

May 12, 2008

Location-Based Land Management Systems

Inland Empire Tech Week

Shan Sundar, Founder & CEO



Edgesoft

- Introductions & Acknowledgements
- Edgesoft is a nationwide provider of e-solutions for state and local governments. Designed shoulder-to-shoulder with government staff, Edgesoft solutions organize and process information with unparalleled integration.
- Edgesoft applications help governments maximize their resources to provide excellent customer service to their citizens.

Land Management

- Land management can be defined as the process of managing the use and development in both urban and suburban settings of land resources in a sustainable way.
- Land resources are used for a variety of purposes which interact and may compete with one another; therefore, it is desirable to plan and manage all uses in an integrated manner.
- Governmental objectives: To provide the policy and administrative framework to ensure the smooth operation of the urban land market.

Redevelopment on the Rise

- Homebuilding
 - Generated \$68 Billion for California's economy in 2005
- Residential → Commercial Growth
 - Permit revenues
- Considerations of going green

The Problems with Land Management in Local Government

- Lack of coordination and information sharing
- Conflicts between development vs. conservation
- High citizen expectations for good service and access to land use information
- Planning with clear objectives and commitment
- Effectively sharing information between different tiers of government

The Effect on Municipalities

- Changing policies
- Ever-increasing amounts of data
- Increasing demands for citizen & business services
- Budget constraints

“Location is Everything.”

- All activities can be related to a specific location within the City
- A location-centric system arranges information for maximum productivity



The Aid of Technology

- Track local zoning, land use & property tax assessments
- Organize, visualize, analyze & present information more efficiently
- Improve organizational integration & collaboration
- Make informed decisions

Foundation

- 3D/4D Addressing
- Project Management
 - Interdepartmental Visibility of Projects
- Back office Integration
 - Reporting
 - Document Imaging
- GIS Location Sciences

System Integration

Financials, CAD/RMS,
Work Order, Customer
Service

Integration with Asset
management

Three-Tiered Security Architecture

Single Point of Entry

Emergency Operations

Edgesoft eLMS™

- Designed shoulder-to-shoulder with government staff, Edgesoft solutions organize and process information with unparalleled integration.
- State of the art technology
 - Web Services
 - Database modeling and design (DB2, Oracle, SQL Server)
 - SOA, WEB 2.0, UML
 - Java, J2EE, NET, XML, SOAP
 - Rational Unified Process (RUP) and Agile methodologies
 - Integration with GIS, IVR, Financial, Document Imaging
- Recognized as an industry leader by Microsoft and IBM
- Public sector clients include:
 - L.A. County Assessor
 - City of Beverly Hills
 - City of Burbank
 - City of Glendale
 - City of Calabasas
 - Los Angeles Community College

