Enterprise Solutions by ESRI

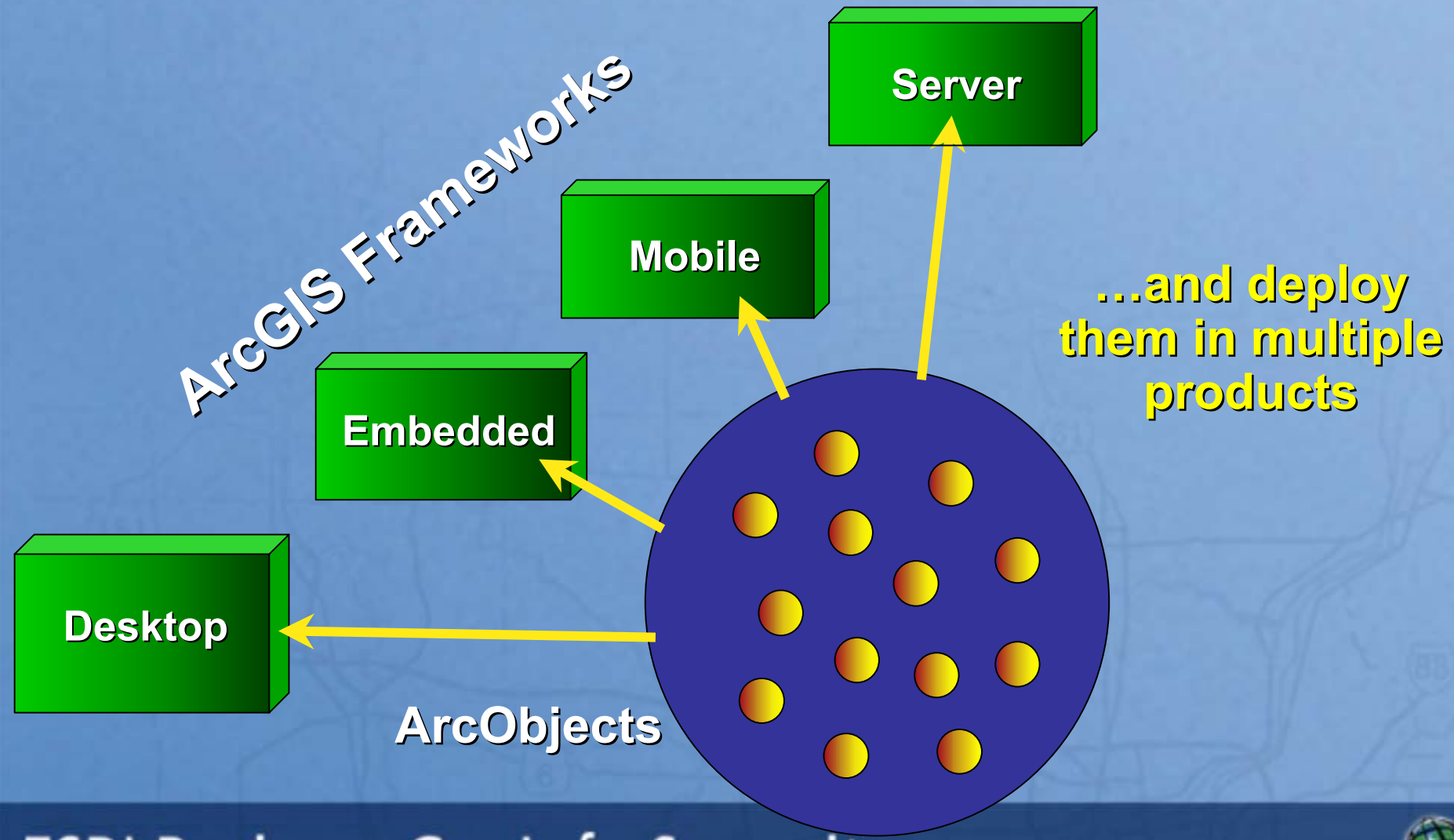
Dave Wrazien
ESRI Inc.

ESRI Product Vision

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

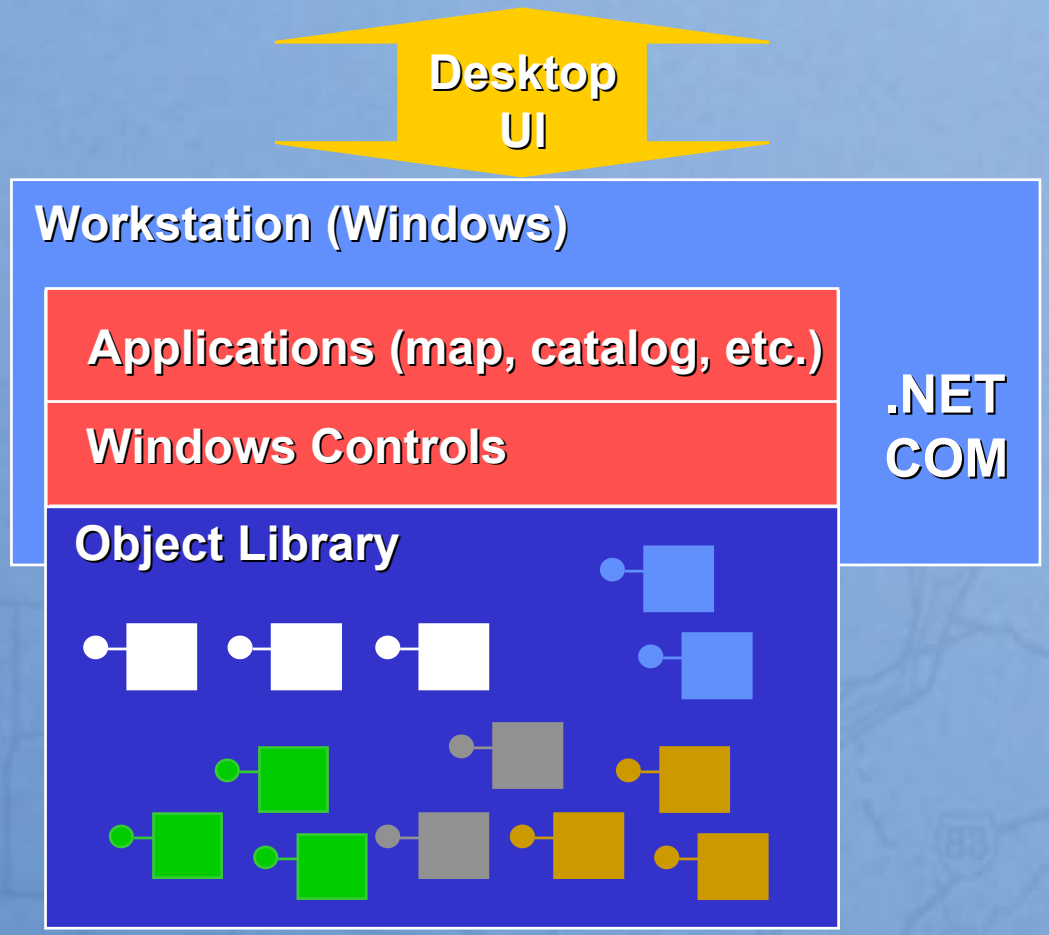
ESRI Product Strategy

Develop Generic GIS Components . . .



