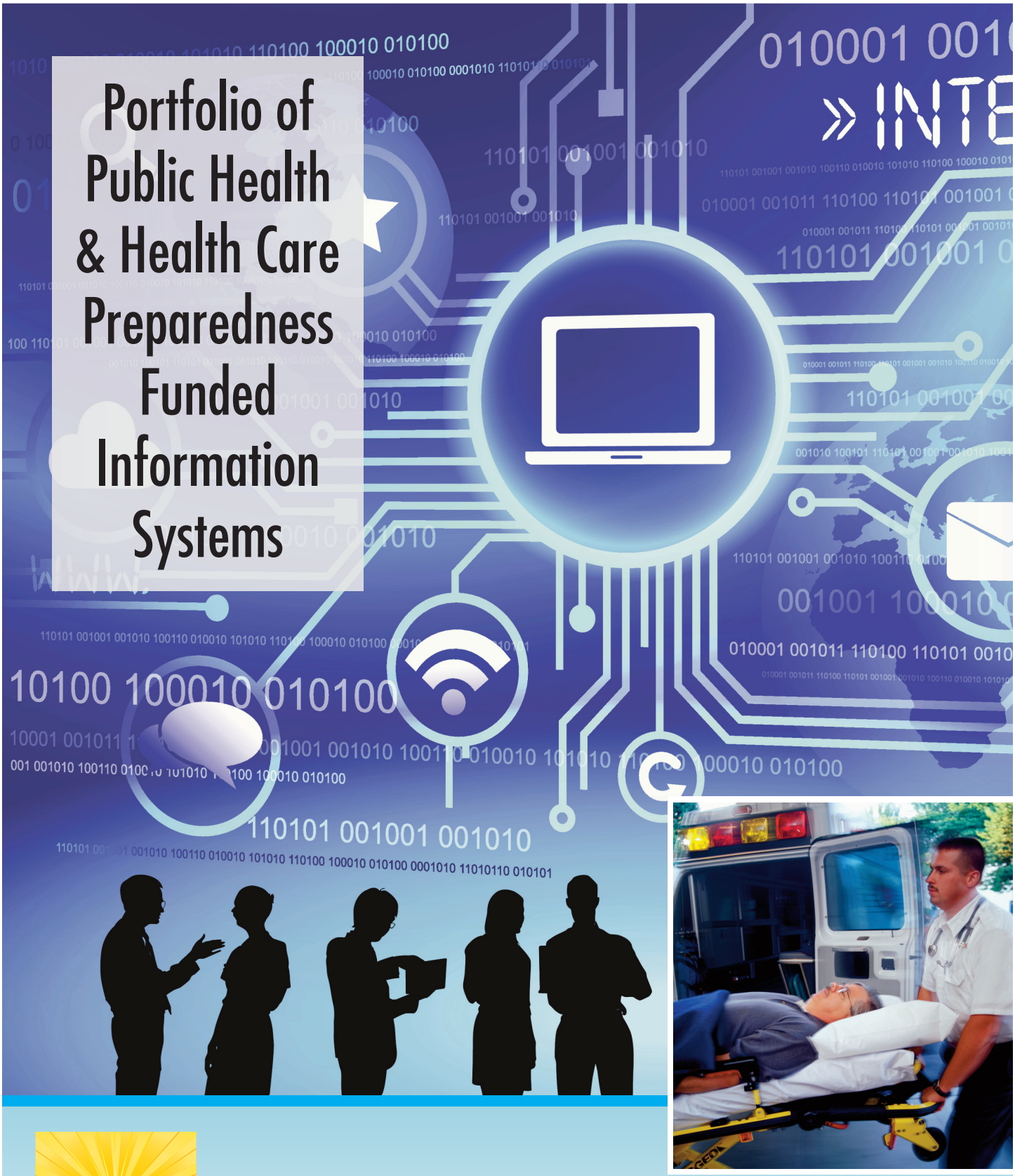
Portfolio of Public Health & Health Care Preparedness Funded Information Systems



Florida Department of Health
Division of Emergency Preparedness and Community Support
Bureau of Preparedness & Response

December 2015

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Introduction

When a public health incident or emergency threatens Florida's residents and visitors the ability to collect precise detailed situational awareness, share data, and receive and deliver fast, accurate and consistent communications can save lives.

Florida faces many threats with the potential for large-scale health consequences, including disease outbreaks, natural disasters and terrorist attacks. Effective preparation and response to public health threats requires commitment and cooperation across state agencies and key partners.

The Florida Department of Health is the lead agency for the state's Health and Medical Emergency Support Function (ESF8) and coordinates preparedness and recovery efforts for incidents and events that impact public health and the health care system.

The Department has a diverse portfolio of innovative systems and applications that have been engaged and tested to maximize health situational awareness and support crucial preparedness, response and recovery activities.

The Department's portfolio of systems and applications include after action report management, responder and stakeholder alerting and notification, hospital and health care facility notification and status management, geographic Information system mapping, patient movement and tracking, project management, resource tracking and management, and risk and hazard assessments. Also available are a series of systems for disease surveillance, tracking, reporting and communications.

The systems are designed to ensure maximum security and provide needed access and user rights. Public Internet pages are viewable by all persons however, individual applications include access through user names and passwords. Specific applications can assign multi-level roles and permissions ranging from administrator to read-only access.

This document describes each of the Division of Emergency Preparedness and Community Support, Bureau of Preparedness and Response, Public Health and Healthcare Preparedness Program online data systems, applications and tools. For purposes of this document, the term system is used to reflect included data systems, applications or tools.

For more information on any of the systems contact Victor Johnson, Systems Integration Administrator at Victor.Johnson@flhealth.gov or 850-245-4346.

