

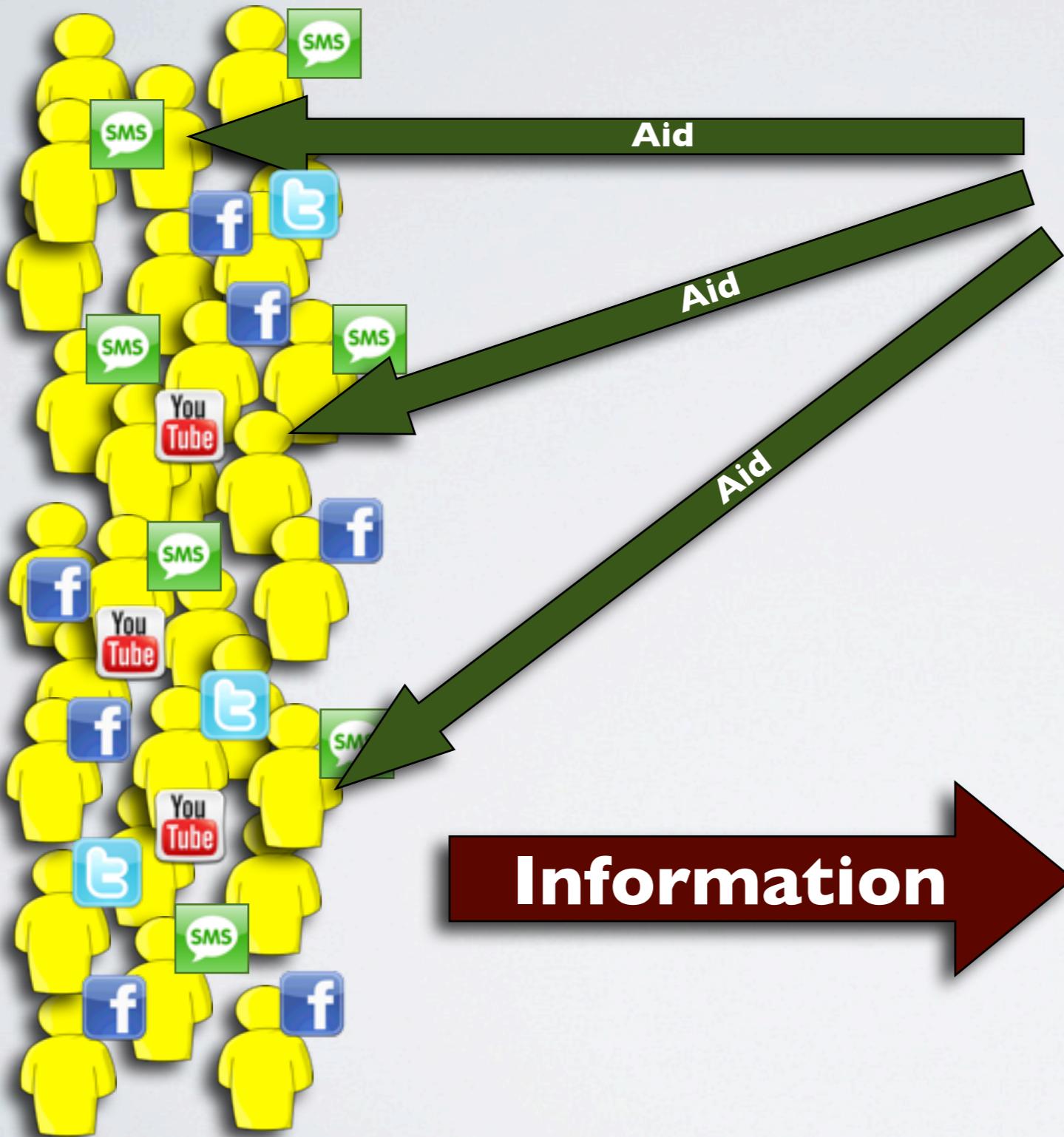
Lives on the Line

Securing Crisis Maps in Libya, Sudan, and Pakistan

DEFCON 19 - 2011
george chamales - rogue genius llc

**THE HUMANITARIAN TECHNOLOGY COMMUNITY
NEEDS YOUR HELP.**

CRISIS





HAITI



Demande aide 4636
je suis perdu enbas
une maison 2 etage
no 147 av christophe
chanel carrefour

I'm asking for help. I
am lost beneath a
house. Second Floor
147 Avenue Christophe
Chanel Carrefour



**MISSION
4636**



NATURAL DISASTERS DON'T SHOOT BACK



PAKISTAN

SMS TO 3441

{ FL + Your Message + Exact Location }



SUBMIT A REPORT

HOME REPORTS BLOG SUBMIT A REPORT GET ALERTS ABOUT US VOLUNTEER

FILTERS → REPORTS NEWS PICTURES VIDEO ALL



4 CATEGORY FILTER

- █ ALL CATE
- ! EMERGE
- █ FOOD
- █ WATER A
- █ HEALTH
- █ MIGRATI
- █ SHELTER
- █ LOGISTI
- █ FLOODIN
- █ SECURIT
- █ PROTECT
- █ INFORMA
- + SERVICE
- + VOLUNTE

HOW TO R

1. By sending a message to submit@paki
2. By filling this form
3. Calling 021 3 1234567890 a voice mes
4. Sending SMS Message + Y

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Taliban issues threat to 'foreign horde' of aid workers in Pakistan helping flood relief effort

By JAMES WHITE

Last updated at 5:28 PM on 27th August 2010

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Like

Foreign aid workers could become a target for Taliban fighters as they help Pakistani flood victims, a spokesman for the militant group claimed today.

As increasing numbers of aid agencies fly into the disaster-hit country to offer assistance spokesman Azam Tariq said the 'horde of foreigners' could be at risk.

The terrorist group has a history of attacking aid workers, including agencies under the UN umbrella.

Pakistani Taliban spokesman Tariq claimed that the U.S. and other countries that have pledged support are not really focused on providing aid to flood victims but have other motives he did not specify.

'Behind the scenes they have certain intentions, but on the face they are talking of relief and help,' he said.

'No relief is reaching the affected people, and when the victims are not receiving help, then this horde of foreigners is not acceptable to us at all.'

UN humanitarian chief John Holmes said it remains committed to helping flood victims in Pakistan.

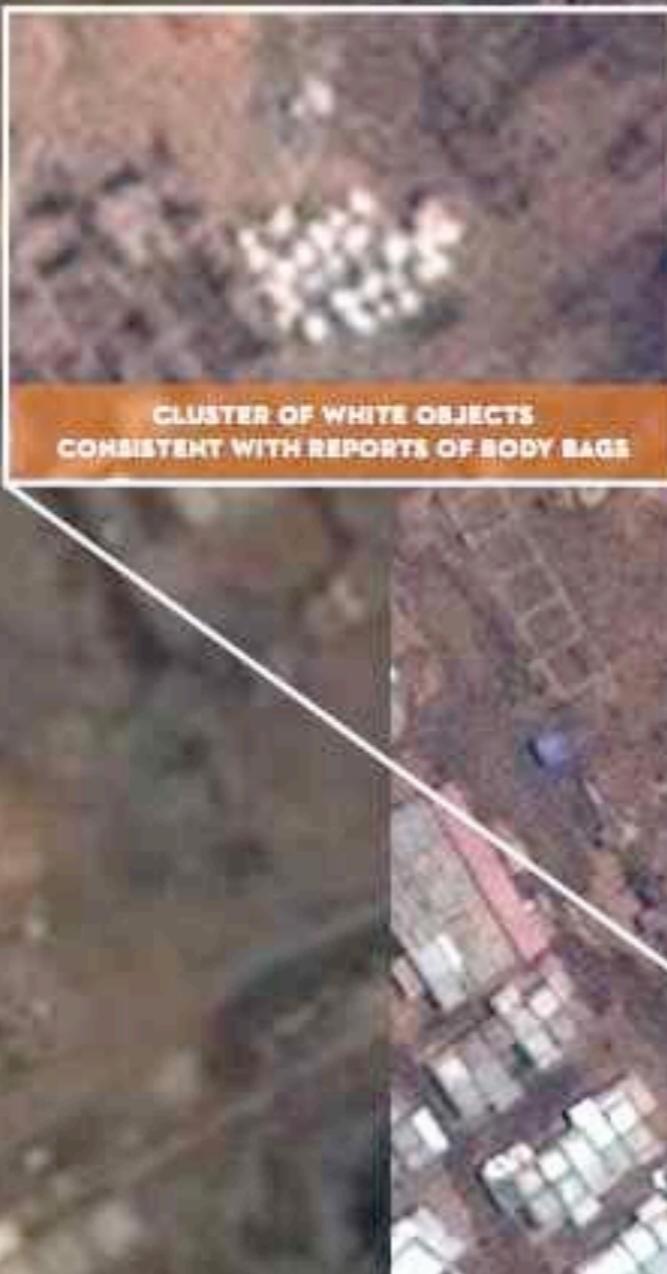


© EPA

Threat: Pakistan Taliban spokesman Azam Tariq, pictured in 2002, has spoken of his group's

17 JUNE

4 JULY



SUDAN

Satellite Sentinel Project

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Sudan Vote Monitor

An Independent Sudan Civil Society Initiative

HOME REPORTS SUBMIT A REPORT GET ALERTS CONTACT ABOUT REFERENDUM
RESOURCES HOW TO HELP BLOG

Reporting for the Referendum is now Open, please send SMS messages to +45609910343
Reporting is anonymous. Please share this number with your friends!

