

http://eden.sahanafoundation.org



Overview

- Introduction
- · What is Sahana Eden
- How you can get involved in Sahana Eden
- Tomorrow's Workshop



Introduction Myself

Michael Howden

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- Software Engineer from New Zealand
- · Worked for NGOs in
 - Indonesia Pakistan Uganda
 - India UK Thailand
- Sahana Eden Project Management Committee
- Co-founder AidIQ



2004 Asian Tsunami

- At least 226,000 dead in 14 countries.
- Up to 5 million people lost homes, or access to food and water
- 1 million people left without a means to make a living
- At least \$7.5 billion in the cost of damages





Problems

- The trauma caused by waiting to be found or find the next of kin
- Coordinating all aid groups and helping them to operate effectively as one
- Managing the multitude of requests from the affected region and matching them effectively to the pledges of assistance
- Tracking the location of all temporary shelters, camps, etc.



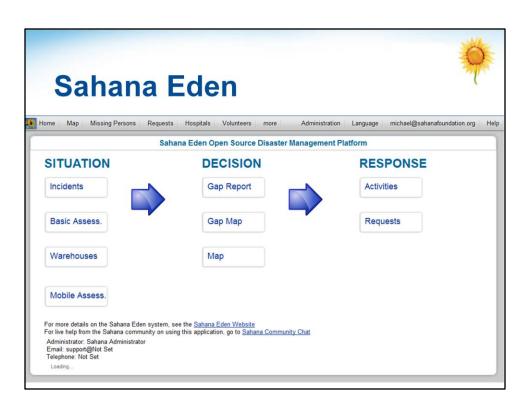


How Can IT Help?

- Live Situational Awareness
- Scalable
- Automatic Collation, Processing and Analysis
- · Efficient Distribution

Technology can address many of the data management challenges and requirements by providing solutions that are scalable, efficient, automatic and by providing live data and situational awareness to both emergency managers and the community.

All of these support better, quicker decisions





Sahana Applications

- Organisation List
- Inventory/Warehouse Management
- Incident Reporting
- Request Management
- Assessments
- Project Tracking
- and more...



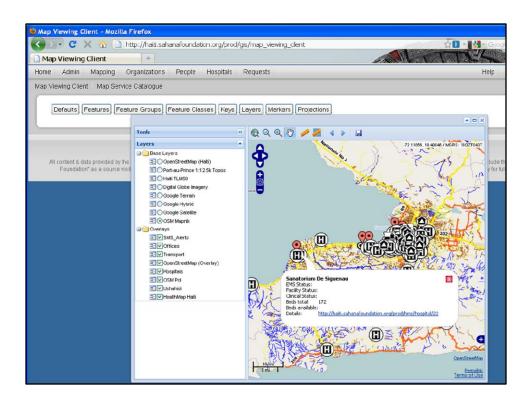
History

- 2005 Developed in Sri Lanka (Tsunami)
 - Pakistan (Earthquake)
- 2006 Phase II (Agasti)
- **2007** New York City (Preparedness)
 - Philippines (Typhoons/Landslides)
- 2008 Sahana Eden Founded
 - Sichuan (Earthquake)
- 2010 Haiti (Earthquake)
 - Pakistan (Floods)
 - Disaster Risk Reduction Project Portal

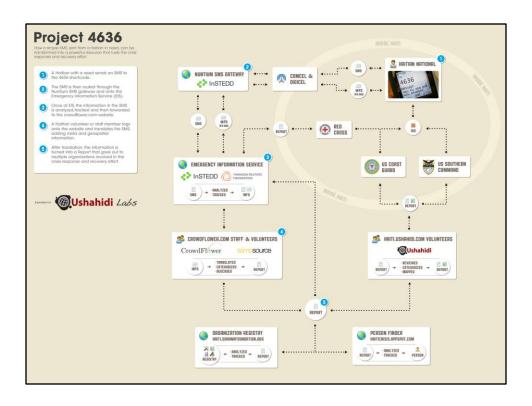


Technologies

- Python
- Web2Py
 - Open Source Web Application Framework
 - REST Controller
 - Open Data Standards
- JavaScript Library for usability
 - jQuery
 - Sencha