Summary of Systems

System	Current Provider or Application	Funding Source	FY 2015-2016 Budget*	Approximate Current User Count
After Action Report Management	AARMS	ASPR HPP	$31,200	120
Alerting and Notification	Everbridge	CDC PHEP	$106,475	27,000 Capacity: 55,000
Communications and Resource Management	EMResource	ASPR HPP	$566,189	25,000
Crisis and Emergency Risk Communications	CERC Portal	CDC PHEP	$0	Average monthly page views Oct-Dec 2015 = 3900
Emergency Operations Plans Search Engine	DOH Maintained	N/A	$0	Not Available
Florida Health Alert Network	FLHAN	CDC PHEP	$96,000	Not Available
Florida Jurisdictional Risk Assessment	FPHRAT	CDC PHEP	$84,800	67 Read-only 114
Geographic Information Services	DOH Maintained GIS	CDC PHEP	$106,000	30+ GIS developers, indeterminate public users
Hazard Vulnerability Data Explorer	HVDE Parsing Tool	CDC PHEP	$0	90
Information Technology Field Operations & Incident Response Resources	DPC	CDC PHEP	$290,416+	67 County Health Departments
Patient Tracking	EMTrack	ASPR HPP	$566,189	1,000
Project Management	Daptiv	CDC PHEP	$43,342	72
Statewide Inventory Management	IRMS	ASPR HPP CDC PHEP	$61,380	250
Surveillance – Disease Outbreak Communications System	Epi-Com	CDC PHEP	$85,000	1,394 53 Forums
Surveillance – Early Notification of Community-Based Epidemics	Essence	CDC PHEP	$0	210 Hospitals 33 Urgent Care Centers
Surveillance – Reportable Disease Case Reports	Merlin	CDC PHEP	$0	67 County Health Departments; unknown others

***Rounded to the nearest dollar – Does not reflect staff related costs – Actual Expenditure may be different**

Primary Purpose and Feature:

- Track strengths and gaps related to public health and medical exercises and real world response activities
- Distribute public health alerts and messages rapidly providing access to timely and relevant information needed to respond to public health events
- Determine health care facility status, bed availability and share situational awareness and communications for a public health emergency event

- Maintain continuity in messaging through pre-approved and ready for use communication tools
- Provide an online repository of public health and medical related response plans
- Offer an online gateway to applications supporting public health preparedness, response and recovery activities
- Assess hazards, risks, capabilities, resources and population vulnerability
- Display information in a visual easily understood mapping format
- Ensure the availability and operation of critical systems during and after an incident
- Track patients and evacuees throughout an incident
- Manage public health preparedness, response and recovery projects and monitor program status and progress
- Maintain real time visibility and management of inventory available for all stages of a public health incident
- Communicate essential information regarding public health issues and share information regarding disease outbreaks
- Guide to a timelier public health response by providing data and tools needed to identify outbreaks or unusual trends
- Identify disease trends, track cases and improve disease prevention programs

Who Uses the Systems?

- Florida Department of Health state and county staff
- Healthcare Coalitions
- State and local agency and organization public health partners and stakeholders
- Florida Medical Reserve Corps
- Florida Crisis Consortium
- State Medical Response and Advanced Surgical and Transport Teams
- Florida Emergency Mortuary Operations Response System
- Division of Emergency Management and Emergency Support Function 8 partners
- Local emergency medical services
- Hospitals and other health care facilities
- Centers for Disease Control and Prevention
- State, hospital and private laboratories

Acronyms

The following acronyms are used in the system fact sheets found in this portfolio

Acronym	Meaning
AAR	After Action Report
AARIP	After Action Report Improvement Plans
AARMS	After Action Report Management System
AHCA	Agency for Health Care Administration
ASPR	Assistant Secretary for Preparedness and Response
BP	Budget Period
BPR	Florida Department of Health, Division of Emergency Preparedness and Community Support, Bureau of Preparedness and Response
BRACE	Building Resilience Against Climate Effects
CDC	Centers for Disease Control and Prevention
CERC	Crisis and Emergency Risk Communications
COOP	Continuity of Operations Plan
COP	Common Operating Picture
DOH	Florida Department of Health
DPC	Disaster Preparedness Consultant
EMS	Emergency Medical Services
ESF8	Emergency Support Function Health and Medical
ESS	Emergency Status System
ESSENCE	Electronic Surveillance System for the Early Notification of Community-Based Epidemics
FAC	Florida Administrative Code
FAQ	Frequently Asked Questions
FAST	Florida Advanced Surgical Transport Team
FEMORS	Florida Emergency Mortuary Operations Response Systems
FLHAN	Florida Health Alert Network
FLPHRAT	Community Resilience Data Set in the Hazard Vulnerability Data Explorer
FPHRAT	Florida Public Health Risk Assessment Tool
GIS	Geographic Information System
HAZMAT	Hazardous Materials
HazVI	All-hazard Vulnerability Index
HPP	Hospital Preparedness Program
HSEEP	Homeland Security Exercise and Evaluation Program
HVDE	Hazard Vulnerability Data Explorer
IRMS	Inventory Resource management System

Acronym	Meaning
IT	Information Technology
JIC	Joint Information Center
MedVI	Medical Vulnerability Index
MRC	Medical Reserve Corps
PAHPRA	Pandemic and All Hazards Preparedness Reauthorization Act
PHEP	Public Health Emergency Preparedness
PHHP	Public Health and Healthcare Preparedness
PHMP	Public Health and Medical Preparedness
PIO	Public Information Officer
PSA	Public Service Announcement
RFID	Radio-Frequency Identification
SERVFL	State Emergency Responders and Volunteers of Florida
SMRT	State Medical Response Teams
SOP	Standard Operating Procedures
SOG	Standard Operating Guide
SoVI	Social Vulnerability index

After Action Report Management

Purpose: The Florida Department of Health has designed an internet-based system to optimize the ability of the Department to track strengths and gaps related to the Hospital Preparedness Program (HPP) and Public Health Emergency Preparedness (PHEP) capabilities. Users access the After Action Report Management System (AARMS) via the Intranet to create After Action Reports and Improvement Plans (AARIP) that are compliant with the Homeland Security Exercise and Evaluation Program (HSEEP). Reports are used to manage and validate corrective actions, as well as to demonstrate measureable system improvement, data trends and best practices.