3D/4D Addressing

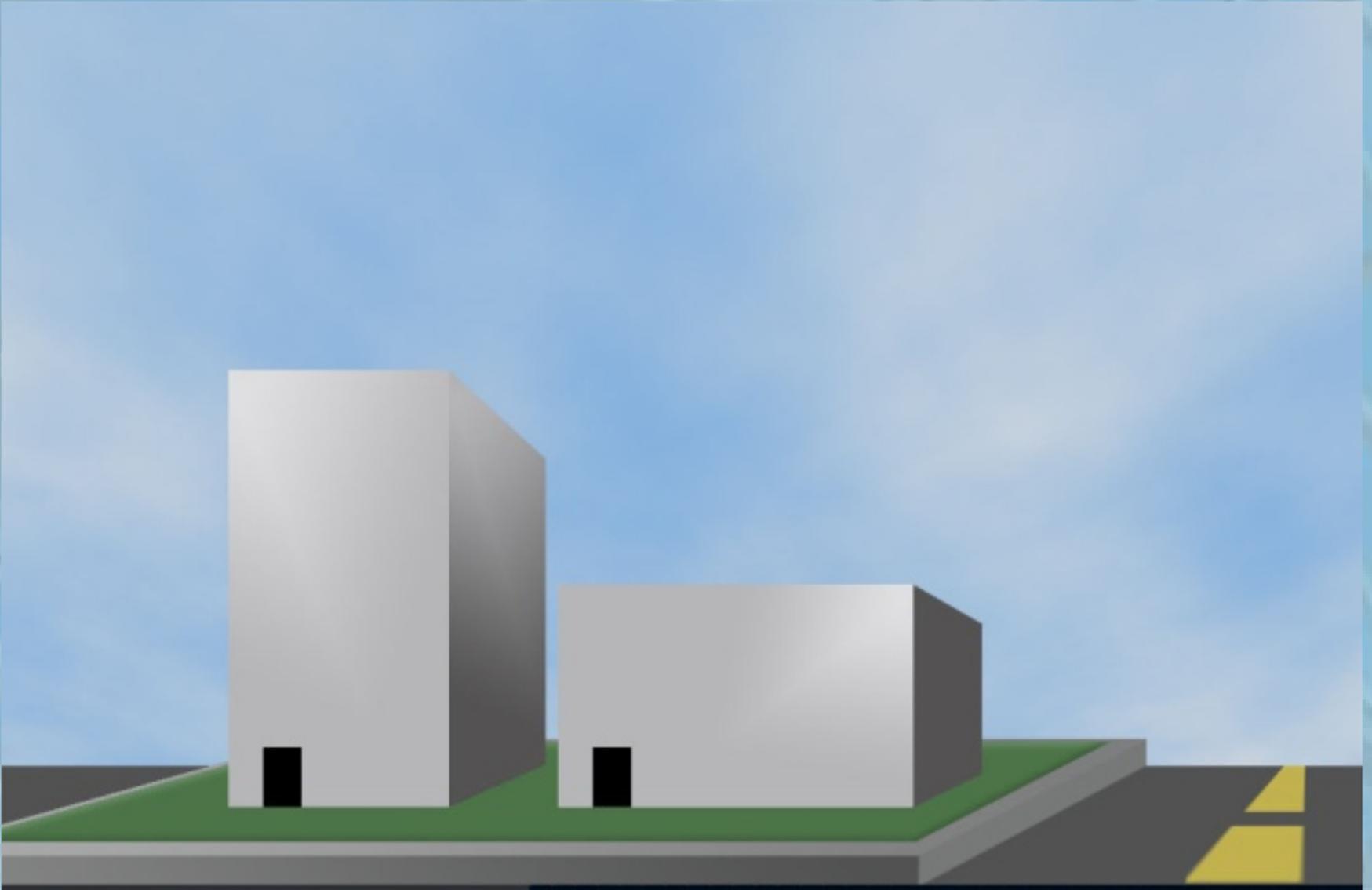
3D/4D Addressing is the foundation of the architecture for the application

- 3D/4D Addressing is based on a Land, Structure, Occupancy hierarchy (LSO)
 - A Land represents multiple parcels
 - Attached to any land there can be an endless number of structures
 - Attached to any structure there can be an endless number of occupancies
 - One occupancy can span multiple structures
 - One structure can span multiple lands

