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EL DORADO COUNTY
12:53 pm, Nov 09, 2010

GIS Reduction

30

LATE DISTRIBUTION
Date 12:53 pm, Nov 09, 2010

“Can you do your job without GIS?” – District I Supervisor John Knight
“No.” – County of El Dorado Assessor Tim Holcomb, Oct.19, 2010

“Can you do your job without GIS?” – District I Supervisor John Knight
“No.” – Development Services Director Roger Trout, Oct.19, 2010

"Pain is temporary. Quitting lasts forever." - Lance Armstrong

"Information is the currency of democracy." -- *Thomas Jefferson*

Budget Reduction Alternative

Surveyor's Office 2010 - 2011 Net County Cost			\$1,621,551					
Surveyor's Office 2011 - 2012 Personnel Reductions								
Deputy Surveyor		\$134,169						
Surveyor Tech (ERI)		\$77,325						
TOTAL PERSONNEL REDUCTIONS			\$211,494					
Surveyor Office 2011 - 2012 Revenue Offsets								
Increased revenue from intra-county transfers (note 1)		\$110,000						
Increased revenue from external clients (note 2)		\$80,500						
TOTAL REVENUE OFFSETS			\$190,500					
TOTAL Surveyor NCC Reductions			\$401,994					
Surveyor NCC 2011 -2012			\$1,219,557					
Percent change 2010/11 to 2011/12			24.79%					
note 1: Assumes new cost allocation plan in place.								
note 2: Assumes new fee structure in place.								

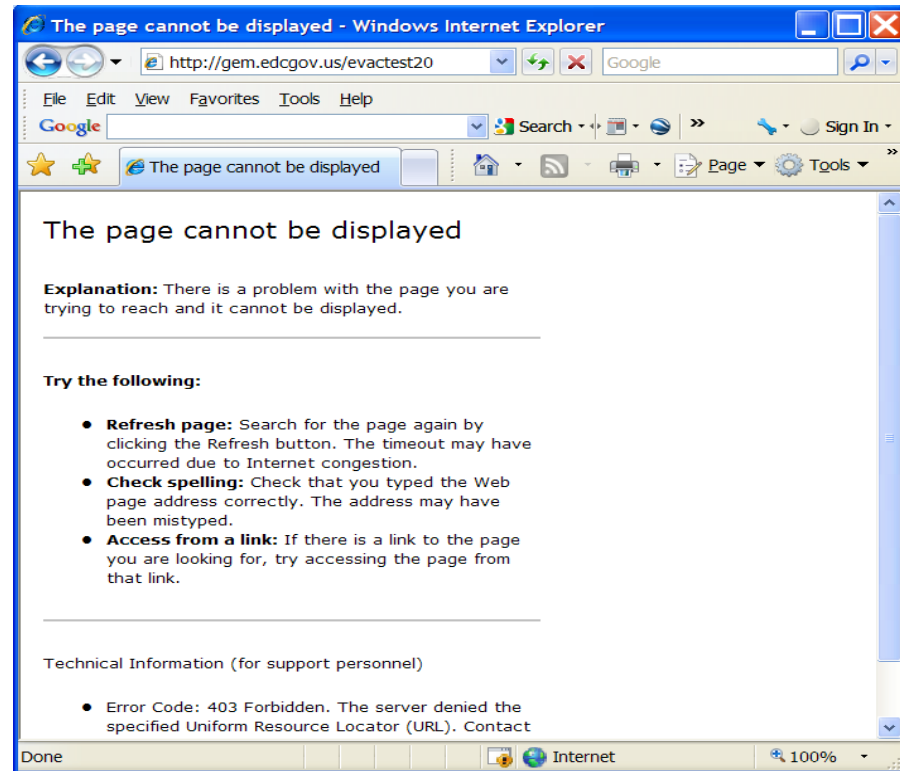
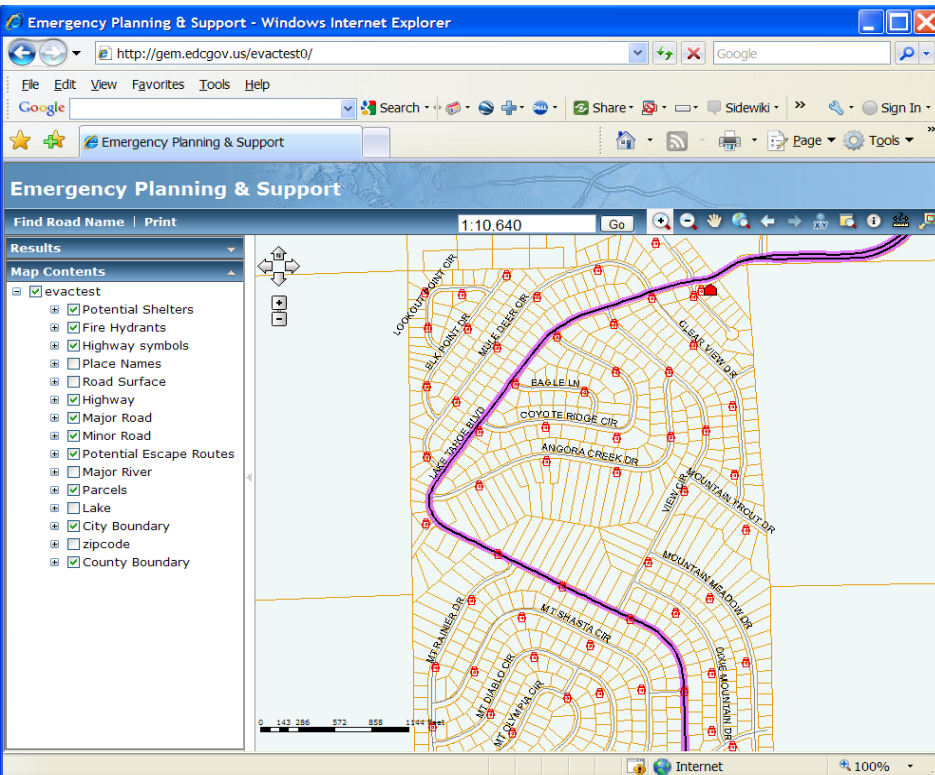
Reduction of staff by one