Primary Features:

- Offers a one-stop system to create, review and search After Action Reports (AAR)
- Tracks and validates best practices and corrective actions that demonstrate measurable system improvements
- Produces reports for all data elements from AARs entered into AARMS
- Documents and supports all HPP and PHEP capabilities in Florida
- Allows for multi-level roles and permissions
- Provides real time status of all corrective actions
- Sends automated email reminders for system tasks

Who Uses AARMS?

- Florida Department of Health planners, training and exercise and other public health staff
- Florida Department of Health public health preparedness partners

Year Implemented	Funding Source	FY 2015-2016 Budget	Current User Count
Initial AAR monitoring via Access database in 2010. Phase 1 of AARMS as Internet based system, released in 2012. Phase 2 AARMS released in 2015.	Assistant Secretary for Preparedness and Response (ASPR) – Hospital Preparedness Program (HPP) Cooperative Agreements	$31,200	120
Authorities/Regulations	ASPR HPP Grant Guidance Budget Period (BP)1 Function 6, Appendix 11; CDC PHEP Grant Guidance BP1 Appendix 9		
Future Planning	Continue ongoing hosting, maintenance and data backup and support enhancements of the test and production AARMS websites.		
Capability	HPP Capability 1 - Healthcare System Preparedness, HPP Capability 2 - Healthcare System Recovery. PHEP Capability 1 - Community Preparedness PHEP Capability 2 - Community Recovery. PHEP and HPP Capability 3 - Emergency Operations Coordination		

Contact Information: For more information contact Katie Pollard at Katie.Pollard@FLHealth.Gov or AARMS.Administration@FLHealth.Gov. Also go to aarms.floridahealthalertnetwork.com.

Alerting & Notification

Purpose: The Florida Department of Health has an established online public health alert communications network capable of rapid distribution of health alerts and messages to a defined set of individuals. The current application for the network that provides real-time secure communications is the Everbridge Mass Notification System. The system provides public health professionals and key response partners timely and relevant access to information necessary to respond to incidents or events that may be of urgent public health consequence.

Primary Features:

- Sends notifications across multiple jurisdictions utilizing multiple devices; email, telephone, text message and fax
- Provides a mobile application for smart phones and tablets
- Provides the ability to confirm receipt of notification
- Provides an online training module
- Provides secure access with user name and password

Who Uses Everbridge?

- Florida Department of Health
- Florida Medical Reserve Corps
- Healthcare Coalitions
- Florida Crisis Consortium
- Florida Emergency Mortuary Operations Response System (FEMORS)
- Florida State Medical Response Teams (SMRT)
- Florida Advanced Surgical and Transport Teams (FAST)
- Agency for Persons with Disabilities
- Local community partners

Year Implemented	Funding Source	FY 2015-2016 Budget	Current User Count
The DOH Notification System was established in 2006. Everbridge became the provider in 2014.	CDC – Public Health and Emergency Preparedness (PHEP) Cooperative Agreement	$106,475	Approximately 27,000 active users Capacity: 55,000
Authorities/Regulations	42 U.S.C. 247d Public Health Emergencies; Chapter 252, Florida Statutes – Emergency Management; Chapter 381, Florida Statutes – Public Health: General Provisions; Department of Health Policy 310-1-15 Health Alert Network		
Future Planning	Continue to review how the notification system can be maximized to increase the ability of public health agencies to electronically exchange data and information. Plans are in place to add partner agency users, expand capacity and reduce costs.		
Capability	PHEP Capability 6 – Information Sharing		

Contact Information: For more information contact Beverly Elliott at beverly.elliott@flhealth.gov or servfl@flhealth.gov. Also go to www.servfl.com.

Communications and Resource Management

Purpose: The Florida Department of Health provides Emergency Support Function 8 (ESF8) health and medical partner's access to an interoperable, secure information sharing solution for determining health care facility status, bed availability and situational awareness. Section 408.821(4), Florida Statutes requires that licensed healthcare facilities providing residential or inpatient services must use an online database approved by the Agency for Health Care Administration (AHCA) to report information regarding the provider's emergency status, planning or operations. AHCA transitioned to EMResource in 2014 replacing the former Emergency Status System (ESS) for health care facility and bed availability reporting and for maintaining situational awareness and communications with local, regional and state emergency partners. The system is co-managed by the Department and AHCA.

Primary Features:

- Uses a direct interface for uploading of licensure data from AHCA's Versa database
- Provides method to enter and display bed availability and facility data comparable with the HAvBED data standards and definitions
- Allows for easy reporting for health care facility users
- Offers customized dashboards
- Provides dynamic jurisdictional Geographic Information Services (GIS) maps
- Uses color coded symbols based on status type
- Provides canned and dynamic reporting capability

Who Uses EMResource?

- Florida Department of Health
- Agency for Health Care Administration
- Healthcare Coalitions
- Health care facilities
- Local community partners
- Local emergency medical services

Year Implemented	Funding Source	FY 2015-2016 Budget	Current User Count
2009	Office of the Assistant Secretary for Preparedness and Response (ASPR) Hospital Preparedness Program (HPP) Cooperative Agreements	$566,189	25,000+
Authorities/Regulations	Section 319C-2 Public Health Service Act as amended by the Pandemic and All Hazards Preparedness Reauthorization Act (PAHPRA) of 2013, Public Law 113-5; Chapter 252, Florida Statutes - Emergency Management; Section 408.821(4), Florida Statutes – Emergency management planning; emergency operations		
Future Planning	Continue to evaluate and develop business requirements that can expand partner use throughout the state.		
Capability	HPP Capability 6 - Information Sharing		

Contact Information: For more information contact Matt Stanford at matt.stanford@flhealth.gov or StateESF8.CPTS@flhealth.gov. Also go to https://intermedix.com/product/product-emr/index.php.

