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Ushahidi in Haiti: The Use of Crisis Mapping During the 2010 Earthquake in Haiti

Article · January 2010

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CrisisMapping

&



2009



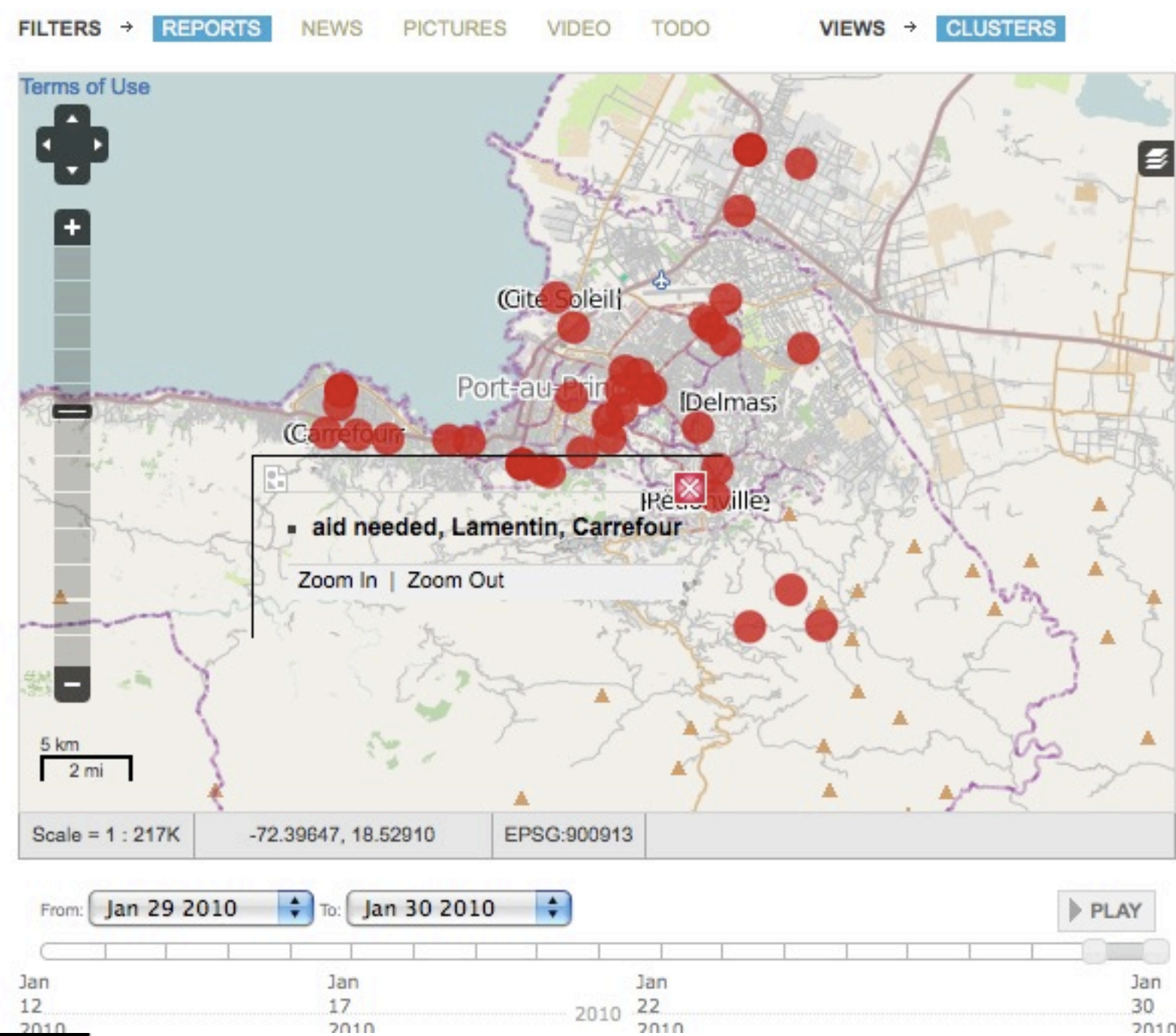
CREDIT: JEWEL SAMAD, AFP



2010

Ushahidi

CrisisMap of Haiti



NECN News Coverage of
Tufts University Students
CrisisMapping of Haiti
Post the 2010 Earthquake