Internet community emergency preparedness and support application is eliminated.

Impact: Citizen preparedness and emergency response suffers.

Investment loss: \$50,000. **Revenue loss:** \$50,000.

OR

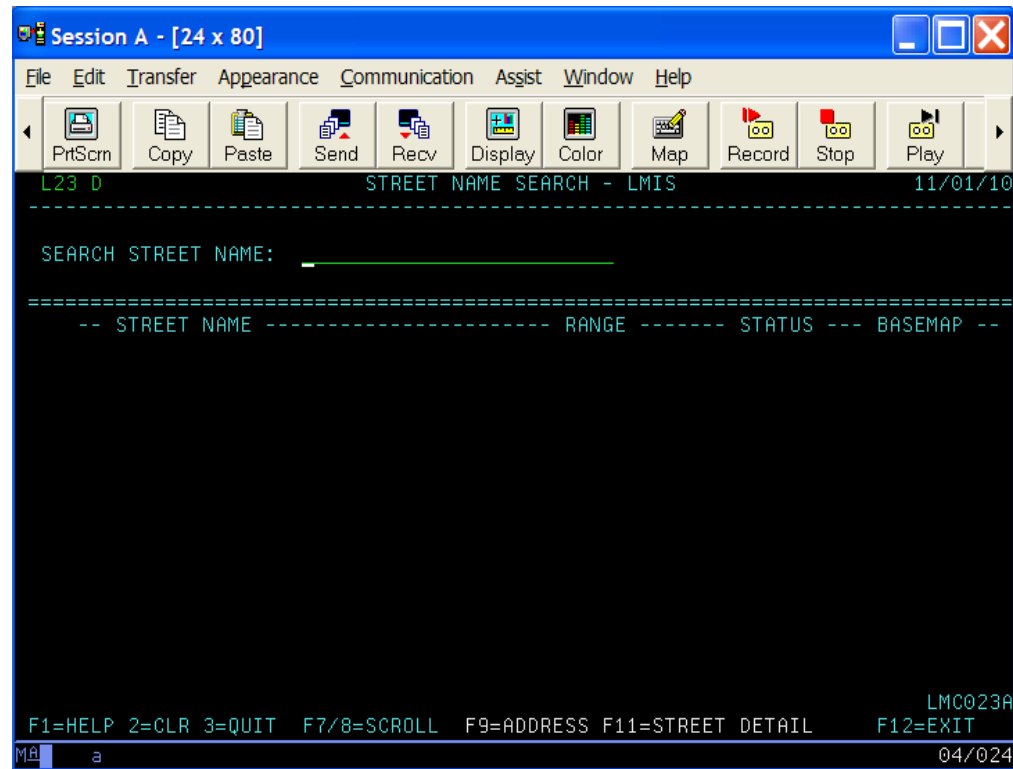
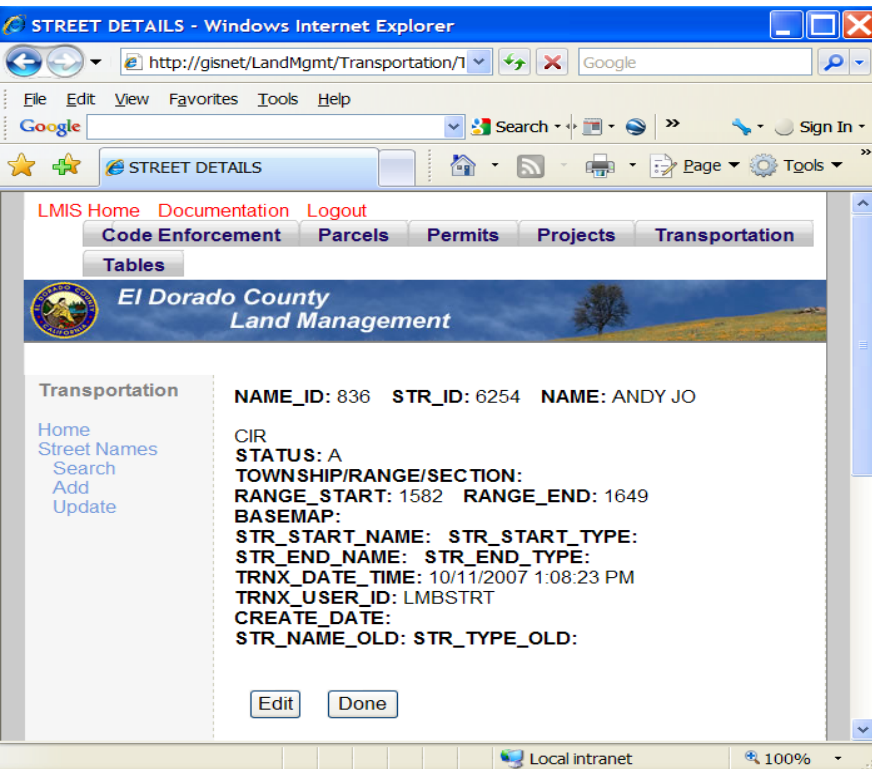


Intranet Addressing application (new front-end for addressing and new streets, and street segments) is eliminated.

Impact: Efficiency and effectiveness of LMIS permitting, e911, public safety, old “green screens” remain.