FILTERS **REPORTS** NEWS PICTURES VIDEO ALL

CATEGORY FILTER [HIDE]

- ALL CATEGORIES
- VOTING ACCESS (موجع التصويت)
- DISTURBANCES (ال擾乱)
- VOTING PROCESS (عملية التصويت)
- CAMPAIGNING (حملة انتخابية)
- LOGISTICS (الترتيبات)
- VOTE REGISTER (سجل التصويت)
- VOTING RESULTS

OTHER LAYERS [HIDE]

- SOUTHERN STATES (الولايات الجنوبية)
- NORTHERN STATES (الولايات الشمالية)

How to Report

1. By sending a message to +45609910343
2. By sending an email to reports@sudanvotemonitor.com
3. By filling this form

Obviously
Faked Reports

Site Blocked
by IP address

Inadvertent
Spam DOS



REUTERS



LIBYA

Libya Crisis Map
Social Media Mapping for Common Operational Datasets

SEARCH

OCHA

HOME REPORTS GET ALERTS SOURCES ANALYSIS BLOG, TWITTER & RSS VOLUNTEERS BIG MAP

Reports: Showing page 1 of 27 pages

Total Reports	Avg Reports Per Day	% Verified
535	33.44	42.06%

Jordanian doctor reported missing **UNVERIFIED**
DESCRIPTION REDACTED
Benghazi, unable to determine more precise location

Aerial attack on oil transportation terminal **VERIFIED**
DESCRIPTION REDACTED
30.6315,18.348767

Djerba airport - 7 Red Cross/Red Crescent flights have arrived **VERIFIED**
DESCRIPTION REDACTED
Zarzis, Djerba Airport

Latrine construction by Red Cross/Red Crescent **VERIFIED**
DESCRIPTION REDACTED
UNHCR Shousha Camp

Tunisian Red Crescent Society border health clinic - Ras Ajdir **VERIFIED**
DESCRIPTION REDACTED
Ras Ajdir

Protecting Observers

Verifying Information

Trusting Volunteer Analysts





@JosetteSheeran

Josette Sheeran

Excellent #Libya "Crisis Map" can help
#UN #WFP plan #humanitarian #food,
also 4 borders w/ #Tunisia #Egypt -
<http://libyacrisismap.net/main>

6 Mar via Twitter for BlackBerry® ☆ Favorite ↗ Retweet ↲ Reply

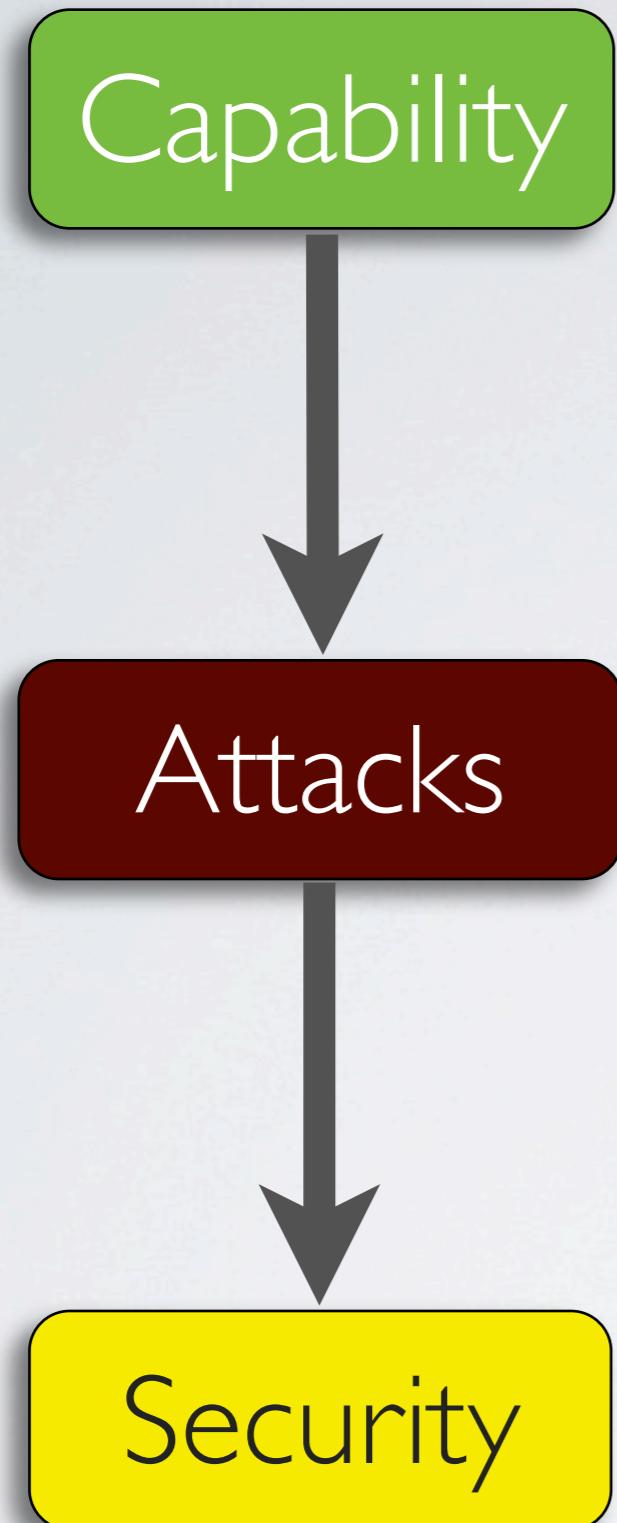
Retweeted by [pauline_c64](#) and 36 others



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“We gave Egyptian National Security a dedicated username and password [to access the Ushahidi platform]”



“Ooh Shiny!”

“Oh \$#!@!”

“Don’t just stand there,
DO SOMETHING!”

Users' Identities
Compromised



People Arrested

Site Knocked
Offline



Lifeline Lost

Deployment
Compromised



Technology
Abandoned

THIS IS WHERE
YOU COME IN

Present What's Been Done So Far

Feedback on Current Best Practices

Generate Interest in the Security Community

LIVE SIMULATION

HOME REPORTS SUBMIT A REPORT GET ALERTS CONTACT US

Attention . Submit first-hand REPORTS from the street to document and share what's happening in your country. Click "Submit a Report", use # on Twitter or e-mail us at . We will DISTRIBUTE reliable reports on http://www.Facebook.com/ and SHARE these stories on our international broadcasts and websites.

FILTERS + REPORTS NEWS PICTURES VIDEO ALL FULL SCREEN MAP

+ CATEGORY FILTER [HIDE]

ALL CATEGORIES

- CIVILIAN KILLED BY MILITARY / POLICE
- PEACEFUL PROTEST
- SOLDIER / POLICEMAN KILLED BY CIVILIAN
- TANK / ARTILLERY DEPLOYED IN CIVILIAN AREA / STREETS
- MILITARY / POLICE SHOOTING INTO PEACEFUL CROWDS
- ARREST OF CIVILIANS
- HOSPITAL INCIDENT - OVERCAPACITY, SHORTAGE OF SUPPLIES
- FUNERAL / FIRING ON FUNERAL

Insert Crisis Here

From May 2011 to Jul 2011 Play

There has just been a _____
in the country of _____.

As a team from _____ we
are responsible for deploying a crisis
map in order to _____.