LAND



STRUCTURE



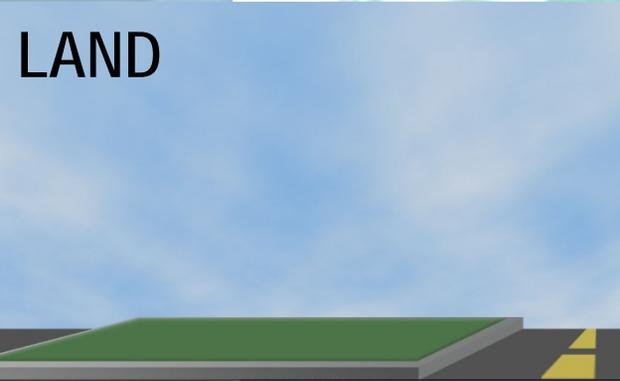
OCCUPANCY



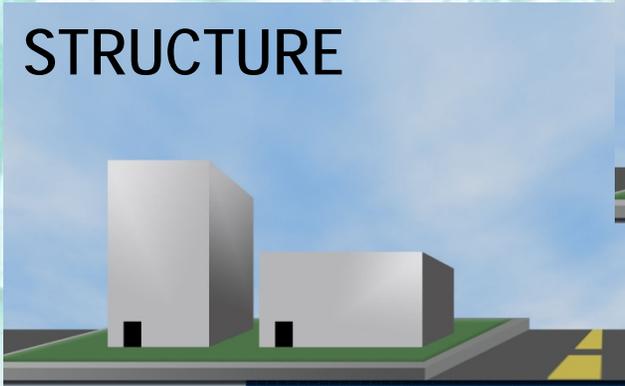
Bridging GIS & Day-to-day Land Management

The 4th Dimension is that of **TIME**: you can historically tell what has happened to a piece of land.

