

A close-up photograph of a sunflower with bright yellow petals and a dark brown center, set against a blurred background of green leaves and other sunflowers.

# Sahana Software Foundation

Situational-Awareness Training & 2016 Global  
CAP Implementation Workshops

Devin Balkind, President  
Asian Institute of Technology  
August 22nd, 2016

## About Sahana

Sahana's mission is to **save lives** by providing **free and open source** information management systems that improve the effectiveness of organizations and communities throughout the disaster cycle.



Sahana Software Foundation is a **tax-exempt nonprofit** (501.c.3) in the USA.

We produce the EDEN platform, which is the world's most popular **open source information management systems** for disaster management.

Our goal is to get more users, contributors and vendors involved in our open source project. It is not to sell you products and services.

We maintain a list of professional vendors who offer support for Sahana EDEN.

# History of Sahana

**2004:** Indian Ocean Earthquake prompts the development of a platform to coordinate various responding organizations.

- Developed by the Sri Lankan Center of Humanitarian Agencies (CHA).
- Funded by Swedish International Development Agency (SIDA).
- Supported by IBM's crisis response team.



The screenshot shows the Sahana website homepage. At the top left is the Sri Lankan national emblem. To its right, the text 'CENTRE FOR NATIONAL OPERATIONS' is displayed in English, with its Sinhala and Tamil equivalents below it. Further right is the 'CNO' logo. Below this header, the text 'CNO Data Center' is centered, followed by a link 'Click [here](#) for the CNO Homepage.' The main content area features a large image of a sunflower with the word 'SAHANA' overlaid in white. To the right of the image, a welcome message states: 'Welcome to Sahana, a web application that hosts a number of services for the needy and for those who want to assist in easing the burden of those affected by the recent tsunami.' Below this, it says: 'If you are not a registered organization/user please **register** to start using the facilities provided through Sahana.' To the right of the text is a list of services: 'Sahana Organization Registry', 'Sahana Request Management System', 'Sahana People Registry', 'Sahana Camp Registry', and 'Sahana Assistance Database'. At the bottom, a copyright notice reads '©2005 All rights reserved.' Below that, a paragraph states: 'Software Developed Collaboratively by the Sri Lankan ICT Industry. Contributors include (in alphabetical order): Eurocenter, Finder2000, hSenid, IFS, JKCS, LKUG, LSF, UCSC, Univ. of Moratuwa, and Virtusa. This effort was coordinated by ICTA.' At the very bottom, it says: 'Server donated by IBM and hosted by Sri Lanka Telecom.'

**2005-2008:** Sahana PHP is deployed in countries throughout Asia, as well as in North and South America by NGOs and government agencies for all parts of the disaster cycle.



# History of Sahana

**2009:** SSF receives nonprofit status and launches its second generation EDEN platform.

**2010-2016:** EDEN functionality expands to incorporate 20 modules driving adoption to over 25 countries.



Sahana EDEN Technologies	
Web Server	Ex. Apache
Application	Sahana EDEN
Web Framework	Web2Py
Language	Python
Database	MySQL or PostgreSQL
Operating System	Windows, Linux or Mac

- **Mapping:** All geographic data can be displayed on a map.
- **Authorization:** All data is controlled by configurable permissions which allow for granular access by user, organization or office.
- **Reporting:** All data can be filtered and represented on matrix reports, pivot tables and charts.
- **Data Integration:** Web Services via RESTful API. Data import/export to CSV, XLS, XML, JSON.

## Situation Awareness



Map



Incidents



Assessments

## Who is doing What and Where



Organisations



Facilities



Activities



Projects

## Manage Resources



Staff



Volunteers



Relief Goods



Assets

## Manage Aid



Requests



Commitments



Sent Shipments



Received Shipments

# Disaster Risk Reduction (DRR) Project Portal

Asia Disaster Preparedness Center  
(ADPC)

Asia Pacific Region - 2010-present

## Functionality:

- Projects Management
- Contact Directories
- Federated Data  
Synchronization
- GIS