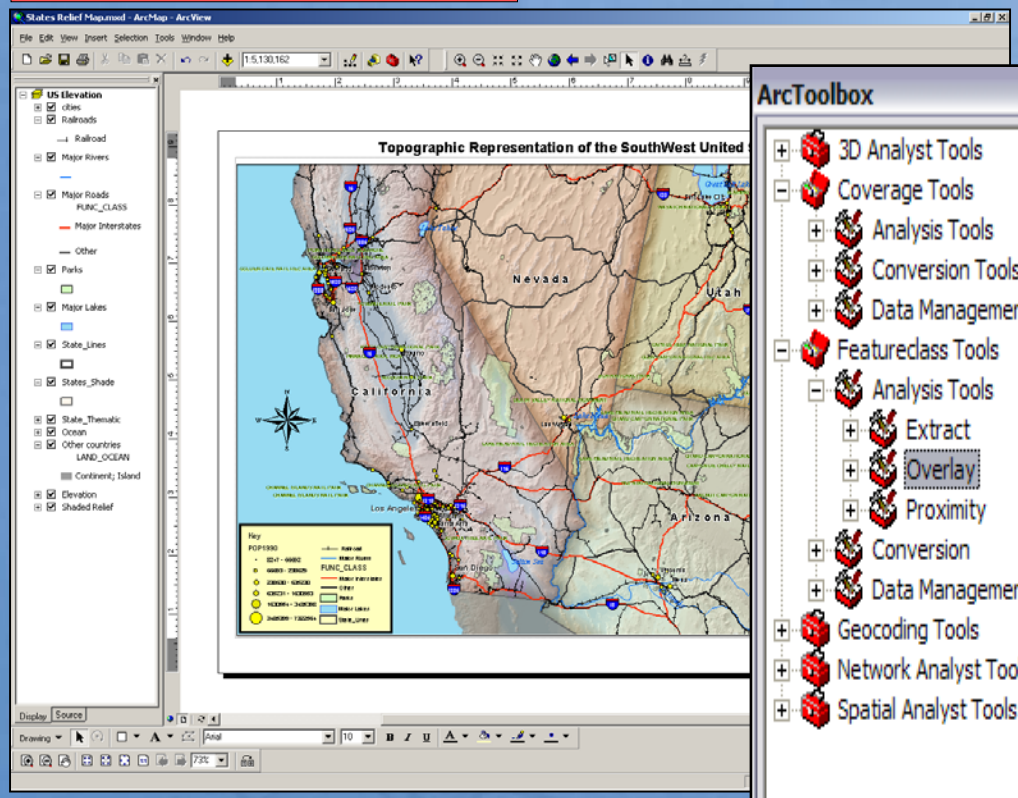
Desktop GIS

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

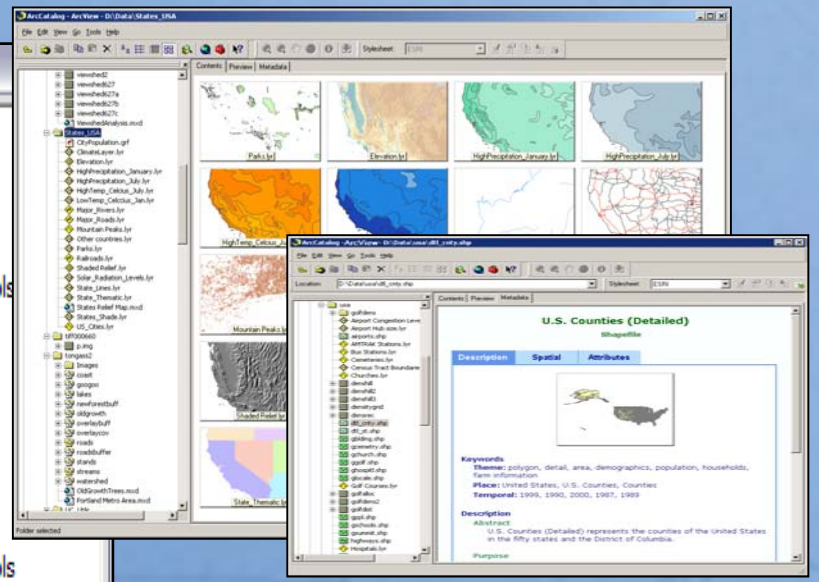


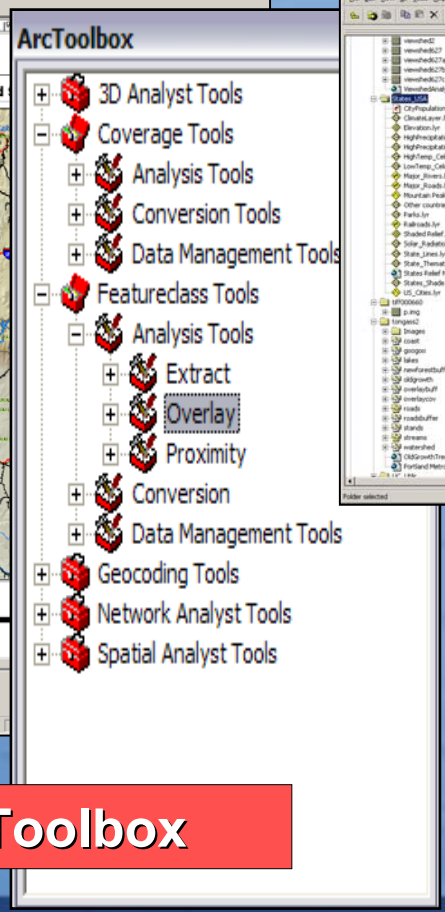
ArcGIS Desktop Applications