Crisis and Emergency Risk Communications

Purpose: The Florida Department of Health Office of Communications established the Crisis and Emergency Risk Communications Portal (CERC Portal) to enhance Florida's ability to be prepared for and respond to public health emergencies. The site provides pre-approved and ready for immediate use communications tools for Department administrators, directors and Public Information Officers (PIO). The objective of the portal is to maintain continuity in messaging across the state by providing the most up to date and useable products. The site is designed to help fulfil the Department's mission: to promote, protect and improve the health of all people in Florida.

Primary Features:

- Provides direct access for staff through the Department's Intranet home page
- Offers pre-approved materials categorized by Bioterrorism, Chemical Emergencies, Radiation Emergencies, Mass Casualty, Natural Disasters & Severe Weather, Outbreaks & Incidents and other resources, for example, statewide contacts and PIO training information
- Promotes sharing of materials with external partners to encourage consistency and coordination of public information messaging

Who Uses the CERC Portal?

- Florida Department of Health administrators and directors
- Florida Department of Health Public Information Officers
- Florida Department of Health Bureau of Preparedness and Response
- Epidemiology and Environmental Health spokespersons
- Administrative support staff

Year Implemented	Funding Source	FY 2015-2016 Budget	Current User Count
2009	CDC – Public Health and Emergency Preparedness (PHEP) Cooperative Agreement	$0	Average number of page visits per month October-November-December of 2015: 3900
Authorities/Regulations	Public Health and Emergency Preparedness (PHEP) Cooperative Agreement		
Future Planning	Continue to add relevant and necessary topics and provide pre-approved news release templates, talking points, Frequently Asked Questions (FAQ) sheets, Public Service Announcements (PSAs), brochures and flyers for immediate use.		
Capability	PHEP Capability 4 – Emergency Public Information and Warning		

Contact Information: For more information contact the Office of Communications CERC Portal Administrator, 850-245-4111. Internal customers can visit the Intranet home page, under Department Quicklinks, Crisis and Risk Communications or http://dohiws.doh.state.fl.us/Divisions/DEMO/CommsCERC/commhome.html.

Emergency Operations Plans Search Engine

Purpose: The Florida Department of Health Bureau of Preparedness and Response has established an Emergency Operations Plan Search Engine. This resource is designed to serve as a repository for all approved public health and medical related response plans. The repository includes state, county and external plans relevant to health and medical.

Primary Features:

- Provides an online repository for public health and medical related response plans
- Includes Base plans, Functional or Incident annexes or playbooks, planning guides, contingency plans, Standard Operating Procedures (SOP) / Standard Operating Guides (SOG) and job aids
- Allows for a search of plans by jurisdiction, plan type or keyword
- Provides secured access within the Department network
- Serves as a preparedness tool. Does not contain incident action plans or incident specific response plans developed during an incident
- Contains more than 960 plans
- Updated on a routine basis with new and updated plans

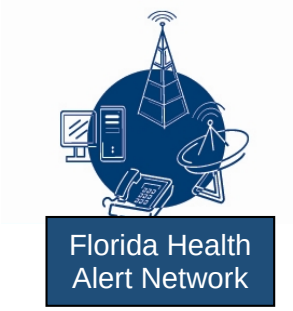
Who Uses Emergency Operations Plan Search Engine?

- Florida Department of Health Bureau of Preparedness and Response
- Florida Department of Health employees
- County Health Department preparedness planners

Year Implemented	Funding Source	FY 2015-2016 Budget	Current User Count
2014	N/A	$0	N/A
Authorities/Regulations	No regulatory authority		
Future Planning	Continue to maintain, enhance and update the repository and seek additional relevant health and medical planning resources.		
Capability	Supports all Office of Assistant Secretary for Preparedness and Response (ASPR) HPP and Centers for Disease Control and Prevention (CDC) PHEP capabilities		

Contact Information: For more information contact Samantha Cooksey at Samantha.Cooksey@flhealth.gov. Internal customers can also go to http://adminapps2.doh.ad.state.fl.us/EmergencyPlanWebSearch/home.aspx.

Florida Health Alert Network



Purpose: The Florida Department of Health has established a Health Alert Network (FLHAN) as an online web-based gateway to applications which support key preparedness, response and recovery activities for health and medical emergency management.

Primary Features:

- Provides situational awareness on the front web page
- Provides access to functionality:
  - Alerting and Notification using the Everbridge Mass Notification System
  - Virtual Joint Information Center (JIC), provides information and resources to Public Information Officers
  - Reporting functions to organize data across applications
  - Dashboards to display data
  - EpiCom system provides real-time exchange of health related information
  - Credentialing/License Verification for Responders
  - State Emergency Responders and Volunteers of Florida (SERVFL) provides information for resources for Emergency Support Function 8, Health and Medical (ESF8) responders and volunteers for the Florida Medical Reserve Corps (MRC)
  - After Action Report Management System (AARMS), to create, review/approve and search After Action Reports
- Requires password for access to individual applications

Who Uses SERVFL?

- Florida Department of Health
- Emergency Support Function 8 Health and Medical partners
- Everbridge Group Managers

Year Implemented	Funding Source	FY 2015-2016 Budget	Current User Count
The Health Alert Network was deployed in 2015	CDC – Public Health and Emergency Preparedness (PHEP) Cooperative Agreement	$96,000 (Hosting)	Not available at this time
Authorities/Regulations	42 U.S.C. 247d Public Health Emergencies; Chapter 252, Florida Statutes – Emergency Management; Chapter 381, Florida Statutes – Public Health: General Provisions; Department of Health Policy 310-1-15		
Future Planning	Expand the capability of the system to better serve the needs of responders and partners.		
Capability	PHEP Capability 6 – Information Sharing		

Contact Information: For more information contact Beverly Elliott at beverly.elliott@flhealth.gov or servfl@flhealth.gov. Also go to www.floridahealthalertnetwork.com (available 2016).

