

# SAHANA Deployments and Usage

# Phases of Emergency Management

DEPLOYMENTS



**SAHANA**  
Disaster Management System

# Deployment Overview

## DEPLOYMENTS

- Center for National Operations, Govt. of Sri Lanka, for Tsunami in Sri Lanka - 2005
- NADRA, Govt. of Pakistan for Asian Quake in Pakistan - 2005
- Govt. of Philippines, for Landslide disaster in Philippines- 2005
- Pre-deployment in Sarvodaya, Sri Lanka
- Yogyakarta Earthquake, Indonesia - 2006
- Pre-deployment for Red Cross, Sri Lanka



# Deployment Overview...

## DEPLOYMENTS

- Deployment for OEM, New York City Council, U.S.A, 2007
- Deployment for office of the President, Peru, 2007
- Deployment for Disaster Management Bureau, for Cyclone Sidr, Bangladesh, 2007
- Used for Sarvodaya, Sri Lanka, 2008
- Deployed and used in Myanmar, 2008
- Deployed and used for Chengdu, China, 2008
- Deployed and used for Bihar, India 2008



# Tsunami: Sri Lanka

## RESPONSE

- 26<sup>th</sup> December 2004: Sri Lanka
- The Center for National Operations, under the Presidential Secretariat for the Govt. of Sri Lanka
- CNO was the coordination center for all Tsunami Relief Efforts
- Sahana Phase 1 was deployed as a Proof of Concept for the CNO
- A group of 200 University students allocated for Sahana data collection



# Tsunami: Lessons Learned

RESPONSE

Centre for National Operations  
ජාතික මෙහෙයුම් මධ්‍යස්ථානය  
தேசிய நடவடிக்கை மத்திய நிலையம்

**CAMP REGISTRY**

Add Camp Log off

SEARCH CAMPS

Camp Name :

Province :

District :

Division :

Camp Name	Area	Province	District	Comment	Edit
<a href="#">Subodharama Temple</a>		Western Province	Colombo		<a href="#">Edit Subodharama Temple</a>
<a href="#">Sri Mahabodhi Viharaya</a>		Western Province	Colombo		<a href="#">Edit Sri Mahabodhi Viharaya</a>
<a href="#">St. Mary's College</a>		Western Province	Colombo		<a href="#">Edit St. Mary's College</a>
<a href="#">Vidyananda Pirevina</a>		Western Province	Colombo		<a href="#">Edit Vidyananda Pirevina</a>
<a href="#">Tamil School, Dehiwela</a>		Western Province	Colombo		<a href="#">Edit Tamil School, Dehiwela</a>
<a href="#">Avaramola Viharaya</a>		Western Province	Colombo		<a href="#">Edit Avaramola Viharaya</a>
<a href="#">Marian Drive Private Building</a>		Western Province	Colombo		<a href="#">Edit Marian Drive Private Building</a>
<a href="#">Bambalapitiya Railway Station</a>		Western Province	Colombo		<a href="#">Edit Bambalapitiya Railway Station</a>
<a href="#">Colpitiya Railway Station</a>		Western Province	Colombo		<a href="#">Edit Colpitiya Railway Station</a>
<a href="#">St. John's College</a>		Western Province	Colombo		<a href="#">Edit St. John's College</a>
<a href="#">Rasik Fareed College</a>		Western Province	Colombo		<a href="#">Edit Rasik Fareed College</a>
<a href="#">St. Maria College</a>		Western Province	Colombo		<a href="#">Edit St. Maria College</a>

Transferring data from relief.cno.gov.lk...



