



Business Plan 2007 – Division of Environmental Health - Florida Department of Health

Mission: “Promote and Protect Health”

Vision: “Healthier Floridians”

Goal: Support and Enhance Environmental Health Technology

Division of Environmental Health– Geographic Information Systems

Trends and Conditions:

The Division of Environmental Health continues to be a front runner in the development and implementation of innovative approaches to data capture, retrieval and analysis. Rapidly changing technology offer rapid pace enhancements in technological support equipment and software. The challenge is one of integration with the existing environment and insuring solid planning for the future. The ability to have data rapidly available and usable by the division has offered an opportunity to explore alternative methods for data management. As the division moves from multiple individualized databases and information storage it becomes increasingly important to secure the data and make it available in a host of new and creative methods. Field level data capture and reporting, GIS in the field, preparedness response and reporting and growth of individual program areas directly impact the ability of staff to provide the required support. As we continue these initiatives the demand for faster systems, rapid development of new systems, replacement of legacy systems and constantly improving hardware support and processing power will continue to be a driving force to support the division.

Division Cost: \$160,000

Division Positions: 2

County Program Cost: \$0

County Positions: 0

Increased demand for IT related documentation, support and processing requirements has become the standard for the department. A new push for security, inventories, standard operating systems and analysis to systems statewide has encompassed the better part of the year. Additionally the demand for improved information and support for deployed disaster response has provided an opportunity to explore satellite communications and networks with the Division of IT. EH has also had the opportunity to establish the ability for the division to COOP with its own integrated mobile network. This offers the division to deploy and remain operational during an event.

The keys to success and the strides necessary to offer Environmental Health unabated success in data availability and technology will thrive with invention and innovation. Quality Environmental Health staff and leadership rely on the information area to do their jobs and provide quality of health to the citizens of Florida. It is the true mission of the Environmental Health technology staff to set its goals high but achievable. This effort will keep Environmental Health as a leader and innovator in its mission and its capabilities.

Core Business Processes

- Identify standards, priorities, and guidelines for implementation of the statewide GIS initiatives.



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- Support division in the preparation, coordination, execution, and monitoring of GIS related grants.
- Develop and implement strategies for attaining the objectives of the Division GIS Strategic Plan;
- Support the division in the design, implementation, and maintenance of Geographic Information Systems related to Environmental Health activities;
- Develop and maintain standards, policies, protocols, and procedures for Geographic Information Systems (GIS) and Global Positioning Systems technologies in support of statewide Division of Environmental Health programs.
- Support Division of Environmental Health preparedness and homeland security activities.
- Direct the design, development, and implementation of web-based GIS projects to disseminate Division of Environmental Health data via the intranet and internet.
- Review and recommend GIS/GPS hardware and software that will support the GIS functions in the Division of Environmental Health.
- Provide technical support for GIS/GPS projects created by end-users at EH headquarters, County Health Department, and preparedness activities.

Short Term Objectives

By January 1, 2008:

- Implement GIS Strategic Plan completed during 2004 to improve Environmental Health GIS initiatives
- Use email surveys to assess GIS needs in the bureau's in the Division of Environmental Health.
- Assess 2007 Business plans to address program specific GIS needs.
- Continue training users in GIS and GPS technologies on a quarterly basis.
- Create/assist in the creation of Internet mapping website/web modules based on ArcIMS/ArcGIS.
- Begin research for field level data capture and reporting of critical information to support preparedness and inspection activities.
- Investigate new and innovative equipment as it pertains to the division and support areas.
- Begin grant application process to establish base funding for Environmental Health GIS activities.
- Establish internet based training modules for County Health Departments.

Long Term Objectives

By January 1, 2010:

- Implement GIS Strategic Plan completed during 2004 to improve Environmental Health GIS initiatives.