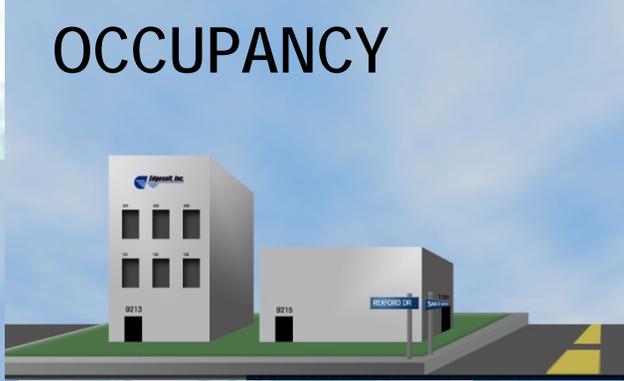
LAND



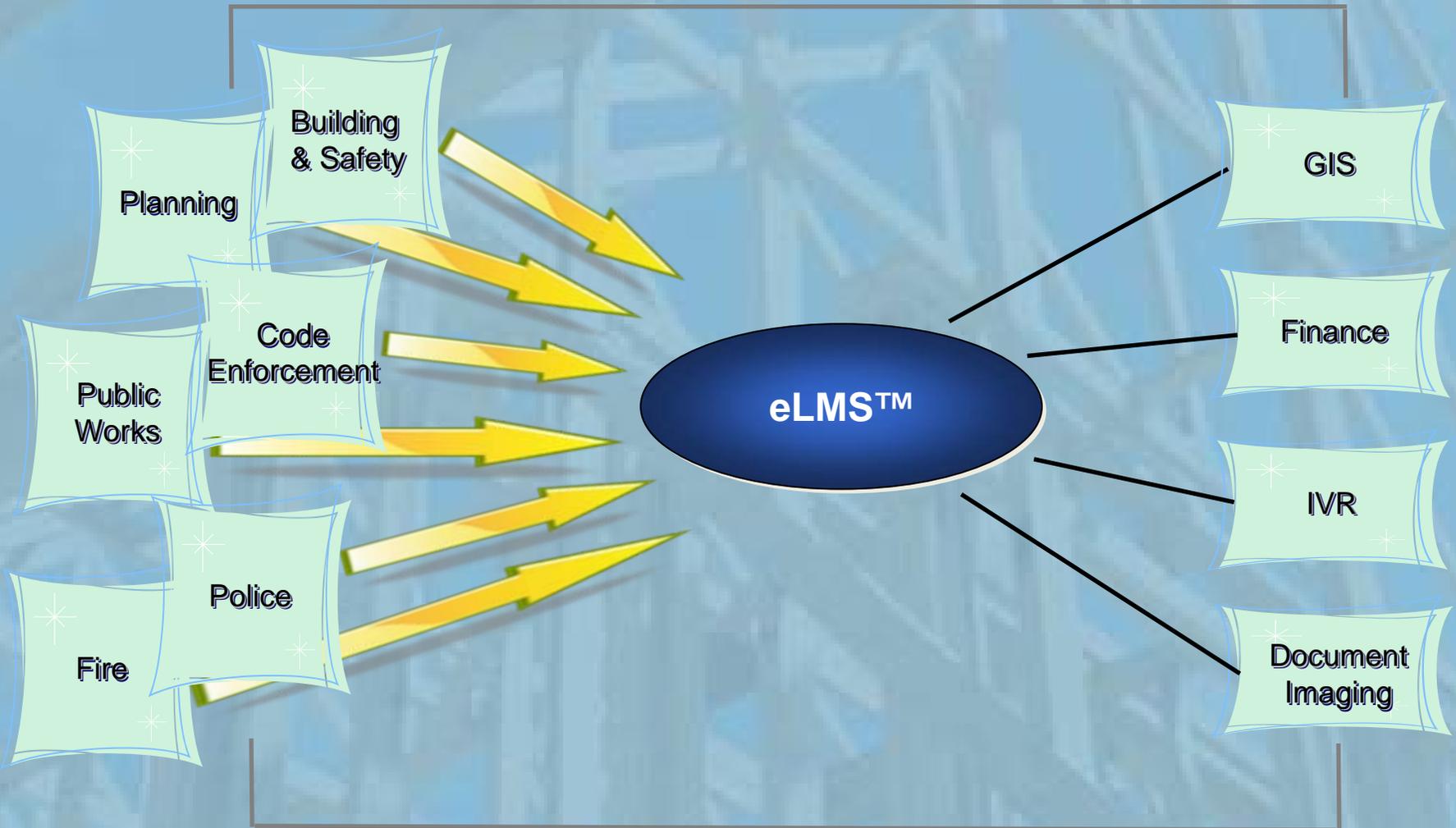
STRUCTURE



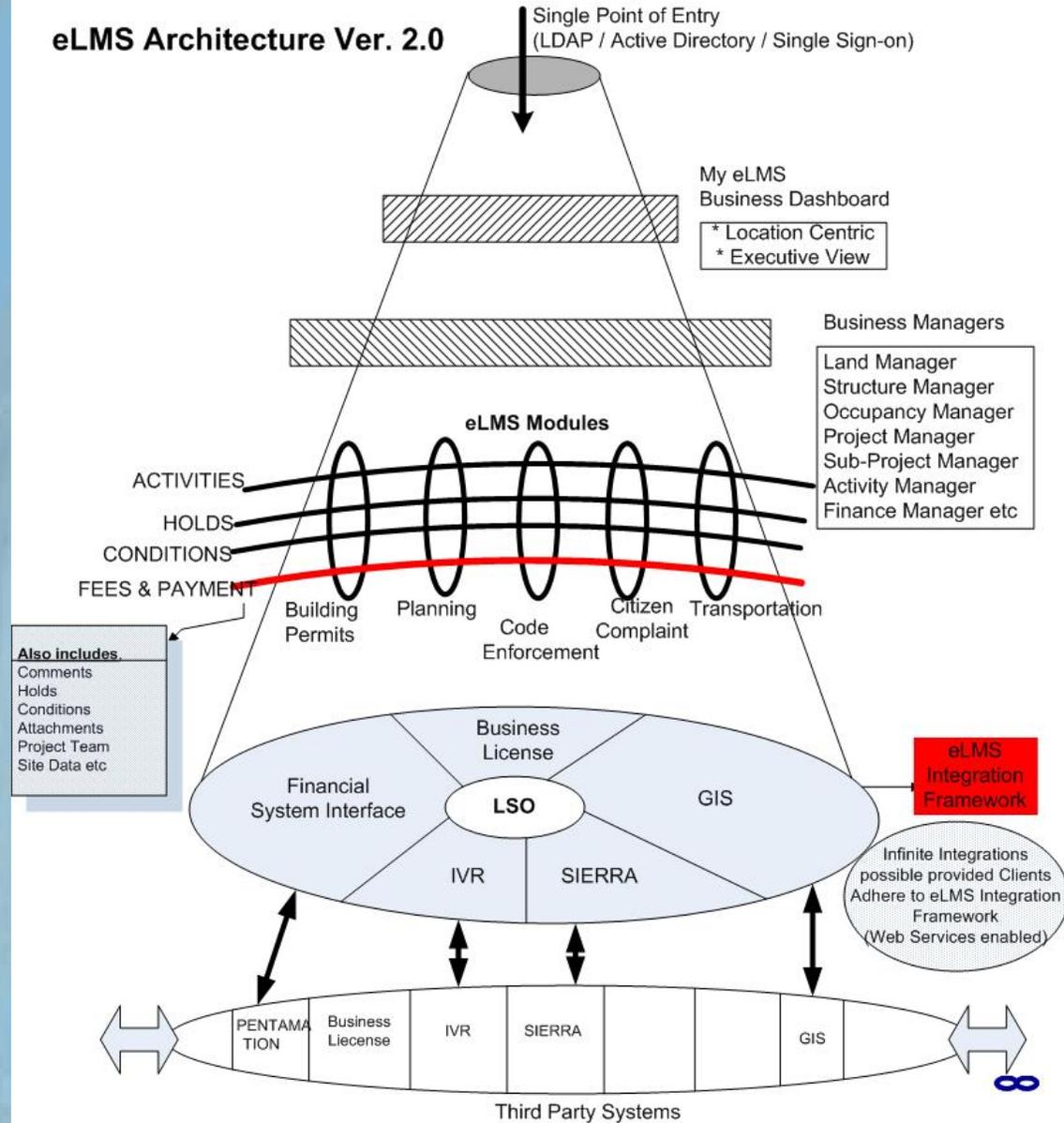
OCCUPANCY



Enterprise Land Management System



eLMS Architecture Ver. 2.0



Also includes.
Comments
Holds
Conditions
Attachments
Project Team
Site Data etc

LSO Explorer Find

Street # 9100 Street Name Wilshire Blvd

Active All

- 9100 WILSHIRE BLVD
 - 117 DOHENY DR, S
 - 9100 WILSHIRE BLVD East
 - 9100 WILSHIRE BLVD West
 - 9100 WILSHIRE BLVD 1000W
 - 9100 WILSHIRE BLVD 100W
 - 9100 WILSHIRE BLVD 175W
 - 9100 WILSHIRE BLVD 200W
 - 9100 WILSHIRE BLVD 250W
 - 9100 WILSHIRE BLVD 330W
 - 9100 WILSHIRE BLVD 340W
 - 9100 WILSHIRE BLVD 350W
 - 9100 WILSHIRE BLVD 360W
 - 9100 WILSHIRE BLVD 361W
 - 9100 WILSHIRE BLVD 362W
 - 9100 WILSHIRE BLVD 363W
 - 9100 WILSHIRE BLVD 400W
 - 9100 WILSHIRE BLVD 437W

Land

Structure

Occupancy

Land Manager

Land Details		Add Structure	Add Project
ID	3815	Description	TR=6380 LOTS 807 THRU 811
Active	Yes	Alias	
Zone	C-3	Use	Commercial
P-Zone	None	R-Zone	C-1
Coordinate X	6443482.216	Coordinate Y	1846883.783
Address Range	101 - 119 DOHENY DR,S 100 - 118 OAKHURST DR,S 9100 - 9132 WILSHIRE BLVD		