Florida Jurisdictional Risk Assessment

FPHRAT

Purpose: The Florida Department of Health has established a tool for the assessment of hazard risks, capabilities and resources available to counteract hazards. The Florida Public Health Risk Assessment Tool (FPHRAT) assesses the risk of 36 hazards relevant for public health for the state and for each county or region. The online tool includes a feature to calculate the social, medical and hazard vulnerabilities for each census tract, city and county in the state.

Primary Features:

- Produces a jurisdictional risk assessment (Hazard probability, social and medical vulnerability indexes, public health impact, healthcare and behavioral impact scores, critical infrastructure index, capabilities, resources, and community resilience indexes, hazard risk and residual risk)
- Generates aggregated and non-aggregated reports:
  - Capability Assessment, Capability Gaps and Capability Hazard Component
  - Hazard Risk Index and Hazard Risk Index Aggregated
  - Resource Gap (resource readiness gap) and Resource Gap Aggregated
  - Resources Worksheet and Resources Worksheet Aggregated
- Links to a Hazard Vulnerability Data Explorer (HVDE) Parsing Tool (this is a feature derived from the HVDE that provides population counts for census tracts, cities and counties in Florida in areas of high, medium and low social, medical and all hazards vulnerability; it also includes population estimates related to natural hazards and storm surge)
- Contains guidelines and produces charts
- Provides tools for County Capability Assessments and County Resources Assessments
- Provides secure access through log in and password with an option for read-only user log in
- Creates a default account for users with administrative rights

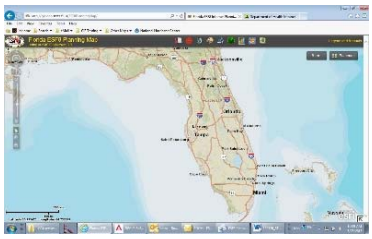
Who Uses FPHRAT?

- Florida Department of Health and County Health Department preparedness staff
- Healthcare Coalitions
- Emergency Support Function 8 Health and Medical partners
- Division of Emergency Management

Year Implemented	Funding Source	FY 2015-2016 Budget	Current User Count
2013-2014	CDC – Public Health and Emergency Preparedness (PHEP) Cooperative Agreement	$84,800	Administrative rights: 9 Default users: 67 Read-only users: 114.
Authorities/Regulations	Public Health and Emergency Preparedness (PHEP) Cooperative Agreement		
Future Planning	Continue marketing, maintenance and improvement of the tool.		
Capability	PHEP Capability 1 – Community Preparedness		

Contact Information: For more information contact Dr. Sonia McNelis at Sonia.McNelis@flhealth.gov
Also go to https://flphrat.com.

Geographic Information Services



Purpose: The Florida Department of Health personnel and response partners need information displayed in a format that can be easily comprehended. Mapping makes complex information instantly comprehensible in a way not possible with text or tables. A common Geographic Information System (GIS)-based server network makes data maintained by various DOH divisions readily accessible for analysis and visual displays both within the Department and externally such as the map feeds to the Florida Division of Emergency Management Geospatial Assessment Tool for Operations and Response (GATOR). GIS has been adopted for all phases of emergency management--planning, mitigation, preparedness and recovery as well as training and exercise--not just response activities. Wireless technologies and web-based GIS applications have also enhanced the coordination of response efforts.

Primary Features:

- Provides over 20 category sets of health care provider locations available to internal and outside GIS developers
- Provides over 18 category sets of environmental health locations available to internal and outside GIS developers
- Provides over 26 published map services that are available to internal and outside GIS developers
- Provides over 7 web-based map services that are hosted by the Department's Internet and external servers
- Provides GIS developers for ad hoc mapping and geographical analysis

Who Uses GIS Services?

- Florida Department of Health planners and GIS developers
- Division of Emergency Management GIS developers (GATOR)
- External response partners

Year Implemented	Funding Source	FY 2015-2016 Budget	Current User Count
2004. Prior to 2004 GIS existed as individual unit applications.	CDC – Public Health and Emergency Preparedness (PHEP) Cooperative Agreement	$106,000	30+ GIS developers, indeterminate public users
Authorities/Regulations	42 U.S.C. 247d Public Health Emergencies; Chapter 252, Florida Statutes – Emergency Management; Chapter 381, Florida Statutes – Public Health: General Provisions; Department of Health Policy 310-1-15 Health Alert Network		
Future Planning	Maintain system hardware and software to current standards Develop and deploy wireless applications for editing and routing		
Capability	HPP Capability 1 - Healthcare System Preparedness PHEP Capability 7 - Mass Care PHEP Capability 13 - Public Health Surveillance and Epidemiological Investigation		

Contact Information: For more information contact Robert Maiden. Also refer to http://gis.doh.state.fl.us/ESF8PlanningMap/ or go to www.floridahealth.gov and enter ESF8 Planning Map in the search box.

Hazard Vulnerability Data Explorer (HVDE)

Purpose: The Florida Department of Health uses a Geographic Information System (GIS)-based widget and database that provides exploration, comparison and spatial query capabilities regarding population at risk in areas with low, medium and high social vulnerability index (SoVI), medical vulnerability index (MedVI), and all-hazard vulnerability index (HazVI). In addition, this tool provides a community resilience data set (FLPHRAT) with information regarding jurisdictional risk assessments and community resilience, and data of the Building Resilience Against Climate Effects program (BRACE). BRACE anticipates climate impact and assesses related vulnerability. This tool does not require a login password.