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- Assist with the hiring of DOH geographic information officer (GIO) and 3 GIS support staff for IT (Enterprise GIS Resource).
- Design and deploy address geocoding, address validation services for All EH employees.
- Develop integration between enterprise GIS/GPS and the health tracking system for analyzing health outcome data.
- Formulate a routine to establish a live connection with the GIS database and CENTRAX.
- Repair/Enhance DEH field inspection GPS applications.
- Enhance functionality of existing internet based mapping programs for Environmental Health.
- Continue training users in GIS and GPS technologies on a quarterly basis.

Measure #1: Begin the use of online GIS mapping programs.

Division Strategic Plan	Strategy (Program level)	Benchmark	Responsible Party	Target Date (up to 18 months)	Status (What is happening now)
Distribute Environmental Health program data via the intranet/internet	Ensure that 100% of division data and inspection reports are available online.	As stated in strategy	Calvin DeSouza Judith Ippolito	On-going	Currently working with the Division of IT to formalize the process and network infrastructure to begin online mapping.
	<ul style="list-style-type: none"> • Monthly updating of EH program data to the divisions online GIS data download page 	Program data posted to online data download page on a monthly basis.	Calvin DeSouza Judith Ippolito	On-going	Judith is currently working on using ArcGIS model builder scripts to automate/streamline the geoprocessing functions.
	<ul style="list-style-type: none"> • Ensure EhWater is available on the Department of Health intranet domain 	As stated in strategy	Calvin DeSouza Judith Ippolito Charlie Donahue Ruili Lang Division of IT	On-going	EhWater has been approved by IT governance for intranet use. Application moved to IT testing environment

Measure #2: Increase software capabilities and knowledge of GIS within each bureau through trainings offered by division GIS staff and tracked through inventory of skills.

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<p>Increase the proportion of Tribal, State, and local public health agencies use GIS as part of their core business function.</p>	<p>Ensure that 100% of division staff has access to the current GIS software.</p>	<p>As stated in strategy.</p>	<p>Calvin DeSouza Judith Ippolito Division of IT</p>	<p>On-going</p>	<p>All Enterprise software is available on a shared network drive, DOHSGIS02</p>
	<ul style="list-style-type: none"> Distribute needs assessment survey to all EH employees to find all staff interested in GIS 	<p>An electronic data capturing procedure set to poll staff and determine needs to insure that full awareness is always in place.</p>	<p>Calvin DeSouza Judith Ippolito</p>	<p>March 2007</p>	<p>Developing survey for distribution through email.</p>
	<p>Ensure that 100% of division staff interested in GIS is trained in use of software.</p>	<p>As stated in strategy.</p>	<p>Calvin DeSouza Judith Ippolito</p>	<p>On-going</p>	<p>Developing survey for distribution through email.</p>
	<ul style="list-style-type: none"> Conduct quarterly statewide training in desktop GIS Obtain list of needs and complete assessment. 	<p>An electronic data capturing procedure set to poll staff and determine needs to insure that full awareness is always in place.</p> <p>Complete review of EH business plans to gather needs</p>	<p>Calvin DeSouza Judith Ippolito</p> <p>Calvin DeSouza</p>	<p>On-going</p> <p>Will be begin after all business plans have been submitted</p>	<p>Updating training manual to reflect changes in current GIS software. Next training tentatively schedule for March.</p> <p>Will be begin after all business plans have been submitted</p>

Measure #3: Ensure that Environmental Health is strategically in line with the DOH enterprise GIS system.

Division Strategic Plan	Strategy (Program level)	Benchmark	Responsible Party	Target Date (up to 18 months)	Status (What is happening now)
23-2 Ensure that 100% of Division GIS	Assess IT enterprise GIS initiatives with the department.	Full department awareness of goals and	Calvin DeSouza Judith Ippolito	On-going	On going, updates provided at weekly EH IT staff meeting.