Investment loss: \$41,000. **Revenue loss:** Undetermined

OR

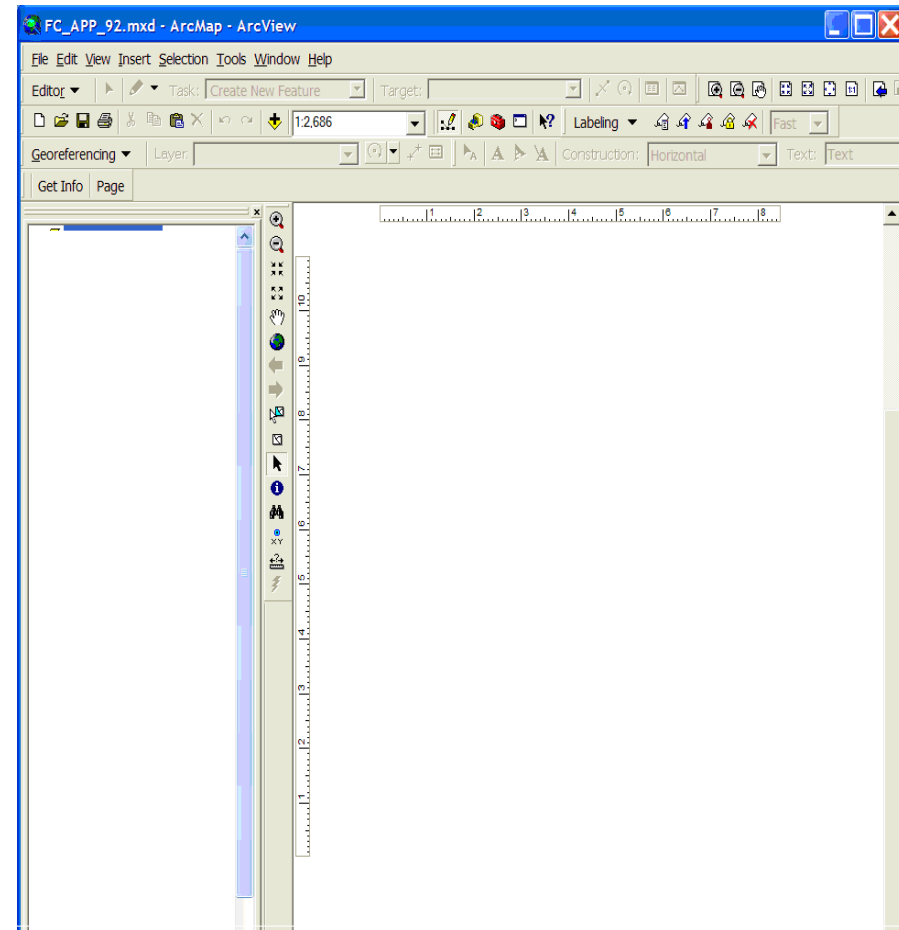
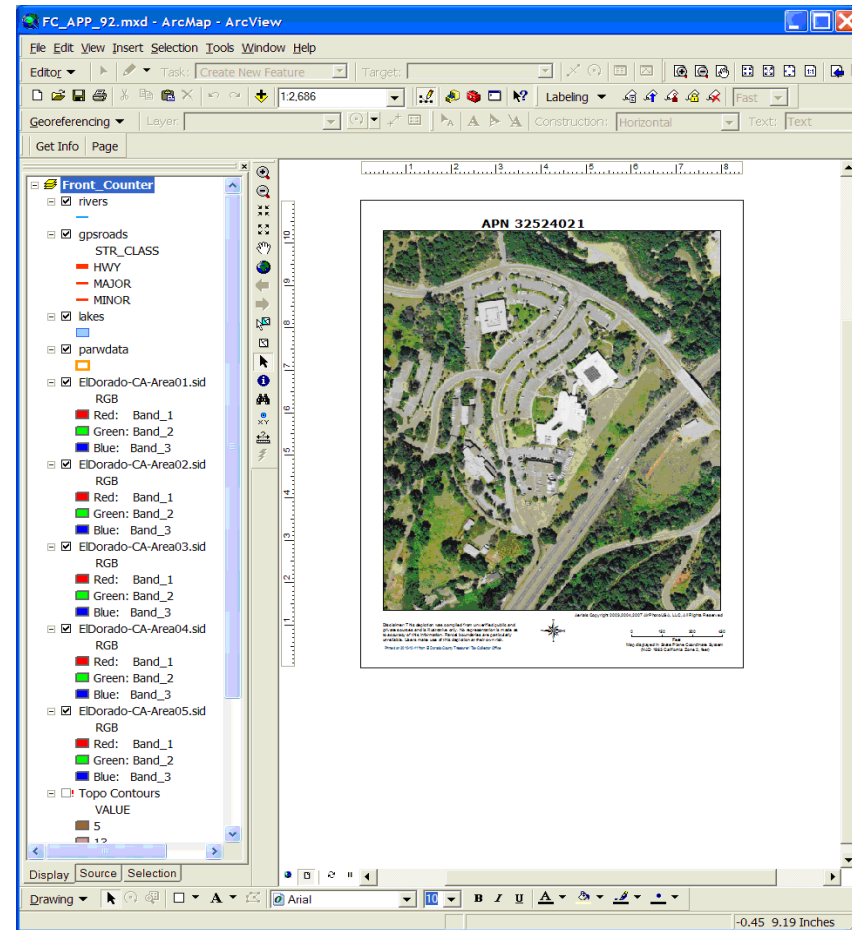


The “front counter application” is eliminated.