ArcMap



ArcCatalog





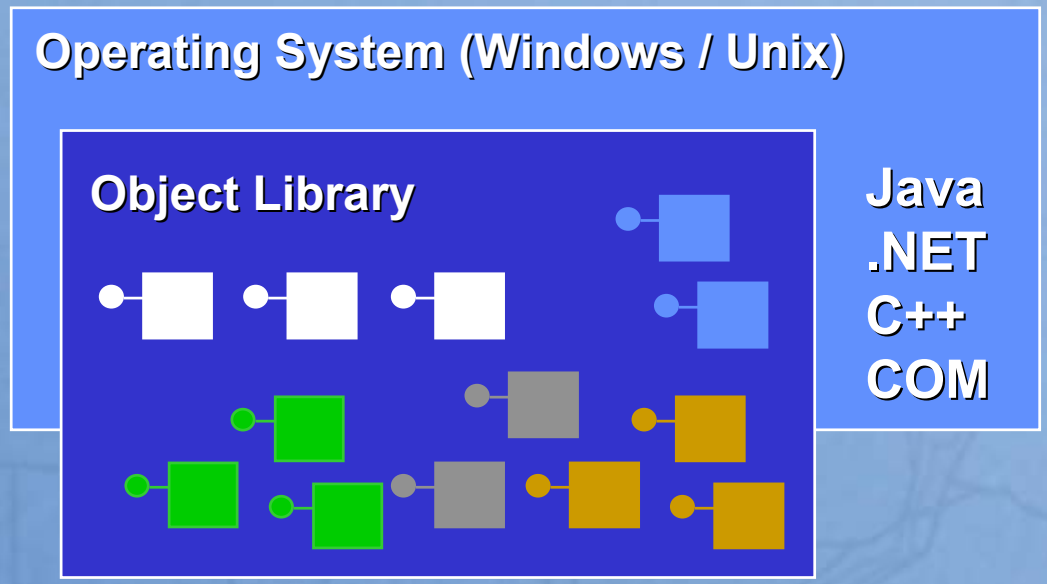
ArcToolbox

Available in…

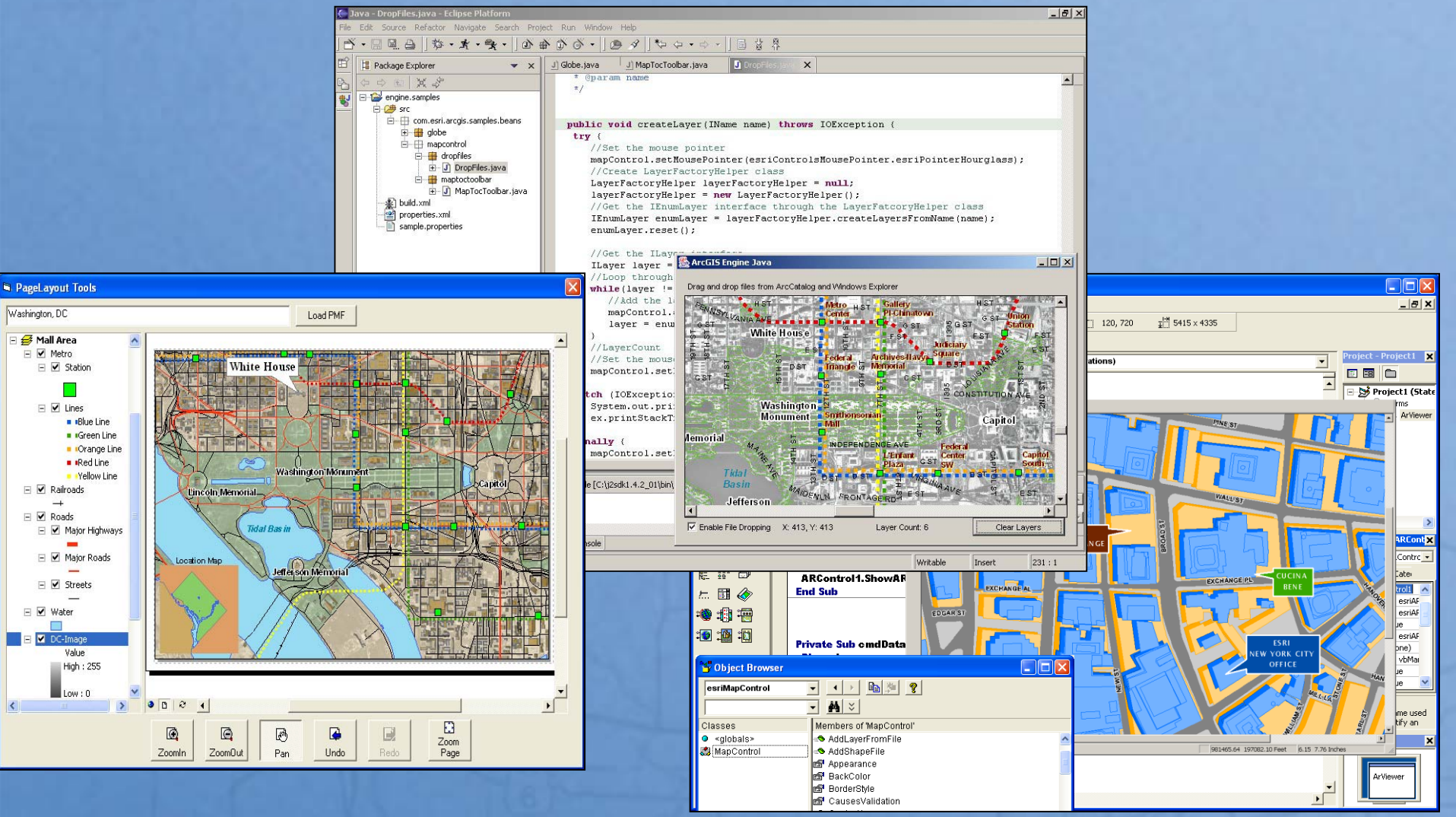
- ArcView
- ArcEditor
- ArcInfo
- ArcGIS Business Analyst

