NLM Lost Person Finder (LPF) Project









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A Project of the National Library of Medicine (NLM), in Support of the Bethesda Hospitals' Emergency Preparedness Partnership (BHEPP)

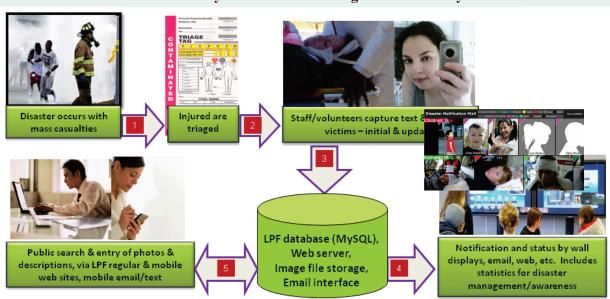


BHEPP consists of 4 neighboring Maryland institutions:

- > Suburban Hospital/Johns Hopkins Medicine
- ➤ National Naval Medical Center (NNMC)
- ➤ Clinical Center/National Institutes of Health
- > National Library of Medicine

In 2008, BHEPP launched 11 projects, among them LPF, to enhance and sustain disaster response.

Overall LPF Goal: To aid family reunification during a mass casualty event near Bethesda.



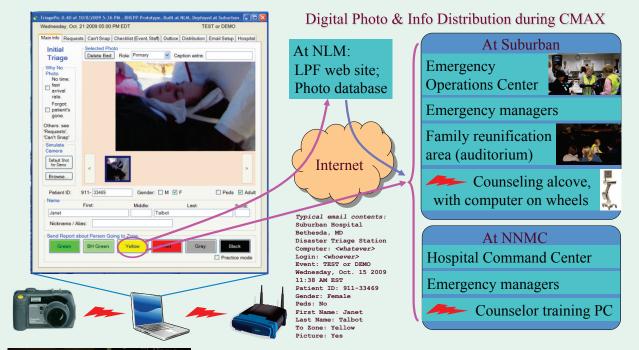
Foundational Aspects: LPF Database 3, Web Site 5, and Notification Walls (NW) 4.

- ➤ Based on open-source "Sahana" disaster management system, e.g., Missing Person Registry.
- Americanized, customized for project needs, extended with new modules like NW 4.
- > Simplified for direct access by the public, and hospital volunteers & staff, to -
 - * make effective use of limited hospital personnel;
 - * provide more timely updates to family members.
- Timeliness is also fostered by unique integration with hospital triage 2.

About BHEPP: http://www.bethesdahospitalsemergencypartnership.org/ NLM/BHEPP Projects: http://wiki.sahanafoundation.org/doku.php/dep:nlm-bhepp LPF Generally: http://archive.nlm.nih.gov/proj/lpf.php

October 15, 2009 - First Evaluation of alpha LPF Components During Combined Multi-Agency Exercise (CMAX 2009), at Suburban Hospital and NNMC

15 simulated missing person reports were pre-loaded. During the drill, over 30 "found" people were reported by triage stations and counselors. Their names, pictures, and triage categories were displayed in the Command Centers by the NW web site. A public version of this was also projected in Suburban's auditorium, and counselors with "family members" could privately use the LPF web site 5 via Wi-Fi from a medical computer on wheels





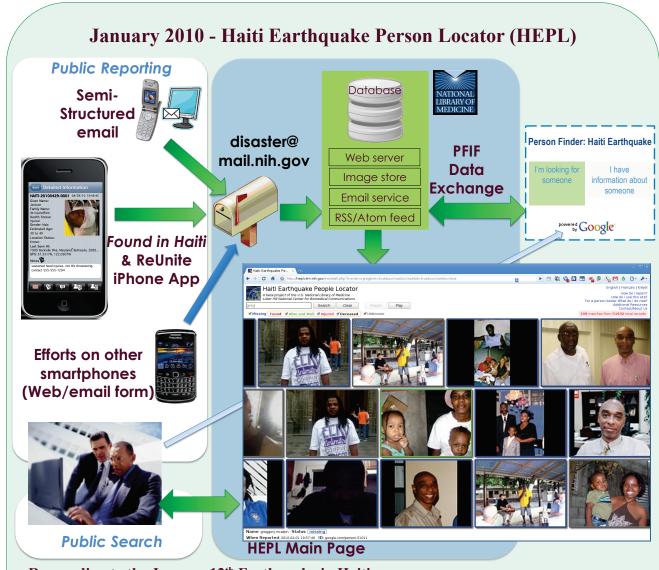


Triage Intake (above & left) ②. Each victim arriving at Suburban's perimeter triage station (shown left) was photographed and given an ID number and wristband. Triage medical personnel did an instant assignment to a color-coded triage zone within the hospital. LPF outfitted the triage station with a Ricoh 500se camera, Bluetooth-paired to a bright-screen Windows laptop with our "TriagePic" software. The software immediately reported victim ID, photograph, and triage zone by email over enterprise Wi-Fi. Designated email recipients included hospital staff, reunification counselors, and the LPF system (to preidentify "found" injured people).

The setup at NNMC was broadly similar, but with a different staffing mix and with Wi-Fi to cellular transmission via Verizon Wireless MiFi.

Prototype Mobile LPF Web Site for Search (left) 3. At Suburban, reunification counselors were able to search for people reported to LPF, using iPod Touch or iPhones over the in-house Wi-Fi network.

More About LPF and CMAX 2009 (with many photos): http://wiki.sahanafoundation.org/doku.php/dep:bethesda 2009



Responding to the January 12th Earthquake in Haiti

- > Driven by humanitarian crisis, White House response, and NLM management support.
- ➤ Developed with "tiger team" approach, pulled in expertise from throughout NLM in about 3 weeks, including OMB, IRB, and Privacy Act clearances
- Rapidly transformed LPF Notification Wall into interactive, multilingual main page for HEPL.
- ➤ Initially screen-scraped person records from CNN iReports.
- Added "Person Finder Information Format" (PFIF) support as it evolved from v 1.1 to 1.2.
- > Interchanged PFIF data with Google's Person Finder, which emerged as the central repository.
- ➤ Provided additional meta-search capabilities.
- Linked to curated disaster info at NLM's Disaster Info. Management Research Ctr. (DIMRC).
- ➤ Rapidly developed iPhone app "Found in Haiti" (now "ReUnite", available in the iTunes App Store), building on related LPF work.
- >In February 2010, prepared a similar experimental instance for the Chilean earthquake.

Public Web Site: http://hepl.nlm.nih.gov

Help for iPhone App: http://archive.nlm.nih.gov/proj/lpf/faq.html

More about LPF and Haiti: http://wiki.sahanafoundation.org/doku.php/haiti:hepl