Primary Features:

- Has the ability to search by attributes (e.g., identify the areas with high social vulnerability and high medical vulnerability)
- Allows searches by graphics (e.g. identify the areas intersecting a polygon drawn by the user)
- Displays maps, statistics for the selected features and display and export selected feature data
- Provides ability for a variety of data searches:
  - General Population and Social, Medical and All-hazards Vulnerability
  - Population at risk for flooding, flash flooding, earthquake, fire hazard, hurricane wind and storm surge hazard, predicted heat, drought and sea level rise hazards
- Includes a downloadable HVDE parsing tool: Excel version of the tool that displays a set of pivot tables based on the user's interest

Who Uses Hazard Vulnerability Data Explorer?

- Florida Department of Health preparedness planners
- Division of Emergency Management planners

Year Implemented	Funding Source	FY 2015-2016 Budget	Current User Count
2013 -2014	CDC – Public Health and Emergency Preparedness (PHEP) Cooperative Agreement	$0	90
Authorities/Regulations	Public Health and Emergency Preparedness (PHEP) Cooperative Agreement		
Future Planning	Bring to Department server, continue marketing and update user's manual		
Capability	PHEP Capability 1 – Community Preparedness		

Contact Information: For more information contact Dr. Sonia McNelis at Sonia.McNelis@flhealth.gov Internal customers can also go to http://dohiws/Online_Systems/index.html and select the Hazard Vulnerability Data Explorer Parsing Tool under Emergency Preparedness & Community Support.

Information Technology Field Operations & Incident Response Resources

Purpose: The Florida Department of Health has established an Information Technology (IT) Field Operations mission ready Incident Response Team of Disaster Preparedness Consultants (DPC) to ensure critical local systems remain available and operational during and after any incident. During a public health emergency, the Department is responsible for ensuring the availability of IT and IT resources related to mission essential functions. The Centers for Disease Control and Prevention (CDC) funds equipment and supplies necessary to support the team and sustain IT disaster preparedness and recovery equipment.

Primary Features:

- Offers on-call IT readiness and response
- Supports continuity of operations mission essential functions, critical applications and communication needs
- Works closely with local System Administrators, COOP Planners and Regional Emergency Response Advisors in implementing health preparedness technical requirements into IT infrastructure
- Supports local, regional and state setup and reestablishment of IT Infrastructure
- Includes mobile recovery service equipment and software
- Conducts exercises and tests of equipment and ability to recover services and applications
- Provides satellite data services, temporary Intranet/Internet services, asset and data recovery services, voice and video conferencing, radio communications, alternate location and field response and portable power generation capability
- Provides mobile communication units

Who Uses IT Field Operations and Resources?

- Florida Department of Health
- County Health Departments
- Emergency Support Function 8 Health and Medical deployed teams

Year Implemented	Funding Source	FY 2015-2016 Budget	Current User Count
2003	CDC – Public Health and Emergency Preparedness (PHEP) Cooperative Agreement	$290,416	67 County Health Departments
Authorities/Regulations	Chapter 282, Florida Statutes – Communications and Data Processing		
Future Planning	Continue to explore ways to effectively consolidate equipment and maximize use of equipment and resources.		
Capability	PHEP Capability 6 – Information Sharing		

Contact Information: For more information contact Lora Simpson at Lora.Simpson@flhealth.gov

Patient Tracking

Purpose: The Florida Department of Health in coordination with the Division of Emergency Management and Healthcare Coalitions, develops, refines and sustains a process to track patients and/or have access to an electronic patient tracking system during an incident. The Department uses EMTrack as a web-based, multi-functional patient and evacuee tracking system that supports tracking people, pets and associated property and equipment throughout an incident. Its intuitive design supports a secure common operating picture that facilitates interoperable communications and situational awareness during emergencies of any scale, such as mass casualty, mass fatality, large-scale preplanned events and evacuation incidents that require a coordinated response.

Primary Features:

- Offers support coordination of multiple evacuations - critical and comprehensive views of the incident for progressive and spontaneous evacuations
- Allows hospitals to accurately and effectively track medical equipment and patient belongings both pre and post-evacuation
- Allows delivery of important compliance requirements - hospitals can easily provide the necessary data and reports regarding location, condition and destination of evacuated patients
- Provides an integrated common operating picture (COP) of the evacuation incident to local, regional, state and multi-state users
- Results in using data captured prior to and during the evacuation to expedite patient re-admissions once the hospital reopens
- Provides standard and ad-hoc reports to assess, evaluate and implement

Who Uses EMTrack?

- Florida Department of Health
- Agency for Health Care Administration
- Hospitals and Healthcare Coalitions
- Local community partners
- Local emergency medical services

Year Implemented	Funding Source	FY 2015-2016 Budget	Current User Count
2009	Office of the Assistant Secretary for Preparedness and Response (ASPR) Hospital Preparedness Program (HPP) Cooperative Agreements	$566,189	1,000
Authorities/Regulations	Section 319C-2 Public Health Service Act as amended by the Pandemic and All Hazards Preparedness Reauthorization Act (PAHPRA) of 2013, Public Law 113-5; Chapter 252, Florida Statutes - Emergency Management; Section 408.821(4), Florida Statutes – Emergency management planning; emergency operations		
Future Planning	Continue to evaluate and develop business requirements that can expand partner use throughout the state.		
Capability	HPP Capability 6 - Information Sharing		

Contact Information: For more information contact Matt Stanford at matt.stanford@flhealth.gov or StateESF8.CPTS@flhealth.gov. Also go to https://www.intermedix.com/product/base/comingsoon-emtrack.php.

Project Management

Purpose: The Florida Department of Health Bureau of Preparedness and Response selected the Daptiv application as the Public Health and Healthcare Preparedness (PHHP) Program's project management tool. Program managers and team members use this tool to monitor program status and progress for more than 25 federal and Florida-defined capabilities. Daptiv has customized screens, known as dynamic applications. Dynamic applications have been created to capture data for federal and state reports, change (scope, schedule or cost) management process and monthly encumbrances. Daptiv has a robust reporting component that enables users to generate canned reports or build ad-hoc reports.

