Open Source Disaster Management Software

7th March 2015

Regional Training Workshop in Asia and the Pacific: Sustainable Development and Disaster Risk Management Using E-Government

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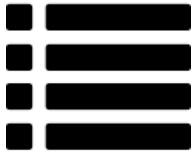
Introduction

- Sahana Open Source Disaster Management Platform
- Helps organizations and communities prepare for and respond to disasters
- Started in Sri Lanka after the Indian Ocean Tsunami
- Deployed in over 25 countries
- Used by many different organizations including national and local governments, Red Cross and the UN.

How Does Sahana Help?



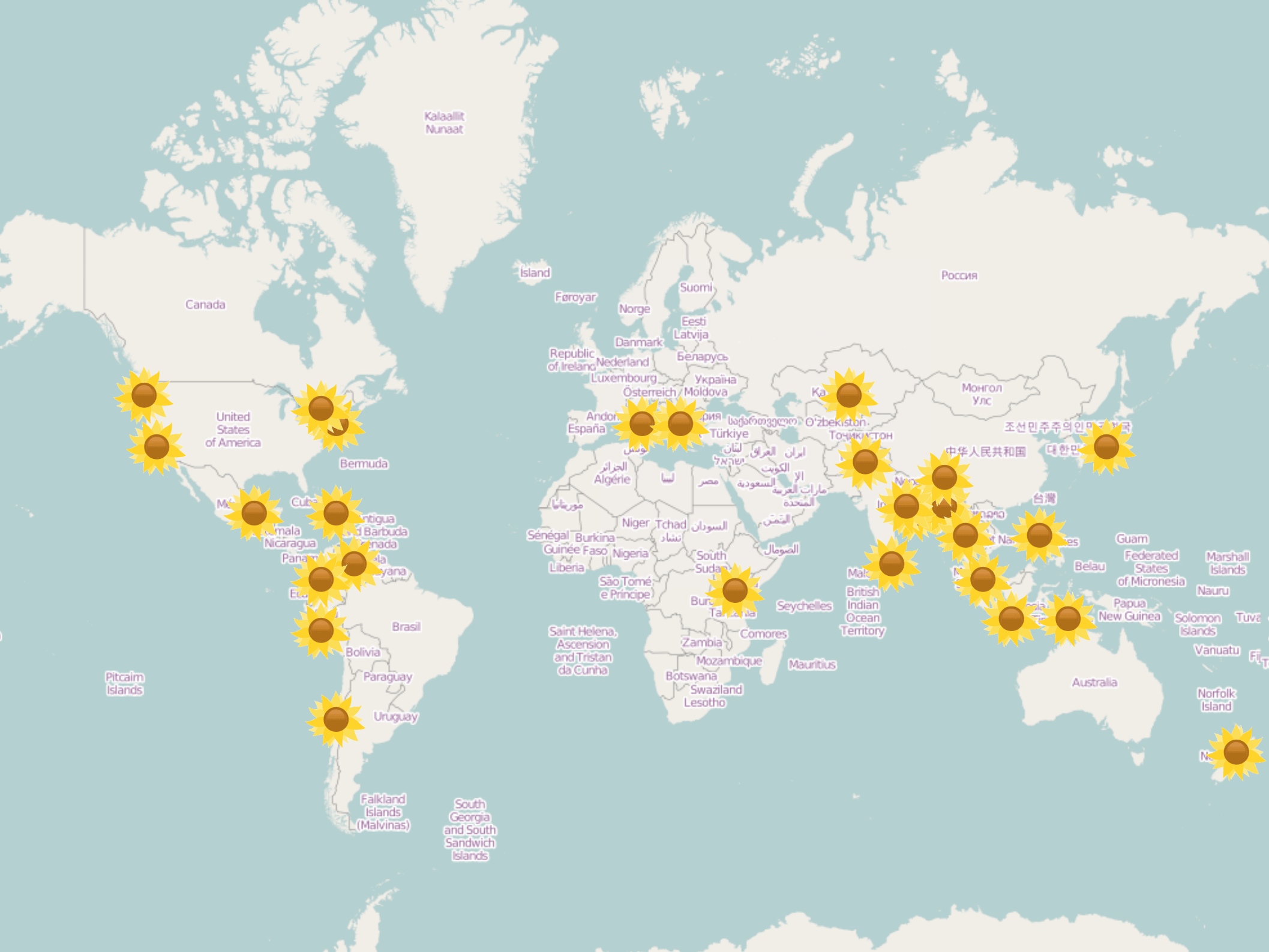
Directory of organizations, offices and people to support communication and coordination

Incident management sharing real-time information

Who's Doing What Where (3W) information to identify where there are gaps and overlaps

Records what **resources** are available and where to support disaster

Brings all information together in a single platform to provide **situational awareness**.



