

工業技術研究院

Industrial Technology  
Research Institute

# Crowdsourcing and Open Platform for Disaster Management

莊國煜

Kuo-Yu slayer Chuang

*slayer@itri.org.tw*



Map Resource: **Open Street Map**

Information Gathering: **Ushahidi**



Resource Management: **Sahana**

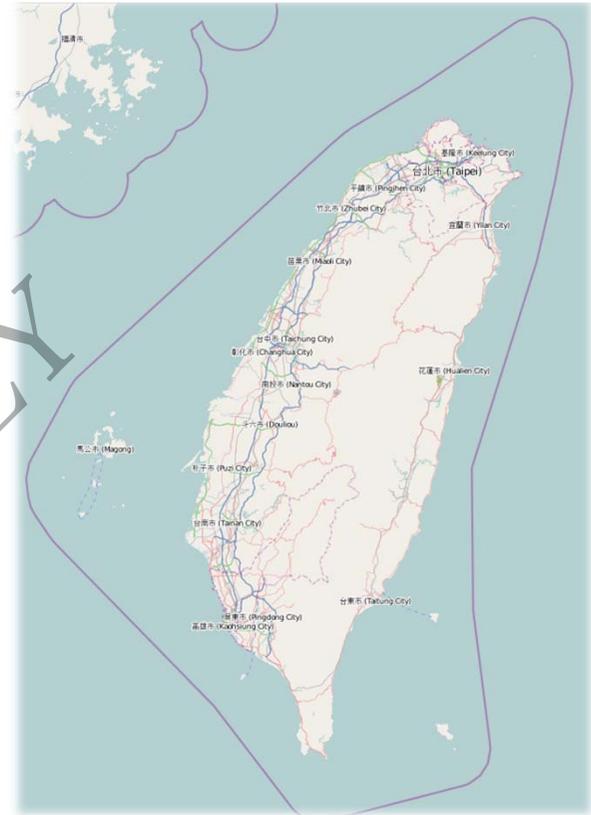
Information Exchange: **Open GeoSMS**

# OPEN PLATFORMS FOR DISASTER MANAGEMENT



Map version Wiki

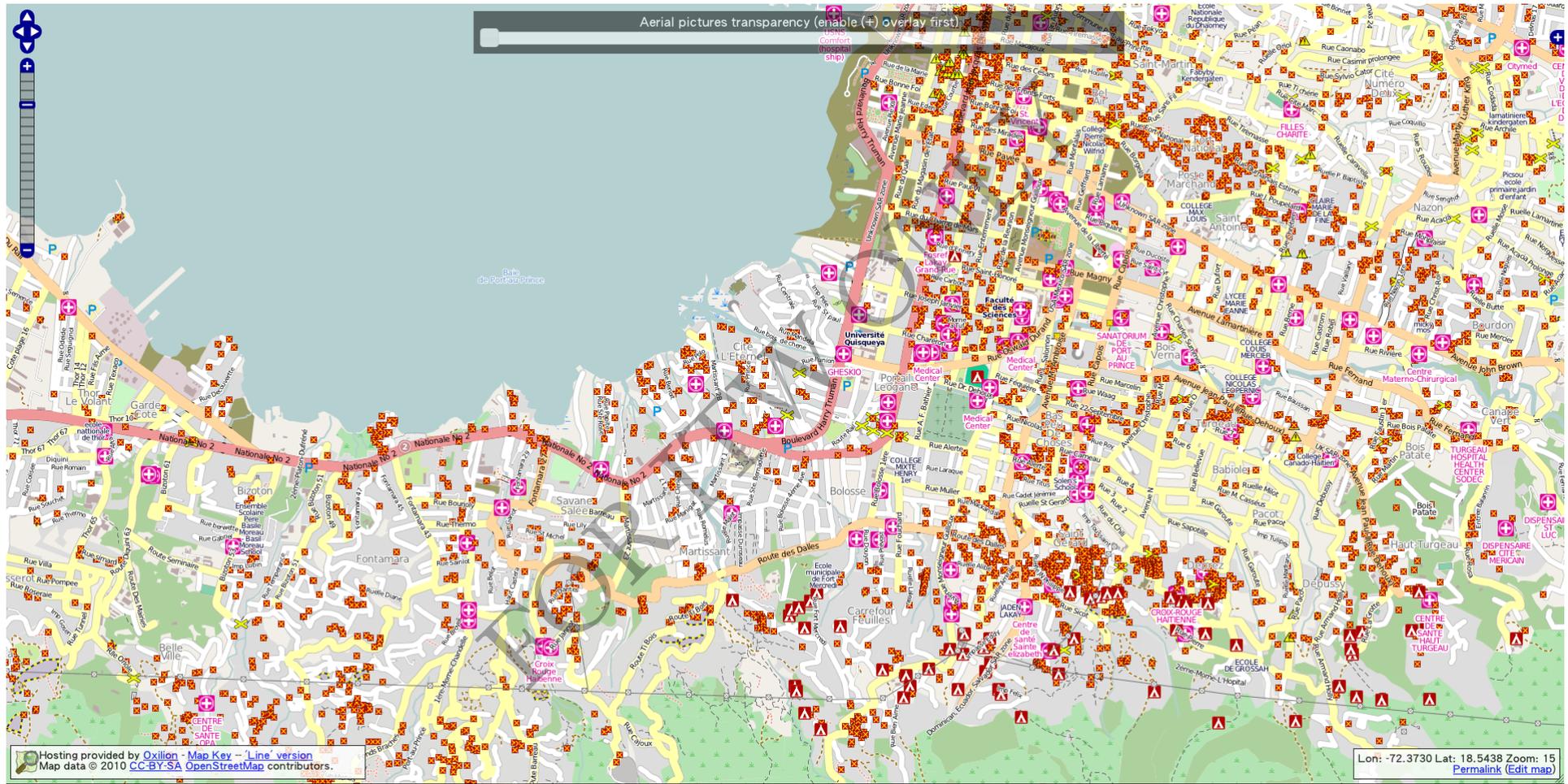
# OPEN STREET MAP





Haiti, before the event on Open Street Map, 2010

# Haiti, now on Open Street Map



<http://haiti.openstreetmap.nl/>

Information Collection  
Visualization  
Interactive Mapping.



# Ushahidi means Testimony in Swahili

Ushahidi.com

HOME REPORT AN INCIDENT CONTACT US ABOUT BLOG HOW TO HELP

View A Timeline Of Events »

Map Satellite Hybrid

- [Feb 9, 2008] [Naivasha youth is organizing a peace...](#)
- [Feb 3, 2008] [Using sport as antidote to violence...](#)
- [Feb 1, 2008] [Reaching out to the Mungiki...](#)
- [Jan 31, 2008] [Roadblocks removed after peace effo...](#)
- [Jan 27, 2008] [Police quelling an uprising by yout...](#)
- [Jan 27, 2008] [Killings in Naivasha...](#)
- [Jan 27, 2008] [Naivasha - house burned down with 2...](#)