Primary Features:

- Includes a variety of dashboard views for monitoring program status and progress
- Offers real-time project management
- Leverages wizarding tool logic to create customized screens and reports
- Allows for application changes to be implemented in near-real time
- Enables tracking of issues, tasks and documents
- Hosts project management tools such as Gantt charts, project and task scheduling, milestone setup and prioritizing deliverables
- Supports third party tools (e.g., MS Excel and Project)

Who Uses Daptiv?

- Bureau of Environmental Health PHHP program managers and team members
- Bureau of Epidemiology PHHP program managers and team members
- Bureau of Preparedness and Response program managers and team members
- Bureau of Public Health Laboratory PHHP program managers and team members
- Bureau of Public Health Pharmacy PHHP program managers and team members
- Office of Communications PHHP program managers and team members

Year Implemented	Funding Source	FY 2015-2016 Budget	Current User Count
2007	CDC Public Health Emergency Preparedness (PHEP) Cooperative Agreements	$43,342	Active Administrators: 3 Active Users: 72
Authorities/Regulations	Supports strategic planning process		
Future Planning	Continue to review how the application can be leveraged to manage yearly projects at capability, functional unit and portfolio view level.		
Capability	Supports all Office of the Assistant Secretary for Preparedness and Response (ASPR) HPP and Centers for Disease Control and Prevention (CDC) PHEP capabilities as well as Florida-defined capabilities		

Contact Information: For more information contact Kimberly Jenkins at Kimberly.Jenkins@flhealth.gov.

Statewide Inventory Management

Purpose: The Florida Department of Health has an online statewide inventory management system. The current application for this system is the Inventory Resource Management System (IRMS) 360 Enterprise by Upp Technology. IRMS is a supply chain inventory management system. The system provides real time visibility of inventory levels in multiple theaters across Florida. The system allows global viewing of assets for preparedness considerations during all stages of an incident.

Primary Features:

- Has real-time visibility for increased inventory accuracy and operational efficiencies
- Allows global searches-multiple warehouses using same items list
- Includes Inventory lot control and expiration date management to monitor the validation and verification of products to ensure proper and safe handling of perishable and date-sensitive items as well as hazardous materials (HAZMAT)
- Has Radio-Frequency Identification (RFID) capability to wirelessly transfer data for identifying and tracking assets
- Allows multiple users access simultaneously
- Allows flexible naming and typing supporting all desired product definitions, including using National Drug Codes with optional integration to the First Data National Drug Directory
- Offers serialization supporting end-to-end medical and other equipment tracking
- Ensures end-to-end transaction auditing to U.S. FDA 21 CFR Part 11 standards providing a secure or cold storage chain of custody; as reverse logistics manages critical product recalls
- Offers the ability to enter/receive off of purchase orders and track by grant and fiscal year

Who Uses IRMS?

- Florida Department of Health Bureau of Statewide Pharmaceutical Services
- Florida Department of Health Bureau of Preparedness and Response
- County Health Departments and Healthcare Coalitions
- Florida Emergency Mortuary Operations Response System (FEMORS)
- State Medical Response Teams (SMRT)
- Florida Advanced Surgical Transport Team (FAST)

Year Implemented	Funding Source	FY 2015-2016 Budget	Current User Count
The DOH Inventory Management System was established in 2005. IRMS became the provider in 2009.	ASPR Hospital Preparedness Program (HPP) and CDC Public Health Emergency Preparedness (PHEP) Cooperative Agreements	Total $61,380 CDC $39,846 ASPR $21,534	250
Authorities/Regulations	42 U.S.C. 247d Public Health Emergencies; Chapter 252, Florida Statutes – Emergency Management; Chapter 381, Florida Statutes – Public Health: General Provisions		
Future Planning	Continue to review how the inventory system can be maximized. Continue to recruit users at the county and coalition level in order to present the global picture needed for advanced planning.		
Capability	HPP Capability 3 - Emergency Operations Coordination PHEP Capability 8 - Medical Countermeasure Dispensing PHEP Capability 9 - Medical Materiel Management and Distribution		

Contact Information: For more information contact Sherry Watt at Sherry.Watt@flhealth.gov.

Surveillance – Disease Outbreak Communications

Purpose: The Florida Department of Health uses EpiCom as a secure outbreak communications system and moderated message board. EpiCom offers staff and partners the ability to post messages related to suspected, probable or confirmed contagious diseases or outbreaks of public health significance. Users can post follow-up messages to report any similar or related disease activity in their area. The system is used to communicate essential information regarding public health issues to partners throughout the state. It is used to share information regarding disease outbreaks, food recalls, disasters and product recalls. The system also shares epidemiology newsletters, Centers for Disease Control and Prevention (CDC) health notifications and investigation guidance.

Primary Features:

- Combines an interactive, moderated message board with alerting capabilities
- Prevents accidental circulation of confidential or sensitive information through review of messages by Subject Matter Experts prior to posting
- Provides secure forums for sharing information
- Allows users to set personal preferences to receive messages on topics of interest
- Offers users the option to receive immediate email notification of new posts or choose a daily batched recap of messages

Who Uses EpiCom?

- Florida Department of Health Staff. Although it began as a Bureau of Epidemiology system, it is now used by the Bureaus of Immunizations, Environmental Public Health Medicine and Preparedness & Response.
- County Health Department staff including epidemiologists
- Public health partners in Florida and the U.S. Virgin Islands
- Hospital infection control practitioners
- Centers for Disease Control and Prevention

Year Implemented	Funding Source	FY 2015-2016 Budget	Current User Count
2003	CDC – Public Health and Emergency Preparedness (PHEP) Cooperative Agreement	$85,000	1,394 Users 53 Forums
Authorities/Regulations	Section 381.0031, Florida Statutes – Epidemiological research; report of diseases of public health significance to department; Chapter 64D-3, Florida Administrative Code (FAC)		
Future Planning	Continue to maintain, enhance and promote use of the system		
Capability	PHEP Capability 13 – Public Health Surveillance and Epidemiological Investigation		

Contact Information: For more information contact EpiCom.Administrator@flhealth.gov or go to www.floridahealth.gov and enter EpiCom in the search box. To register go to http://servfl.com and click on EpiCom on the left hand menu.