Kalaallit Nunaat
Canada
United States of America
Bermuda
Cuba
Nicaragua
Brasil
Bolivia
Paraguay
Uruguay
Pitcairn Islands
Falkland Islands (Malvinas)
South Georgia and South Sandwich Islands
Island
Føroyar
Norge
Suomi
Eesti
Latvija
Danmark
Republic of Ireland
Nederland
Luxembourg
Беларусь
Україна
Moldova
Österreich
España
Türkiye
Россия
Монгол Улс
O'zbekiston
中华人民共和国
台灣
Algérie
Niger
Tchad
Sénégal
Burkina Faso
Guinée
Nigeria
Liberia
São Tomé e Príncipe
South Sudan
Seychelles
Comores
Zambia
Mozambique
Botswana
Swaziland
Lesotho
Mauritius
Saint Helena, Ascension and Tristan da Cunha
British Indian Ocean Territory
Guam
Belau
Federated States of Micronesia
Marshall Islands
Nauru
Papua New Guinea
Solomon Islands
Vanuatu
Australia
Norfolk Island

TIMOR-LESTE RED CROSS SOCIETY

Contacts

- 19 Sep 13 18:11

Narcisio brites
no phone number narcsiobrites_cvtl@redcros.tl
no office assigned

- 19 Sep 13 18:11

Filomeno araujo
no phone number filomenoaraujo_cvtl@redcross.tl
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- 19 Sep 13 18:11

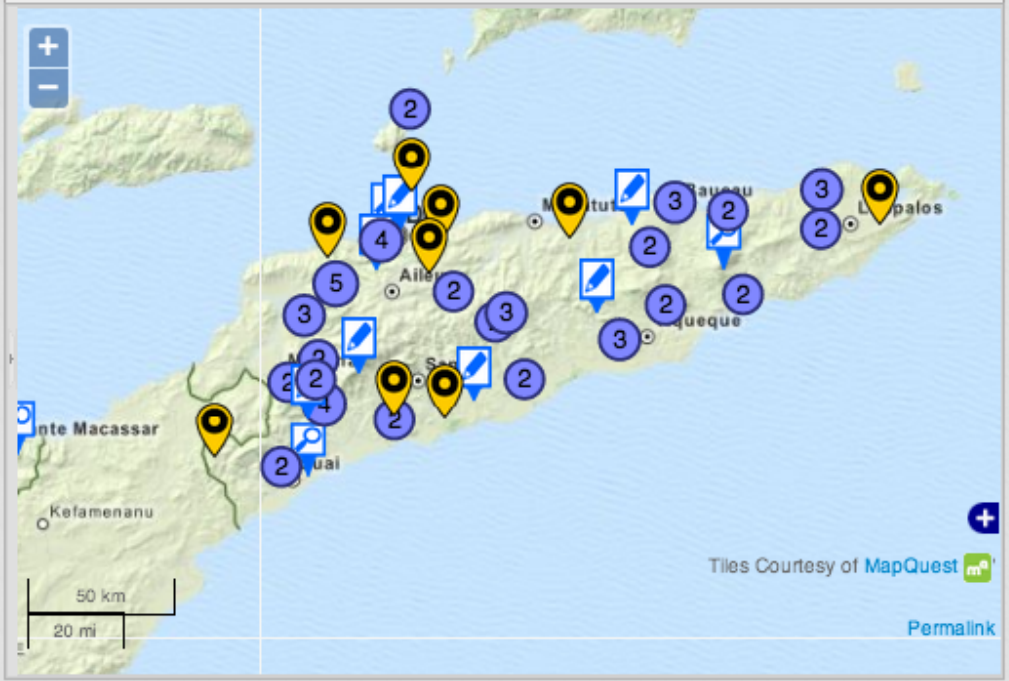
Claudia Gohan
+(670) 7358-3044 claudia.gohan@redcross.tl
no office assigned

- 19 Sep 13 18:11

Soraia Moises
+(670) 5295-1204 soraia.moises@redcross.tl
no office assigned

see more (2)

Map



Offices

Dili 19 Sep 13 21:18

CVTL Filial Dili
District
Av.Bairo formoza

Resources

Baucau 19 Sep 13 22:00

100 Volunteers
volantari iha distrito no mos iha suco iha 25 pessoas
Filomeno araujo - Timor-Leste Red Cross Society (CVTL)

Covalima 19 Sep 13 21:56

RMS RESOURCE MAPPING SYSTEM Asia Pacific

Register | Sign In

Managing material and human resources together to better prepare for future hazards and vulnerabilities.

MAP | STAFF & VOLUNTEERS | WAREHOUSES | ASSETS | ASSESSMENTS | PROJECTS

NEWS

RMS workshop will be held in Hanoi, Vietnam 8-10 November.

Field assessments feature under implementation.

STAFF & VOLUNTEERS

Add new and manage existing human resources.

WAREHOUSES

Stocks and relief items.

ASSETS

Manage office inventories and assets.

ASSESSMENTS

Design, deploy & analyse surveys.

PROJECTS

Tracking and analysis of Projects and Activities.

