

SANTA ROSA COUNTY SCHOOL DISTRICT SCHOOL PLANNING AND CONCURRENCY MANAGEMENT SCOPE OF SERVICES

PROGRAM FOR RESOURCE EFFICIENT COMMUNITIES, IFAS, UNIVERSITY OF FLORIDA

SRCSO desires professional assistance in developing, applying and maintaining a Geographic Information System (GIS) that supports school facilities planning. PREC/UF will provide consultation and technical support to SRCSO for the development of a School Facilities Planning "Geodatabase" and assist in the application of the "Geodatabase" to school planning decisions.

SRCSO is required by state statute to coordinate with local governments (Santa Rosa County, Milton, Gulf Breeze and Jay) regarding the schools and their relationship to residential development. Chapter 163 F.S. requires that local governments consider public schools in the preparation and implementation of comprehensive plans. Chapter 1013 in turn mandates that school districts coordinate with local governments. The Interlocal Agreement prescribed by Chapter 163.3177 F.S. provides the primary instrument for this coordination.

Desired Outcomes

GIS technology represents a powerful tool capable of improving coordination and decision making related to school planning.

Development of analytical tools to support school planning must reflect the following criteria:

- Professionally accepted methodologies
- Standardized protocols
- Expanded use of public resources and databases
- Consistency with rules and statutes
- Non-proprietary / No restrictions for data sharing and update

GIS applications that support school planning would rely upon the following datasets:

- School characteristics
 - Type, capacity and location of facilities
 - Student address and grade
 - Attendance zone boundaries and
 - Concurrency service area boundaries
- Land Development Data
 - Parcel data including land use code (puse)
 - Address points
 - Comprehensive Plan land use categories (FLUM) for each local government

- Local Government zoning districts
 - Roadway network
 - Development review and building permit activity
- Demographics
 - US Census tract and block data
 - Traffic Analysis Zone (TAZ) data

Utilizing the datasets outlined above, a GIS application specifically designed to support school planning would provide the following capabilities:

- The maintenance and display of data pertaining to schools and school enrollment;
- The maintenance and display of land development information;
- The calculation of Student Generation Multipliers (SGM);
- Analytical support for redistricting decisions
- Analytical support for short term and long term enrollment projections
- Analytical support for Master School Planning (long term and "buildout scenarios")

The project will be undertaken in two distinct phases:

Phase 1: Evaluation of GIS Capacity / Work Program for GIS Application

Although the use of GIS technology in Florida is extensive at all governmental levels, the resources and capacity for applying GIS technology vary considerably among school districts and local governments.

Data Import and Preparation. School data related to facility type, capacity and location is readily available. Attendance zone boundaries and Concurrency Service Area boundaries are typically available in GIS format or can be easily generated.

The availability of GIS data in Florida is extensive and often standardized. For example, parcel data (including addresses and land use) is developed and maintained by county property appraisers under the guidance of the Florida Department of Revenue. Similarly, land development data regarding Comprehensive Plans, zoning, development reviews and roadway networks are readily available from local government sources.

Demographic data at the US Census tract and block level is readily available from public sources. Similarly, population and housing projections are developed to support transportation modelling and are available at the TAZ level.

Two essential datasets are less standardized and often require specialized attention, notably, (1) the geocoding of student addresses and (2) the tracking and reporting of building permit activity.

Data Update and Maintenance. The value of GIS applications can only be fully realized if datasets are properly managed and updated. The assignment of that

responsibility to an agency with an established GIS system including technical support and skill with GIS technology is the best choice.

Geoprocessing Models. The assembly and organization of the datasets described above provides a rudimentary capacity to achieve the desired outcomes. However, more robust models can be developed within the GIS software specifically designed to address recurring analysis and scenario development.

Web-Based Applications. At its most sophisticated level, the Geoprocessing Models can support web-based applications.

Phase 1 is intended to explore the various issues described above in terms of Santa Rosa County's specific needs and capabilities. The following tasks are recommended for Phase 1:

Assignment 1.1. Create Santa Rosa County Geodatabase for School Planning and import available data.

UF will initially design and create a "Geodatabase" suitable for school planning in Santa Rosa County and import readily available data. UF will evaluate the available data to identify issues and deficiencies.

Assignment 1.2. Conduct school planning workshop.

UF will conduct a one day workshop in Santa Rosa County to explore school planning issues and to identify future directions. Participants will include the SRCSD staff, local government staff, property appraiser staff and other professionals associated with school planning and GIS applications in Santa Rosa County. Representatives of the Florida Department of Education and the Florida Department of Economic Opportunity will be invited to attend this workshop

Assignment 1.3. Prepare Recommendations, Work Program and Budget

Based upon the results of the workshop and the stated preferences of the participants, UF will prepare recommendations for the development, application and maintenance of a GIS based system for school planning in Santa Rosa County.

UF will consult with the Florida Department of Education, other school districts and other agencies to prepare a work program and budget for the development and application of a School Facilities Planning Geodatabase for Santa Rosa County.

The work program and budget will consider the assignment of responsibilities for the various aspects of the work to the SRCSD staff and to local governments where resources and commitment are assured.

The work program and budget will also provide options with costs for the development of more robust analytical tools. UF will explore cost sharing for the

development of such tool with the Florida Department of Education, Florida Department of Economic Opportunity and other participating school districts.

Phase 2: Development and Application of a School Facilities Planning Geodatabase for Santa Rosa Schools

Phase 2 is entirely dependent on the results of Phase 1 and will be undertaken only upon approval and funding by SRCSD and/or others.

Timetable & Budget

Workshop: March 2015 (to be scheduled)

Work Program & Budget: April 15, 2015

Budget: \$5,000 (Fixed Fee)

**SANTA ROSA COUNTY SCHOOL DISTRICT
GEOGRAPHIC INFORMATION SYSTEMS (GIS) UPDATE**

ASSIGNMENTS	PREC/UF				
	PI	Staff1	Staff2	Students	PREC / UF
	\$100	\$70	\$70	\$25	Composite
ASSIGNMENT 1: Create Geodatabase for School Facility Planning					
Time (hours)	6	12	0	8	26
Cost	\$600	\$840	\$0	\$200	\$1,640
Meetings (trips)	0	0	0	0	0
Assignment Total	\$600	\$840	\$0	\$200	\$1,640
ASSIGNMENT 2: Conduct School Planning Workshop					
Time (hours)	10	10	0	10	30
Cost	\$1,000	\$700	\$0	\$250	\$1,950
Meetings (trips)	1	1	0	0	2
Assignment Total	\$1,100	\$700	\$0	\$250	\$2,050
ASSIGNMENT 3: Work Program / Budget					
Time (hours)	10	6	0	0	16
Cost	\$1,000	\$420	\$0	\$0	\$1,420
Meetings (trips)	1	0	0	0	1
Assignment Total	\$1,100	\$420	\$0	\$0	\$1,520
TOTAL					
Total Time	26	28	0	18	72
Total Time Cost	\$2,600	\$1,960	\$0	\$450	\$5,010
Total Meetings	2	1	0	0	3
Average Travel Cost per Meeting	\$100	\$0	\$0	\$0	Composite
Meeting Cost	\$200	\$0	\$0	\$0	\$200
Subtotals	\$2,800	\$1,960	\$0	\$450	\$5,210
Totals	\$2,800	\$1,960	\$0	\$450	\$5,210