- [Jan 27, 2008] [Violence in Naivasha...](#)

More »

Filter By Category

- ALL CATEGORIES
- RIOTS
- DEATHS
- PROPERTY LOSS
- GOVERNMENT FORCES
- CIVILIANS
- LOOTING
- RAPE
- PEACE EFFORTS
- INTERNALLY DISPLACED PEOPLE

GO

Submit An Incident!

Submit Via SMS

Send your SMS to 6007 on your phone (Safaricom/Celitel)

Subscribe To Ushahidi News

TAGS: [ALL](#), [Riots](#), [Deaths](#), [Property Damage](#), [Government Forces](#), [Civilians](#), [Looting](#), [Rape](#), [Peace](#)

Incident	Location	Date	Description	Images
<a href="#">Anxiety increases in IDP Camps as supplies</a>	Mathare	Apr 7, 2008	Food and other essential supplies are fast dwindling in the camps for Internally Displaced	

Map the reports of violence in Kenya after the post-election fallout at 2008

Click on the dots to view reports

This is an experimental web service. You may experience a few technical glitches but we are working to improve it

↓ CATEGORY FILTER

- All Categories
- Deaths
- Israeli Ground Forces
- Civilians
- International Aid
- Air Strikes
- Announcements
- Rocket Attacks
- Israeli Casualties
- Palestinian Casualties
- Stats
- Protests
- Twitter Reports
- Israeli Soldier Casualties