There has just been a _____

REVOLUTION

NATURAL DISASTER

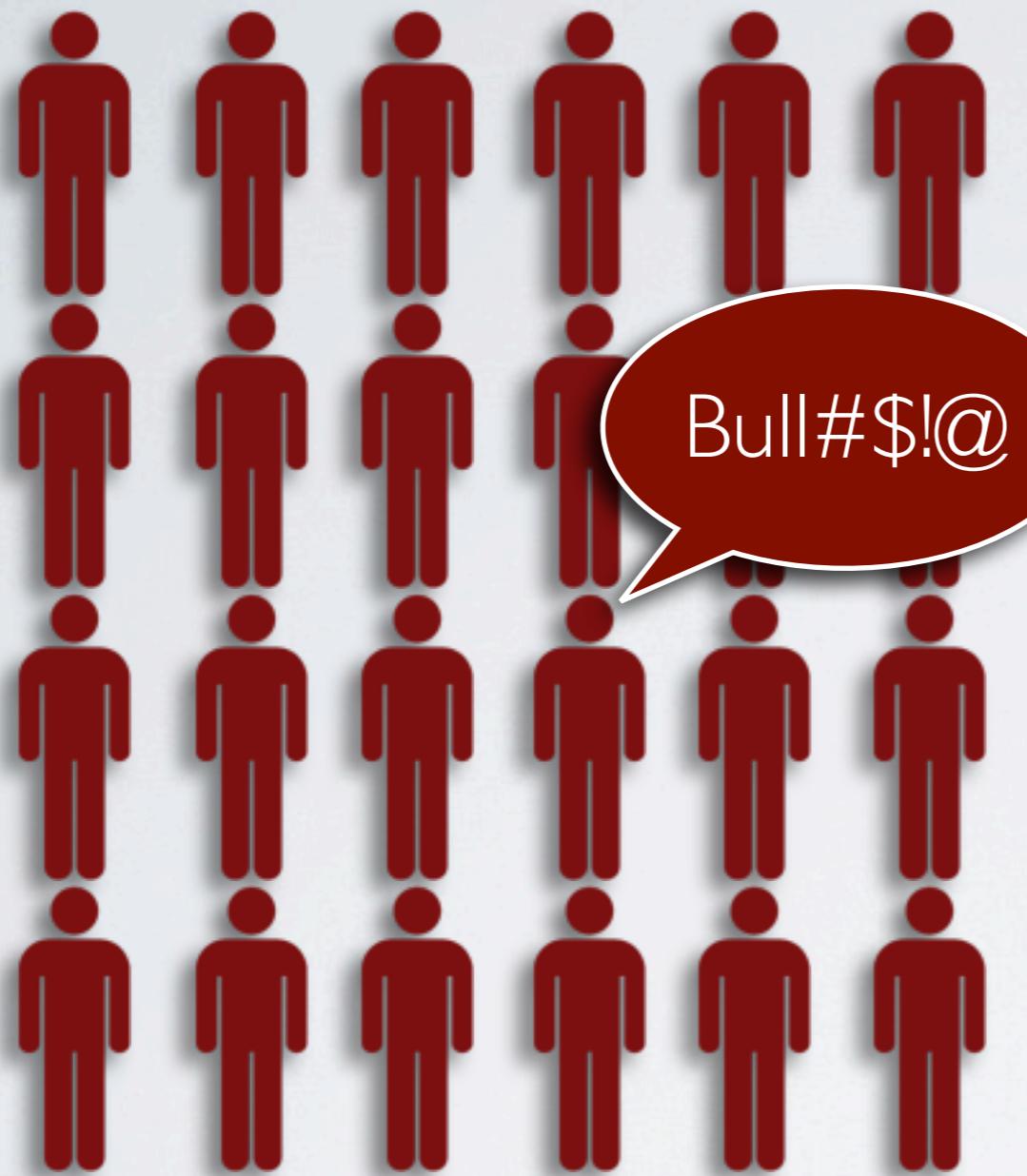
MILITARY CRACKDOWN

CONTESTED ELECTION

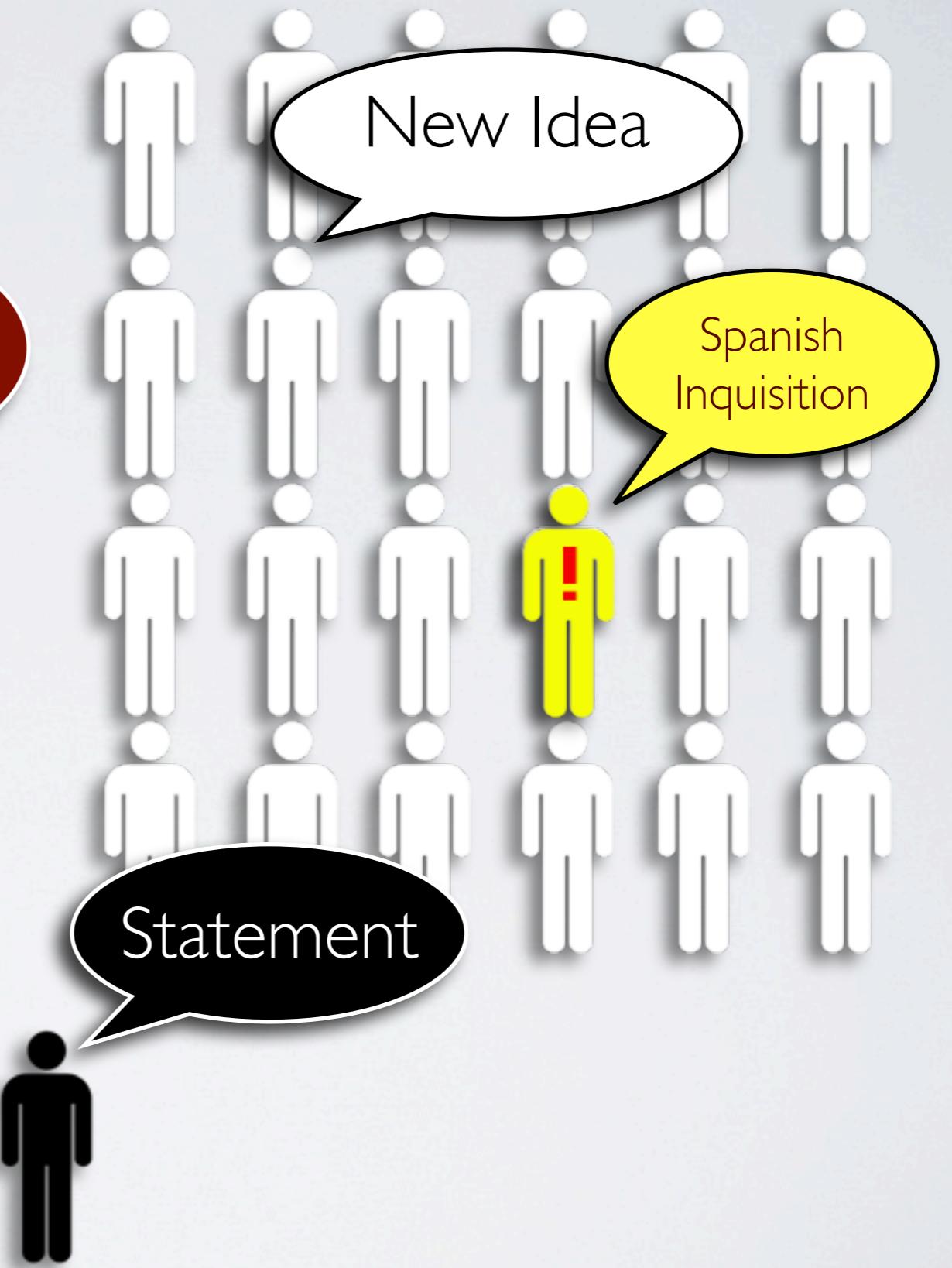
OUTBREAK OF SECTARIAN VIOLENCE

...in the country of _____





Bull#\$!@



...as a team from the



Individual



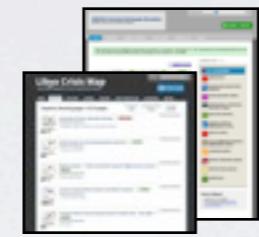
Local
NGO



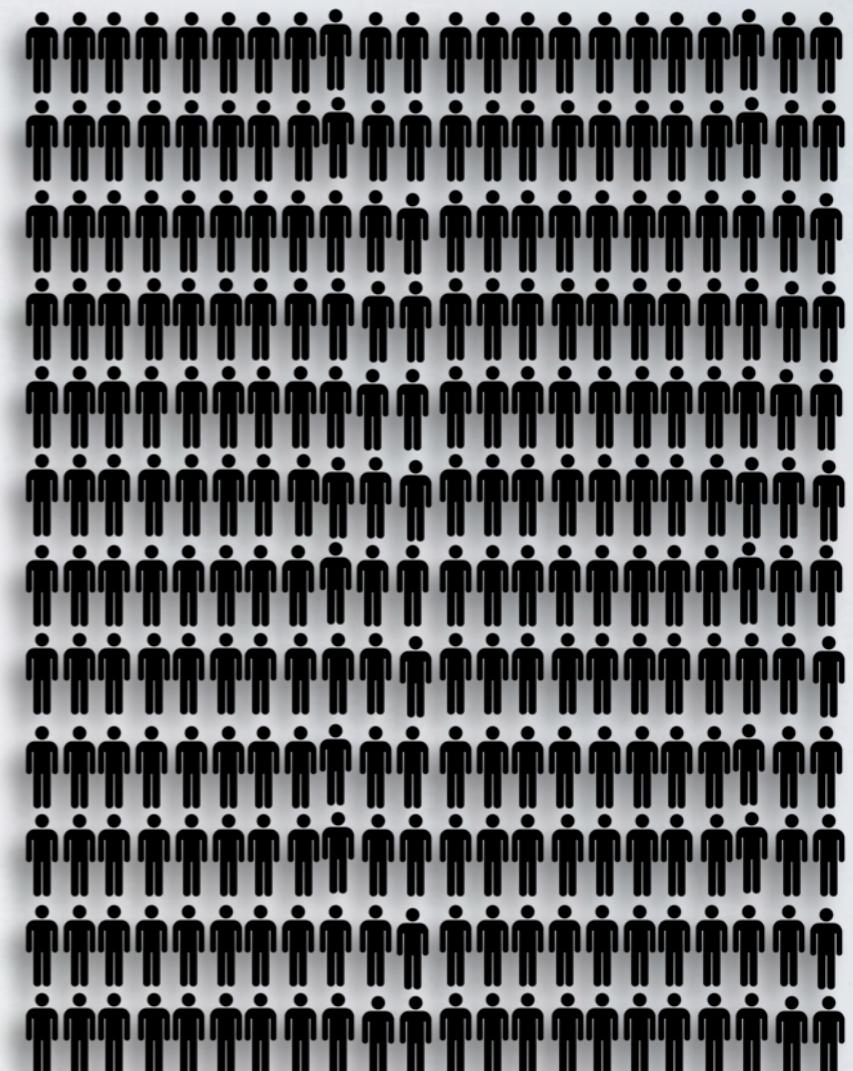
Media
Org



International
NGO



Military



ON THE GROUND

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[Reports & Publications](#)
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[Imprisoned](#)
[Missing](#)
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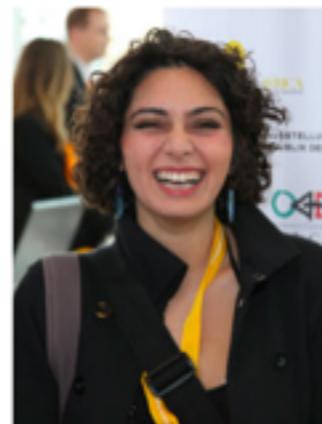
Bahraini blogger dies in custody; journalists under attack



Newspaper headlines
Al-Wasat. (Reuters)

New York, April 12, 2011-- The CPJ has learned that a Bahraini blogger has died in custody. Bahraini authorities, meanwhile, have charged three senior editors at the Al-Wasat newspaper with "inciting violence" and "insulting the army." This latest development follows a months-long pattern of violence and widespread civil unrest. CPJ documents show that Bahraini authorities have arrested at least 15 journalists since January.

RELATED CONTENT



The photo provided by German public radio Deutsche Welle on Monday, July 18, 2011 ...

her.

Iranian blogger arrested before Germany trip

AP Associated Press

AP - Mon, Jul 18, 2011

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TEHRAN, Iran (AP) — A dissident Iranian actress was arrested as she prepared to leave for the Deutsche Welle radio station abroad, the semi-official ISNA news agency reported.

Pegah Ahangarani, 27, was arrested at a prosecutor's office in Tehran. She had been in Berlin for the World Cup, the disputed presidential election and the postelection riots.

Ahangarani is the daughter of Iranian actors Mohammad and Jamshid Ahangarani.

The investigation into her case was opened after Deutsche Welle said Monday it has received reports from Ahangarani that the actress is being held in prison.

