#### County Surveyor

#### Custodian of County's GIS/LMIS Program

Review the following Maps & Applications for compliance with state & local laws

- Records of Survey
- Parcel Maps
- Subdivision Maps
- Corner Records
- Lot Line Adjustments
- Addressing Coordinator
- Assessor's Maps
- Certificates of Compliances
  - BOS Policy Parcel Eligibility Review

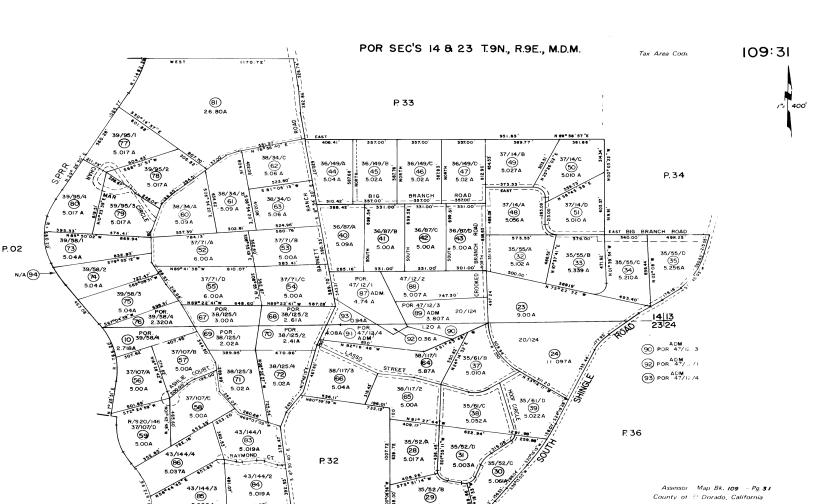
#### Assessor's Maps

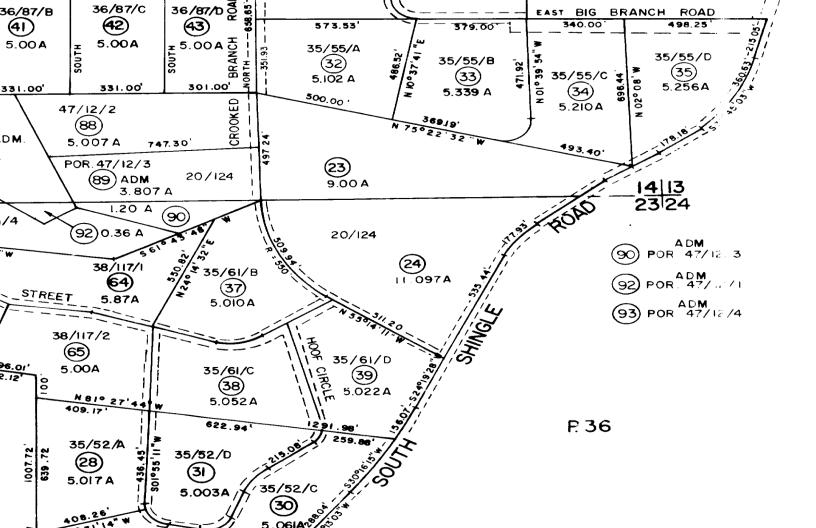
- What does the assessor's map represent?
- What parcels may be sold from assessor's map?
- What is an administrative parcel?

• 27557. The surveyor shall plat, trace, blueprint, or otherwise make all county, road, district, and other maps and, at the request of the Assessor, make all assessor's block-books for the county.

#### Section 27559

 In the preparation of assessors' maps and block-books the surveyor shall make all investigations and surveys necessary to provide complete and accurate maps.