Embedded GIS

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

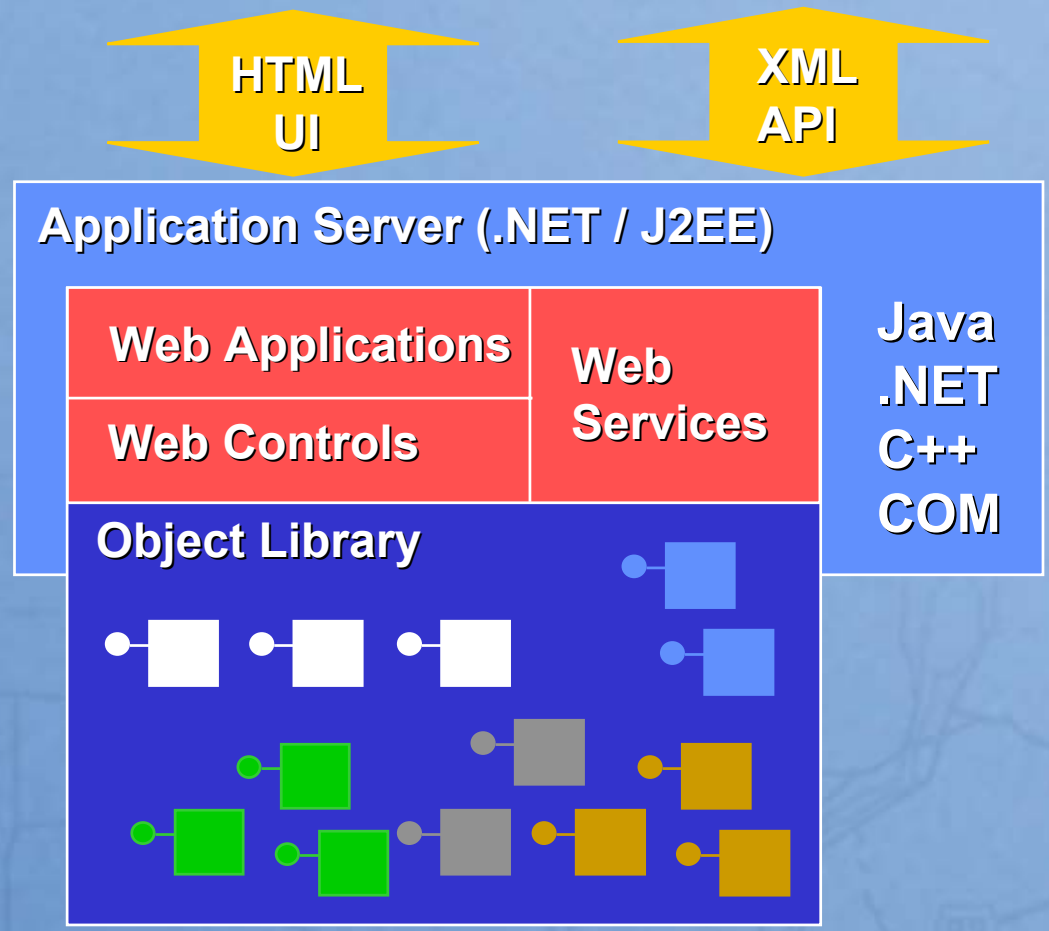


ArcGIS Engine



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.)