Impact: Board, Surveyor, and Tax Collector staff lose use mapping productivity tool.

Investment loss: \$10,000 **Revenue loss:** Undetermined.

OR



Snow load update application is eliminated.

Impact: Permit issuance and processing is degraded.

Investment loss: \$46,000. **Revenue loss:** Undetermined

OR

GIS Layers Used In the Project

County of El Dorado
Ground Snow Project
Process Model

Formulas and Tables

Minimum Water Table

Minimum Water Table	Formulas Table
...	...

Basin Formula
 $WC = 1.591(P) - .00108(7500-E)^2 - 12.88$
 Western Slope Formula (includes Zone X)
 $WC = 1.063(P) - .00287(7500-E)^2 - 15.12$
 Where
 WC = Water Content in inches
 P = Mean annual precipitation at site in inches
 E = Site elevation in Feet
 (Use 7500 if elevation of site exceeds 7500 feet)
 Convert WC to PSF by multiplying WC by 9.20

Can you see a pattern between the ground snow and the elevation? Why?

Calculate the Ground Snow

Populate Ground Snow with the larger of the calculated value and the minimum value

The final step is to overlay the parcel boundaries on the snow grid points. Use these points to determine the minimum and maximum values of all points within the parcel boundary.

SNOW LOAD CALCULATIONS NOT AVAILABLE

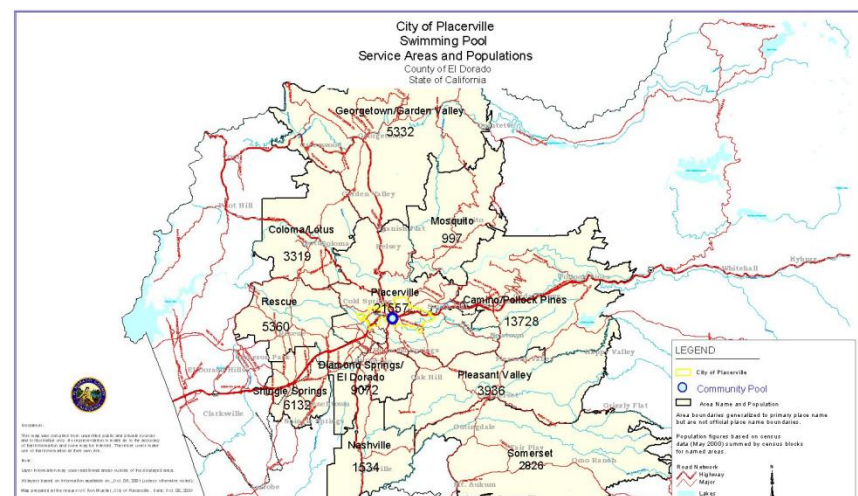
2010 Census data expert is eliminated.

Impact: Market, traffic (TAZ), economic, and demographic analysis can not be done with existing staff.

Investment loss: \$24,000. **Revenue loss:** Significant. (Grants require census data).

OR

Population, income, and demographic data not available or not timely.



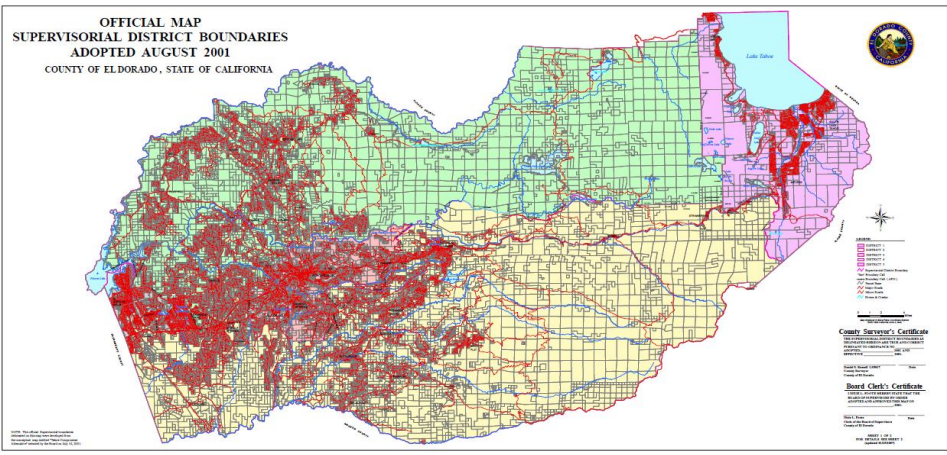
Re-districting is in trouble.