The broadcaster urged Iranian auth-

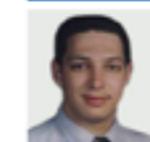
guardian.co.uk

[News](#) | [Sport](#) | [Comment](#) | [Culture](#) | [Business](#) | [Money](#) | [Life & style](#)

Comment is free

Jailing Maikel Nabil betrays the Egyptian people's revolution

By unjustly imprisoning the blogger Maikel Nabil, the Egyptian army only amplifies his simplistic pro-Israel rantings



Mohammad Talat

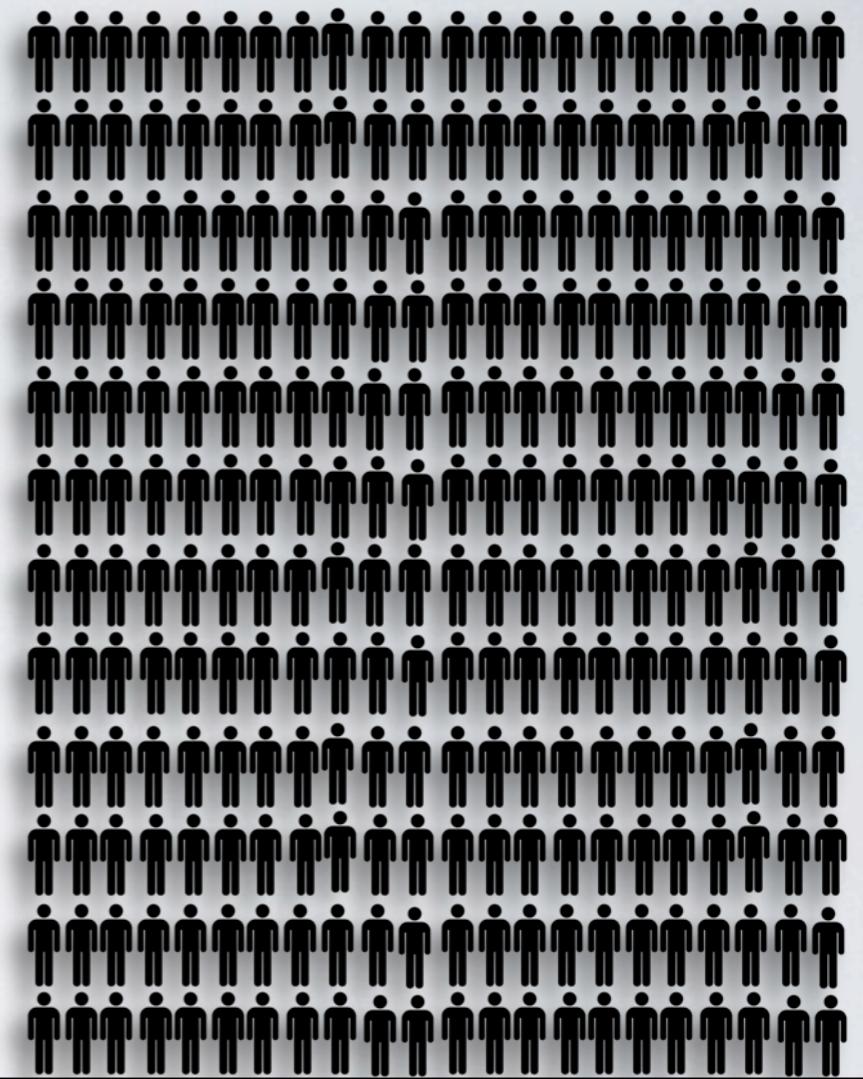
guardian.co.uk, Sunday 24 April 2011 11.00 BST
[Article history](#)

Maikel Nabil is an Egyptian citizen and blogger who was sentenced to three years' imprisonment on 10 April by a secretive military tribunal on the dubious charge of "insulting the army". This is a grave violation of human rights and a betrayal of the objectives of the Egyptian people's revolution. His sentence must be overturned regardless of what one thinks of Nabil's writings or of his politics. Patriotism cannot be invoked to defend injustice.



“We gave Egyptian National Security a dedicated username and password [to access the Ushahidi platform]”