#### Real Life



#### Certificate of Compliance

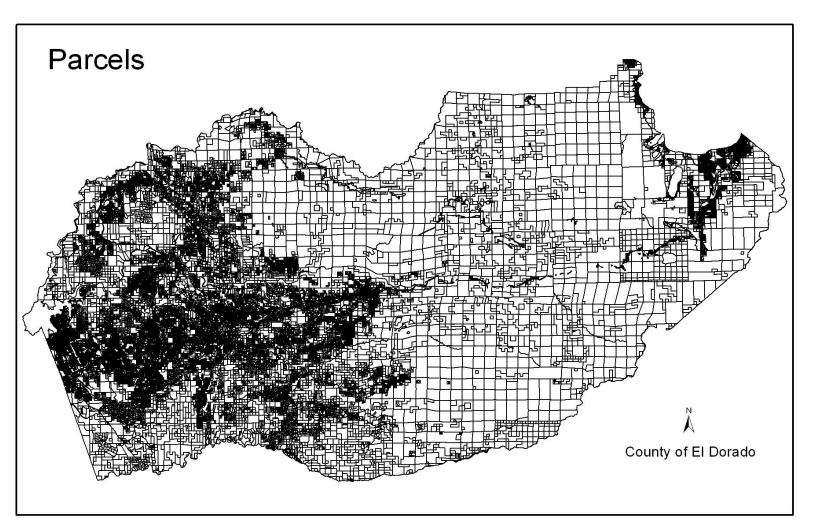
- Duty transferred to Surveyor 1991
- What is a certificate of compliance?
- Why might you need one?
- Gift deed / 40 ac parcels / 5 or more < 72</li>
- Why you probably don't need a CoC
- Is this parcel eligible for development?
- Lets see:

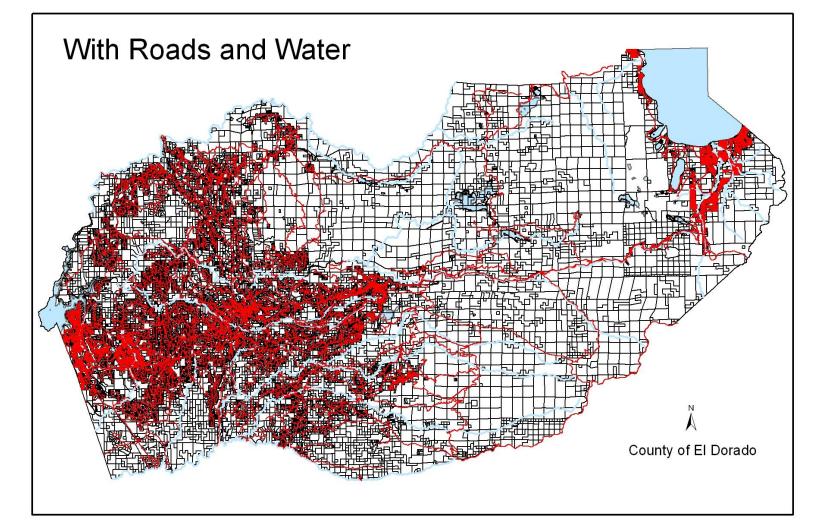
#### Board of Supervisor's Policy Direction to Staff

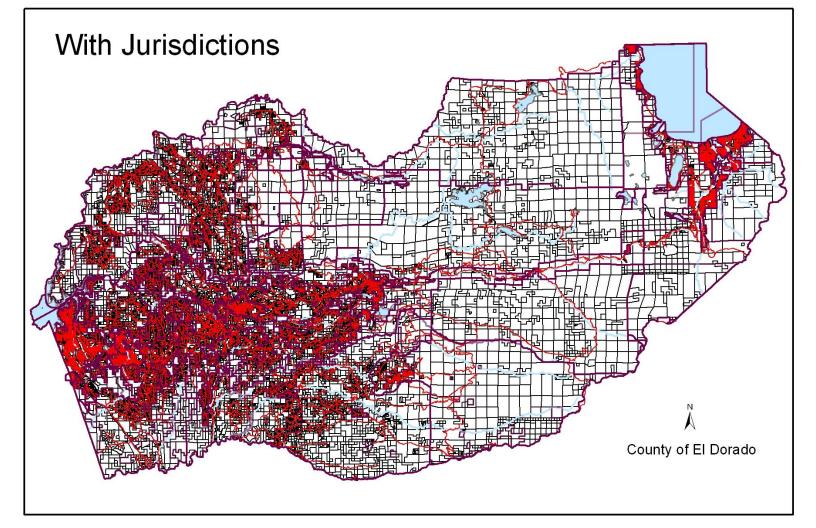
The following parcels are considered eligible parcels for development, and may be issued a permit or grant of approval for development, unless a finding can be made that development of such parcel is contrary to the Public Health or the Public Safety.