RMS
RESOURCE MANAGEMENT SYSTEM
Asia Pacific
STAFF
VOLUNTEERS
MEMBERS
WAREHOUSES
PROJECTS
RMS
acer

MEDIA
HELP DESK
SMS Use Only
LOGISTICS

Sahana's Modules

The following modules can be deployed as needed:

- Organizations
- Human Resources
- Projects
- Demographic Data
- Assessments
- Risks
- Messaging
- Incidents
- Warehouses
- Shelters
- Assets
- Requests
- Donations

Sahana's Features

- **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 or JSON.

Using Sahana

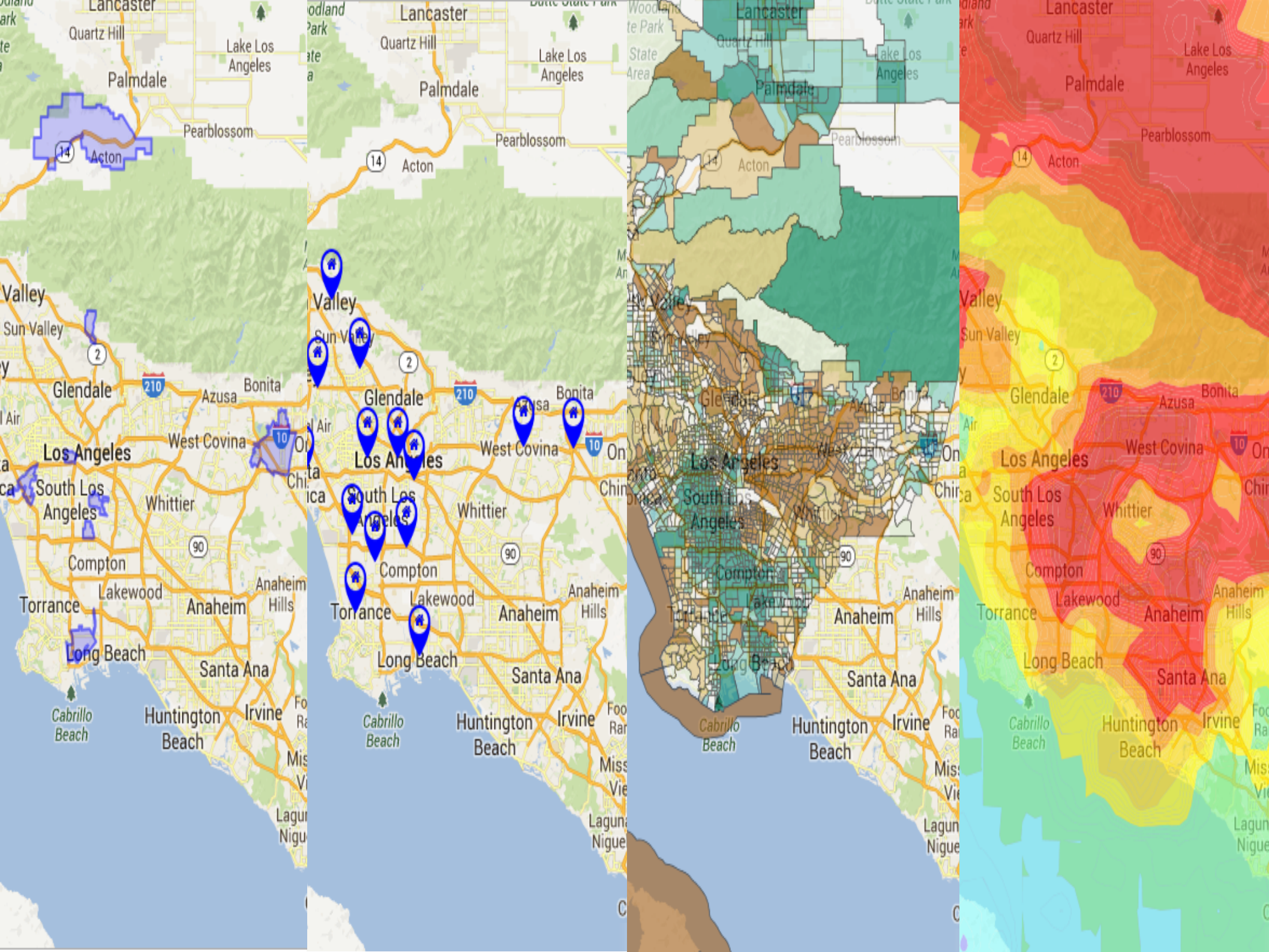
- Licensed under the open source MIT License
- Anyone is permitted to download, install and customize Sahana
- You are encouraged to engage with the community and share your contributions