Holds	Add
Conditions	Add
Site Data	View

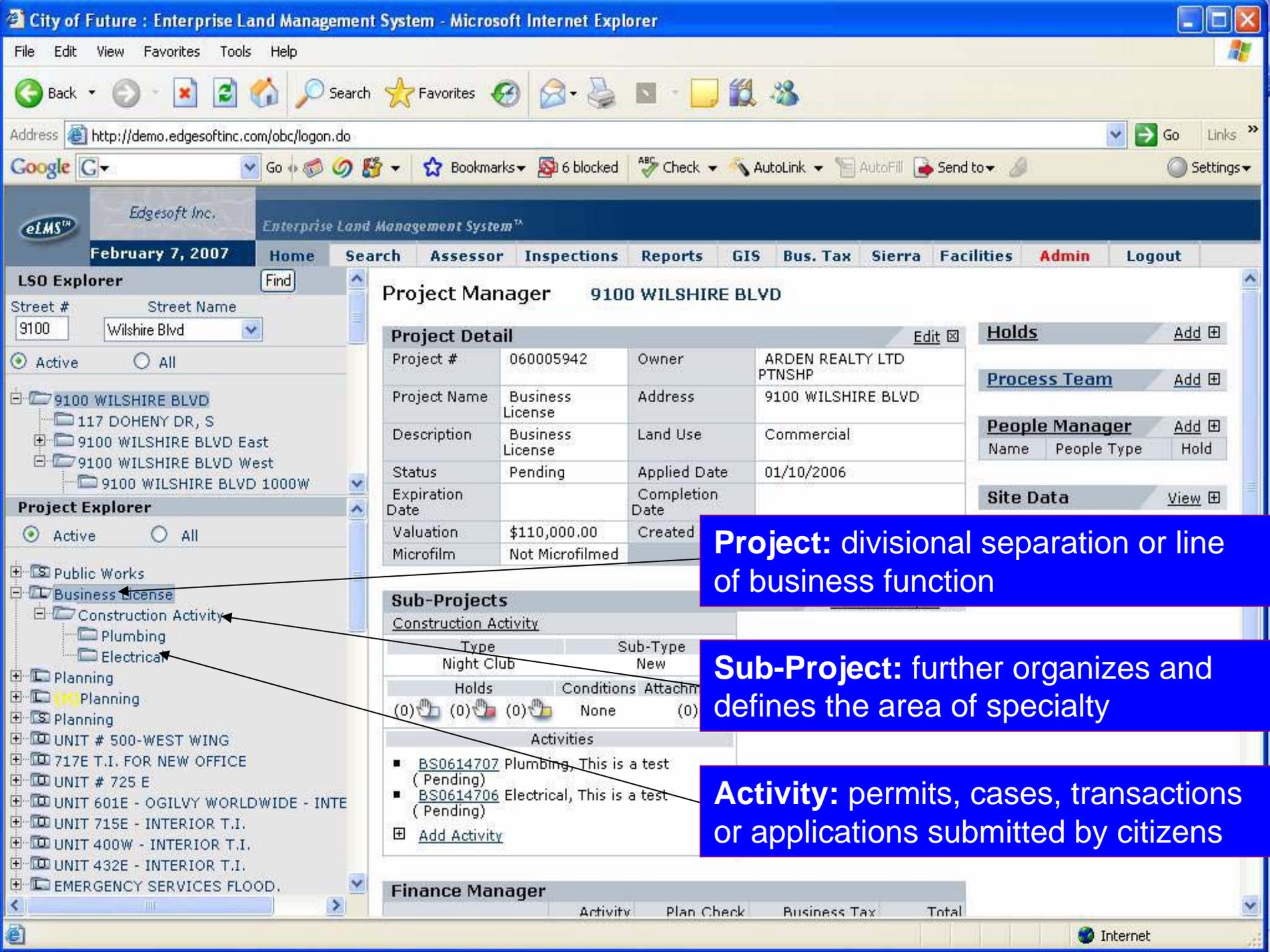
Land Address		Add
Address	9100 WILSHIRE BLVD	
	BEVERLY HILLS CA 90212	
Description		
Primary	Yes	
Active	Yes	