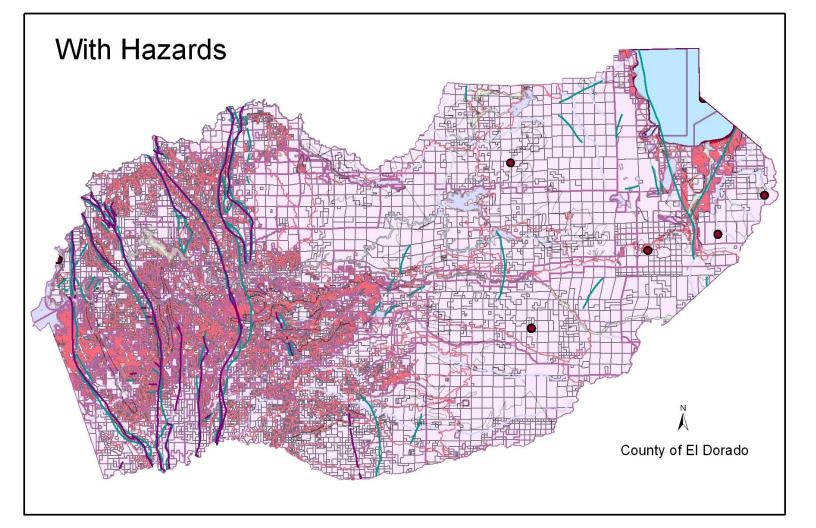
- 1. All parcels or lots created or adjusted by a parcel map or final map.
- 2. All parcels or tracts of land that were created and have been subsequently altered through the County's adopted lot line adjustment process.
- 3. All parcels created prior to March 4th 1972.
- 4. Any parcel, including resultant parcels, created by gift deed or grant deed with zero transfer tax on or before October 10<sup>th</sup> 1983, where fewer than five parcels were created by the same subdivider.
- 5. Any parcel created on or prior to January 6<sup>th</sup> 1992, where fewer than five parcels were created by the same subdivider which resulted in parcels of not less than 40 acres in size or not less than a quarter of a quarter section provided the following two conditions are satisfied:
  - 1. The parcel was consistent with the general plan land use designation at the time the parcel was created; and
  - The applicant shall provide proof of access in the form of a recorded easement or court judgement as shown on a guarantee provided by a title company. Said easement shall accommodate an 18-foot wide road.
- Any parcel, including resultant parcels, that have had any permit or grant of approval is entitled to additional permits. (66499.34 Subdivision Map Act)