From: Dec 2008 To: Jan 2009

Overview of reported incidents over time

Submit an Incident

Submit via SMS | Twitter

<http://labs.aljazeera.net/warongaza/>

# Swine Flu

Tracking the H1N1 virus

SEARCH

Home

Reports

Submit an Incident

Get Alerts

How to Help

MEDIA FILTER → **REPORTS** NEWS PICTURES VIDEO ALL



↓ CATEGORY FILTER

- All Categories
- SUSPECT
- SUSPECTED DEATH
- CONFIRMED
- CONFIRMED DEATH
- CITIZEN REPORTS (UNVERIFIED)
- NEGATIVE

↓ OTHER USHAHIDI INSTANCES

- Ushahidi Beta 0.8

↓ HOW TO REPORT

1. By sending a message to 17062541697
2. By [filling a form](#) at the website

**Submit an Incident**

# 台灣農夫市集地圖

我們需要農夫，農夫也需要我們——為台灣在地食物永續經營走一步路

[首頁](#) [市集訊息列表](#) [通報市集](#) [設定訊息通知](#) [聯繫我們](#) [以智慧型手機瀏覽](#) [延伸閱讀](#)

工研院農產公益平台

本站收集整理台灣各地大小型農夫市集訊息，歡迎大家一起通報新資訊及更新現有資訊，讓所有人都能以最合理的價格，享受最自然新鮮的在地食物。邀請大家貢獻各農夫市集照片與影音資料，請參考 [徵求照片與影音](#)

篩選 [市集訊息列表](#) [新聞](#) [照片](#) [影音](#) [全部](#)

FULL SCREEN MAP



類別過濾 [隱藏]

全部分類

- 每週五
- 每週六
- 每週日
- 雙週六
- 就在一個週六
- 就在一個週日
- 雙週五
- 每天都有
- 不定期市集
- 單週六
- 工研院農產公益平台
- 每周二
- 每周三



### 如何通報

1. 發一封email至 [sahanataiwan@gmail.com](mailto:sahanataiwan@gmail.com)
2. 點選這裡，填寫通報表格

## Farmers' Market Information & Charity Trading Platform

## Resource Management (Match and Dispatch)





# SAHANA サハナ日本チーム Japan Team

Free and Open Source Disaster Management System  
フリー(自由)・オープンソース災害時救援情報共有システム

## ▼ Sahanaについて

Sahanaでできること  
Sahanaコミュニティ  
お問い合わせ

▶ お知らせ  
ご協力お願いします  
バグ・問題報告

## ▼ Sahana利用ガイド(作成中)

▶ ユーザガイド(翻訳版)  
ユーザ登録  
支援要請  
▶ 組織情報の登録  
避難所の登録

## ▼ 開発者用文書

APIリスト  
Sahana Android  
▶ Sahana Edenのインストール  
Sahana Edenの翻訳  
++ 日本語版構築

## Sahanaとは

Sahana (サハナ) とは、災害支援に必要な被災状況、支援情報、避難所や物資、施設、ボランティアなどの情報を集め、次の行動のために分析、対策をおこなうためのツール(道具)です。Sahanaを利用することで、問題をわかりやすく地図上に表示などをして視覚的に問題を表示、関係者が様々な情報を一元的に管理・共有をし、次の行動に役立てることができます。

ユーザーとしては自治体やボランティア団体を想定しています。実際に使うときに必要なマニュアルなどの整備も現在進めています。

Sahana (サハナ) の機能については [Sahanaでできること](#) にまとめてありますのでごらんください。

➡ Sahanaのご利用はこちらへどうぞ

## お知らせ



# 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.



[Click anywhere on the map for full functionality]

### 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.



[About Us](#) | [Contact](#) | [Help](#) | [Privacy](#)