Military



International
NGO



Media
Org



Local
NGO



Individual



**MOST
VULNERABLE**



**LEAST
VULNERABLE**





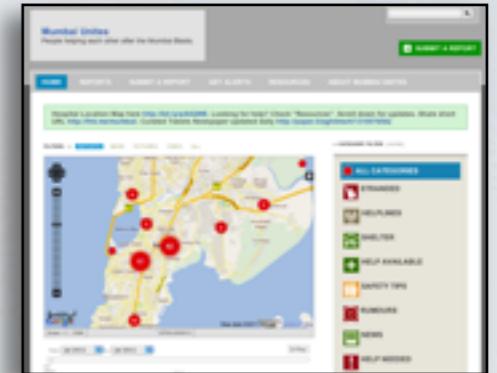




TED Fellow

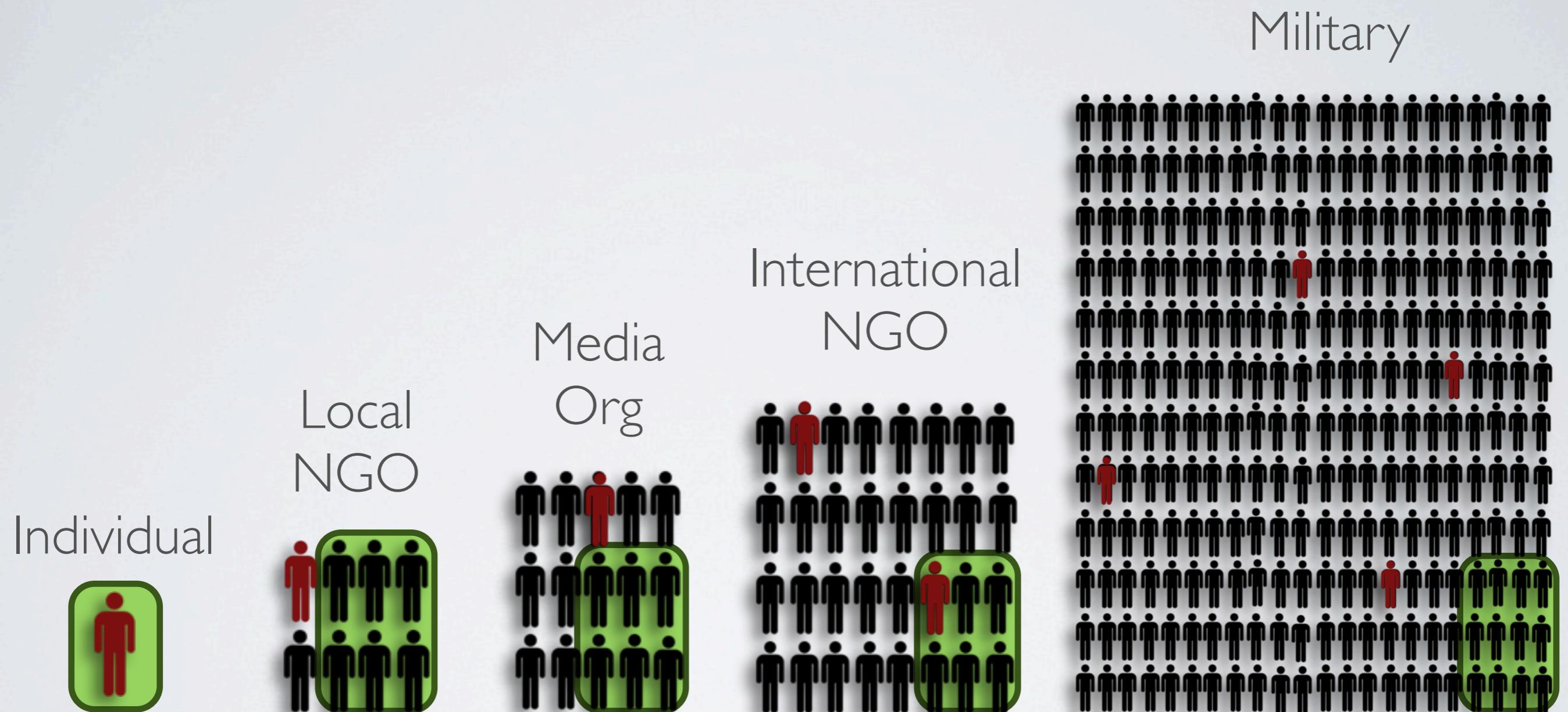


Colleague's
Consulting



Worked on
Pakreport

Reputation



Isolation of Operations

Threats to Deployment Managers

Ignorance



Education
Standards
Best Practices

Direct
Attacks



Anonymity
Bigger the Better

Infiltration



Reputation
Isolate Operations

...we are responsible for deploying a
crisis map



...we are responsible for deploying a crisis map



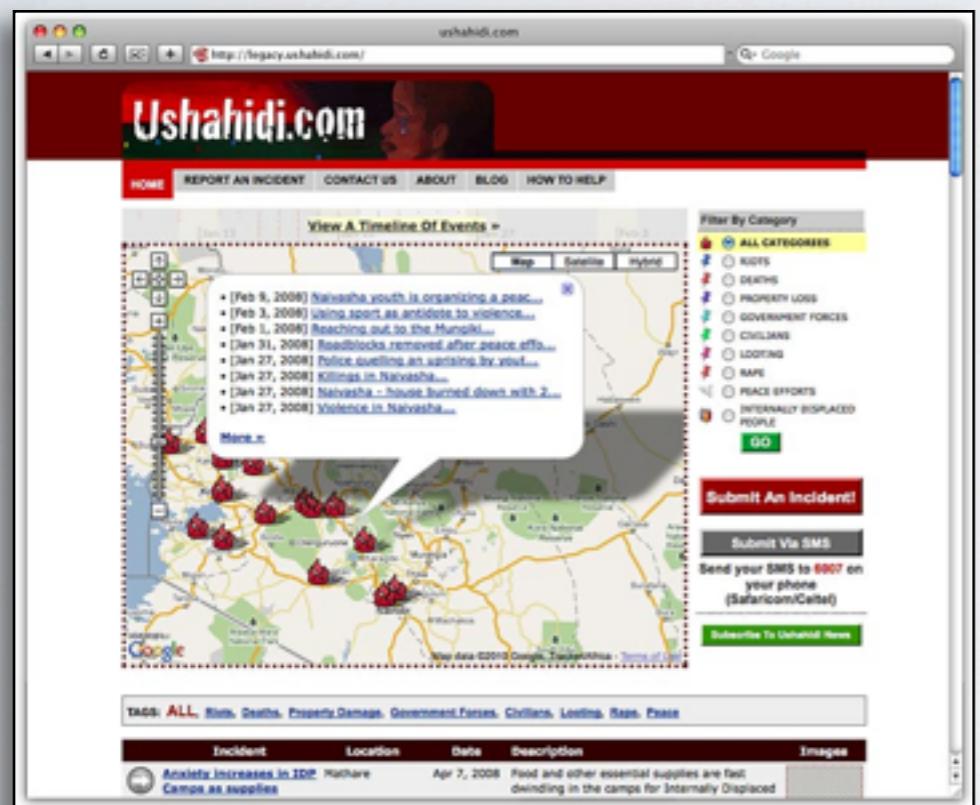
Code it
Yourself



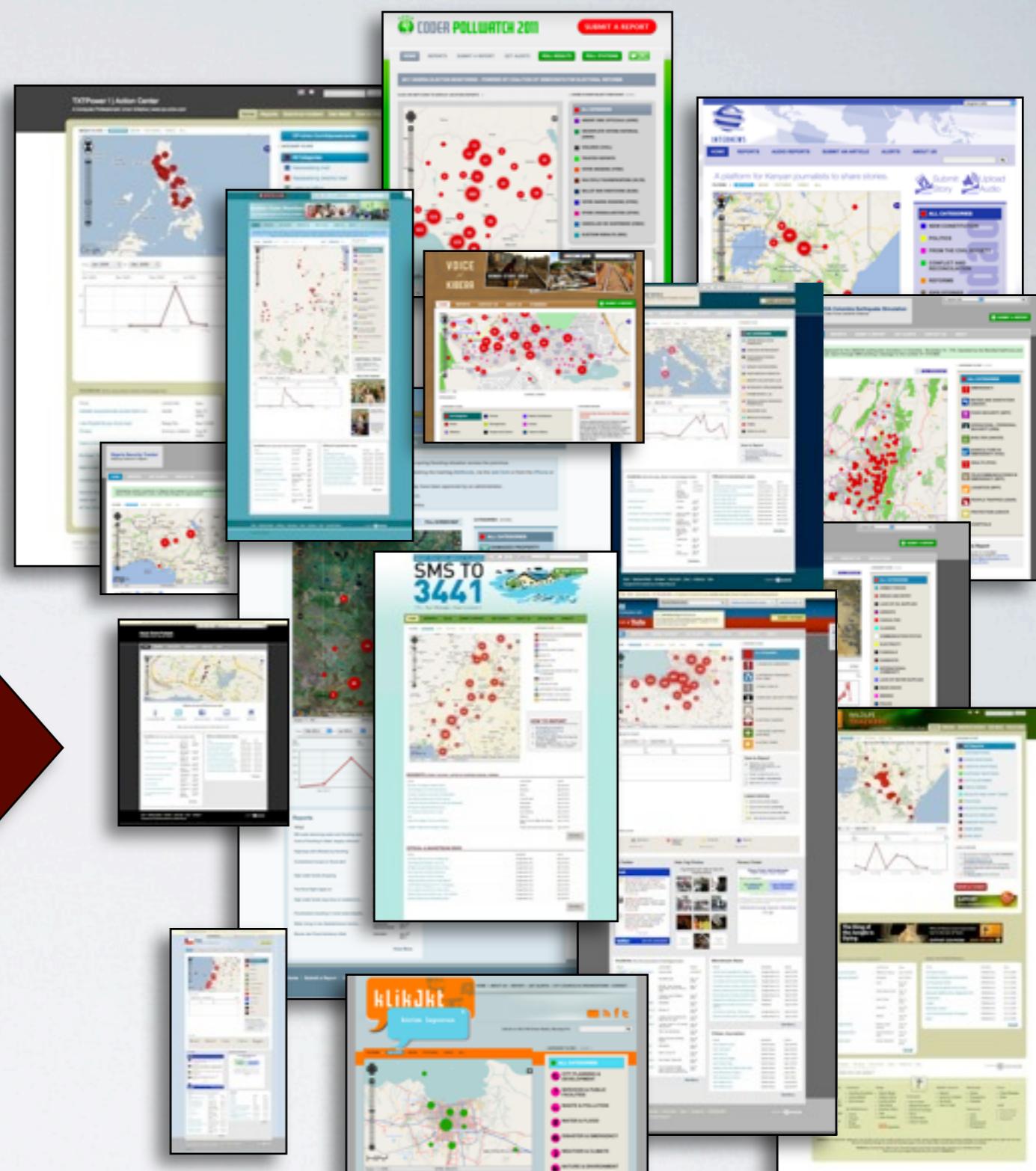
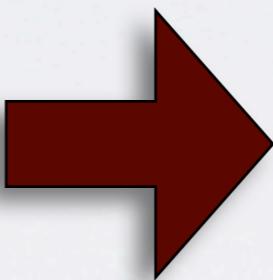
Open Source
Crisis Mapping Apps