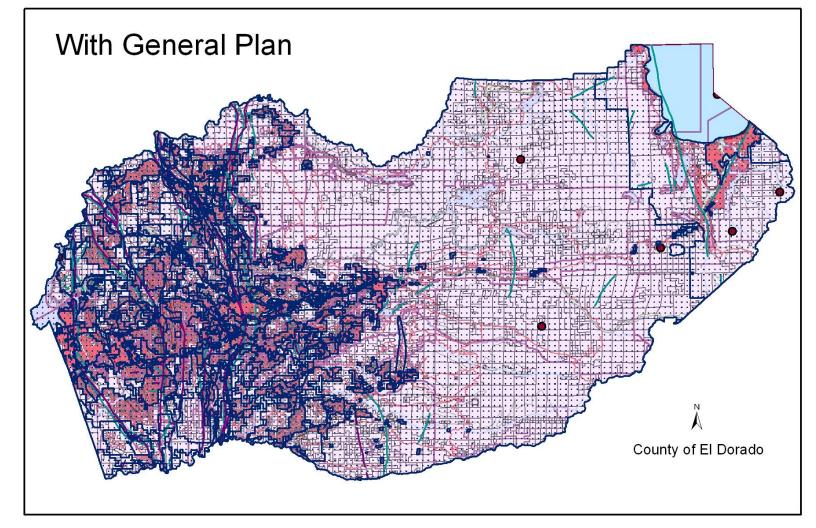
#### GIS/LMIS Program











### LMIS is doing MORE with LESS

- LMIS/GIS is serving 220% MORE County clients.
- LMIS/GIS is serving 691% MORE External clients.
- LMIS/GIS is serving 22% MORE LMIS mainframe users.
- LMIS/GIS is managing 16% MORE parcel constraint layers.
- LMIS/GIS is managing 220% MORE parcel constraint records.
- LMIS/GIS is managing 11% MORE External clients.
- Though LMIS is now MORE complex, has MORE clients, has MORE value it is being done with:
- 17% **LESS** staff
- And costs the county \$220,000 <u>LESS</u> than 2004.
- And costs the client departments 31% <u>LESS</u> than five years ago.

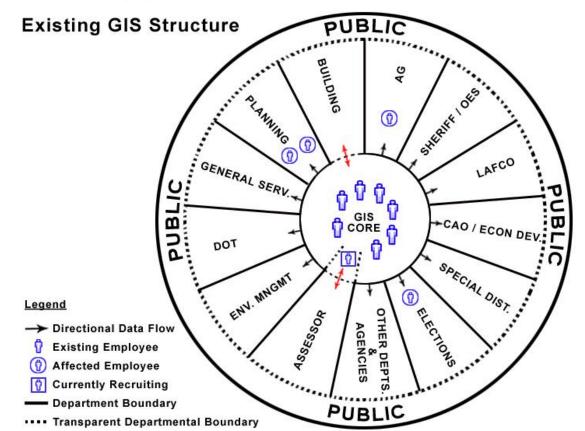
### **BOS Presentation December 2004**

### **"BOARD OF SUPERVISORS ADOPTED GOALS FOR 2004**

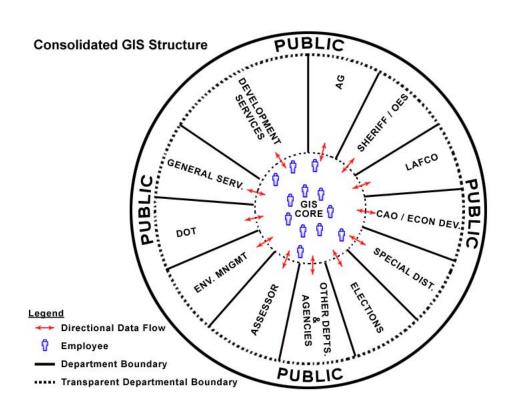
Provide the best possible service to El Dorado County residents, businesses, and visitors through the following activities:

Complete reorganization and consolidation of county departments to provide cost-effective and responsive services and to facilitate cooperation and coordination to improve overall services. "

### **BOS Presentation December 2004**



### **BOS Presentation December 2004**



# BOS Presentation December 2004 Reasons for Consolidation

- Maintenance of information is more efficient.
- Information is shared across departmental and functional boundaries.
- Consistent answers from different departments.
- Responsibility for the accuracy, currency, and security of County data is clear.
- Departments have back-up personnel.
- Time spent researching, acquiring, and managing similar software, hardware, peripherals, and datasets is managed more effectively.
- One stop shop for land based information.
- Public safety is no longer compromised by lack of integration.