Powered by SAHANA EDEN

<http://rmsdemo.aidiq.com/>



工業技術研究院  
Industrial Technology  
Research Institute

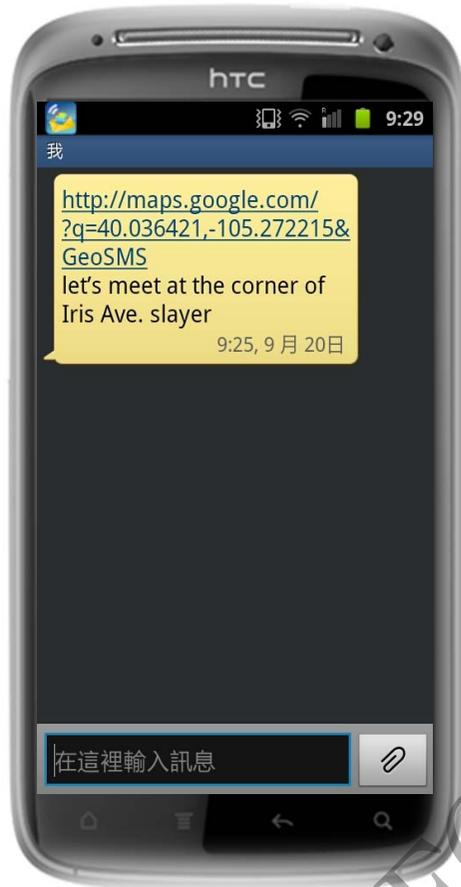


An Open Standard on **SMS**  
for Exchanging Location Information

# Open GeoSMS





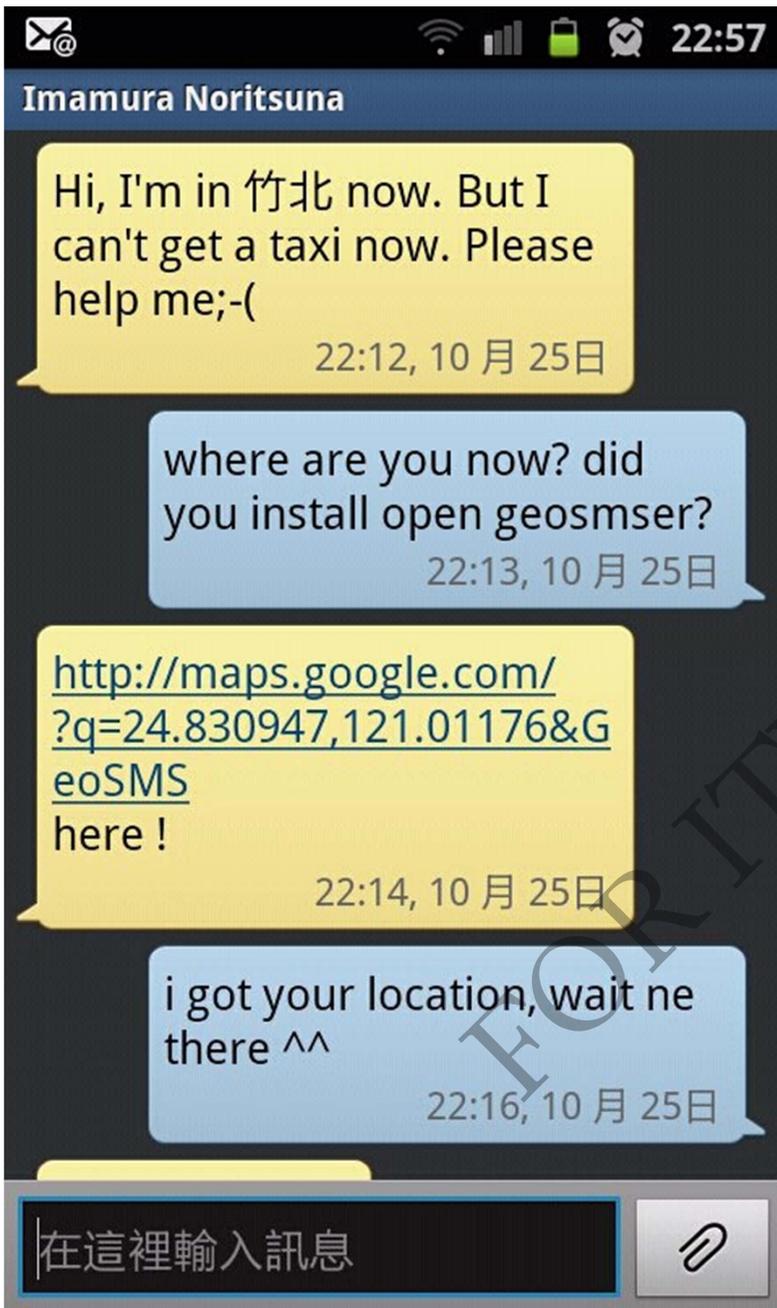


<http://maps.google.com/?q=40.036421,-105.272215&GeoSMS>  
let's meet at the corner of  
Iris Ave. slayer