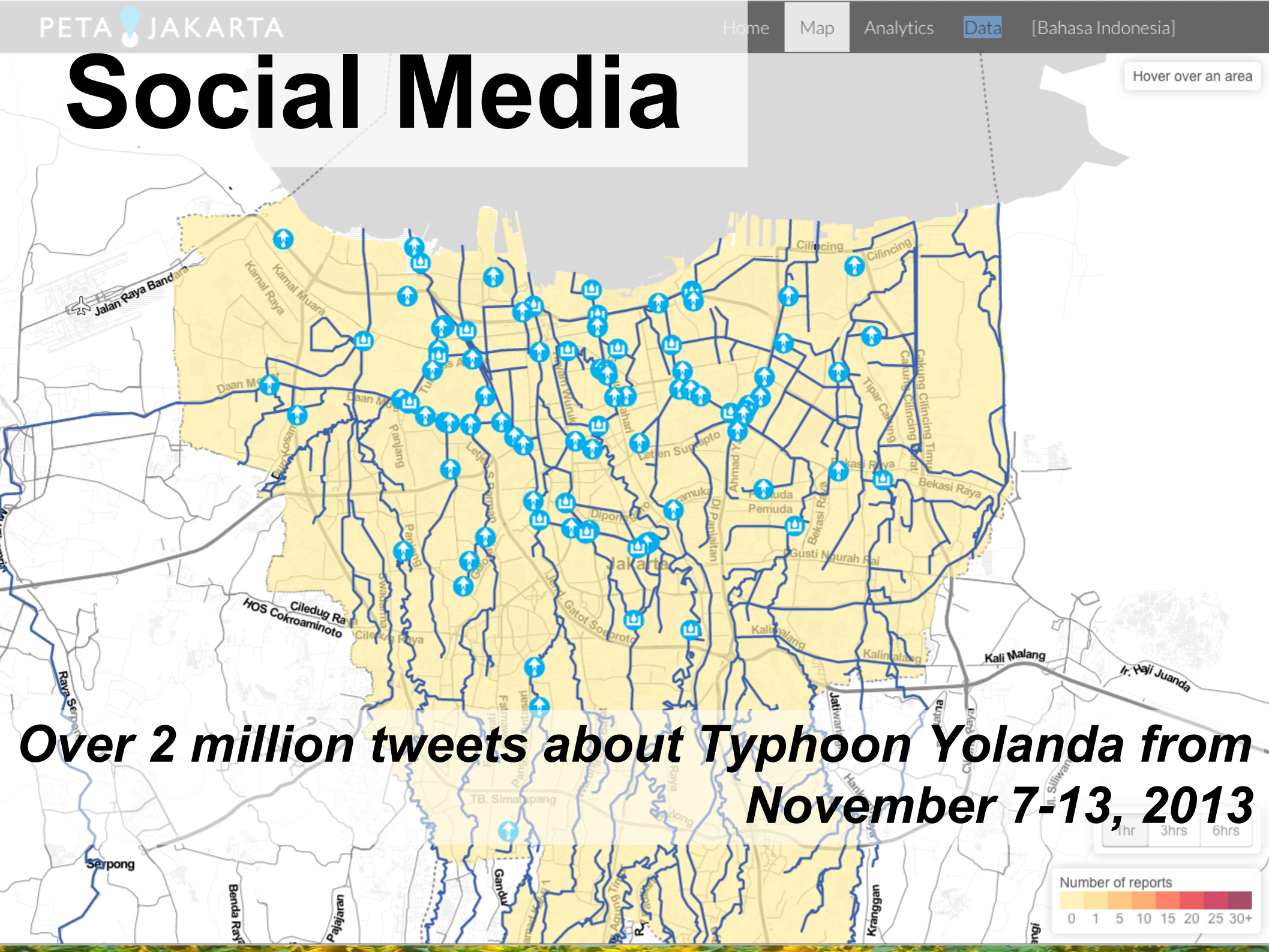
- Resources & Community Support
  - Wiki: http://eden.sahanafoundation.org
  - Mailing List: http://groups.google.com/group/sahana-eden