**SAHANA**  
Disaster Management System

# Tsunami: Lessons Learned

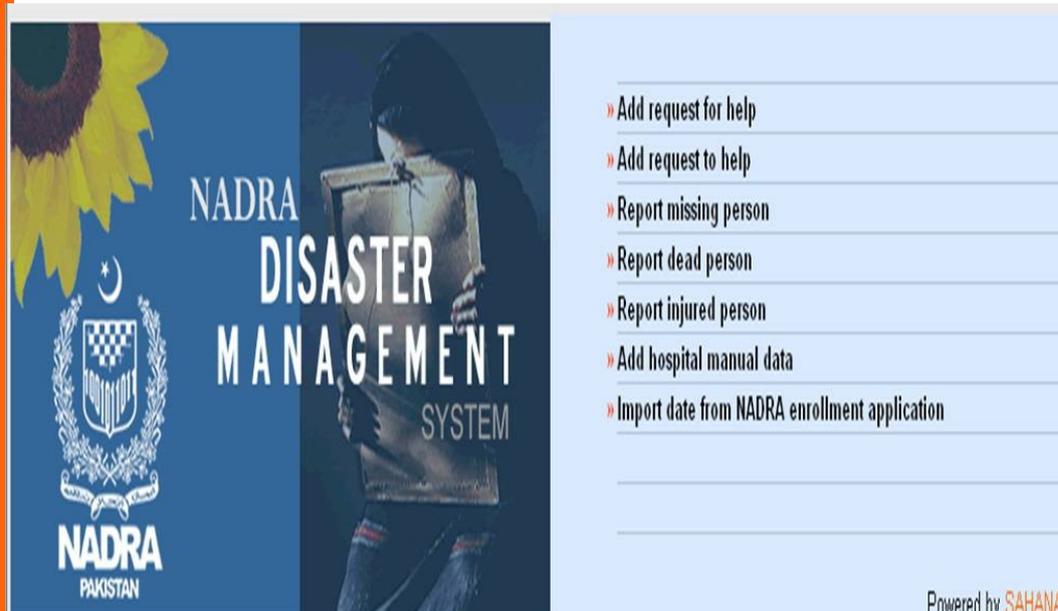
## RESPONSE

- Disaster coordination is chaotic
- An authorized group (govt.) should lead coordination efforts
- Everyone wants to help - everyone wants to be there...
- Continuously updated information is vital
- A common platform should be available for groups to coordinate with others

# Earthquake: Pakistan

## RESPONSE

- National Database and Registration Authority, Govt. of Pakistan for Asian Quake in Pakistan - 2005
- Sahana Phase 1 was used
- 2 Volunteers from LSF, IBM-CRT and NADRA



NADRA  
DISASTER  
MANAGEMENT  
SYSTEM

- » Add request for help
- » Add request to help
- » Report missing person
- » Report dead person
- » Report injured person
- » Add hospital manual data
- » Import data from NADRA enrollment application

Powered by SAHANA

# Earthquake: Lessons Learned

## RESPONSE

- Data privacy concerns
- The power of F/OSS

# Coastal Storms: U.S.A

## PREPAREDNESS

- The City of New York's Office of Emergency Management
- Deals with Coastal Storm Plans and Hurricane preparedness activities
- Required a solution to efficiently manage and track the large number of evacuations during a coastal storm
- Require a solution that will help prepare for the disaster and can be used during the disaster

# Coastal Storms: U.S.A

## PREPAREDNESS

- Sahana was built for post-disaster management
- Had to customize Sahana to match OEM's process
- Newer set of modules/extensions for Sahana
- Customized in house by the Lanka Software Foundation in collaboration with the Sahana community
- Code donated back to the Sahana project by the OEM



File Edit View History Bookmarks Tools Help

http://localhost/~nazgul/sahana-sandbox/sahana-phase2-nyc-csp/www/index.php?mod=sts&act=default#

Most Visited Getting Started Latest Headlines

Admin User | [Settings](#) | [Logout](#)

## SAHANA NYC Coastal Storm Plan

Go back to [Site System: Home](#)

### SHELTEREE TRACKING SYSTEM

- Home
- Register or Check Out Shelterees
- Edit/Check Out Shelteree(s)
- View Duplicate Shelteree(s)
- Reports

### SAHANA MAIN

- Sahana Home
- Shelteree Tracking System
- Site System
- SANDS
- Staff Registration System
- Reporting
- My Settings
- Administration

## Shelteree Tracking System

The Shelteree Tracking System is a central online repository where information on all the shelteree families can be stored. You will be transcribing shelteree information directly from the Hurricane Shelter Registration form into this Shelteree Tracking System. Information from the Hurricane Shelter Registration form includes: shelteree name, age, contact number, occupation, special skills, the names and ages of all members included in the shelteree family unit, and information about any pets the family is sheltering in the facility. Please ensure that both sides of the Registration form are accurately entered into the Shelteree Tracking System.

**Features include:**

- Capture Information on Shelteree Families
- Capture Information on each disaster victim/pet
- Searching for different groups and individuals
- Modify Information on families and individuals
- Various Reporting functionalities
- Data Exporting functionalities

PHP POWERED W3C XHTML 1.0 W3C CSS

Find: mysql Previous Next Highlight all Match case

http://localhost/~nazgul/sahana-sandbox/sahana-phase2-nyc-csp/www/index.php?mod=sts&act=default#

Applications Places System Fri Feb 6, 3:21 PM nazgul

# Modules

## PREPAREDNESS

- Modules to match OEM evacuation process
  - Site System
  - Shelteree Tracking System
  - Staff Registration System
  - Notification and Deployment System
  - Reporting