# Risk Analysis

## Regional Organisations

Showing 1 to 10 of 29 entries

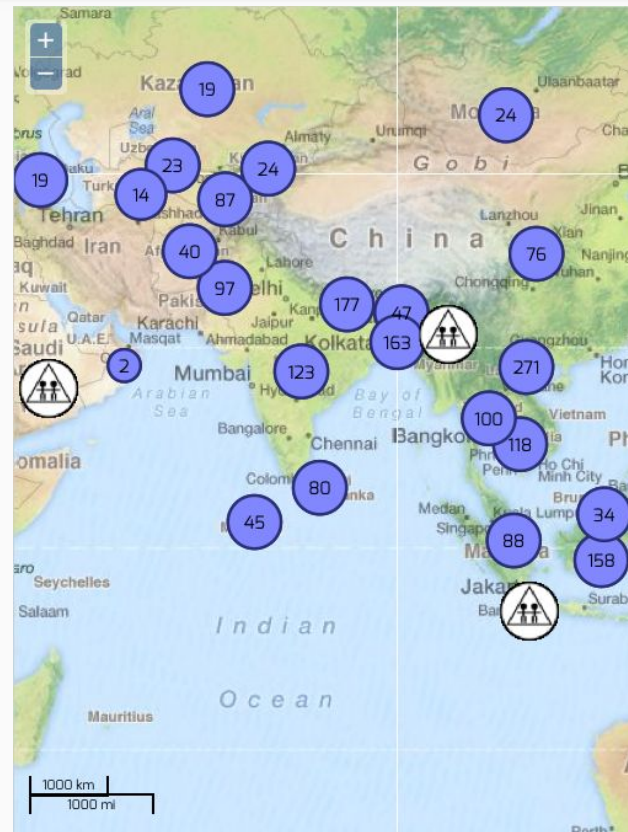
Search:

Show 25 entries

First Previous 1 2 3 Next Last

Name	Acronym	Type	Website	Region	Year	Notes
Applied Geoscience and Technology Division (SOPAC) of the Secretariat of the Pacific Community (SPC)	SOPAC	Regional Organisation	<a href="http://www.sopac.org">http://www.sopac.org</a>	Pacific	1972	21 Member Countries and Territories; Facilitator of the Pacific Regional Disaster Risk Management Network
ASEAN Committee on DM	ACDM	Regional Organisation		-	2003	ASEAN Committee
Asian Disaster Preparedness Center -	ADPC	Regional Organisation	<a href="http://www.adpc.net">http://www.adpc.net</a>	-	1986	Regional Organization
Asian Disaster Reduction Center	ADRC	Regional Organisation	<a href="http://www.adrc.asia">http://www.adrc.asia</a>	-	1998	Regional Organization

Project Title (Count)										
Hazards	-	Afghanistan	American Samoa	Armenia	Australia	Azerbaijan	Bangladesh	Bhutan	Brunei Darussalam	Cambodia
-	34	7	1	3	3	2	26	4	11	29
Avalanche	14	13	5	3	5	3	16	18	9	13
Cold Wave	13	11	5	3	5	4	19	18	9	20
Cyclone	33	17	18	4	17	5	69	23	19	54
Drought	22	22	18	6	15	6	39	23	15	44
Earthquake	30	18	18	4	16	3	42	18	18	31
Epidemic	15	10	17	4	13	5	14	11	11	22
Fire	24	13	15	3	13	4	29	18	16	37
Flood	36	27	18	7	17	9	88	34	21	75