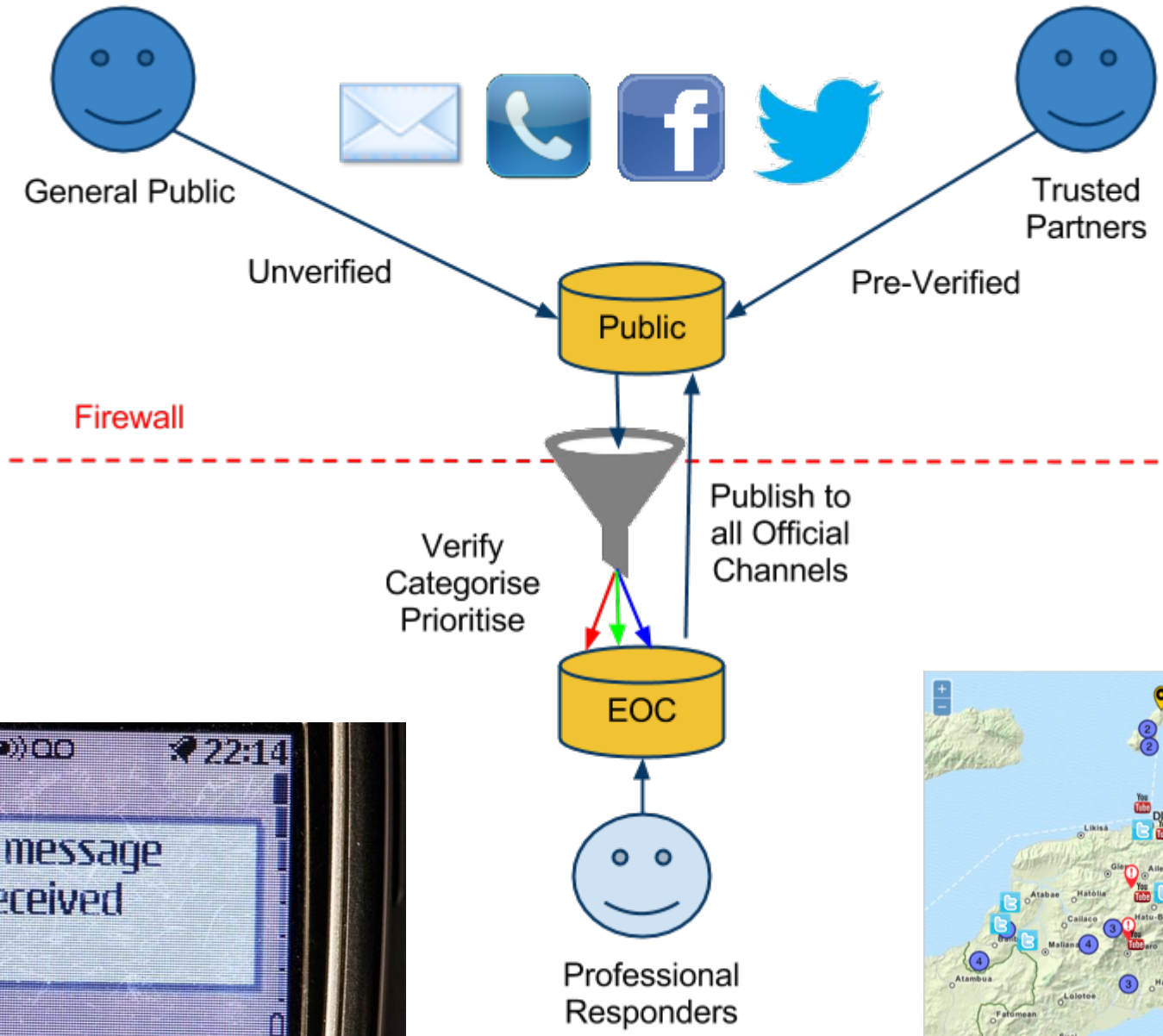
Sahana Software Foundation

- US 501(c)(3) non-profit organization
- Supports the Sahana Community
  - Members from 12 countries
  - 15 Organizational Partners
- Provides services:
  - Customized deployment for Sahana software
  - Technical Capacity Development programs
  - User Training
  - Consultation
- Runs programs:
  - SahanaCamp Training Workshops
  - Sahana Training and Internship Program

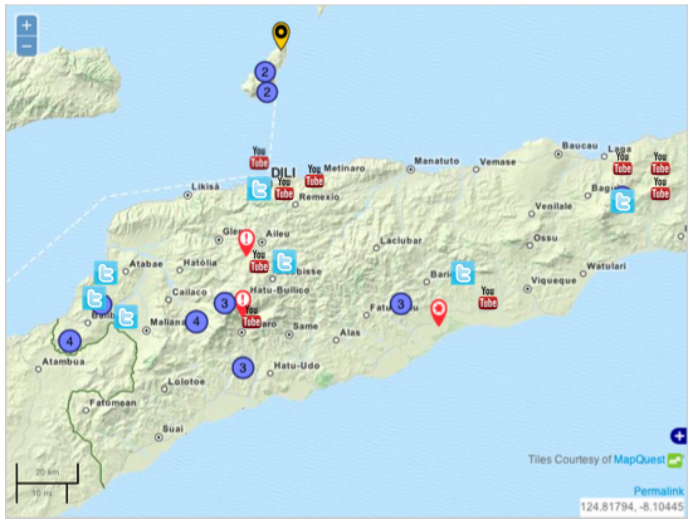
The volume of data increases 50x each year


Lancaster
Quartz Hill
Lake Los Angeles
Palmdale
Pearblossom
Acton
Valley
Sun Valley
Glendale
Azusa
Bonita
West Covina
Los Angeles
South Los Angeles
Whittier
Compton
Lakewood
Anaheim
Anaheim Hills
Torrance
Long Beach
Santa Ana
Cabrillo Beach
Huntington Beach
Irvine
14
2
210
10
90