Land APN		Add
APN #	4331023059	
Owner Name	ARDEN REALTY LTD PTNSHP	
Address	P O BOX 131071 CARLSBAD CA 92013	
Email		
Phone		

Project Explorer

Active All

- Public Works
- Business License
- Planning
- Planning



Project: divisional separation or line of business function

Sub-Project: further organizes and defines the area of specialty

Activity: permits, cases, transactions or applications submitted by citizens

Project Manager 9100 WILSHIRE BLVD

Project Detail

Project #	060005942	Owner	ARDEN REALTY LTD PTNSHP
Project Name	Business License	Address	9100 WILSHIRE BLVD
Description	Business License	Land Use	Commercial
Status	Pending	Applied Date	01/10/2006
Expiration Date		Completion Date	
Valuation	\$110,000.00	Created	
Microfilm	Not Microfilmed		

Sub-Projects

Type	Sub-Type
Night Club	New
Holds	Conditions Attachm
(0)	(0) (0) None (0)

- Activities
- BS0614707 Plumbing, This is a test (Pending)
 - BS0614706 Electrical, This is a test (Pending)
- [Add Activity](#)

Finance Manager

Activity	Plan Check	Business Tax	Total
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LSO Explorer Find

Street # 9100 Street Name Wilshire Blvd

Active All

- 9100 WILSHIRE BLVD
 - 117 DOHENY DR, S
 - 9100 WILSHIRE BLVD East
 - 9100 WILSHIRE BLVD West
 - 9100 WILSHIRE BLVD 1000W

Project Explorer Active All

- Public Works
- Business License
 - Construction Activity
 - Plumbing
 - Electrical
- Planning
- UNIT # 500-WEST WING
- 717E T.I. FOR NEW OFFICE
- UNIT # 725 E
- UNIT 601E - OGILVY WORLDWIDE - INTE
- UNIT 715E - INTERIOR T.I.
- UNIT 400W - INTERIOR T.I.
- UNIT 432E - INTERIOR T.I.
- EMERGENCY SERVICES FLOOD.

GIS

eLMS™ easily integrates with GIS to provide mapping capabilities

The screenshot displays the 'Online Business Center' interface. At the top, the date is 'September 12, 2003'. The navigation menu includes 'Home', 'Search', 'Assessor', 'Inspections', 'Reports', 'GIS', 'Bus. Tax', 'Sierra', and 'Logout'. The 'GIS' menu item is highlighted.

The main content area is titled 'Search Results -- 15'. It features a search form with 'Street #' and 'Street Name' fields, and a 'Find' button. Below the search form is a list of search results, each with a 'Cancel' button. The results are as follows:

Address	Apn	Owner Name
629, ALPINE DR, BEVERLY HILLS, CA 90210	4341029901	BEVERLY HILLS UNIFIED SCHOOL
601, ALPINE DR, BEVERLY HILLS, CA 90210	4341029021	SURKIN,URI N AND ESTHER TRS
627, ALPINE DR, BEVERLY HILLS, CA 90210	4341029008	HUNG,LORETTA M TR
625, ALPINE DR, BEVERLY HILLS, CA 90210	4341029009	RAHBAN,SAID AND JILA
623, ALPINE DR, BEVERLY HILLS, CA 90210	4341029010	HOOSHANG RADNIA TR
621, ALPINE DR, BEVERLY HILLS, CA 90210		
619, ALPINE DR, BEVERLY HILLS, CA 90210		
617, ALPINE DR, BEVERLY HILLS, CA 90210		
615, ALPINE DR, BEVERLY HILLS, CA 90210		
613, ALPINE DR, BEVERLY HILLS, CA 90210		
611, ALPINE DR, BEVERLY HILLS, CA 90210		
609, ALPINE DR, BEVERLY HILLS, CA 90210		
607, ALPINE DR, BEVERLY HILLS, CA 90210		
605, ALPINE DR, BEVERLY HILLS, CA 90210		
603, ALPINE DR, BEVERLY HILLS, CA 90210		