Kludge Existing
Services



2008

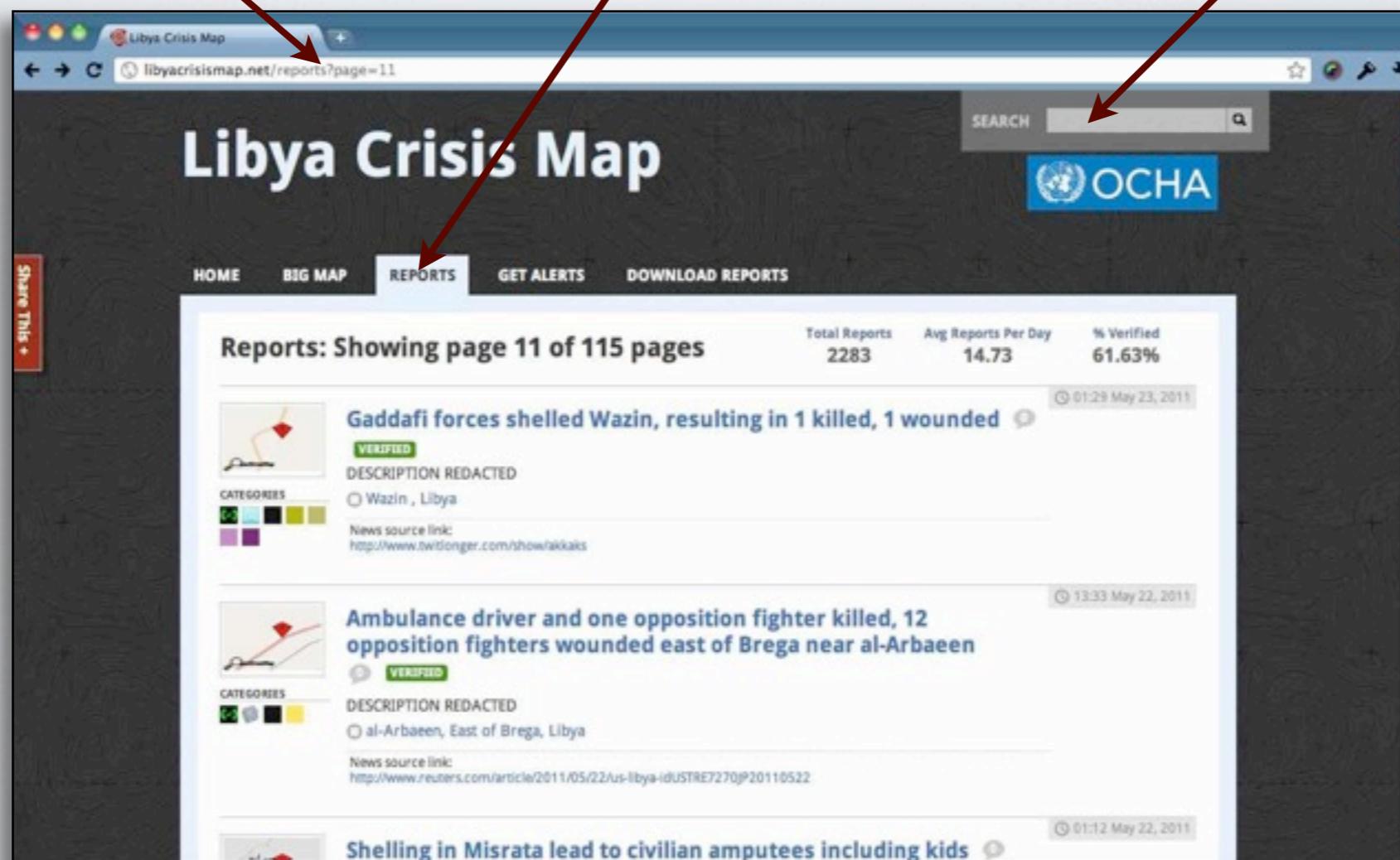


2011

Direct URL Access

Search Leakage

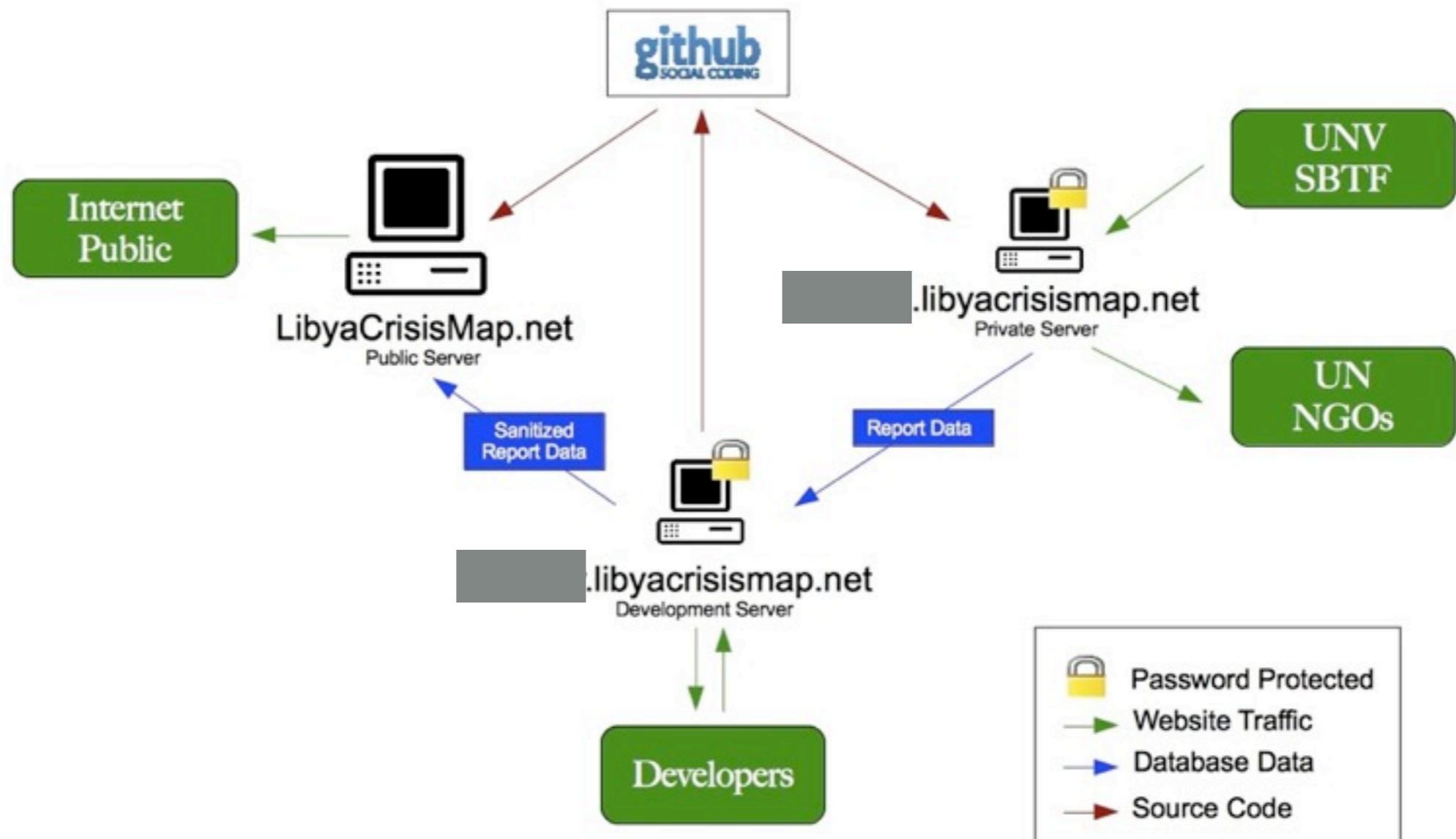
Reports Listing



Reports are private until approved....unless

Libya Crisis Map

Social Media Mapping for Common Operational Datasets



Platform Considerations

Security



Code Vetting
Secure Coding

Adaptability



Source Access
Helpful Authors
Previous Additions

...we are responsible for deploying a crisis map



Local
Server



Internet
Server



The
Cloud

HOME / TECHNOLOGY : THE FUTURE AND WHAT TO DO ABOUT IT.

Block Like an Egyptian

How did the Egyptian government turn off the Internet?

By Christopher Beam

Posted Friday, Jan. 28, 2011, at 4:55 PM ET



As protesters take to the streets in Egypt, government has reportedly [shut down the Internet](#). How does that work? Does Egypt's Internet have an on/off switch?

No. While we don't

ADWEEK



The Murdoch Summer

Michael Wolff asks: When will the end end?



First Mover: Mark Whitaker

CNN's new managing editor on his role at the cable network



Hacked!

Adweek's complete coverage of Rupert Murdoch and the phone hacking scandal

THE PRESS TELEVISION TECHNOLOGY ADVERTISING & BRANDING ADFAK VIDEO

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Headlines: Press: News Corp. Legal Team in Turmo... TV: Foreclosed Homes Become Realt... Tech: China Shuts Down Fake Apple St... Ads & Brands: Ad of the Day: Apple iPad 2

Syria Cuts the Internet Government halts connection, hoping to halt protests By Kari Lipschutz

June 04 2011 Technology

f Share 47 f Like 13 Tweet 13

Syria pulled the plug on the Internet. As an unwavering anti-government movement continues to demonstrate against Syrian President Bashar al-Assad, government officials blocked most of the country's Internet network, cutting off a vital

Advertisement

Cast Your Vote

Real-Time Results

Platform Location

Observable



Encryption
Obfuscation

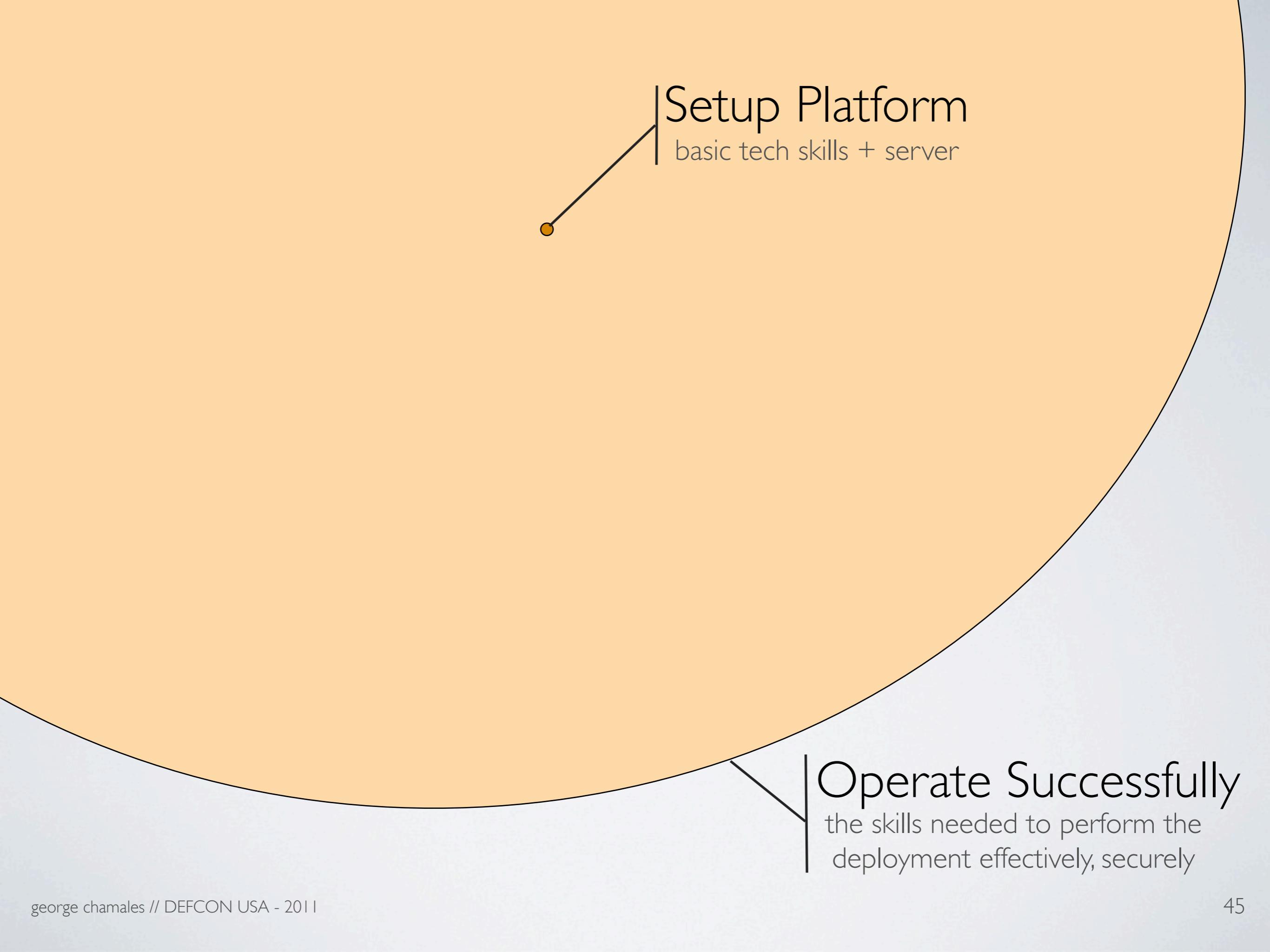
Attackable



DOS Prevention
IP Mobility
Synchronization
Expect Outages

...in order to _____.

?