PETA JAKARTA
Home
Map
Analytics
Data
[Bahasa Indonesia]
Hover over an area
Social Media
Over 2 million tweets about Typhoon Yolanda from November 7-13, 2013
Jakarta
Cilincing
Kamal Raya
Kamal Muara
Jalan Raya Bandara
Daan Mogot
Panjang
Letjen Suprapto
Pemuda
Bekasi Raya
Gusti Ngurah Rai
Kalimalang
Kali Malang
Ir. Haji Juanda
HOS Cokroaminoto
Ciledug Raya
Jl. Gatot Soebroto
TB. Simatupang
Serpong
Benda Raya
Pajajaran
Kranggan
1hr
3hrs
6hrs
Number of reports
0 1 5 10 15 20 25 30+


General Public
Unverified
Trusted Partners
Pre-Verified
Public
Firewall
Verify
Categorise
Prioritise
Publish to all Official Channels
EOC
Professional Responders

22:14
1 message received
Show
Exit


Tiles Courtesy of MapQuest
Permalink

Sahana strengthens disaster resilience

Visualize your risks and resources, infrastructure and activities

MAKE A MAP

Build your community's resilience

SHARE YOUR STORY

1 Education

"Our community billboard gets over 30 postings per week!"

2 Partnerships

"Our schools, clinics, ports, and shops have all gotten to know each other."

3 Engagement

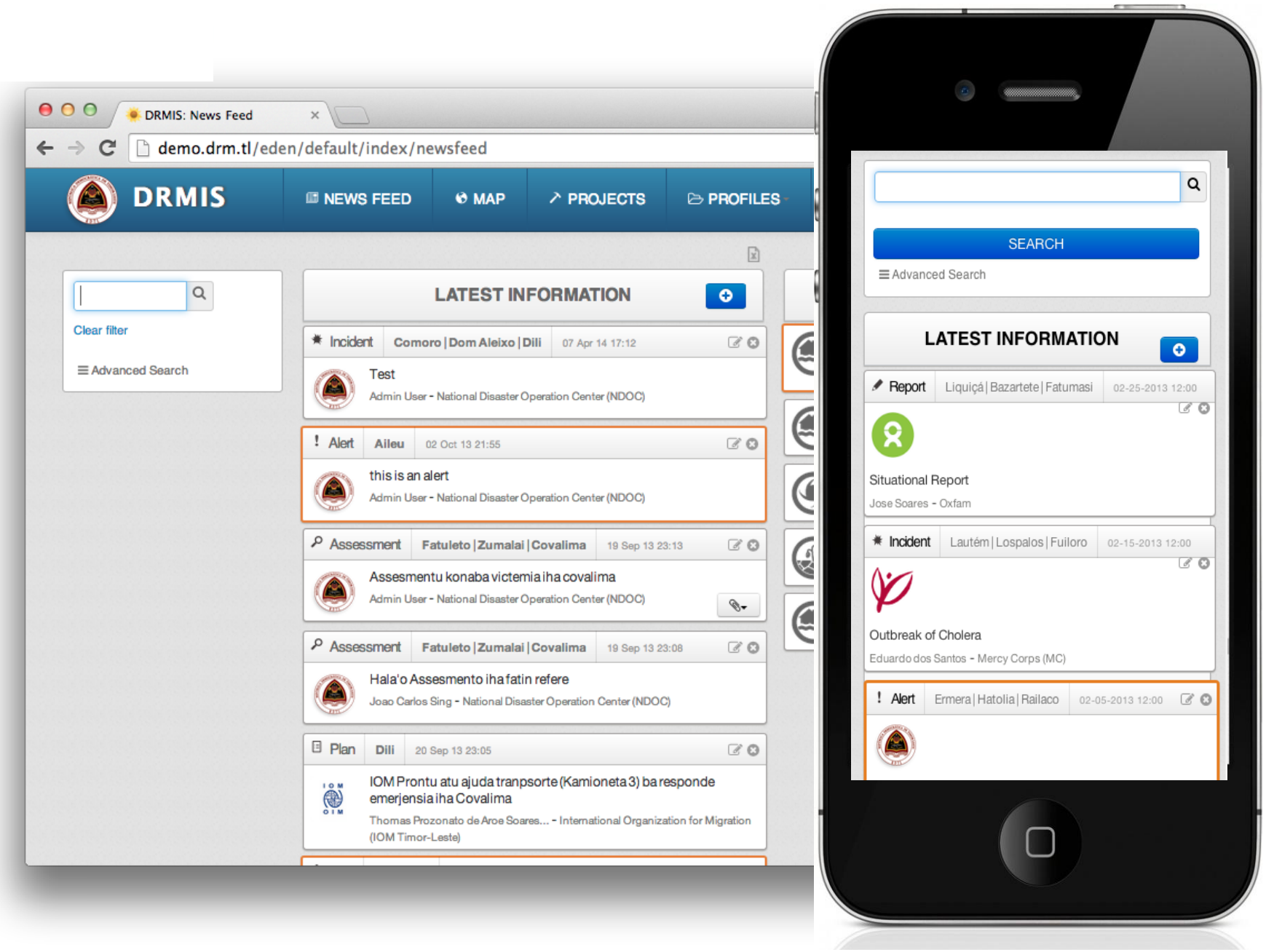
"We've identified the people in our community who need special help."