#### County

### Land Management Information System January 2009

LMIS - Surveyor's Office

**Parcel database:** In 2004 our parcel constraint database contained 2000 constraint types and 300,000 records.

Today it contains 2400 constraint types and over 1 million records. Here's a sample:

**Permit system:** In 2004, 1000 permit types. Today the are nearly 1235 types. A gain of 235. Permit selection

**Project Tracking:** Project status applications on the Internet. Numerous query options, all written by LMIS staff. <u>Project Status</u>

GIS: Nearly all parcel constraints are map based.

**Other:** Parcel spatial database, transportation feature spatial database, jurisdiction spatial database. Residential checklist

Clients: approx. 64 County dept., 1028 non-County.

### Key Issues: COSTS July 2009

- LMIS is a revenue source for County and other agencies.
- TOTAL FEE

- LMIS is a community asset.
- ×
- Net County cost applied/abatement funding has decreased by 31% since 2004.
- Surveyor's NCC have increased due to these decreases.
- The consolidation added 5 staff to the LMIS group.
- Three staff positions remain performing the work of the original five.
- The staffing trend over the last 10 years still shows a gain of 3 FTEs, all due to the consolidation.
- One position of the three is fully funded by the Assessor's office and that position replaced a Supr. Cadastral Drafter, again no increase in FTEs to the County.
- So, GIS positions County wide have actually decreased from 12 to 10.

# **County GIS**

\$12,265

\$259,647

\$50,296

\$107,000

\$7,400

\$32,000

\$14,000

\$470,343

\$0

\$0

\$ change

-\$28,879

-\$68,503

-\$12,265

-\$109,647

-\$38,296

\$10,000

-\$32,000

\$86,000

-\$62,000

-\$145,343

\$600

-\$0

\$0

\$150,000

\$12,000

\$107,000

\$10,000

\$8,000

\$100,000

-\$62,000

\$325,000

\$0

%change

-16%

-100%

-100%

-42%

-76%

0%

0%

8%

-100%

614%

-31%

0%

•	tmental Support 04 – July 2009	
Cost Applied Charges/Abatements	Jul-04	Jul-09
Dev. Services GIS staff costs	\$178,879	\$150,000
Dev. Services LMIS permit system support	\$68,503	\$0

Dev. Services LMIS access

**Ag. Department** (half-year)

**Environmental Management** 

**Elections Department** (half-year)

**Department of Transportation** 

IT charges for LMIS app dev

Assessor Office (Supr. Cadastral Drafter + prorated GIS

**Dev. Services Total** 

staff)

Sheriff /OES

Total

## **County GIS**

\$1,315,000

\$470,343

20

130

2,098

1,009

798

301,355

\$change

\$1,115,000

\$254,483

64

1,028

2,434

1,125

971

1,084,310

-2

44

898

336

116

173

782,955

-\$200,000

-\$215,860

%change

-17%

-15%

-31%

220%

691%

16%

260%

11%

22%

	July 2004 – July 2	July 2004 – July 2009		
Measurement	Jul-04	Jul-09		
County GIS staff	12	10		

County GIS staff costs (present value)

**Cost Applied Charges/Abatements** 

**GIS clients County Depts/Org.** 

Parcel constraint types.

Permit types.

Parcel constraint records.

GIS clients external organizations.

LMIS users (total active and inactive)