FILTERS +

REPORTS

NEWS

PICTURES

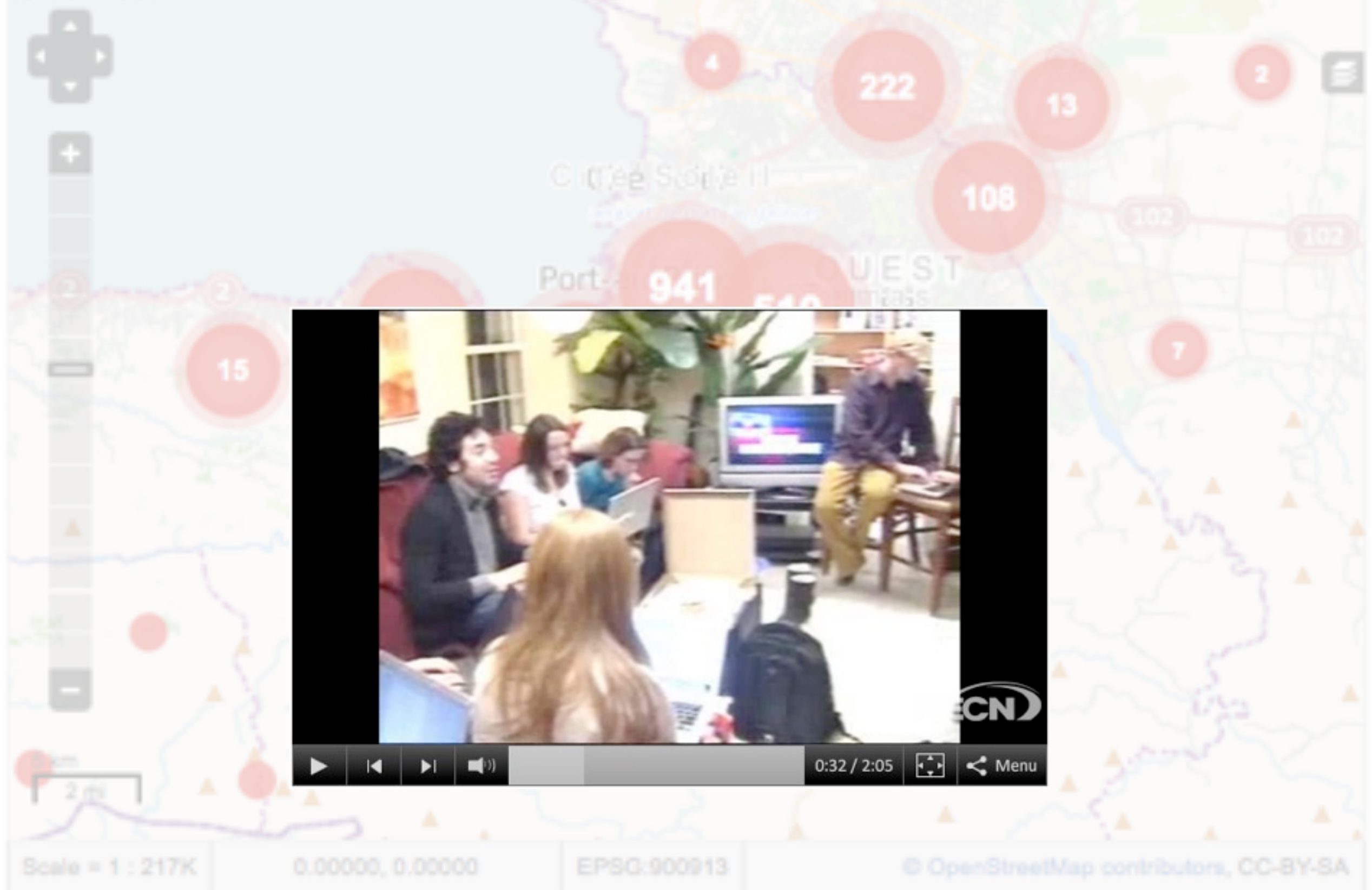
VIDEO

TODO

VIEWS +

CLUSTERS

Terms of Use



Visit <http://www.interfaces.com/blog/2011/01/micro-introduction-to-crisis-mapping/> to watch the video

Three Main Components of CrisisMapping

- **CrisisMap Sourcing (CMS):**
data point collection
- **CrisisMap Analysis (CMA):**
describing the data points &
displaying them in a map-like structure
- **CrisisMap Response (CMR):**
generating action based on the
collected data points

CrisisMap Sourcing (CMS)

- *CrisisMap Coding (CMC)*—refers to entering the data points by hand, based on analysis of news, police reports, blogs, and so on, but the person entering the data is a professional
- *Participatory CrisisMapping (PCM)*—refers to data points entered by the population in crisis, requires people on the ground
- *Mobile CrisisMapping (MCM)*—refers to the use of hand-held mobile devices to enter data points (e.g.: cell phones, portable computers, PDAs, real-time satellite and drone imagery, etc.)
- *Automated CrisisMapping (ACM)*—refers to the use of computer programs/algorithms to extract relevant data points from “the virtual cloud”

CrisisMap Analysis (CMA)

- *CrisisMapping Visualization (CMV)*—refers to visual data representation using maps as the basis
- *CrisisMapping Analytics (CMA)*—refers to analysis of data points using software to detect hidden patterns and statistical analysis
- *CrisisMapping Modeling (CMM)*—refers to creating simulations using the data points as variables (think climate models)

CrisisMap Response (CMR)

- *CrisisMap Dissemination (CMD)*—refers to dissemination of information to the relevant organizations who can actually provide services on the ground
- *CrisisMap Decision Support (CMDs)*—refers to the creation of rules and triggers based on the data points: a certain threshold is set on events that, once reached, trigger a particular action (think pandemic)
- *CrisisMap Monitoring & Evaluation (CMME)*—refers to the research that can be conducted using the maps and data points over time