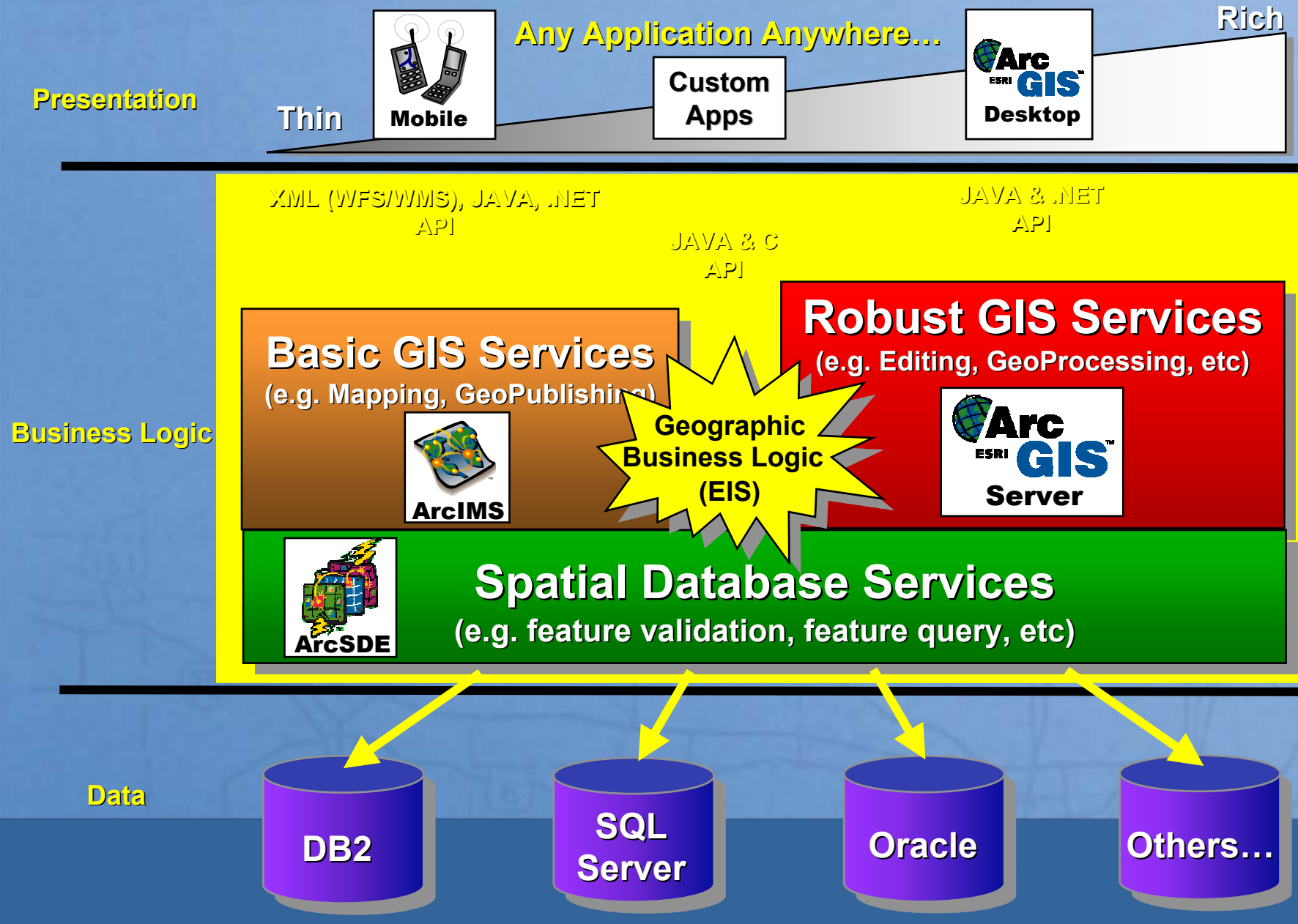


ESRI Server Products

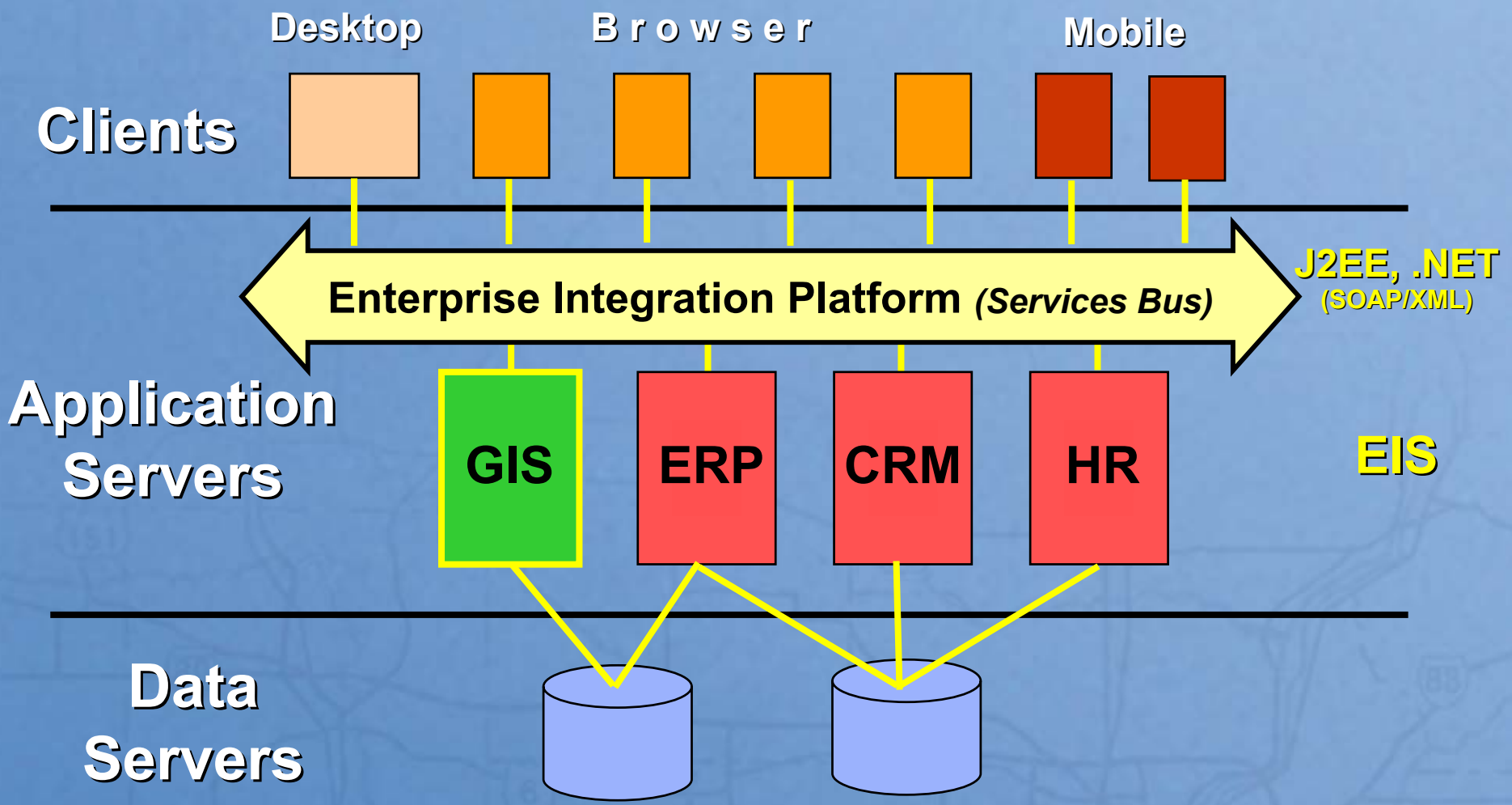
- **ArcSDE** – application server for storing, managing and using spatial data in a DBMS
- **ArcIMS** – application server for GIS web publishing (Delivering maps, data, and metadata)
- **ArcGIS Server** – application server for advanced GIS functionality (geoprocessing, editing, advanced cartography,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