# Lessons Learned

## PREPAREDNESS

- Sahana can be used for Disaster Preparedness activities
- Each organization has its own set of processes to manage disasters
- The Sahana Process vs. the organizational Process

# Sarvodaya SRTAC

## DEPLOYMENTS

- Sarvodaya, Sri Lanka - 2008/2009
- Used as a
  - Population Registry
  - Project Registry
  - Village Registry
- Central alerting platform



# Population Registry

## MAIN MENU

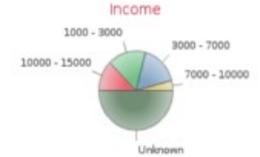
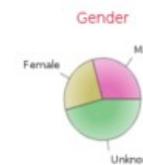
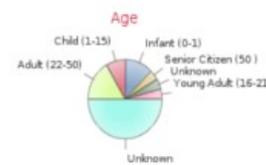
- [Sahana Home](#)
- [Project Registry](#)
- [Population Registry](#)
- [Village Registry](#)
- [GPS Interface](#)
- [Data Import/Export](#)
- [Request/Aid Management](#)
- [Messaging/Alerting](#)
- [Situation Awareness](#)
- [Missing Person Registry](#)
- [Disaster Victim Registry](#)
- [Organization Registry](#)
- [Shelter Registry](#)
- [Volunteer Management](#)
- [Aid Catalog](#)

## POPULATION REGISTRY

- [Home](#)
- [Add to Population](#)
- [Search](#)
- ▲ [Reports](#)
  - [View Group\(s\)](#)
  - [Individual](#)

## Population Registry

The Population Registry is a central online repository where information on all the families. Information like name, age, contact number, identity card number, location, and other details are captured. Picture and finger print details of the people can be uploaded to the system. People can also be captured rather by group for efficiency and convenience



### Features include:

- Capture Information on Population groups (Families, Company, Religious Places, etc.)
- Picture upload and finger print upload facility
- Searching for different groups and individuals
- Modify information on groups and individuals
- Various Reporting functionalities



# DEPLOYMENTS

## MAIN MENU

- [Sahana Home](#)
- [Project Registry](#)
- [Population Registry](#)
- [Village Registry](#)
- [GPS Interface](#)
- [Data Import/Export](#)
- [Messaging/Alerting](#)
- [Administration](#)

## PROJECT REGISTRY

- [Home](#)
- [Project List](#)
- [Add Project](#)
- [Edit Projects](#)
- [Project Admins](#)
- ▼ [Reports](#)

### Assign projects to admins

- Select one or more projects from the list and click on the Assign button.
- Children's Educational Project
  - Srtac 2
  - ADRRN
  - World Health Project
  - Agriculture Aid & Training Project
  - Local Irrigation System Development Project
  - Local Irrigation System Development Project
  - SRTAC
  - Post Disaster Reconstruction Learning of India
  - Mahaweli Project
- [Next](#)

### Edit Projects

- Following list shows projects created by you or as an admin.
- | Action                   | Project Name                        |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | Children's Educational Project      |
| <input type="checkbox"/> | Srtac 2                             |
| <input type="checkbox"/> | ADRRN                               |
| <input type="checkbox"/> | World Health Project                |
| <input type="checkbox"/> | Agriculture Aid & Training Project  |
| <input type="checkbox"/> | Local Irrigation System Development |
| <input type="checkbox"/> | Local Irrigation System Development |
| <input type="checkbox"/> | SRTAC                               |
| <input type="checkbox"/> | Post Disaster Reconstruction Learn  |
| <input type="checkbox"/> | Mahaweli Project                    |
- [Delete](#)

- ▲ [Reports](#)
  - [District-Wise](#)
  - [Unit-Wise](#)
  - [Sector-Wise](#)

Graphical representation of ongoing Sarvodaya projects



### Project List

Page 1/1 : 1 Records per page

Project Name
<a href="#">Children's Educational Project</a>
<a href="#">Srtac 2</a>
<a href="#">ADRRN</a>
<a href="#">World Health Project</a>
<a href="#">Agriculture Aid &amp; Training Project</a>
<a href="#">Local Irrigation System Development Project</a>

### Add Project

Key: \* - fields tagged with a star (\*) are mandatory and must be filled.

Project Info	Donor Info	Location
Name <input type="text"/>		
Web Address <input type="text"/>		
Sarvodaya Unit <input type="text"/>		
Sector <input type="text"/>		
Start Date <input type="text"/>		
End Date <input type="text"/>		
Status <input type="text"/>		
Budget <input type="text"/>		
Objective <input type="text"/>		

links to show reports on district,unit& sector wise