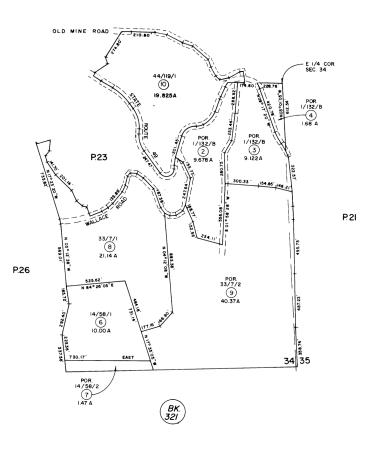
### Summary MORE with LESS

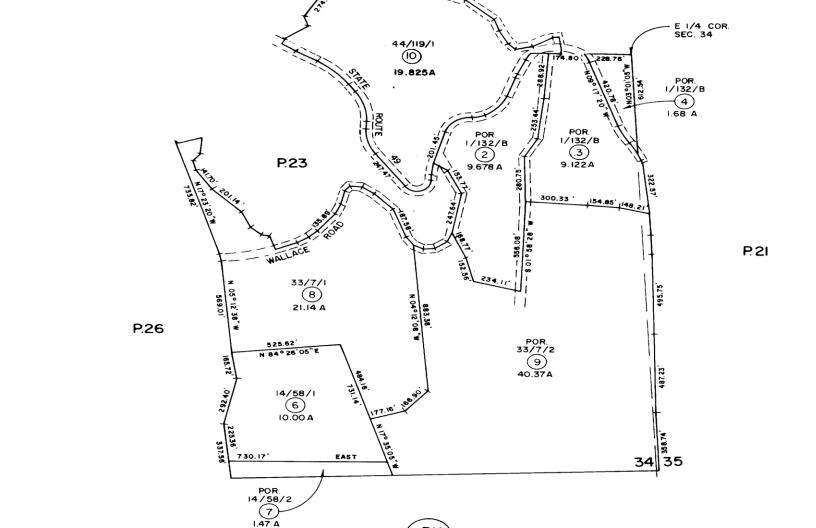
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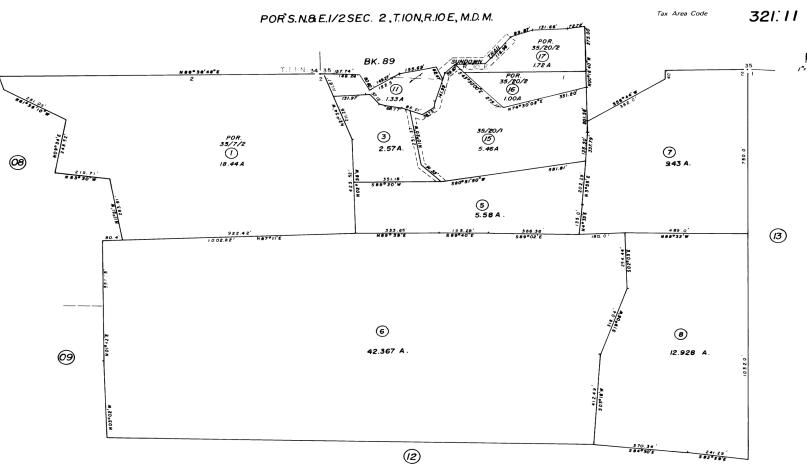
#### End

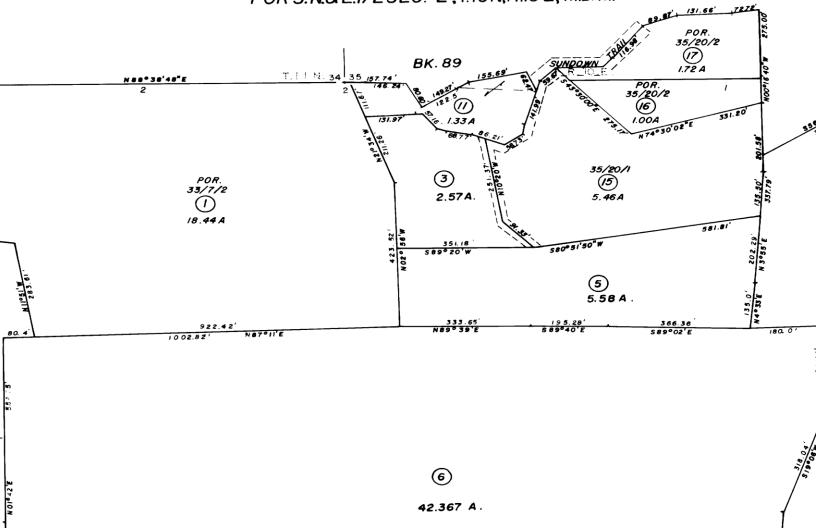


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#### County

### Land Management Information System October 1994

LMIS group and GIS staff moves to Surveyor's Office

Parcel database: owner and address database tables.