Impact: Supervisorial re-districting schedules at risk. Staff resource assigned and trained for this activity is not available.

Investment loss:

Revenue loss:

OR

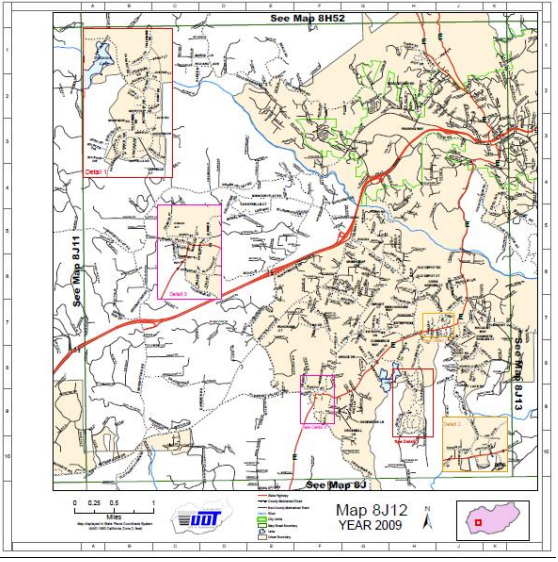
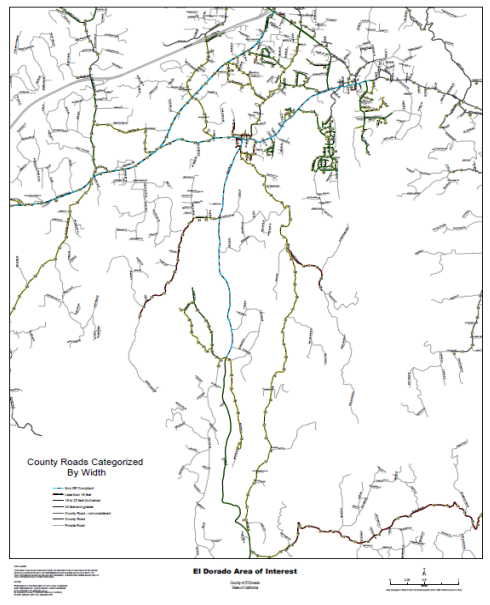


“Red Roads” and transportation integration is eliminated.

Impact: General Plan compliance issues, integration of GIS roads with pavement management, County maintained roads, maintain mileage, and transportation is discontinued.

Investment loss: \$4,000

Revenue loss: Undetermined



OR



Link between parcel, GIS, and permit system is eliminated.

Impact: Permit processing, General Plan Consistency Checklist, Parcel Display, and Parcel review applications go back to paper research and manual review. Permit process is brought to a halt.