Below the search results, a 'City of Beverly Hills Map' window is open in Microsoft Internet Explorer. The map shows a grid of parcels in blue, with a yellow parcel highlighted. A legend on the right side of the map window includes the following items:

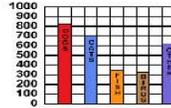
- parcels
- bh_trnl
- bh_ctya

Welcome Asst City Manager !

Average Permit Issue Time

Building Permits

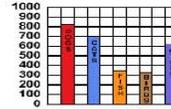
- Building Permit - 25 days
- Mechanical Permits - 35 days
- Electrical Permits - 45 days
- Combo Permits - 33 days



Favorite Pets of Students

Business Licenses

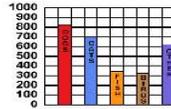
- Auction - 25 days
- Peddler - 35 days
- Advertising Vehicle - 45 days
- Alcohol - 38 days



Favorite Pets of Students

Planning Permits

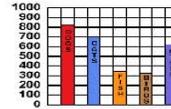
- Conditional Use Permit - 35 days
- Development Review - 44 days
- Administrative Use Permit - 66 days



Favorite Pets of Students

Fire Permits

- Fire Safety Permit
- Open Burning Permit - 3 days



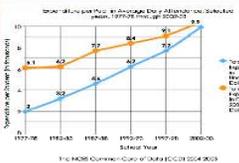
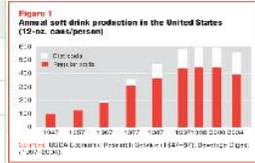
Favorite Pets of Students

My Settings

- My Homepage
- My Dashboard
- My Color Scheme

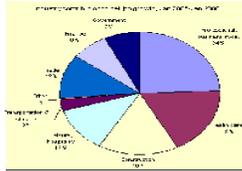
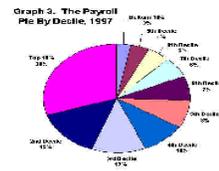
Building Permit Fees

Fiscal Year	2006 - 2007	2007 - 2008
This Week	25K	35K
This Month	250K	350K
YTD	2.5M	3.5M



Major Projects (Over \$ 5M)

Project Name	Valuation (\$, Million)	Description
Disney Hall	8.2	New Construction, Building Permits Issued, Inspections in progress.
Porsche Mall	16.1	Plans submitted, Plan review in progress
Kodak Grounds	66.2	Plans reviewed, Demolition and Building permits issued, on Hold for payment pending.



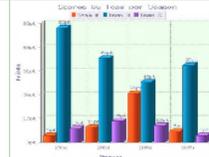
Inspection Metrics

Building Inspections Requested	22
Building Inspections Completed	20
Inspections Pending from 180 days	5



Inspections Workload By Inspector

- George: 10
- Jack : 5
- Andy : 4
- Jesse : 11
- Brad : 20



Inspections By Activity Type / Territory

- Territory 1 - 22 Total (5-Electrical, 4-Mechanical, Plumbing - 5)
- Territory 2 - 22 Total (5-Electrical, 4-Mechanical, Plumbing - 5)
- Territory 3 - 22 Total (5-Electrical, 4-Mechanical, Plumbing - 5)
- Territory 4 - 22 Total (5-Electrical, 4-Mechanical, Plumbing - 5)

Benefits of eLMS™

- Web-based, e-Gov ready
- Improved citizen service
- Accurate address data
- Modifiable and scalable
- Intuitive user interface
- User-supportable
- Digital dashboards
- Rapid implementation – 3 months

QUESTIONS?

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