Project Tracking: recently completed serves just Planning Services.

Permit system: being built.

GIS: parcel base, school, water, and fire districts.

Clients: approx. 18 County dept., 28 non-County.

Allocated GIS positions in the Surveyor's Office

**7** FTE

#### County

### Land Management Information System July 2004

LMIS - Surveyor's Office

**Parcel database:** owner, address, and assessed use database tables.

**Permit system:** integrated with parcel database; processes all building, grading, and encroachment permits; fees, approvals, and inspections.

**GIS:** parcel base, road network, major water features, and jurisdictions.

Clients: approx. 20 County dept., 130 non-County.

GIS positions in the Surveyor's Office

**7** FTE

### Other GIS July 2004

Planning Data - Planning Dept.

Parcel Data Info. System: redundant copy of parcel data from LMIS linked to General Plan related attributes.

**Project Tracking:** original part of LMIS, processes land subdivisions and uses LMIS parcel database.

**Planning GIS:** supports development of General Plan layers based entirely on LMIS parcel base.

GIS positions in the Planning Dept.

**2**\*FTE

<sup>\*</sup> One GIS Analyst, One Survey Tech. (re-classed to GIS Analyst)

### Other GIS July 2004

Agricultural – Agriculture Department.

**Ag. Commission Projects:** setback relief, variance, and Special use requests.

Agricultural GIS: supports mapping of crop boundaries, noxious weed infestation, soils, vegetation, ag districts, viticultural boundaries, and project display maps.

GIS positions in the Agriculture Dept.

1 FTE

# Other GIS July 2004

**Elections** – Recorder Clerk/Elections Department.

**Election parcel data:** address data, parcel data, Tax Rate Area. Uses LMIS parcel and addressing data as foundation for election database and LMIS parcel GIS base for precinct mapping.

**Election GIS:** supports precinct mapping, TRA validation, LAFCO support, annexations and detachments, maps for campaigns, and re-districting.

GIS positions in the Recorder Clerk/Elections

### GIS Opportunity July 2004

"Pursue implementation of electronic drafting and mapping." – Assessor's Office budget key issue for FY 2004/2005.

**Assessor Plat Production:** entirely manual: 4,000+ Assessor plats.

Supv Cadastral Drafter positions in Assessor's Office 1 FTE

#### County GIS Staffing July 2004

LMIS in Surveyor's Office:	
Planning GIS and Survey Tech:	2
Agriculture Dept. GIS:	1
Election Dept. GIS:	1
Assessor Supv. Cadastral Drafter:	1

#### County GIS Costs July 2004

(present day value)

Department	Staff	Staff %	Staff Cost	Cost %
LMIS/GIS staff in Surveyor's Office:	7	58%	\$785,000	60%
Planning GIS and Survey Tech:	2	17%	\$220,000	17%
Agriculture Dept. GIS:	1	8%	\$110,000	8%
Election Dept. GIS:	1	8%	\$110,000	8%
Assessor Sr. Drafting position:	1	8%	\$90,000	7%

Total 12 \$1,315,000

# BOS Presentation December 2004 Approvals and Direction:

- 1) Approve the attached FY04/05 budget revisions for the affected departments
- 2) Approve the attached personnel allocations for the affected departments
- 3) Direct the County Administrative Officer to implement GIS staff consolidation effective January 1<sup>st</sup> 2005
- 4) Direct that all land applications or databases prior to development be reviewed and approved by the Surveyor for compatibility with the County's GIS program.
- 5) Direct that all GIS hardware and software prior to purchase shall be reviewed and approved by the Surveyor for compatibility with the County's GIS program.