Decision Scaffolding & CrisisMapping




2
Eye-witness accounts of the event are shared with the world.

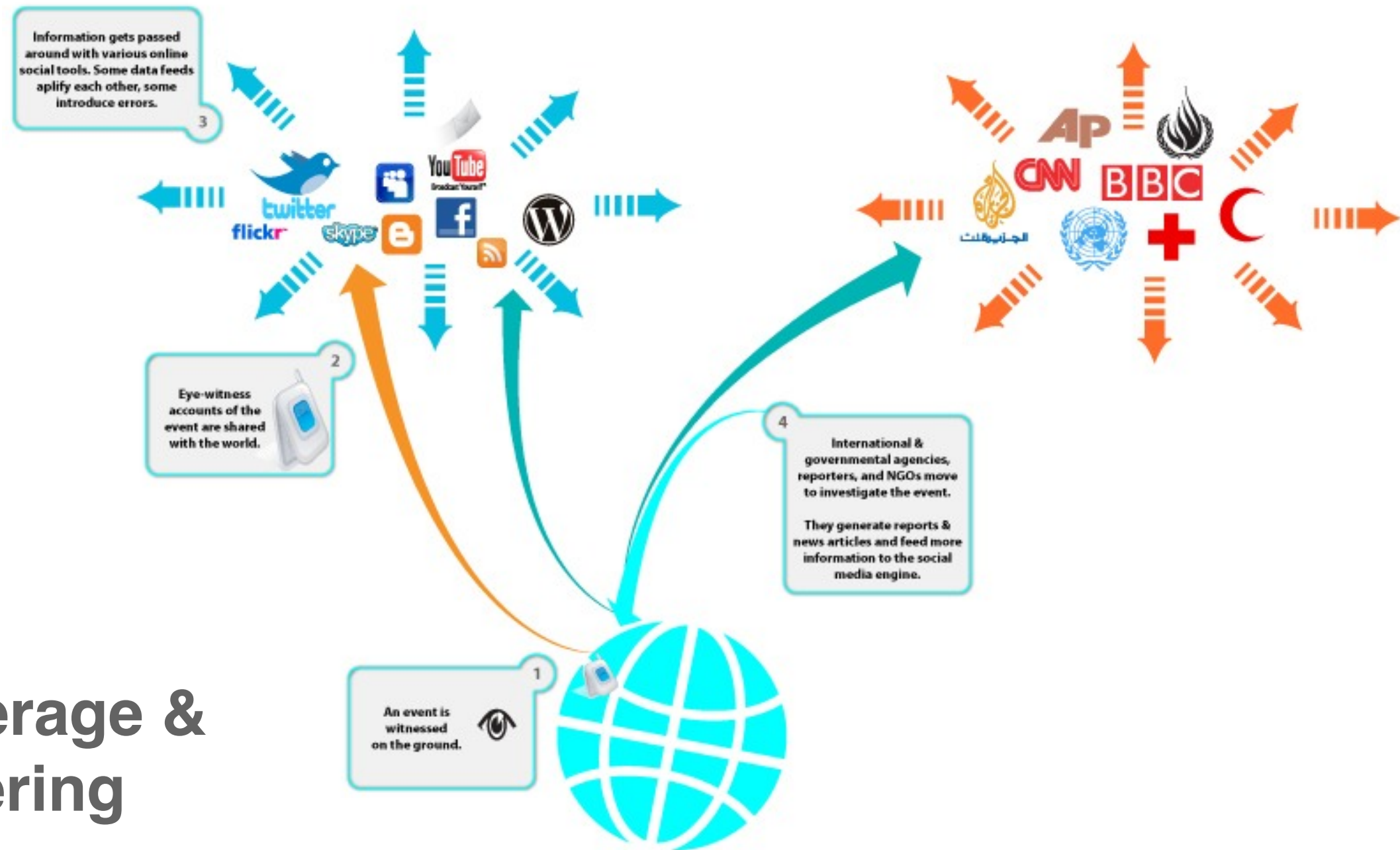


Smoke Signals from
Eye-Witnesses

1
An event is witnessed on the ground.

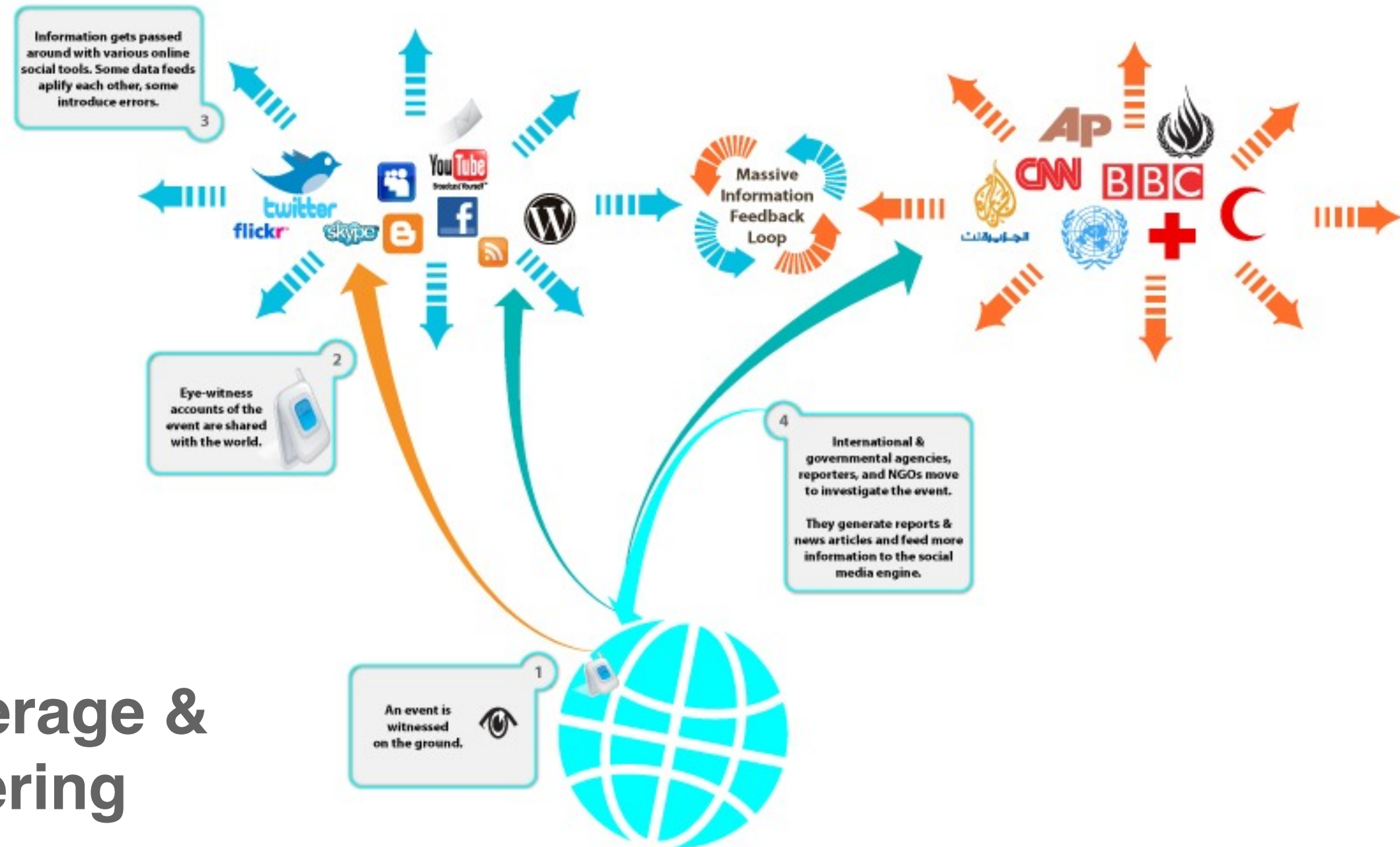


Decision Scaffolding & CrisisMapping



News Coverage &
Data Gathering

Decision Scaffolding & CrisisMapping



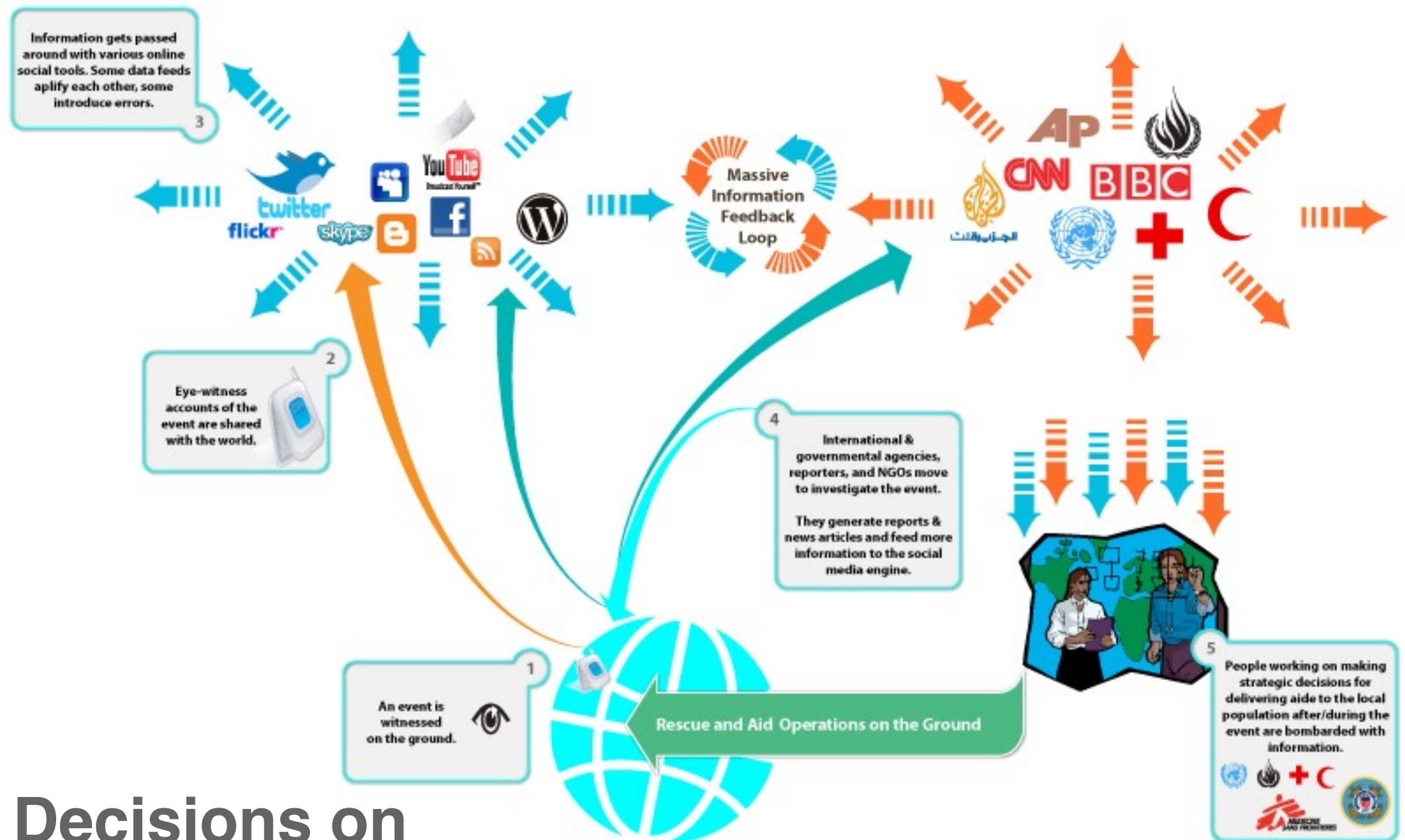