Surveillance – Early Notification of Community-Based Epidemics

Purpose: The Florida Department of Health uses a series of system for disease surveillance, reporting and notification. ESSENCE is a secure Electronic Surveillance System for the Early Notification of Community-Based Epidemics (ESSENCE). ESSENCE-FL provides state and local epidemiologists access to data, analytic tools and data visualizations that enhance their ability to detect outbreaks of disease in a timelier manner. It also provides the ability to conduct routine descriptive epidemiologic analysis, and to monitor morbidity and mortality trends across multiple data sources. This system of public health surveillance emphasizes the use of near real-time pre-diagnostic data and statistical tools to detect and characterize unusual activity for further public health investigation. The objective is to provide the data and tools needed to identify outbreaks or unusual trends before they would otherwise be detected, leading to a quicker public health response.

Primary Features:

- Includes five data sets; Acute care visits, Merlin case data, Florida Poison Information Center network data, Florida Office of Vital Statistics mortality data and Assistant Secretary for preparedness and Response (ASPR) mission data. It is the only system in the country to include reportable disease and mortality data
- Uses near real-time data
- Offers diverse data visualizations and dashboards to help characterize current syndromic and disease trends
- Results in information that can be used for outbreak detection, situational awareness and surveillance of post-hurricane health problems
- Allows the ability to export graphics and summary statistic tables to include in county reports to stakeholders

Who Uses ESSENCE?

- Florida Department of Health Epidemiologists
- County Health Department epidemiology staff
- Hospital staff
- Specific health education program staff

Year Implemented	Funding Source	FY 2015-2016 Budget	Current User Count
2007	CDC – Public Health and Emergency Preparedness (PHEP) Cooperative Agreement	$0*	210 Participating Hospitals (out of 221 total hospitals) 33 Participating Urgent Care Centers
Authorities/Regulations	Section 381.0031, Florida Statutes – Epidemiological research; report of diseases of public health significance to department; Chapter 64D-3, Florida Administrative Code (FAC).Florida Administrative Code, Chapter 64D-3		
Future Planning	Continue to work to onboard remaining hospitals. Continue to encourage County Health Departments to initiate hospital recruitments.		
Capability	PHEP Capability 13 – Public Health Surveillance and Epidemiological Investigation		

*Does not reflect staff related costs

Contact Information: For more information contact Essence_Help@flhealth.gov or go to www.floridahealth.gov and enter Surveillance Systems in the search box.

Surveillance – Reportable Disease System

Purpose: The Florida Department of Health uses Merlin as a web-based reportable disease surveillance system. Merlin serves as the state's repository of reportable disease case reports. The system has evolved from a data entry and management system for collecting state reportable disease data to a system that is used to track cases, identify disease trends and improve disease prevention programs.

Primary Features:

- Capitalizes on being part of an integrated surveillance and outbreak management system reducing redundancy in development costs
- Includes case management features, data quality reports, performance management features, data summary and visualization features
- Receives electronic laboratory reports from hospitals and private laboratories and the state public health laboratories
- Contains a fully functional and integrated outbreak management module
- Links electronic laboratory reports to cases in the outbreak module
- Uses reportable disease case data input daily by county staff
- Allows access to the system and tasks based on assigned user roles
- Evaluates every case through system-applied decision support algorithms to determine if it meets the surveillance case definition and automatically assigns a case classification of confirmed, probable or suspected
- Generates individual review of high priority diseases by a state level subject matter expert to insure accuracy, completeness and to look for trends
- Provides automated work flows for some diseases allowing more time for investigation work

Who Uses Merlin?

- Florida Department of Health staff
- County Health Department epidemiology staff
- State public health, hospital and private laboratories

Year Implemented	Funding Source	FY 2015-2016 Budget	Current User Count
2001	CDC – Public Health and Emergency Preparedness (PHEP) Cooperative Agreement	$0*	67 County Health Departments Unknown other
Authorities/Regulations	Section 381.0031, Florida Statutes – Epidemiological research; report of diseases of public health significance to department; Chapter 64D-3, Florida Administrative Code (FAC)		
Future Planning	Continue to maintain, enhance and promote use of the system		
Capability	PHEP Capability 13 – Public Health Surveillance and Epidemiological Investigation		

*Does not reflect staff related costs

Contact Information: For more information contact Merlin.Helpdesk@flhealth.gov or go to www.floridahealth.gov and enter Surveillance Systems in the search box.

Systems Integration Internal Support

Purpose: In addition to managing a portfolio of systems and applications to maximize health situational awareness and support preparedness, response and recovery activities, the Systems Integration Section provides technical support to system users. The section also provides the Bureau of Preparedness and Response miscellaneous technical assistance, support and problem solving activities.

Primary Features:

- Monitors internal and external web pages including SharePoint, Hurricane Resource Center, Crisis and Risk Communications website, and Emergency Preparedness & Response external website. Assists page owners in updating and maintaining pages
- Provides IT assistance for software and hardware malfunctions and problems
- Participates in web team webinars and training sessions
- Assists in set up and production of large meetings and webinars
- Helps to coordinate mass mailings
- Offers guidance on preparing for meetings and conference calls
- Establishes IT resources for new employees
- Conducts training sessions on IT related topics
- Maintains administrator rights and provides final approval of entries to Bureau of Preparedness and Response (BPR) calendar
- Provides back up assistance to other Bureaus and Divisions as requested

Who Uses Internal Support?

- Bureau of Preparedness and Response Staff
- Department of Health Executive Leadership

Contact Information: For more information contact Barbara Liberti at Barbara.Liberti@flhealth.gov or Rob Casavant at Robert.Casavant@flhealth.gov .