Setup Platform

basic tech skills + server

Operate Successfully

the skills needed to perform the deployment effectively, securely

Spreading the Word



No One

Private
Network

Everyone



Message Corruption

Spreading the Word

Misinterpretation



Anonymity
Bigger the Better

Corruption



Source Access
Helpful Authors

Collection Sources



Direct
Messages



Social
Media



Professional
Media



A Gay Girl
In Damascus



A Heterosexual
Married American
Guy in Ireland

Collecting Reports

Verification



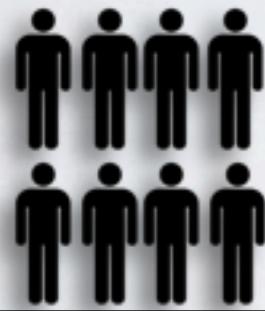
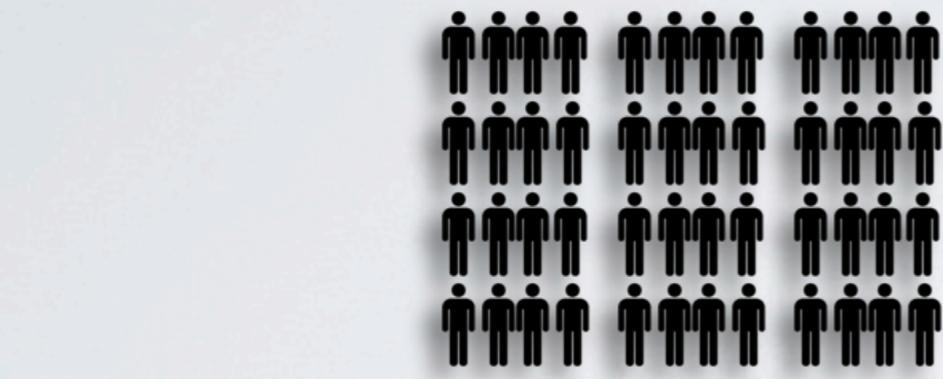
History
Reputation
Collaboration

Collection



Multiple Methods
Expect Outages

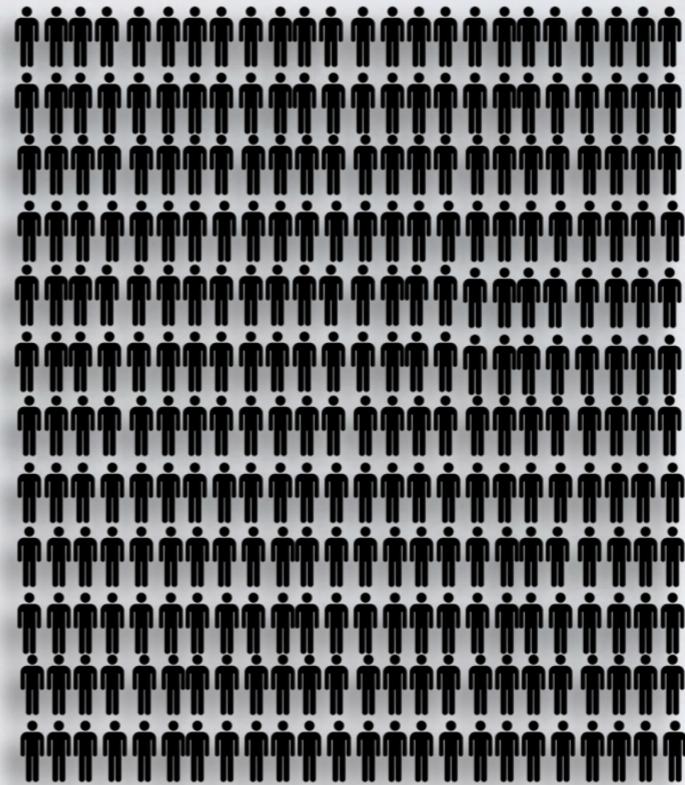
Message Processing



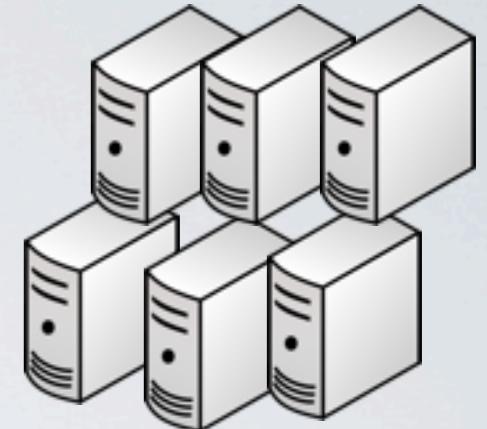
Local Team



Crisis Mapping Community



Any Online Volunteers



Automated Analysis

Google docs ★ Libya Geolocations

Anyone with the link

Updated 140 days ago by r.kirk.morris

Saved

Share

File Edit View Insert Format Data Tools Help

Formula: # Show all formulas

A	B	C	D	E	F	G	H	I
#	INCIDENT TITLE	LOCATION	CATEGORY	LATITUDE	LONGITUDE	APPROVE	VERIFIED	
1	347 Economiste	: 4, Rue Abdelaziz Ethaalbi ,Äi El Menzah V Tunis	Geo-Located, Print, Other,	36.846959	10.174695	YES	YES	
2	349 Le Temps	1004 El Menzah - Tunis - Tunisie Tel : +216 71 238 222 Fax: +216 71 232 761	Geo-Located, Print, Other,	36.846959	10.174695	YES	YES	
3	340 Nessma TV	14, Rue 8006, Monplaisir 1073, Tunis	Geo-Located, TV Stations, Other,	36.815458	10.185734	YES	YES	
4	359 Al-Chourouk	25, Rue Jean Jaures, Tunis 1000, Tunisia	Geo-Located, Print, Other,	36.80325	10.182649	YES	YES	
5	69 Health Clinic - Gasser Ben Ghashir	32.683284,13.175867	Geo-Located, Hospital Location, Other,	32.683115	13.176142	YES	NO	
6	38 HOSPITAL ,Äi Tripoli ,Äi Tripoli Medical Centre	32.854679,13.229728	Geo-Located, Hospital Location, Media News,	32.853498	13.230099	YES	NO	
7	64 Psychiatric Hospital - Tripoli	32.874938, 13.137975	Geo-Located, Hospital Location,	32.875027	13.140584	YES	NO	
8	41 HOSPITAL ,Äi Tripoli ,Äi Tripoli Central Hospital	32.880596,13.190106	Geo-Located, Hospital Location,	32.880717	13.190981	YES	NO	
9	48 HOSPITAL - Tripoli - Al Jalaa Children Hospital.	32.8851, 13.1633	Geo-Located, Hospital Location, Media News,	32.884705	13.164151	YES	NO	
10	39 HOSPITAL ,Äi Tripoli ,Äi Tripoli Eyes Hospital	32.8962,13.200803	Geo-Located, Hospital Location, Media News,	32.895103	13.201043	YES	NO	
11	Desperate refugees continue to flow to Libya's border		Geo-Located, Border Crossing, Refugees/IDPs.					
12								

Low-Tech Crowdsourcing

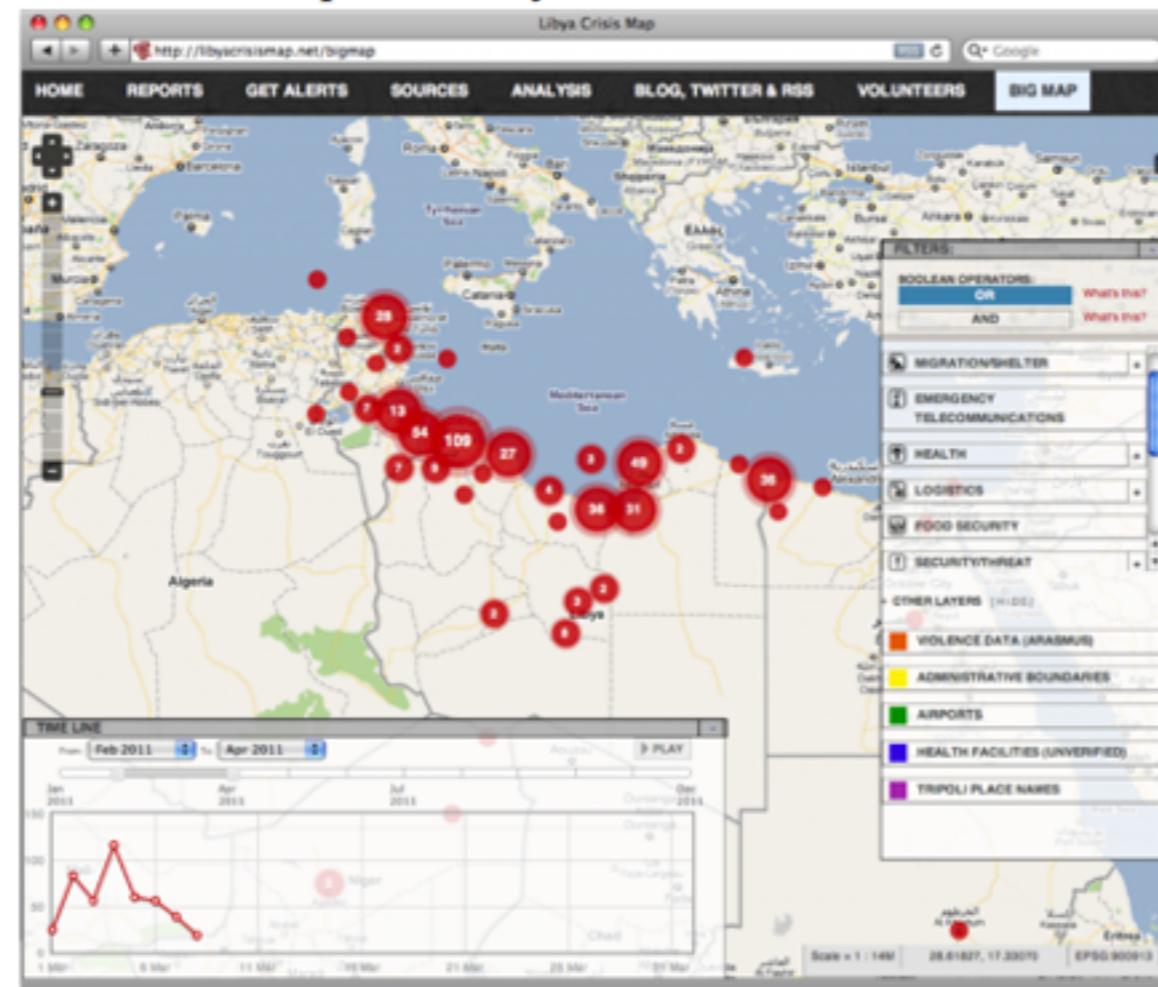
Want to Help Humanitarian Operations in Libya using your Laptop? Join UN Volunteers Online Now!

By PATRICK | Published: MARCH 10, 2011

The UN Online Volunteer Service (OVS) has now teamed up with the UN Office for the Coordination of Humanitarian Affairs (OCHA) and the Standby Task Force to support [crisis mapping efforts in Libya](#). This means you can now join the UN as a volunteer to provide direct support to the humanitarian response in Libya.

0
tweets

[tweet](#)



Help map SMS messages from the crisis in Pakistan

Instructions [Hide](#)

This job involves the translation, categorization and geotagging of SMS messages from Urdu, Pashto or English speakers. This is a volunteer job for humanitarian benefit. We thank you in advance for your efforts to support this project.