## County GIS Staffing After BOS Approved Consolidation

LMIS in Surveyor's Office:	11
Planning GIS:	0
Planning Survey Tech:	0
Agriculture Dept. GIS:	0
Election Dept. GIS:	0
Assessor Supv. Cadastral Drafter:	1

Total County LMIS/GIS Mapping Positions January 2005: 12

#### Effect on Surveyor's Office January 2005

- County GIS staff stays 12.
- LMIS/GIS staff increases by 57%.
- GIS management stays at one.
- · Recruitment starts for Assessor GIS support.
- Census, SACOG, Transportation Commission support.
- General Plan map layer development, maintenance, and implementation.
- Servers, data, databases, and applications require maintenance but,
- Consolidation and elimination of server, data, databases, and applications must also begin.
- Project Tracking software has not been maintained, doesn't support current business needs.
- Multiple versions (some personally owned, others obsolete) of operating systems, databases, GIS, and licenses.
- Costs transferred to Surveyor equate to nearly \$500,000 per year.
- No transfer of training, licensing, software, or hardware dollars.

#### County GIS Staffing July 2009

LMIS in Surveyor's Office:	10
Planning GIS:	0
Planning Survey Tech:	0
Agriculture Dept. GIS:	0
Election Dept. GIS:	0
Assessor Supv. Cadastral Drafter:	0

Total County GIS Positions July 2009: 10

#### **County GIS Costs January 2009**

Department	Staff	Staff %	Staff Cost present value
LMIS in Surveyor's Office:	10	100%	\$1,115,000
Planning GIS and Survey Tech:	0	0%	\$0
Agriculture Dept. GIS:	0	0%	\$0
Election Dept. GIS:	0	0%	\$0
Assessor Sr. Drafting position:	0	0%	\$0

10

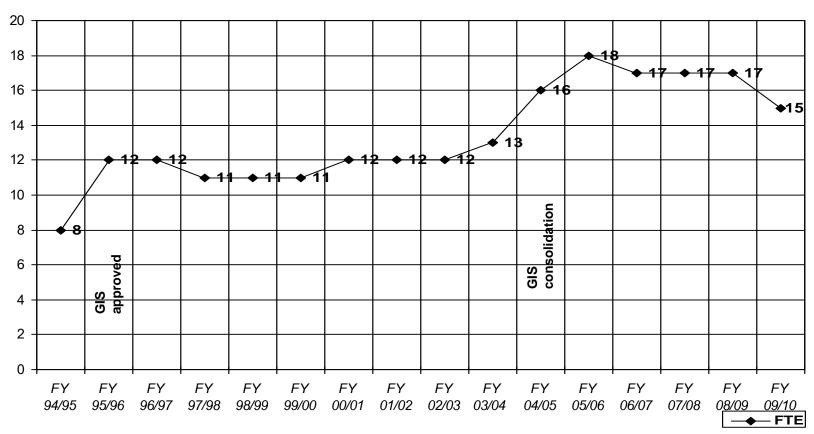
\$1,115,000

**Total** 

#### Key Issues: Staffing July 2009

- Total County GIS positions has <u>decreased</u> from 12 to 10.
- The Board transferred with 100% <u>funding</u>, 4 staff.
- Only two of those staff remain in the Surveyor's office.
- The Surveyor's office continues to do the work for the other 2 staff with substantially lower cost applied and abatement level.
- The Board's consolidation decision has resulted in an annual savings of nearly \$200,000.

#### Surveyor's Office Staffing Levels FY 94/95 to FY 09/10



#### Key Issues: Workload July 2009

- Three times as many County organizations served.
- External clients have increased seven fold.
- Mainframe LMIS clients has increased by 20%.
- New applications, business requirements, rule changes, and fee schedules have been put in place.
- Data required to support the new applications, requirements, rule changes, and fee are constantly changing and needs constant maintenance. Workload:
- The Surveyor's office continues to do the work of the 2 eliminated staff.

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          CSD EDH
                       EDH CSD
                                                          COMMUNITY SERVICES DISTRICT
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