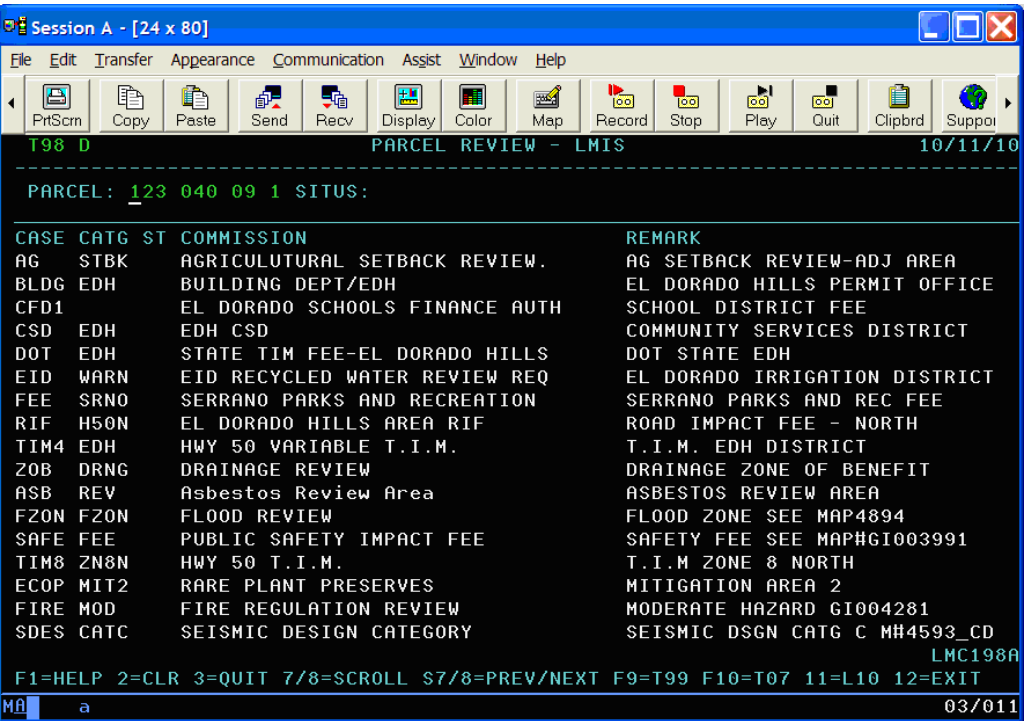
Investment loss:

Revenue loss:

OR

Have applicant determine if any of 315 location based issues apply to their parcel.

Then have County manually verify.

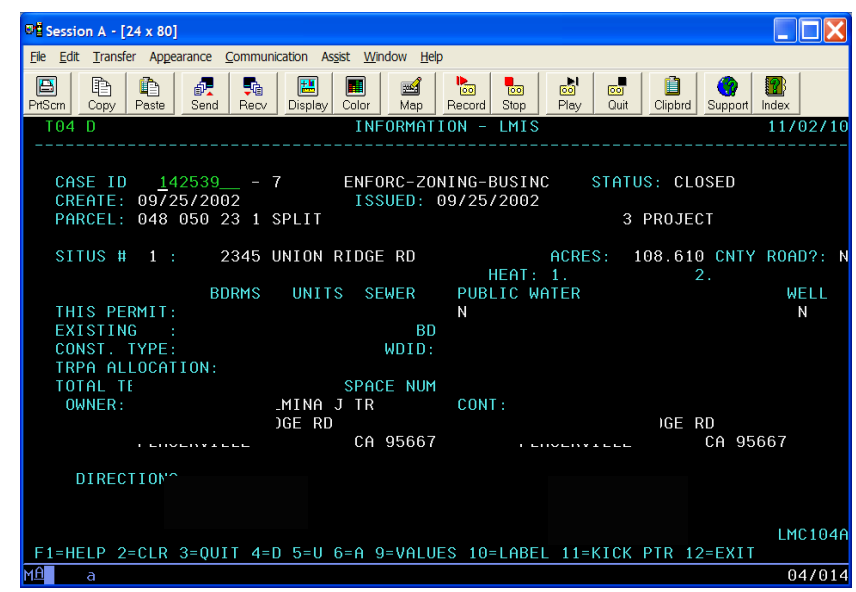
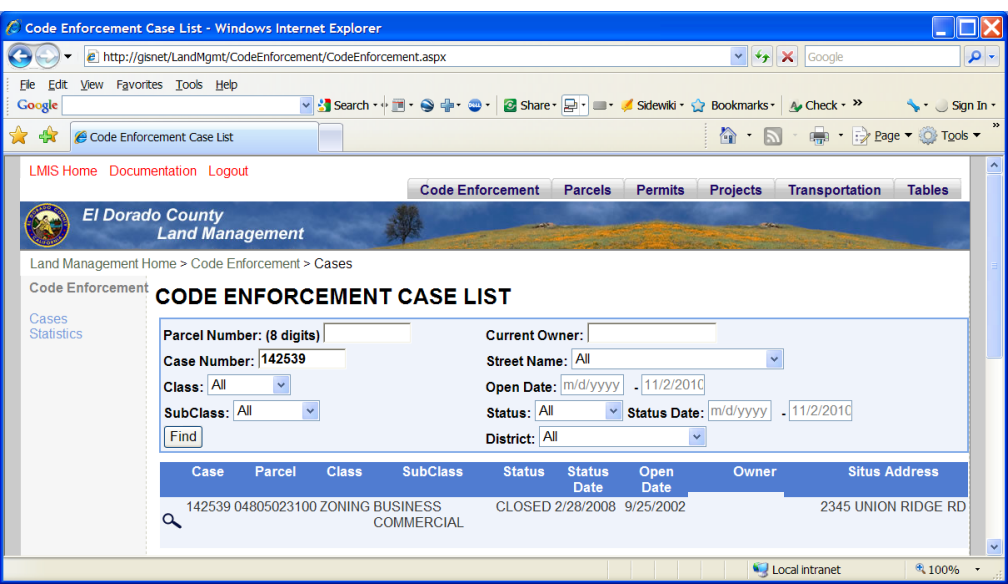