News Coverage &
Data Gathering

Decision Scaffolding & CrisisMapping

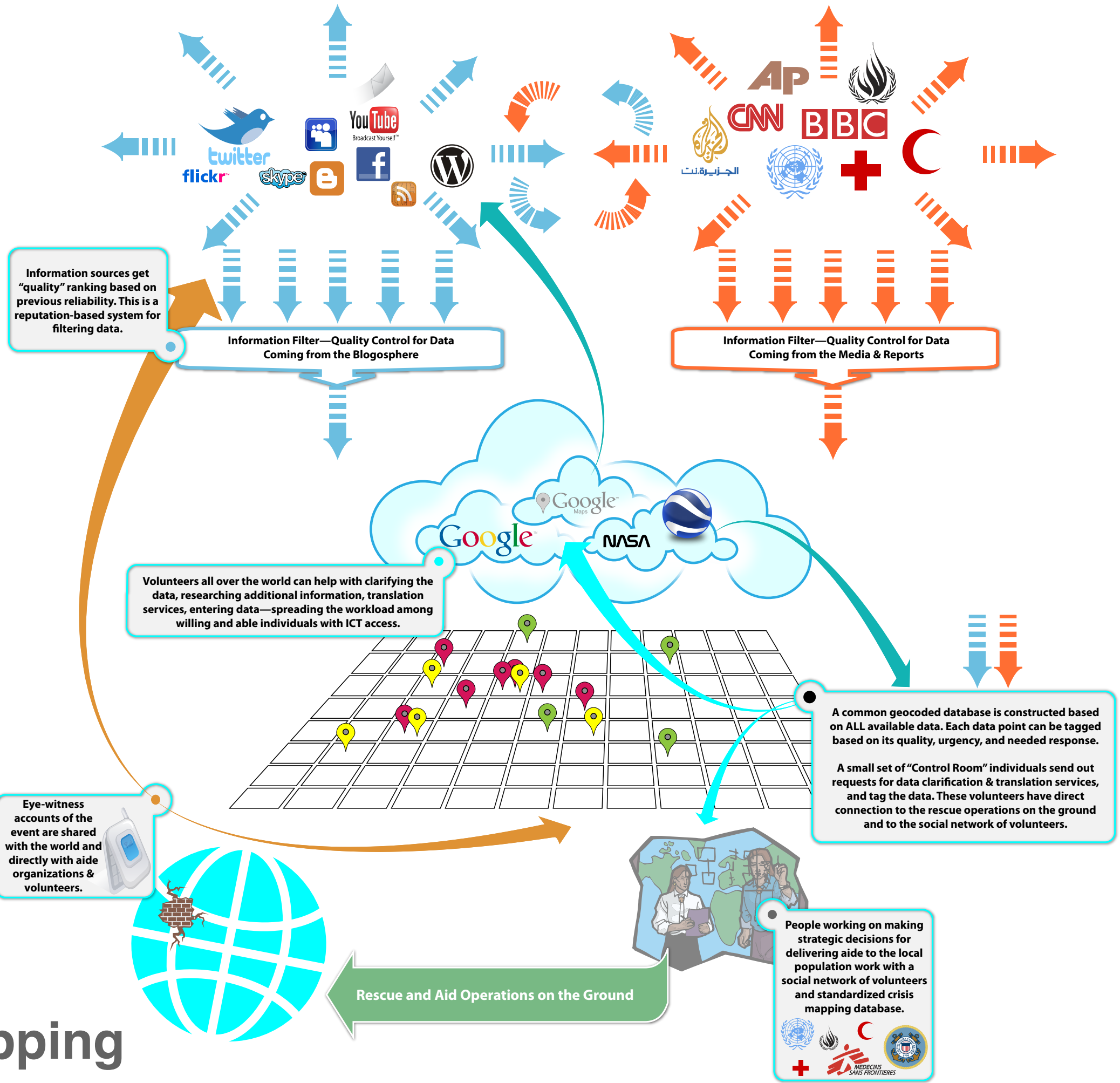


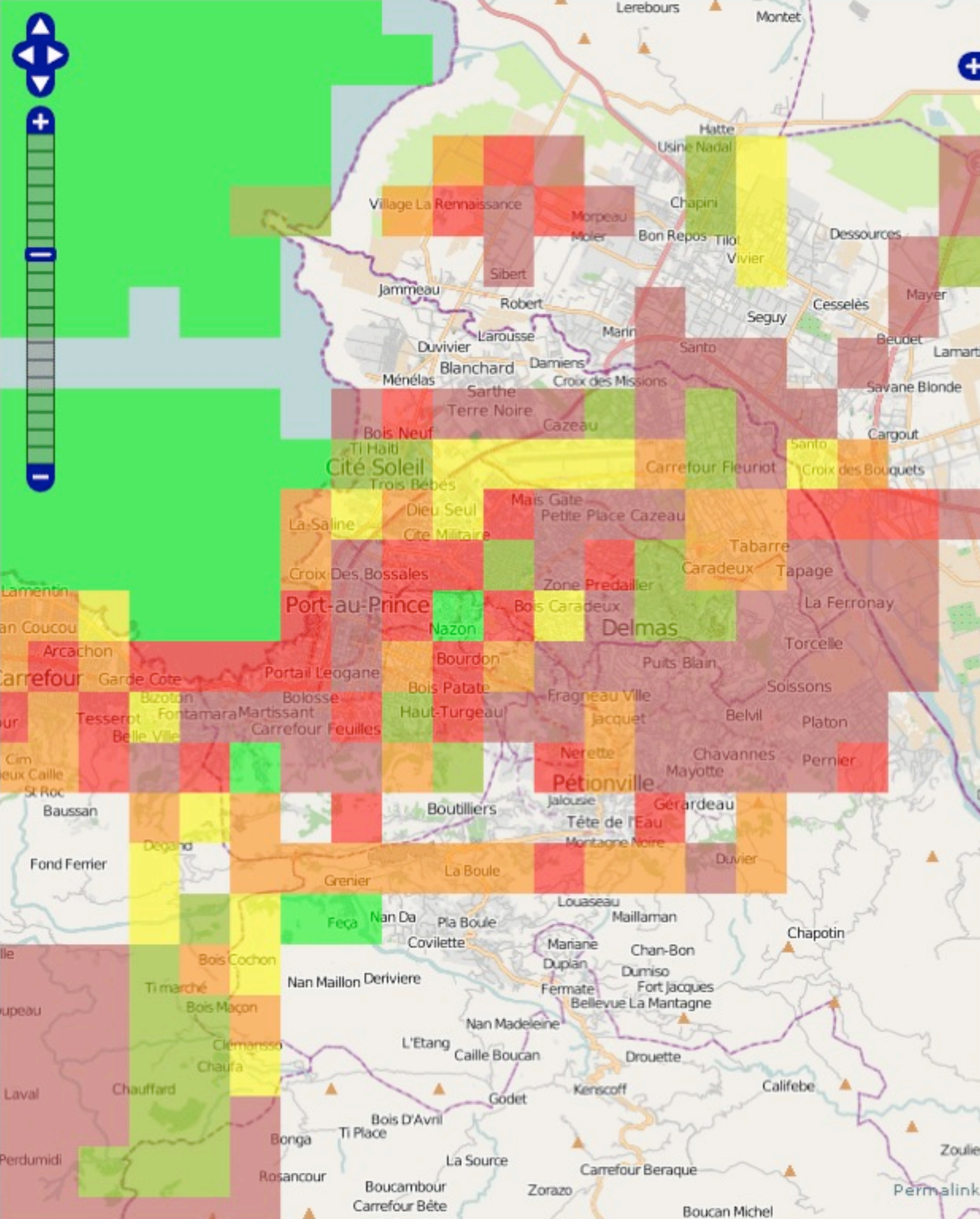
Strategic Decisions on
How to Deliver Help

Decision Scaffolding & CrisisMapping



Strategic Decisions on
How to Deliver Help





Instruction:

1. Optional Login: Hello Guest

OSM-Username: ikiya

OSM-Password: ●●●●●●●●

Login

2. Please zoom to a map segment. **Please zoom in!**
(Now 12/ Should 13)

3. Show workmatrix / redraw

4. Select a square in the map
(Leftclick) and *click here to focus the square*

5. Show the aerial photos

6. Move this controller back and forth to change
between aerial photo and openstreetmap



aerial photo visibility: 50%

7. Judge the square

Trace status of the square

Optional

☐ All major streets are present Check All ☐

☐ All residential roads are present

☐ All forest and clearings are present

☐ All buildings are present

☐ All lakes/rivers are present

☐ All power lines are present

Save

Please check if the element is not in the square.

Bordercolor: grey=0 Checks, darkred=1, red=2,
orange=3, yellow=4, darkgreen=5, green=6

Infos from

Changelog

Comments

OSM

Tools

Info

Trace Status:

Major Highways: 946

Roads: 754

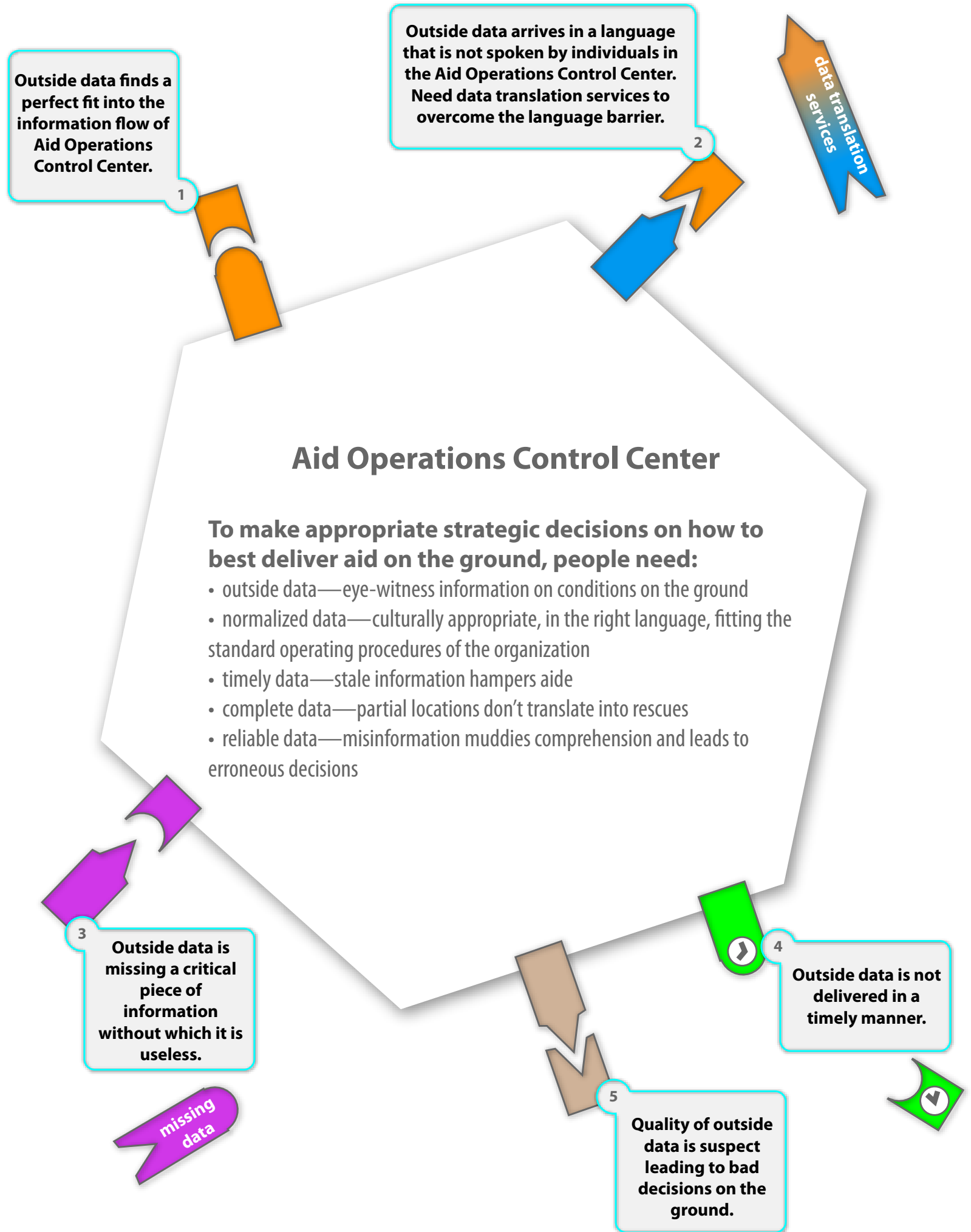
Forest and Clearing: 617

Lakes 652

Rivers: 768

Powerlines: 567

Information Scaffolding & CrisisMapping



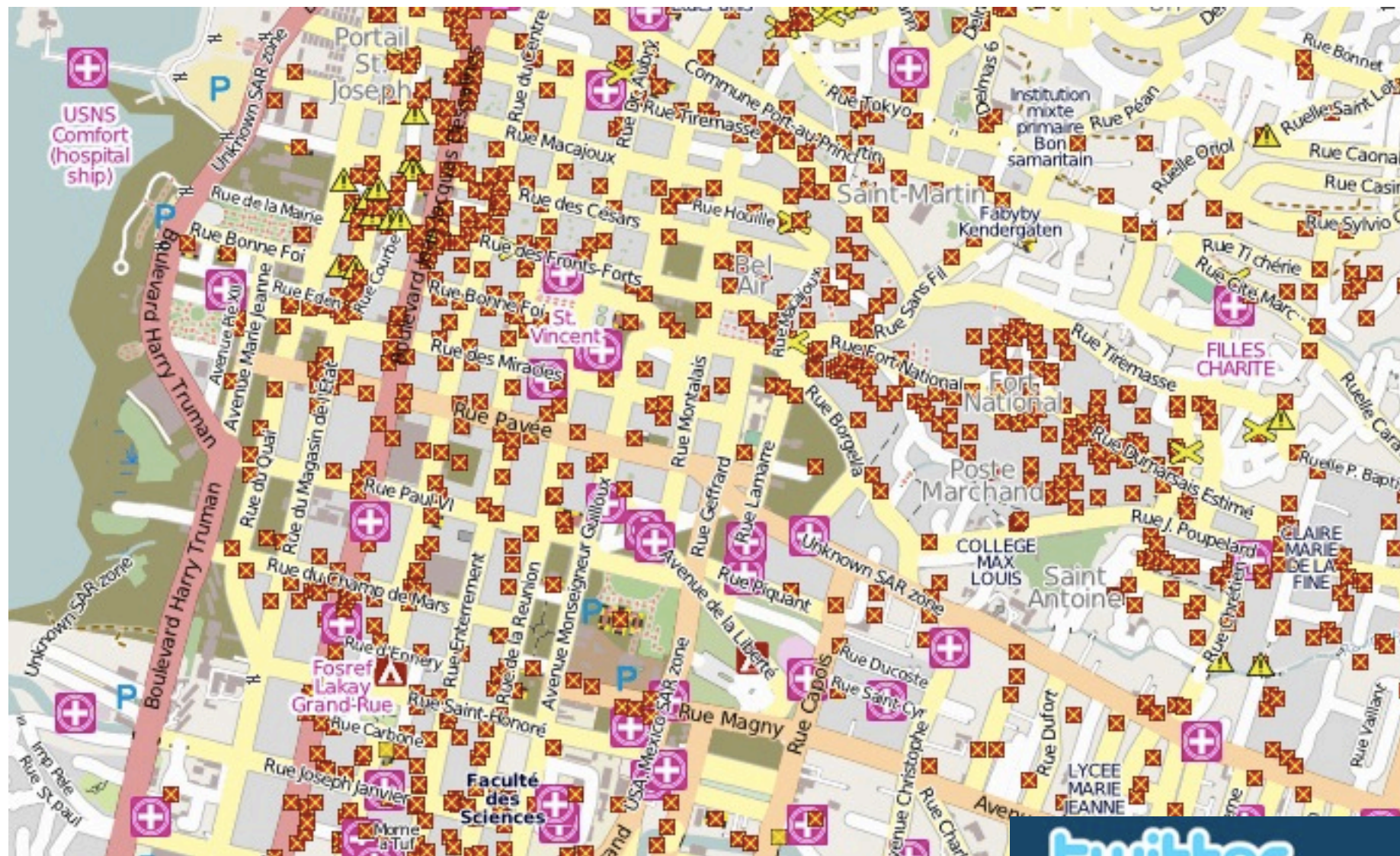


Ushahidi

Ushahidi can provide informational scaffolding to improve strategic decision making of rescue operations on the ground.