**Open GeoSMS = SMS + Location**



Open GeoSMS has now adopted by OGC and reviewed by ITU-T and ITU-D



UNOG



578239

UNOV  
SECOND UN-SPIDER INTERNATIONAL  
EXPERT MEETING

CHUANG

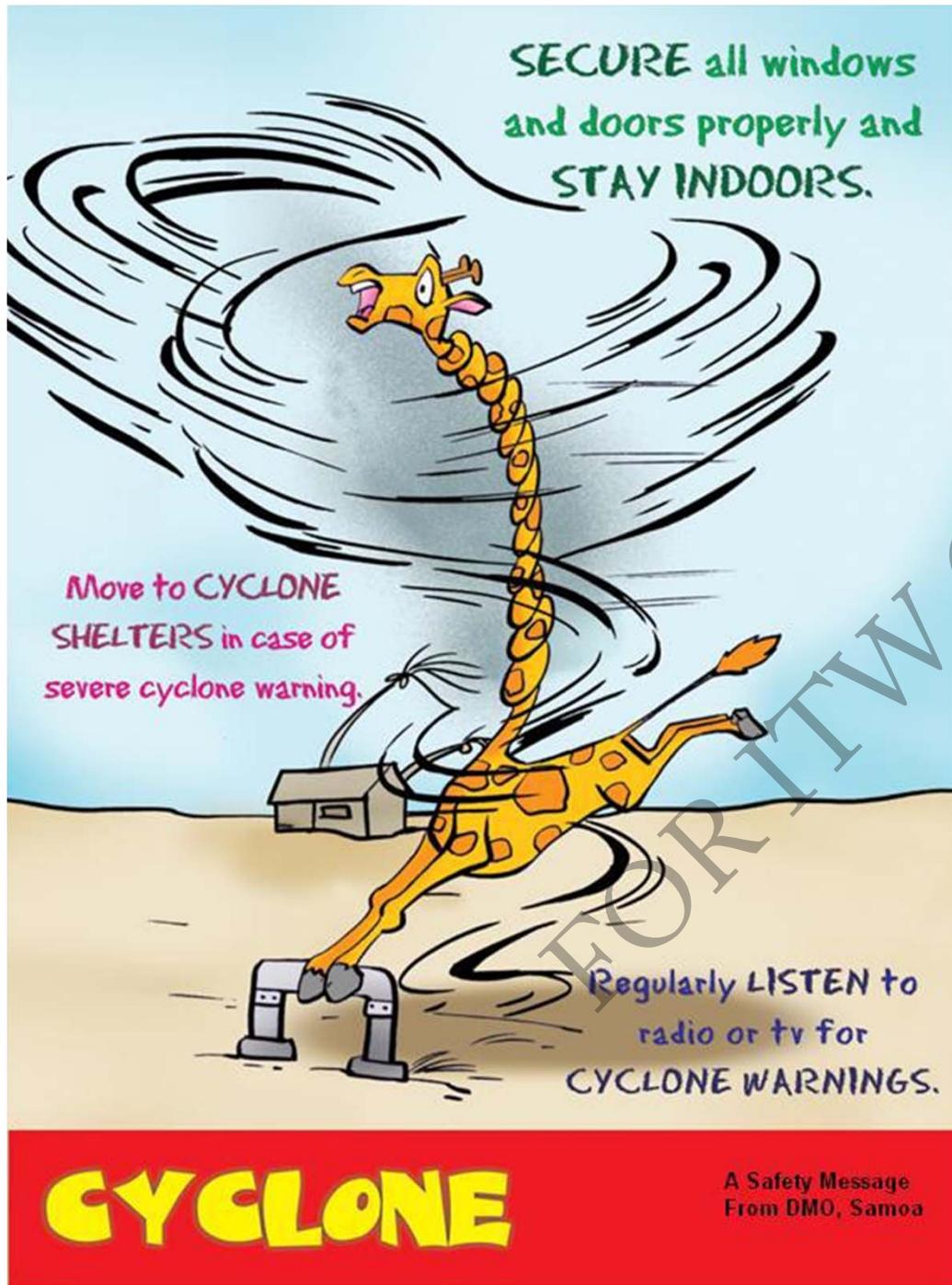
Kuo-Yu

ITRI

DELEGATION

Expires

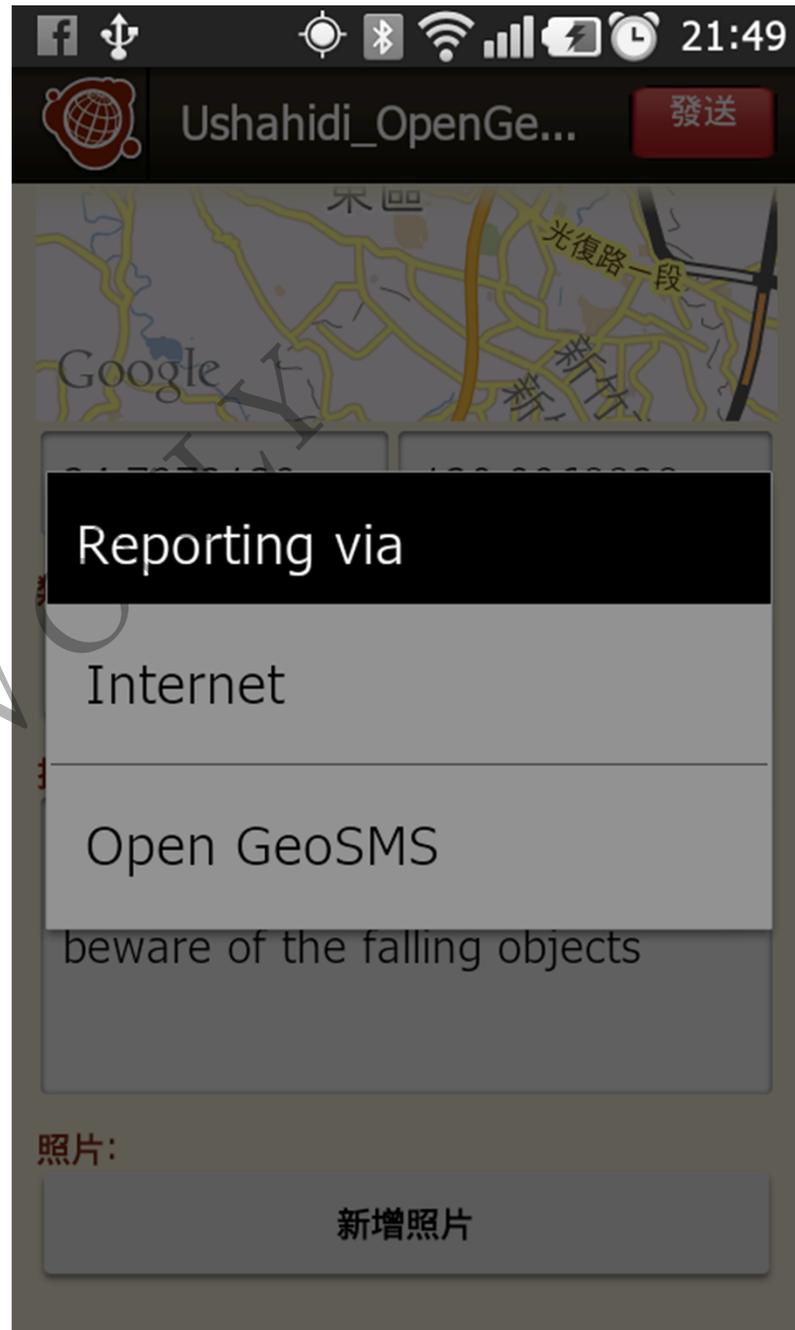
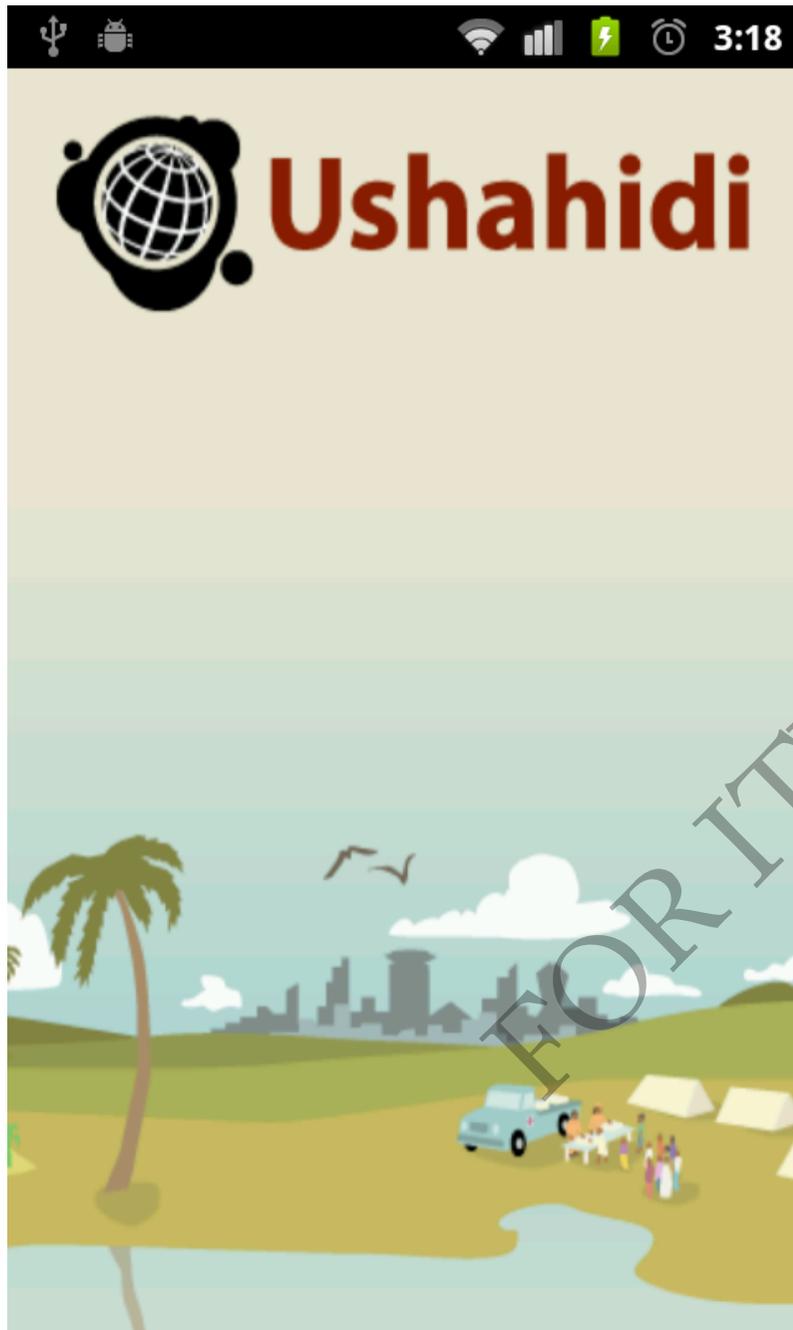
16.11.2011