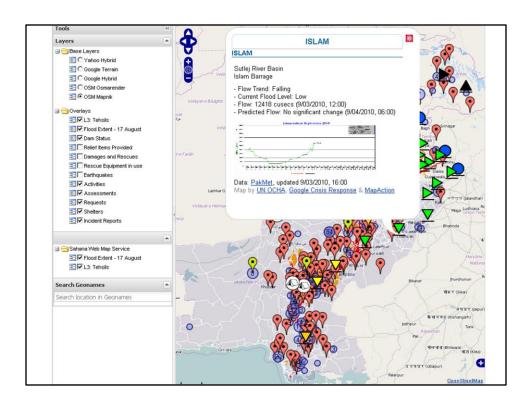
Sahana Eden - Haiti



Project 4636 – Haiti
Sahana integrating with other systems



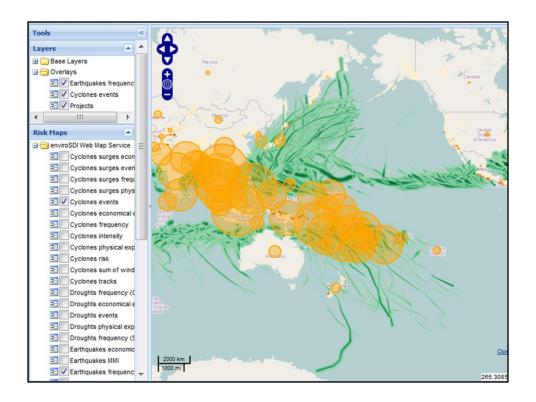
World Food Program (WFP) Food Request Portal – Haiti Built with Sahana Eden



Sahana Eden - Pakistan



Disaster Rick Reduction Website Built with Sahana Eden

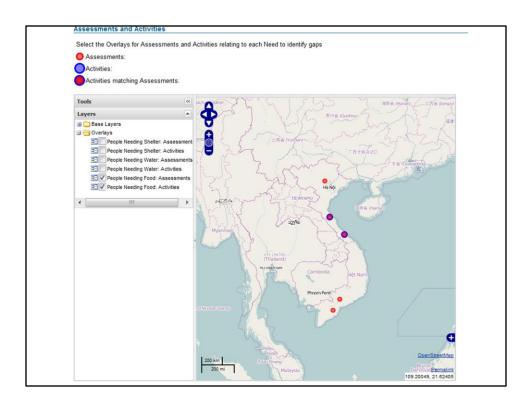


Disaster Rick Reduction Website

Geographic data such as the cyclone tracks can be imported from other systems



Sahana being used as part of a session on IT in the Asian Disaster Preparedness Center's Disaster Management Course



Gap Analysis Map – Decision Support Tool



Sahana Platform

Rapid Application Development Platform

- Mapping and GIS
- Messaging
 - Email SMS
 - Twitter Chat
- Open\Flexible Data Input / Output
 - XML JSON EDXL
 - KML RSS XSLT
 - XLS PDF



Sahana Eden's Community

- Sahana Software Foundation
- IBM
- Google
- AidIQ
- Asian Disaster
 Preparedness Center
 (ADPC)
- Sahana Taiwan
- iWay

- · Trinity College
- North Carolina State University (NCSU)
- Rennselaer
 Polytechnic Institute
 (RPI)
- University of Wisconsin
- CrisisCommons

SahanaCamps



- 1.0 Delhi, India July 2010
- 1.1 Taipei, Taiwan August 2010
- 1.2 Hanoi, Vietnam November 2010
- Indonesia?
- · Thailand?
- · Africa?





SahanaCamp 1.2- Hanoi. IBM's Offices.



Google Student Programs

Get paid to work with Sahana!

- Google Summer of Code
 - University Students
 - May-August
 - \$5000
- Google Code In
 - High School Students
 - November January
 - Up to \$500





Tomorrow's Workshop

- · Learn how to use Sahana Eden
- Install a Development Environment for Sahana Eden
- · Help with Testing
- Translation to Vietnamese
- Experimenting with prototype designs for Sahana.