4 Self-sufficiency

"We're holding monthly first aid trainings and CERT workshops."

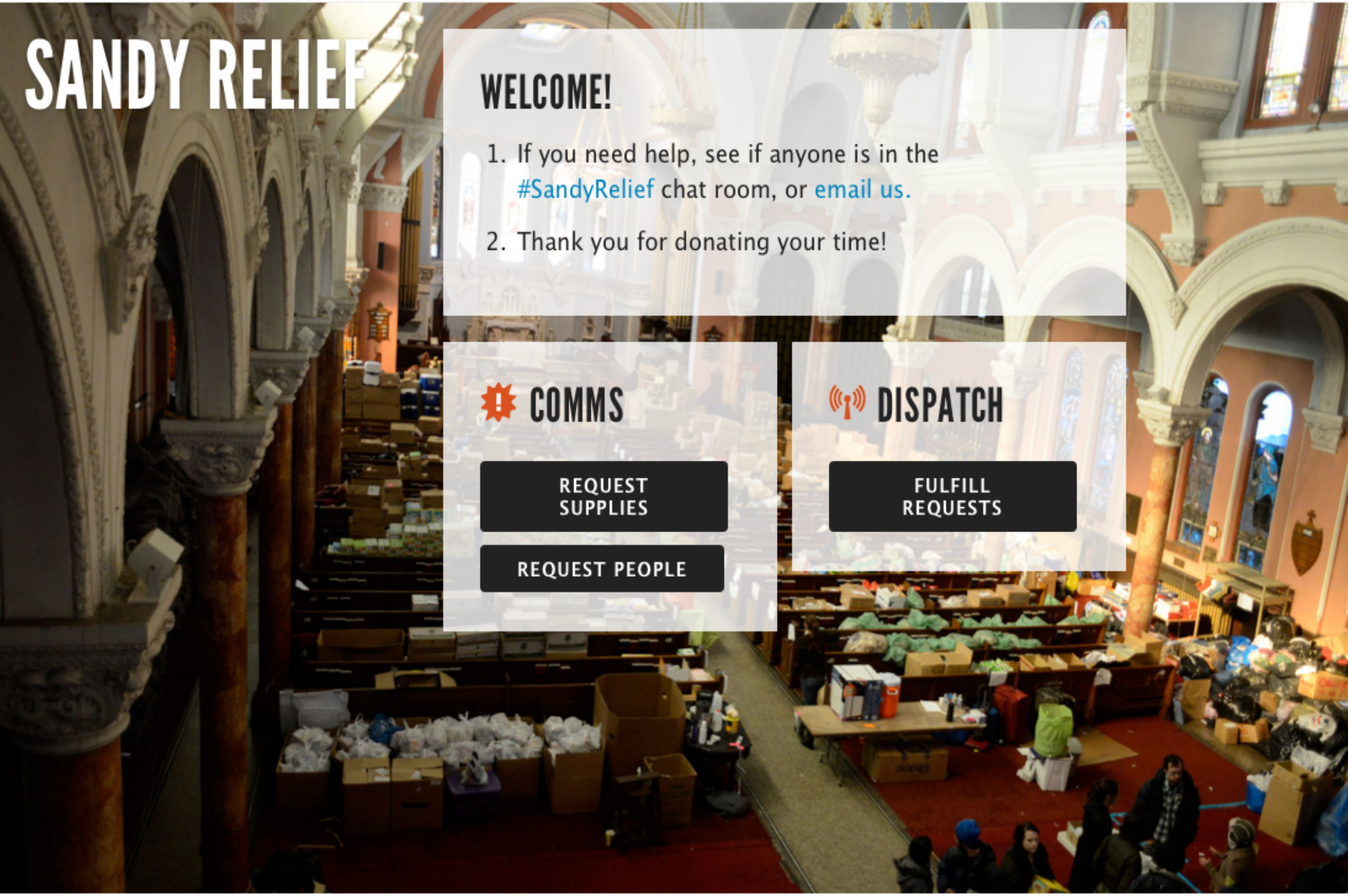
Smart Phones

By 2020 80% of Adults will have a smartphone


DRMIS: News Feed
demo.drm.tl/eden/default/index/newsfeed
DRMIS
NEWS FEED
MAP
PROJECTS
PROFILES
Clear filter
Advanced Search
LATEST INFORMATION
Incident | Comoro | Dom Aleixo | Dili | 07 Apr 14 17:12
Test
Admin User - National Disaster Operation Center (NDOC)
Alert | Aileu | 02 Oct 13 21:55
this is an alert
Admin User - National Disaster Operation Center (NDOC)
Assessment | Fatuleto | Zumalai | Covalima | 19 Sep 13 23:13
Assesmentu konaba victemia iha covalima
Admin User - National Disaster Operation Center (NDOC)
Assessment | Fatuleto | Zumalai | Covalima | 19 Sep 13 23:08
Hala'o Assesmento iha fatin refere
Joao Carlos Sing - National Disaster Operation Center (NDOC)
Plan | Dili | 20 Sep 13 23:05
IOM Prontu atu ajuda tranpsorte (Kamioneta 3) ba responde emerjensia iha Covalima
Thomas Prozonato de Aroe Soares... - International Organization for Migration (IOM Timor-Leste)
SEARCH
Advanced Search
LATEST INFORMATION
Report | Liquiçá | Bazartete | Fatumasi | 02-25-2013 12:00
Situational Report
Jose Soares - Oxfam
Incident | Lautém | Lospalos | Fuiloro | 02-15-2013 12:00
Outbreak of Cholera
Eduardo dos Santos - Mercy Corps (MC)
Alert | Ermera | Hatolia | Railaco | 02-05-2013 12:00