All work together…

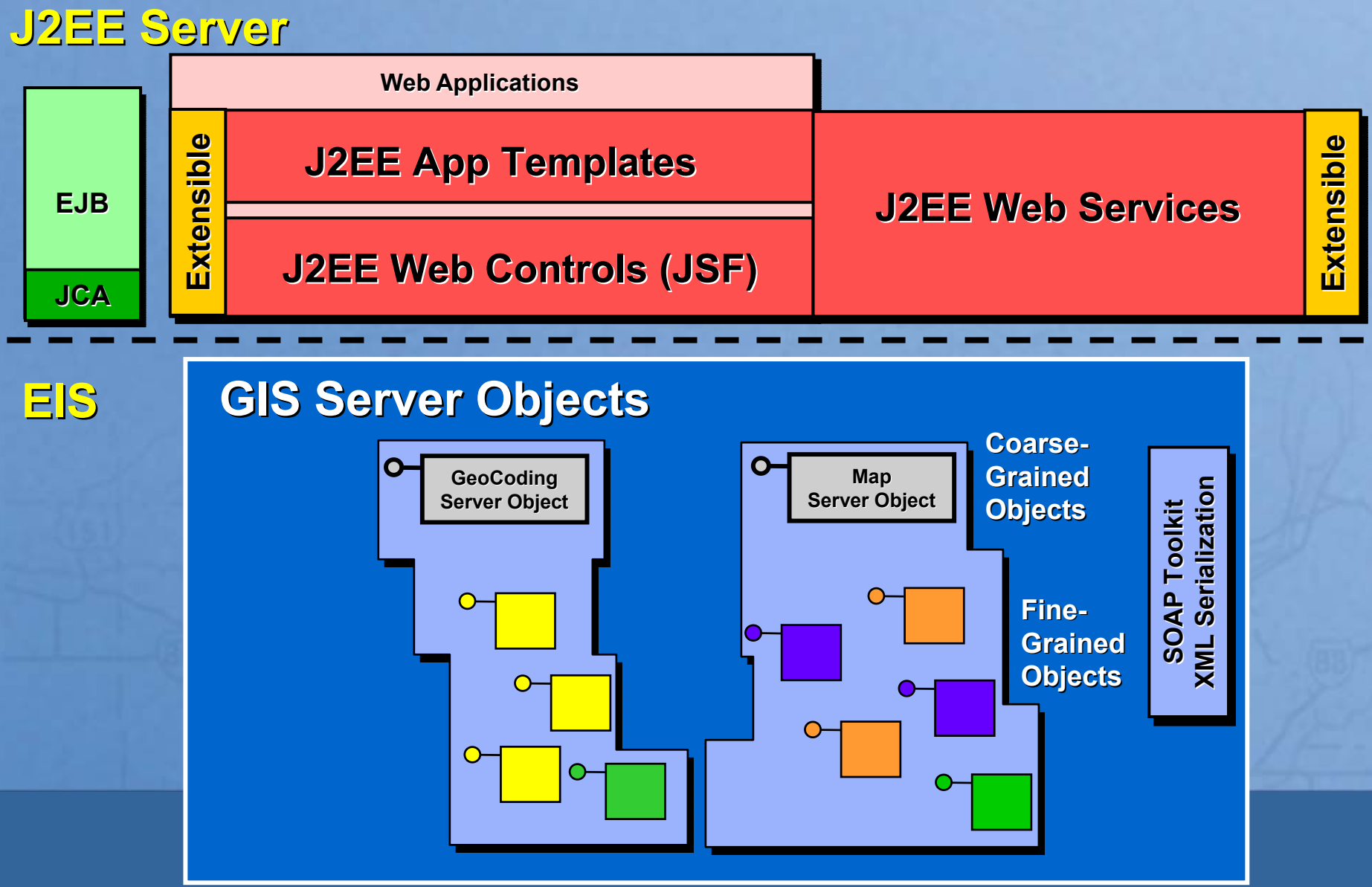
ESRI = Geographic Business Logic



Enterprise Architectures

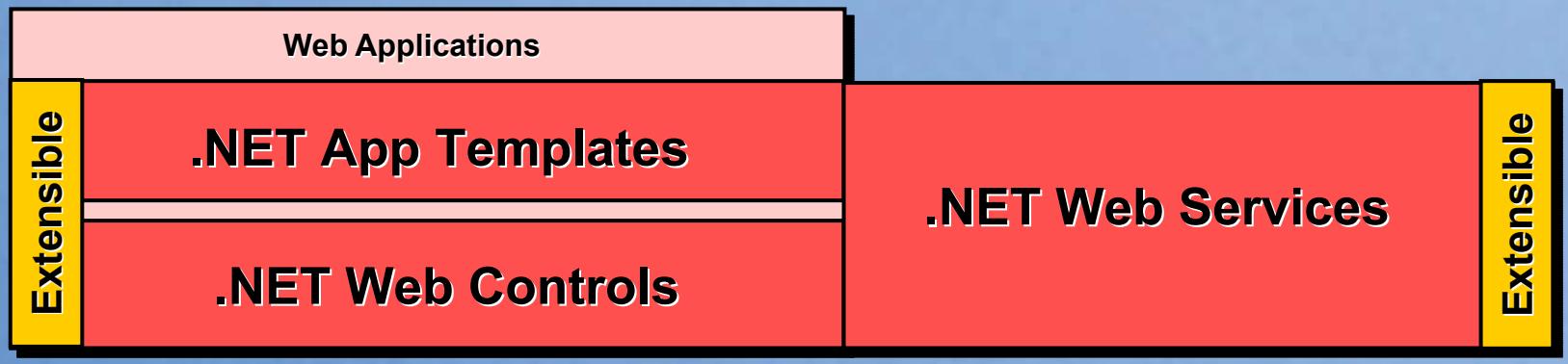


J2EE Compliancy View

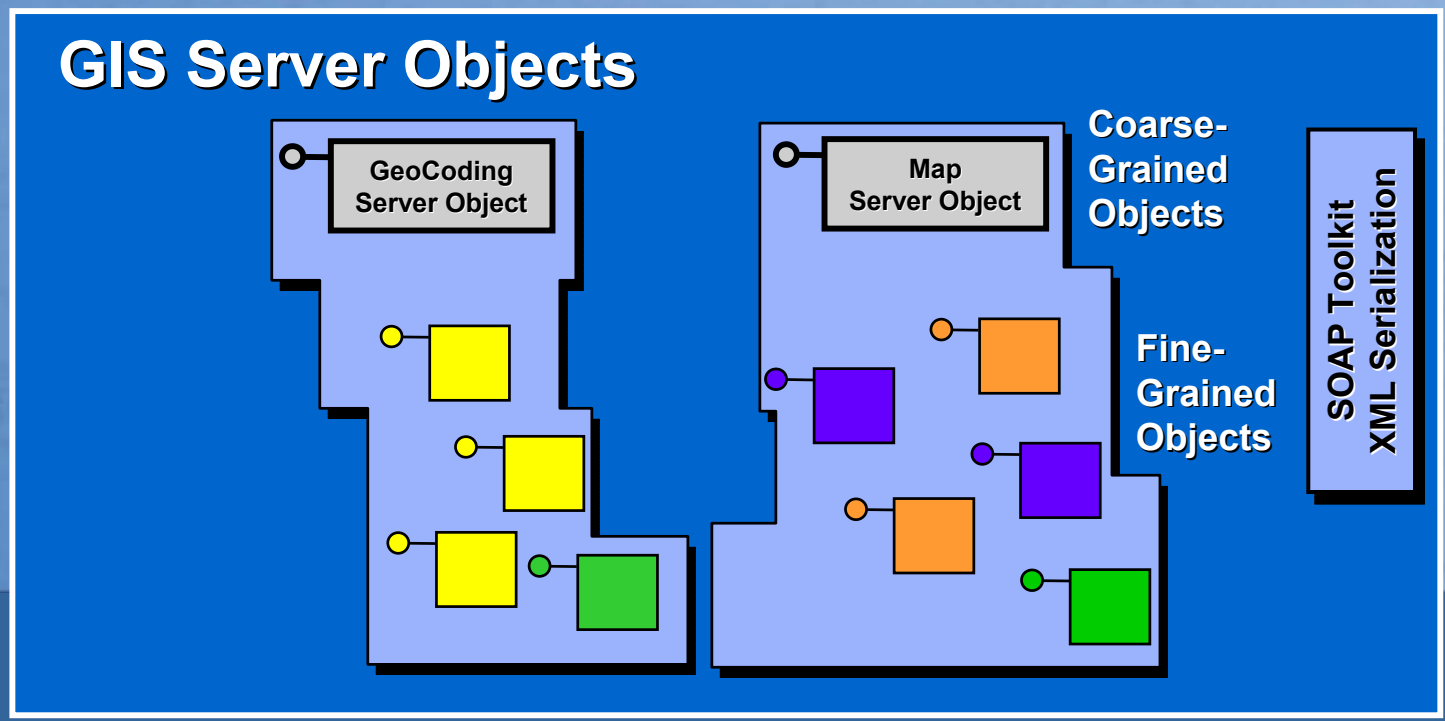


.NET Compliancy View

ASP.NET Server



EIS

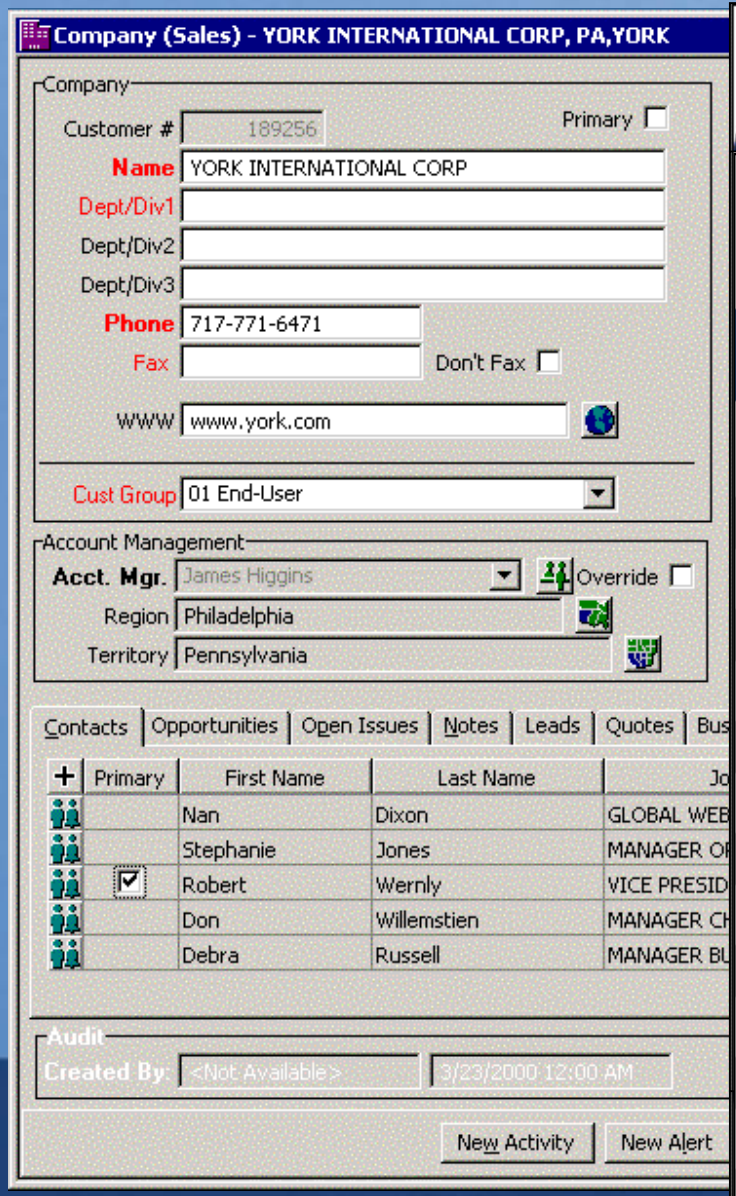


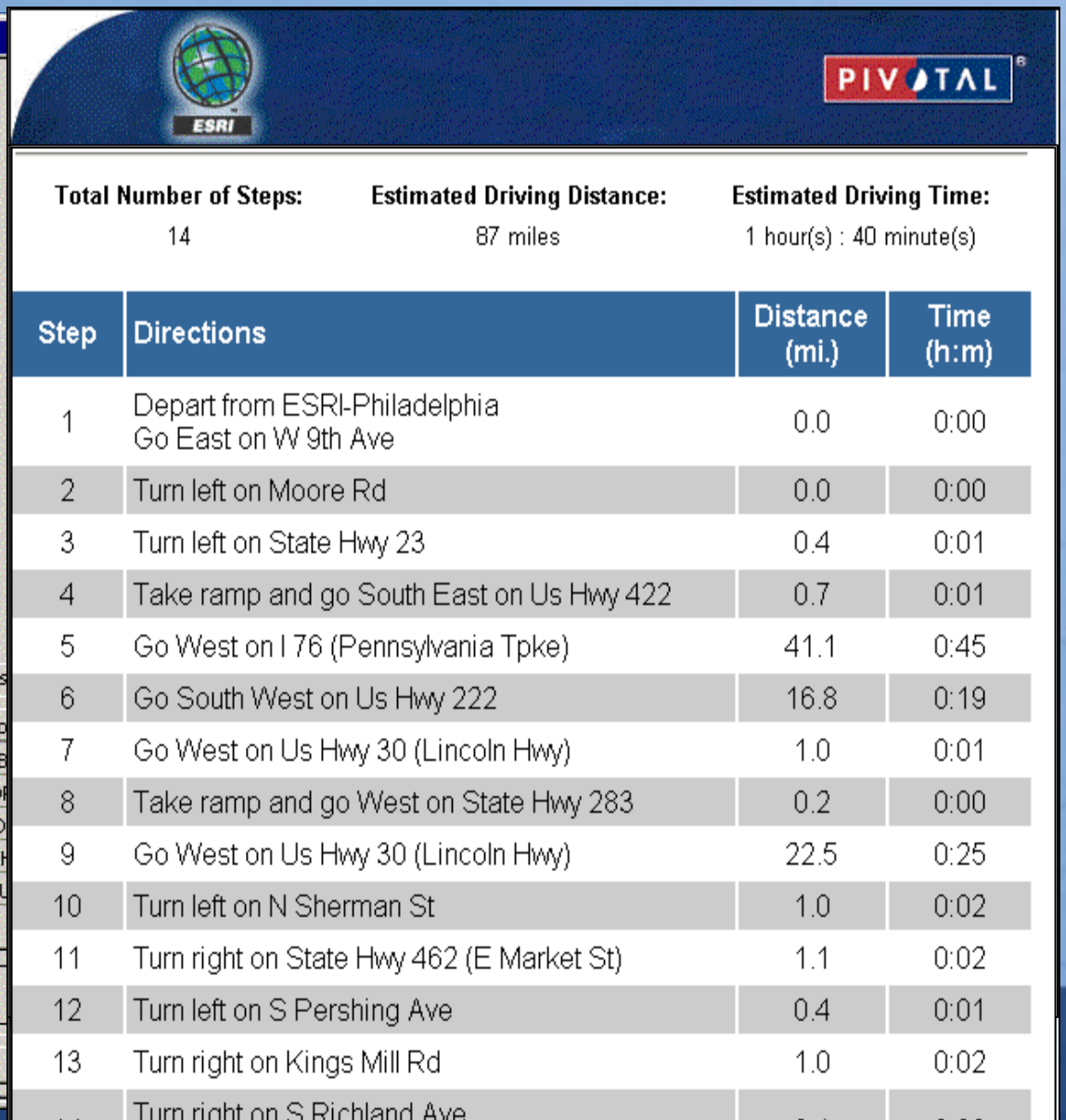
Enterprise Applications

Geographically Enable…

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

CRM



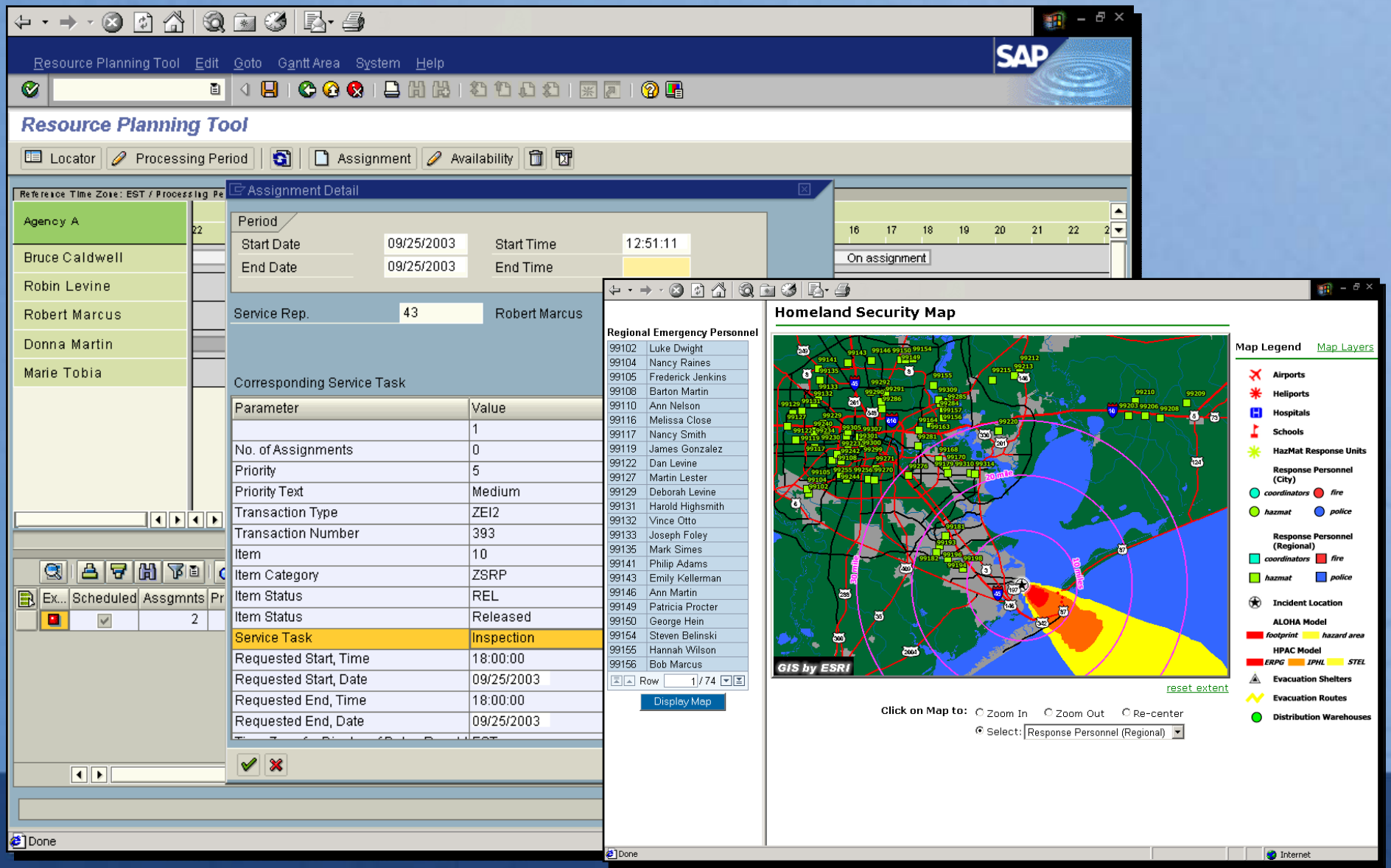


Total Number of Steps:	Estimated Driving Distance:	Estimated Driving Time:
14	87 miles	1 hour(s) : 40 minute(s)

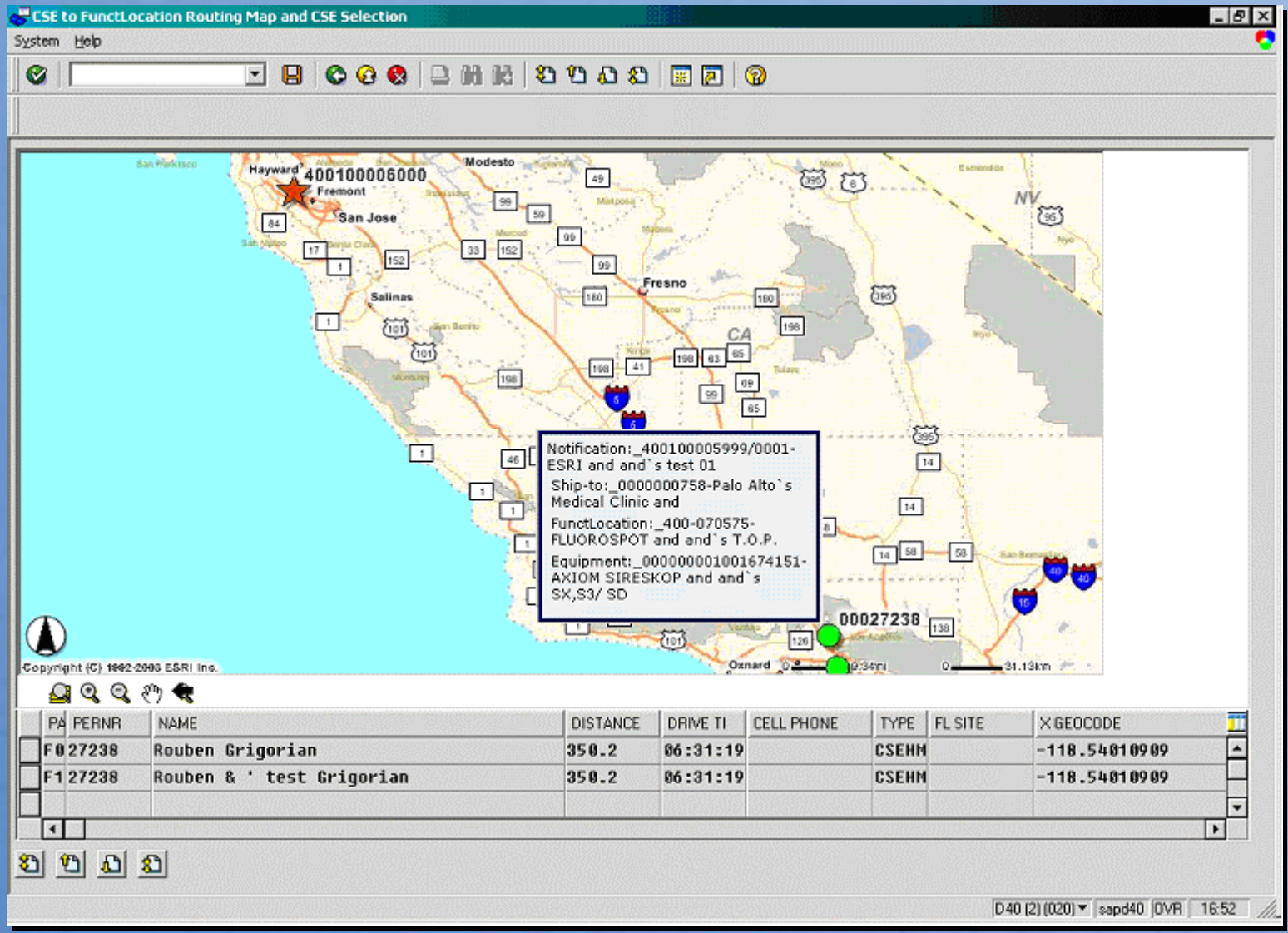
Step	Directions	Distance (mi.)	Time (h:m)
1	Depart from ESRI-Philadelphia Go East on W 9th Ave	0.0	0:00
2	Turn left on Moore Rd	0.0	0:00
3	Turn left on State Hwy 23	0.4	0:01
4	Take ramp and go South East on Us Hwy 422	0.7	0:01
5	Go West on I 76 (Pennsylvania Tpke)	41.1	0:45
6	Go South West on Us Hwy 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		

CIS Call Center - GM

HR Planning


Resource Planning Tool Edit Goto Gantt Area System Help
SAP
Resource Planning Tool
Locator
Processing Period
Assignment
Availability
Assignment Detail
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
Agency A
Bruce Caldwell
Robin Levine
Robert Marcus
Donna Martin
Marie Tobia
On assignment
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
Display Map
Homeland Security Map
GIS by ESRI
reset extent
Click on Map to: Zoom In Zoom Out Re-center
Select: Response Personnel (Regional)
Map Legend
Map Layers
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
Done
Internet

Technician Routing - Siemens



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