# Tools

Ushahidi on server  
Google docs

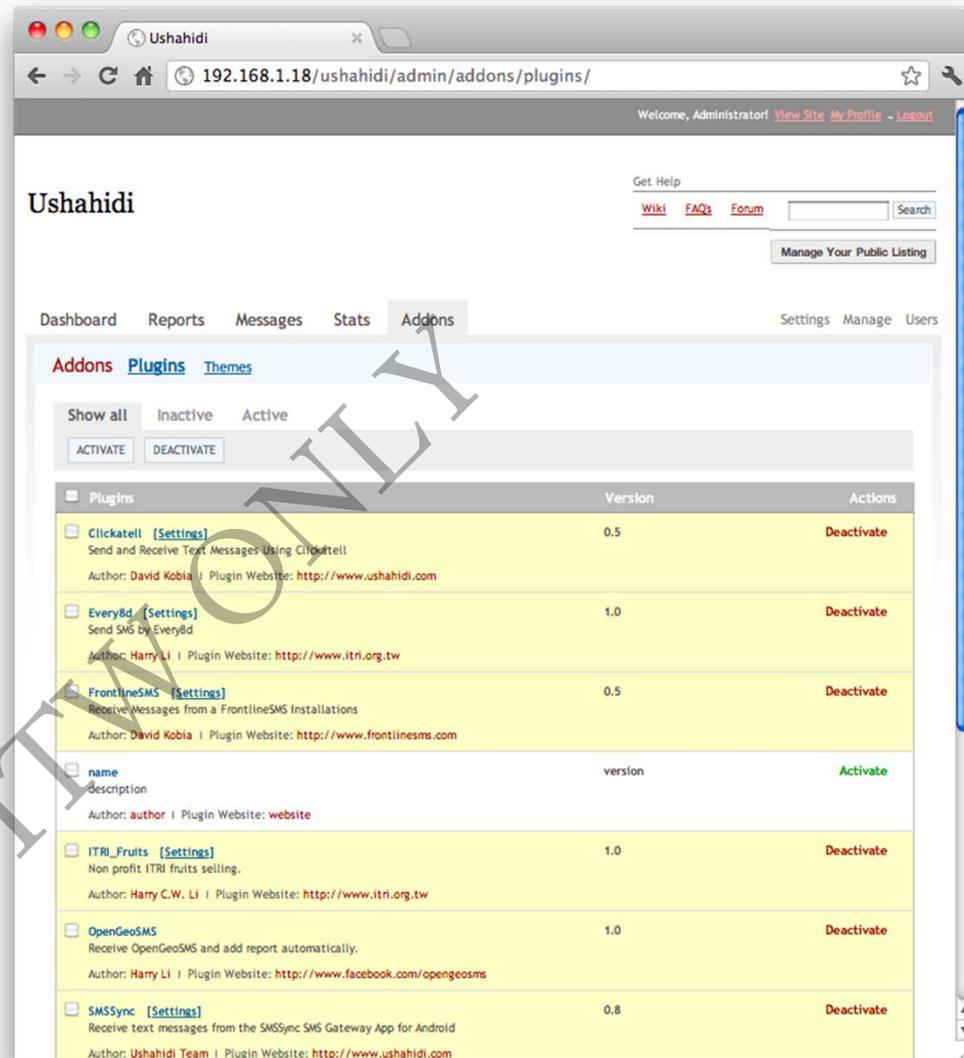
Want to add **sms**  
capability to alerts