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	activities are compatible with DOH enterprise infrastructure.	<ul style="list-style-type: none"> Become involved in the planning and execution of the Department of Health Enterprise GIS environment. 	procedures of department IT activities. Attend monthly geographic coordination committee meeting.	Calvin DeSouza Judith Ippolito	On-going	Elected Co-chair of Geographic coordination committee.
		<ul style="list-style-type: none"> Increase the avenues of participation of Environmental Health in the enterprise solution. 	Environmental Health as a key component on any board or task force for department GIS solutions.	Calvin DeSouza Judith Ippolito	On-going	Environmental Health is participating in numerous committees and groups to ensure our needs and focus are brought to the table
		<ul style="list-style-type: none"> Centralize location of IT policies and procedures. 	Process diagrams explaining IT business flow to EH staff	Calvin DeSouza Judith Ippolito	On-going(some are	Policies and procedures available have been posted to sharepoint

Measure #4: Update/Enhance Centrax to meet EH GIS needs

Division Strategic Plan	Strategy (Program level)	Benchmark	Responsible Party	Target Date (up to 18 months)	Status (What is happening now)
Simplify data extraction process from CENTRAX	Update online Centrax to meet current and future needs in the County EH and the Department.		Judith Ippolito	Constant	Data currently available online.
	<ul style="list-style-type: none"> Automate the Geocoding and publishing of the Centrax Facilities layers 	Automated process that exports and georeferences CENTRAX data.	Norman Doxford Judith Ippolito	Ongoing	Geocoding is still done by hand. Reports are set up to get data from Centrax and OSTDS automatically, but the rest is people driven manual process.

Ensure that all Environmental Health personnel have access to Geographic Information Systems



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	Increase the proportion of all major national, State, and local health data systems that use geographic information systems (GIS) at all levels.	<i>Customer and Market Focus</i> Implement and maintain a policy to ensure users can access GIS resources in a timely manner.	100% Percentage of EH personnel that have access to GIS software and network resources.	Calvin DeSouza Judith Ippolito	On-going	Ongoing throughout year. Several mobile, server, desktop, and web GIS resources are being supported and made available to EH personnel through SharePoint, monthly training sessions, and day-to-day contact.
		Determine areas that need additional GIS resources.	Use business plan to identify division GIS needs.	Calvin DeSouza Judith Ippolito	March 2007	Will be defined by EHGIS Business plan review
		Purchase additional GIS resources if required.	Within three months, Acquisition of resources as defined above.	Calvin DeSouza Judith Ippolito		Pending completion of previous step. Additional resources purchases geared toward support of EH Preparedness.
		Document the best process for maintaining GIS resources	Updates to EHGIS Sharepoint.	Calvin DeSouza Judith Ippolito		Ongoing throughout year. Continuing to document best processes and practices.

Ensure that all Environmental Health personnel can collect GPS field data

Division Strategic Plan		Strategy (Program level)	Benchmark	Responsible Party	Target Date (up to 18 months)	Status (What is happening now)
23-3	Increase use of GIS data collection with EH programs.	<i>Customer and Market Focus</i> Implement and maintain hardware and software to support the collection of field data with Global Positioning Systems (GPS)	100% Percentage of EH personnel have access to GPS software and resources.	Calvin DeSouza Judith Ippolito	Constant	Ongoing throughout year. Several mobile GIS/GPS resources are available to all EH personnel.



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		Assess current state of GPS implementation	Completed during DEH GIS/GPS Strategic Plan effort.	Calvin DeSouza Judith Ippolito	Constant	Completed during DEH GIS/GPS Strategic Plan effort. Current state continues to evolve as technology improves and more users take advantage of GPS resources.
		Determine areas that need additional GPS resources.	GIS needs assessment survey should identify division gaps in GPS usage.	Calvin DeSouza Judith Ippolito	March, 2007	Developing survey for distribution through email.
		Purchase additional GPS resources for the appropriate counties.	GIS needs assessment survey should identify division gaps in GPS usage.	Calvin DeSouza Judith Ippolito	Ongoing	Pending completion of previous step. Additional resources purchases geared toward support of EH Preparedness.
		Coordinate training of field personnel	100% Percent of interested EH personnel that have been trained in the use of GPS	Judith Ippolito	October 31, 2005	Ongoing throughout year