1. Read the SMS message from Pakistan.
2. If you don't understand the language the SMS is written in, click "I can't understand this language, get me a new message"
3. If the SMS is illegible, junk, or does not contain words, check the box to "Mark as not enough information"
4. Answer the questions that follow
5. Select the appropriate/applicable category for the message from the list shown. You may select more than one category.
6. If the SMS contains geographic information, click on the map to place a red marker in the location nearest to the geographic location from the SMS.

Please use the "Notes" box to include any other relevant or important information about the SMS message content. Thank you!

The SMS: [FL communities using un safe water resources (rivers,ponds) in thatta, sindh]

Can you translate this SMS?

[I can't understand this language, get me a new message](#)

Language (required)

- English
- Pashto
- Urdu
- Other

Please fill out as many fields about this SMS as possible

Hi-Tech Crowdsourcing

Crowdsourced Micro-Tasking

Message

00479 - the people in the village of god need food and water so that they can stay . It is isn the university of Kiskeya (in the area of delams 35 right of the main delmas road) . pleas respond - 00479 GeoLoc () **
 Preprocessed by the QN Plugin SMS Parser**

Filtering Tips

1. PRETEND THE LATITUDE / LONGITUDE DOESN'T EXIST if the message words itself mention a location. Ignore it.
 2. Super-critical messages: If you see a message that has major impact to responders, significant violence or death.
 3. When in doubt, mark NO LOCATION if a message says "no location".
 4. Use your best judgement on whether or not a message contains information in the message is something that you can use to do your job.
 5. A location can be anything that could be used to identify a district, name of hospital / school / etc.
 6. When in doubt, mark "No Location"

Description

- Spam: Message is completely out of context.
- Can't Understand: Have no idea what is being said.
- Not Actionable: No description of needs or information.
- No Location: No location is mentioned in the message.
- Actionable: Message has a location and a clear need.

Categories

- Agriculture
- Camp Mgmt
- Comms
- Education
- Functioning communication hubs
- Health
- Logistics
- Medical Emergency
- Not Actionable
- Nutrition
- Other
- Personal Security
- Priority
- Protection
- Recovery
- Search and Rescue
 - Missing persons
 - Removal of corpses
 - Buried and injured persons
- Shelter
- Unspecified help requests
- Water and Sanitation

Message

00479 - the people in the village of god need food and water so that they can stay . It is isn the university of Kiskeya (in the area of delams 35 right of the main delmas road) . pleas respond - 00479 GeoLoc () **
 Preprocessed by the QN Plugin SMS Parser**

Incident Location
 Latitude: 18.64527 Longitude: -72.59834

Map data ©2011 Google • [Terms of Use](#)

City, State and/or Country FIND LOCATION
 * Search for your location using a location name or latitude,longitude coordinates (format: 38.19,-85.61), or click on the map to pinpoint the correct location.

Refine Location name
 Example: Corner of City Market, 5th Street & 4th Avenue, Johannesburg
 QuickNets Test Center

Message Processing

Infiltration



Need to Know
Corroboration

Inaccuracy



Corroboration
Reputation
History

Post-Crisis Opportunities

e-mail:info@noula.net | tel: 177 ou 3753-8500 | [Nous Contacter](#) [Remerciements](#) [Se connecter](#)

lundi 25 juillet 2011 19:10:46

NOULA, Portail de gestion de crise fait en Haïti . Inspiré par et développé pour une nation forte.

Toutes les catégories

CARTOGRAPHIE DE LA SITUATION

- Origine des messages(30508)
- Sites d'hébergement(1396)
- Hopitaux(757)
- Associations de Quartier(25)

Alerte au Choléra!

Attention! : Les messages enregistrés doivent être vérifiés par les responsables

Messages

Map Satellite Hybrid O.S.M.

Google search the map Search Séquence Du : 06/25/2011 Au: 07/25/2011 Grouper les messages

Rapporter un incident Centre d'appel : 177 or 3753-8500 Par SMS : 177 En Ligne : Cliquez ici

Notification
Lettres originales collectées par l'OIM
Cliquez ici pour vous enregistrer

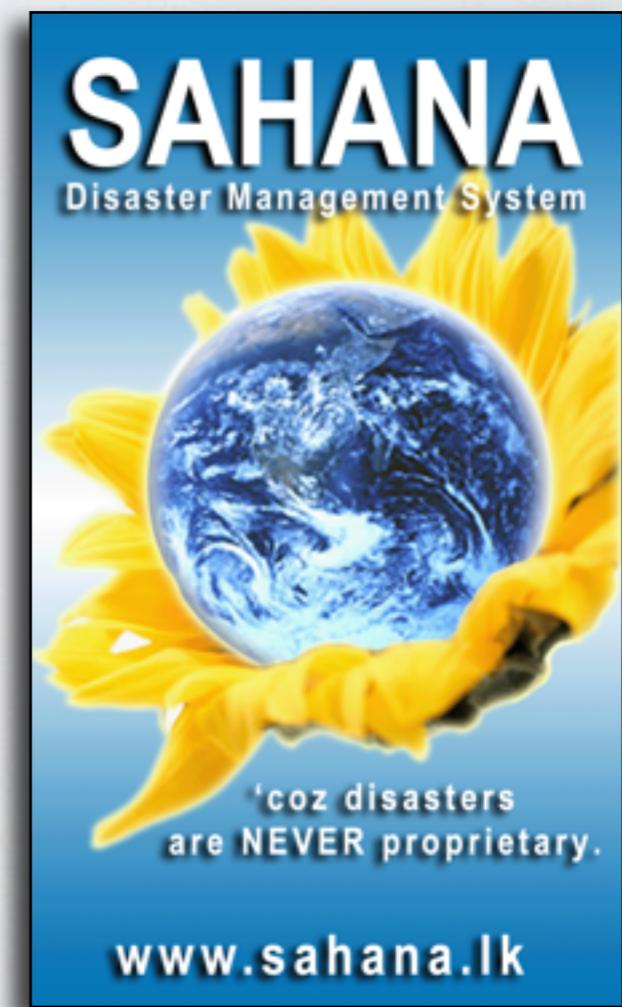
Messages & Alertes **Lieux Critiques**

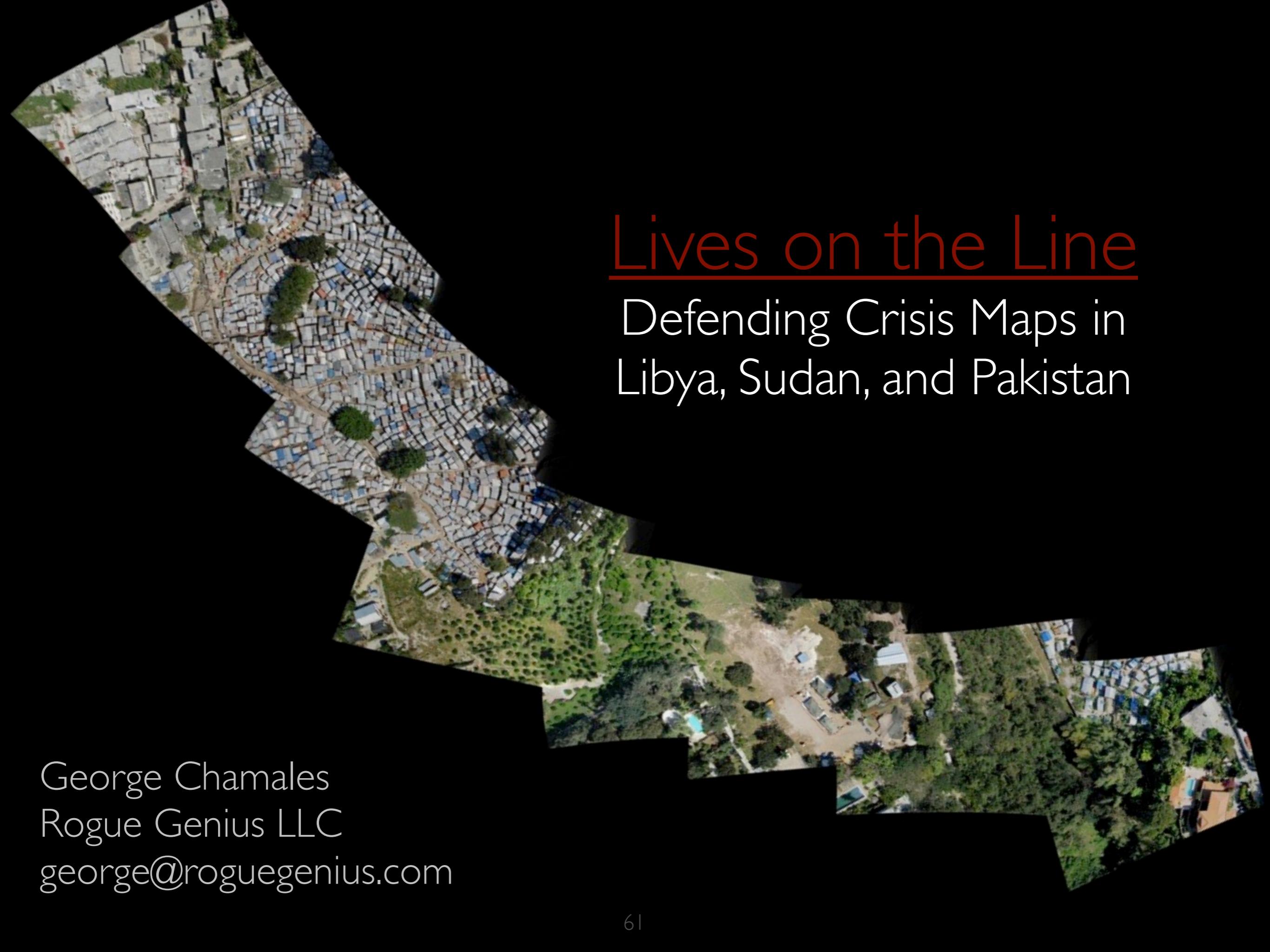
Les derniers messages postés **Voir tous les messages ...**





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