# Resource Management System

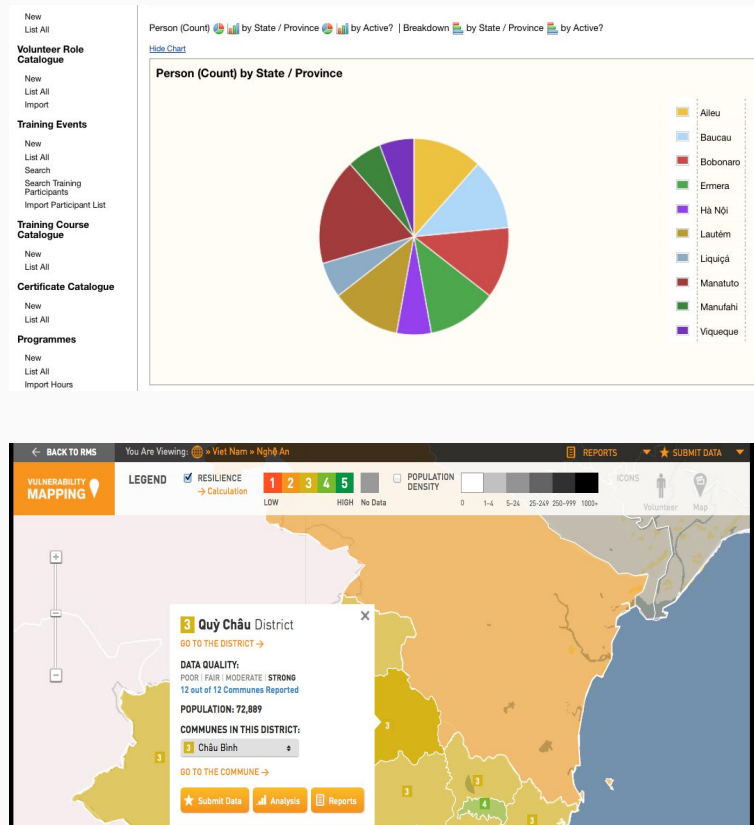
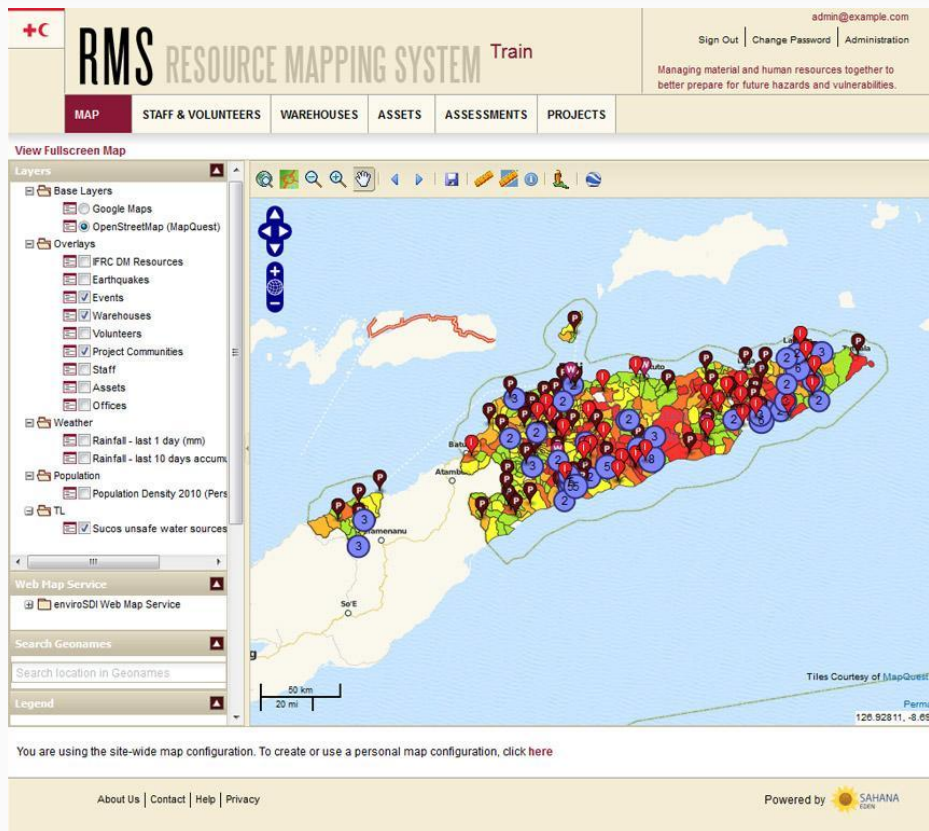
International Federation of Red Cross and Red Crescent Societies (IFRC)

Global - 2011-present

## Functionality:

- Volunteer Management
- Staff Management
- Logistics
- Inventory and Asset Management
- Projects Management
- Organization Directories
- Assessments

# Resource Management System



# Give2LA


City of Los Angeles  
Emergency Management Department

USA - 2011-present

## Functionality:

- Public/User Interaction
- Donations Management
- Volunteer Management
- Request Management

# Donations Management



“IN OMNIA PARATES”

# GIVE2LA


Register | Sign In | English

“Donate. Volunteer. Serve.  
Please ‘Give2LA’ and do your part to ensure LA  
is ready for a disaster.”  
Mayor Antonio Villaragosa

HOME | DONATE | VOLUNTEER | WHY?

## Support the City of Los Angeles

**Give2LA** is the official website for the City of Los Angeles that provides information on volunteer and donation opportunities to support emergency preparedness, response and recovery. Tax deductible contributions for Cash and Corporate in-kind items can be made through one or more of the non-profit organizations listed.



The spirit of philanthropy is an integral part of Los Angeles culture. **Give2LA** is a great way for individuals, groups and organizations interested in volunteering to help worthy causes and efforts before, during and after an emergency. Please register to receive notifications of future Requests for Volunteers and to apply for requests online.