Emergent Groups

Increasingly groups spontaneously emerge to play a role in disaster response



SANDY RELIEF

WELCOME!

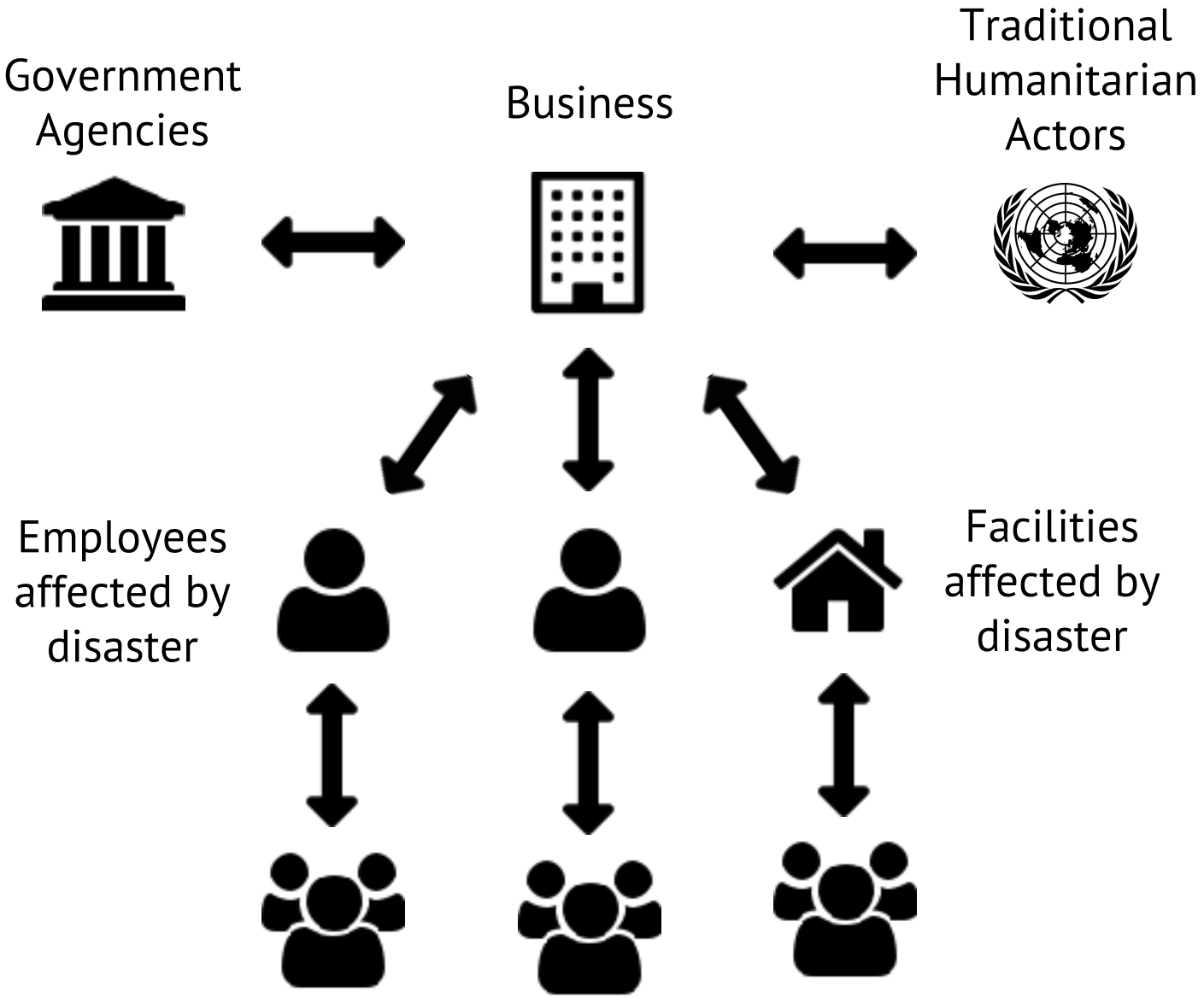
1. If you need help, see if anyone is in the #SandyRelief chat room, or email us.
2. Thank you for donating your time!

COMMS

REQUEST SUPPLIES

REQUEST PEOPLE

DISPATCH

FULFILL REQUESTS

Businesses Emerging...