LMISweb application is eliminated.

Impact: Efficiency and effectiveness of LMIS permitting and code enforcement degraded, revert to “green screens”.

Investment loss: \$60,000 **Revenue loss:**

OR



Reduction of staff by two

Parcel geometry database is eliminated.

Impact: Potential enterprise-wide access to GIS parcel data is eliminated.

Parcel “layer” will be copied on request. Every user has their version.

Invest loss: \$170,000.

Revenue loss: Undetermined.

Shared access to GIS servers is eliminated.

Impact: GIS data gets moved to PC. No controlled source of data, degradation would begin immediately.

Investment loss: \$1,500,000.

Revenue loss: \$50,000/yr

Shared software licensing and version control is eliminated.

Impact: GIS users in departments can't communicate too many incompatible versions. Clients do their own installation of software.

Investment loss:

Revenue loss: Undetermined.

GOT NET! Application is eliminated.

Impact: Various users in County lose access to valuable GIS efficiency tools.

Cut and paste Assessor Plats to identify parcels in selected area.

Investment loss: \$10,000. **Revenue loss:** Undetermined

Hundreds of GIS layers would be archived.

Impact: Valuable data mothballed and unavailable.

Investment loss: Years of investment. **Revenue loss:** Significant (data have value to external clients).

Aerial Photo library is eliminated.

Impact: Photo imagery no longer available from GIS. Users manage their own copies. Software will be obsolete and no resources (personnel, hardware, or distribution) to acquire new aerial photos. Only old images available, already a problem.

Investment loss: Years of investment. **Revenue loss:** Significant (data have value to external clients).

Reduction of staff by three or four

Parcel GIS layer is updated only when resources available.

Impact: Data is wrong, not current, or unavailable more often than not. All users of GIS data Ag. Dept to Zoning Admin are using old and tainted data. Data is no longer relevant. GIS is just a static picture.

OR

Road Network is updated only when resources available.

Impact: All addressing, transportation, 911, all emergency vehicles, are using old and tainted data. Users start maintaining their own copies, versions are everywhere.

OR

Only Parcel and Roads are updated.

Impact: Permits can't be issued, school district maps are old and wrong, city boundaries are wrong, asbestos maps are wrong, CSD boundaries are wrong, layers don't agree with parcel base.

OR

LMIS parcel data, projects, permits, and code enforcement left without software support staff.

Impact: Application quickly becomes unusable, fee areas are missing or wrong, permit rules are wrong, permit sign-off becomes manual, and new operational and business processes can't be accommodated. Land development is stopped.

CONCLUSION

Reduce staff by:

- one - eliminates community access to vital information.
 - continues inefficiencies of LMIS.
 - degrades permit process, redistricting, General Plan.
- two - GIS is no longer a shared resource.
 - Revenue capability nearly eliminated.
 - Permit process relies on paper
- three or more -
 - GIS is no longer relevant.
 - Different versions of data are everywhere.
 - LMIS system is not usable.

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Surveyor's Office

Benefits of Alternative

- Surveyor's Office meets “departmental” reduction of 25%.
- LMIS/GIS effectiveness and efficiencies continue to improve.
- Revenue generating applications get built.
- Fee structure in place.
- Strategic plan in place.
- Cost allocation/sharing plan in place.
- Critical staff remains to support revenue streams, public safety applications, re-districting and other census applications.
- NO NEW start-up costs. Investments in people, software, and hardware aren't wasted.