### DONATE


**You**  
You can support our preparedness, response and recovery activities by making a monetary donation or by donating goods and services.  
[CLICK HERE TO VIEW DONATION OPPORTUNITIES.](#)


**Corporations & Organizations**  
Corporations and Organizations can donate to support the City of Los Angeles, and also receive Situation Awareness Reports.  
[CLICK HERE TO REGISTER.](#)

### VOLUNTEER


**You**  
You can donate your time by becoming a volunteer to aid survivors of disasters or local emergencies.  
[CLICK HERE TO VIEW REQUEST FOR VOLUNTEERS.](#)


**Organizations & Groups**  
Organizations and Groups can volunteer to support the City of Los Angeles, and also receive Situation Awareness Reports.  
[CLICK HERE TO REGISTER.](#)





Contact | Help | FAQ | Disclaimer | ReadyLA

Powered by  SAHANA



“IN OMNIA PARATES”

# GIVE2LA

frank@lacity.org | Sign Out | Administration | English

HOME | **DONATIONS** | VOLUNTEERS | MASTER DATA

HOME > DONATE > REQUESTS FOR DONATIONS

## List Requests for Donations


[Make a Request for Donations](#)

### Requests for Donations


Showing 1 to 3 of 3 entries    Show 10 entries

	EOC Status	BOC Status	Date Requested	Pushed to BOC	Date Required	Resource	Deliver To Facility
<a href="#">Open</a> <a href="#">Delete</a>	Pending (Action Required)	None	07-24-2012 22:00	09-27-2012 21:31	09-26-2012 22:00	-	Koreatown/Wil District Office
<a href="#">Open</a> <a href="#">Delete</a>	Pending (Action Required)	None	07-24-2012 22:00	09-27-2012 21:31	09-25-2012 22:00	-	Koreatown/Wil District Office
<a href="#">Open</a> <a href="#">Delete</a>	Pending (Action Required)	None	07-24-2012 22:00	09-27-2012 21:31	09-26-2012 22:00	-	Koreatown/Wil District Office

Showing 1 to 3 of 3 entries    < 1 >



Contact | Help | FAQ | Disclaimer | ReadyLA

Powered by  SAHANA

# Washington Common Operating Picture

City of Seattle  
Seattle Police Department

USA - 2014-present

## Functionality:

- Incident Management
- CAD Feed Processing
- Contact Directories

# Incident Management

WA-COP

MapIncidentsAlertsTasksResourcesContacts

AboutUser

Note: This incident is part of an event.

Zero hour: Oct 05 2015 17:05Closed at: n/aSeattle, Washington

Stadium Terror Attack

Active

Go to Event Page

This event has 4 incidents, 2 resources, 13 posts.

Active (change status)

Share

[701] Terrorism Bomb Explosion

Seattle Police Department

Latest updated on Feb 18 2016 02:33 by admin@example.com

Crime / Terrorism

Bad

No Exercise

Zero hour: Oct 05 2015 17:05Closed at:

Street address:

City: SeattleState: WashingtonZIP Code:

Latitude: 34.07366618308119Longitude: 118.2405173778534

Incident Description:  
Dodger Stadium Explosion

Report a problem

OpenStreetMap contributors

Resources

Search: Enter search term... + Add

Group	Status	Actions
L325	Active	
CP1	Active	
E103	Active	
BC6	Active	
L325	Active	
CP1	Active	
E103	Active	
BC6	Active	

1 2 3 ... 12 13

Updates

Directories

Tasks

Search: Enter search term here

Filter:  
☐ All ☐ My Bookmarks  
Type: Source: Tag: Start Time/Date: 2016/1/1 End Time/Date: 2016/20/6  
Clear Filters Saved Filters

Write new Update Post:  
Write something...  
Post Add tags here... Post Update

Updatetype: June, 1st 2016 10:41am by admin@example.com

Share

Here can be paragraph text for the update article.  
Tags: TagA TagB TagC 2 Comments

Updatetype: June, 1st 2016 10:41am by some.person@authority.com

Share

Here can be paragraph text for the update article.  
Tags: TagA TagB TagC 0 Comments



# Benefits of Open Source

As Sahana EDEN improves, the cost of deploying information management systems continues to go down.

- Sahana EDEN is open source.
- No licensing fees or restrictions.
- You have “the rights to study, change, and distribute the software to anyone and for any purpose.”
- MIT license explicitly allows people to start businesses deploying it for others.

EDEN is one of many successful open source software projects impacting the world.



# Open Source is Similar to Open Standards

## Common Alerting Protocol:

- Community developed and community maintained.
- No restrictions on who and how it can be used.
- Goal is to spread the standard, not to make a profit.
- No licensing fees.
- People can localize it to meet specific needs.
- It enables seamless flow of information between platforms.
- More users makes it more powerful and more useful.



Connect with us.

SahanaFoundation.org

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