Processing Period

Locator Processing Period Assignment Availability

Agency A

Bruce Caldwell

Robin Levine

Robert Marcus

Donna Martin

Marie Tobia

Period

Start Date 09/25/2003 Start Time 12:51:11

End Date 09/25/2003 End Time

Service Rep. 43 Robert Marcus

Corresponding Service Task

Parameter	Value
No. of Assignments	0
Priority	5
Priority Text	Medium
Transaction Type	ZEI2
Transaction Number	393
Item	10
Item Category	ZSRP
Item Status	REL
Item Status	Released
Service Task	Inspection
Requested Start, Time	18:00:00
Requested Start, Date	09/25/2003
Requested End, Time	18:00:00
Requested End, Date	09/25/2003

Regional Emergency Personnel

99102	Luke Dwight
99104	Nancy Raines
99105	Frederick Jenkins
99108	Barton Martin
99110	Ann Nelson
99116	Melissa Close
99117	Nancy Smith
99119	James Gonzalez
99122	Dan Levine
99127	Martin Lester
99129	Deborah Levine
99131	Harold Highsmith
99132	Vince Otto
99133	Joseph Foley
99135	Mark Simes
99141	Philip Adams
99143	Emily Kellerman
99146	Ann Martin
99149	Patricia Procter
99150	George Hein
99154	Steven Belinski
99155	Hannah Wilson
99156	Bob Marcus

Homeland Security Map

Map Legend

- Airports
- Heliports
- Hospitals
- Schools
- HazMat Response Units
- Response Personnel (City)
- Response Personnel (Regional)
- Incident Location
- ALOHA Model
- HPAC Model
- Evacuation Shelters
- Evacuation Routes
- Distribution Warehouses

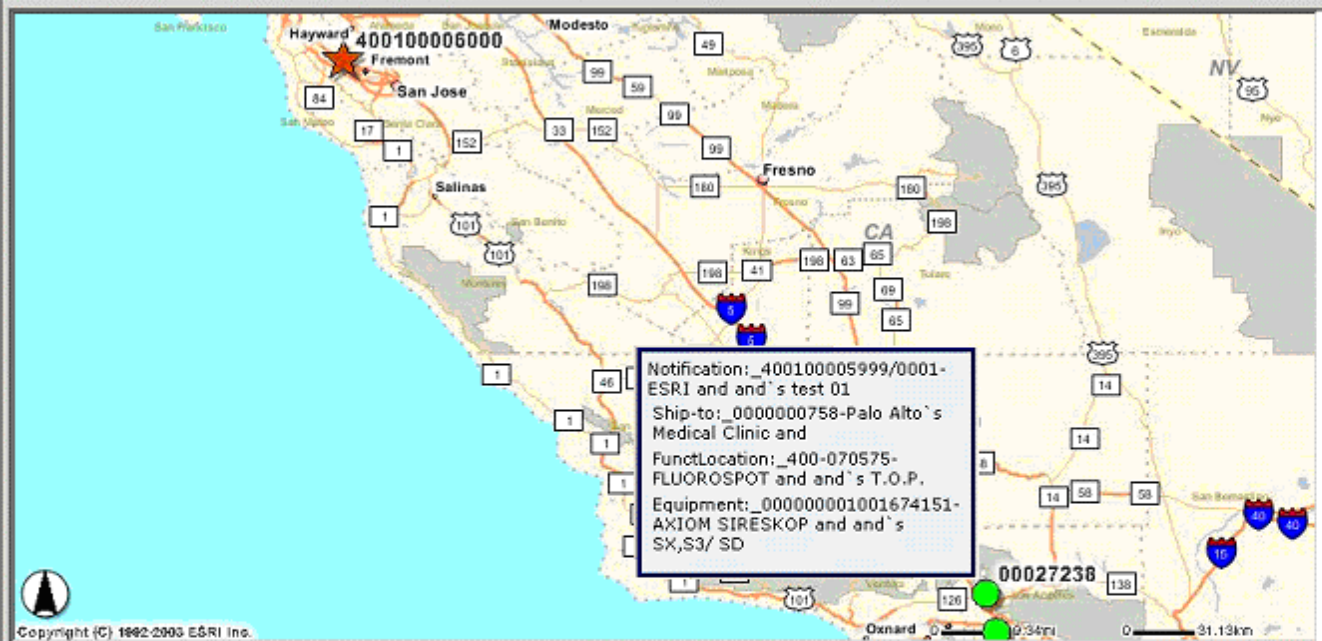
Click on Map to:

- Zoom In
- Zoom Out
- Re-center
- Select: Response Personnel (Regional)

# Technician Routing - Siemens

CSE to FunctLocation Routing Map and CSE Selection

System Help



Notification: \_400100005999/0001-  
ESRI and and's test 01  
Ship-to: \_0000000758-Palo Alto's  
Medical Clinic and  
FunctLocation: \_400-070575-  
FLUOROSPOT and and's T.O.P.  
Equipment: \_000000001001674151-  
AXIOM SIRESKOP and and's  
SX,S3/ SD

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PA	PERNR	NAME	DISTANCE	DRIVE TI	CELL PHONE	TYPE	FL SITE	XGEOCODE
	F027238	Rouben Grigorian	350.2	06:31:19		CSEHN		-118.54010909
	F127238	Rouben & ' test Grigorian	350.2	06:31:19		CSEHN		-118.54010909

D40 [2] (020) sapd40 DVR 16:52

# Some of our Customer's Savings

- GM OnStar
- Schindler Elevator
- Sempra Energy
- Sears Home Delivery
- Siemens Medical
- AAA
- Miller Brewing Company
- SBC Telecommunications
- Quest Communications
- Allstate Insurance
- *Courier Companies, Fast Food Vendors, Major Retailers, Government Agencies, Utilities, Municipalities, Others...*

- Annual Savings: 1+ M
- Mileage Reduction: \$2 M/yr
- Productivity Increase: 9%
- Mileage Reduction: 5%
- Overtime Reduction: 23%
- On-time performance increase: 19%
- Facility Consolidation 48 to 6
- Annual Savings: \$30+ M
- Mileage Reduction: 11%
- Mileage Reduction 13%
- Annual Savings: \$50 M
- Productivity Increase: 14%
- Reduction in Routes: 30%
- Reduction in Vehicles: 25%
- Annual Savings: \$4 M
- Reduction in Routes 33%

# Summary

- ESRI provides a **generic platform** or information system for dealing with geographical information and processes.
- ESRI offers a single **scalable architecture** with multiple complimentary products based on **industry standards** for both end users and developers.



# Questions