We shipped 5 mobile phones with our Open GeoSMS enabled Ushahidi to Samoa

Open GeoSMS plugin  
Every8d plugin  
SMSSync plugin



# PLUGINS FOR USHAHIDI



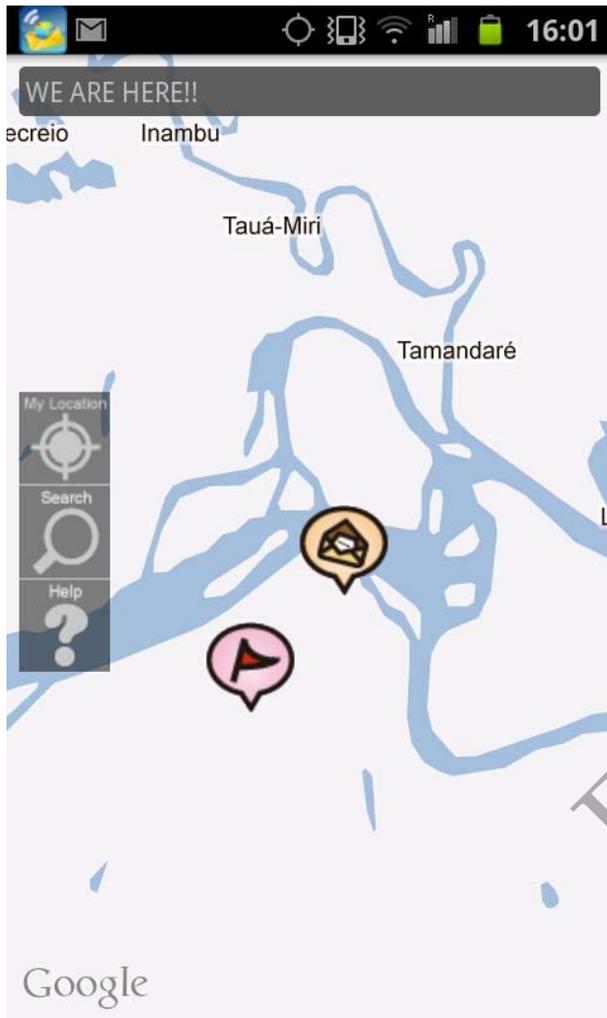
Tzu-Chi (慈濟)

Over one million volunteers all over the world

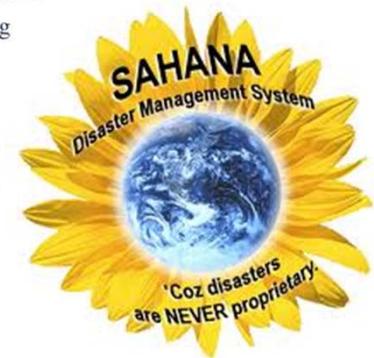
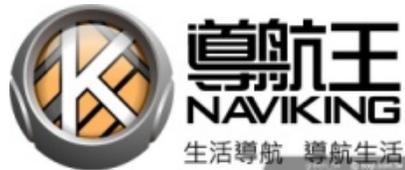
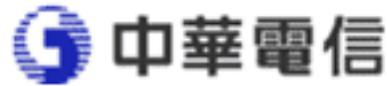
# The Fifth Element



# Sahana Open GeoSMS App







Open GeoSMS Enabled Service





*We enable Disaster Management and Response with ICT,  
Mobility, and Location Awareness*

# Open GeoSMS