Information Scaffolding & CrisisMapping



twitter

Login Join Twitter!

Crisis Map of Haiti represents the most comprehensive and up-to-date map available to the humanitarian community <http://haiti.usshahidi.com/>

4:00 PM Jan 22nd via web



CraigatFEMA
Craig Fugate



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Not
online at
this time
for
privacy
reasons

Haiti

The 2010 Earthquake in Haiti

Ushahidi-Haiti @ **Tufts**
UNIVERSITY

Search Reports Here:



DOWNLOAD REPORTS (3609)

REPORTS RSS

Transitioning to Noulahit

Our local partner, Haiti-company Solutions, has the most up-to-date reports for first responders — please visit their site for the most current data.

+ SUBMIT INCIDENT

HOME

REPORTS

SUBMIT INCIDENT

GET ALERTS

CONTACT US

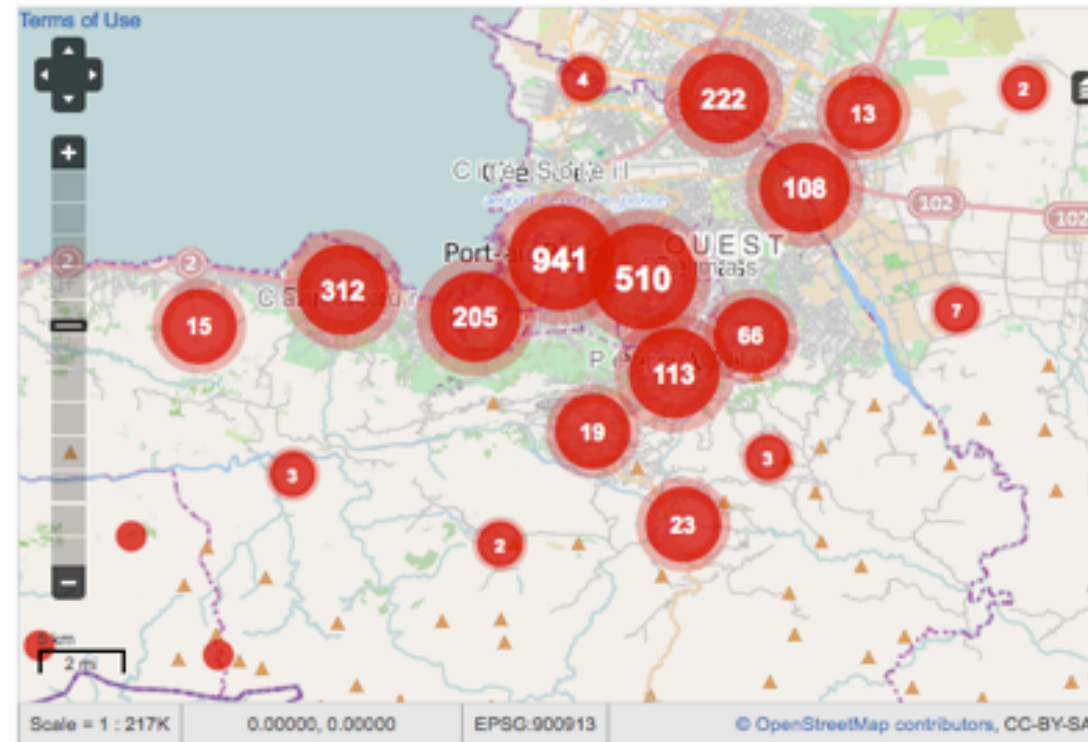
HOW TO HELP

ABOUT

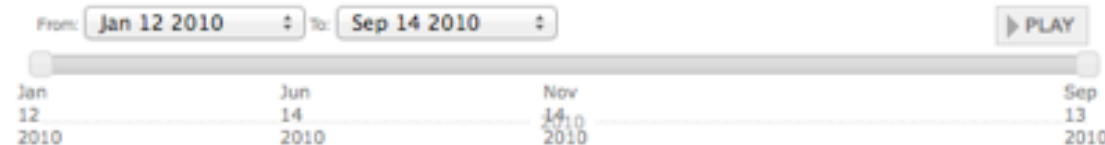
FILTERS + REPORTS NEWS PICTURES VIDEO TODO

VIEWS + CLUSTERS

+ CATEGORY FILTER



+ TIMELINE OF EVENTS



ALL CATEGORIES

1. URGENCES | EMERGENCY

2. URGENCES LOGISTIQUES | VITAL LINES

3. PUBLIC HEALTH

4. MENACES | SECURITY THREATS

5. INFRASTRUCTURE DAMAGE

6. NATURAL HAZARDS

7. SECOURS | SERVICES AVAILABLE

8. AUTRE | OTHER

Incidents (from the map, listed in chronological order)

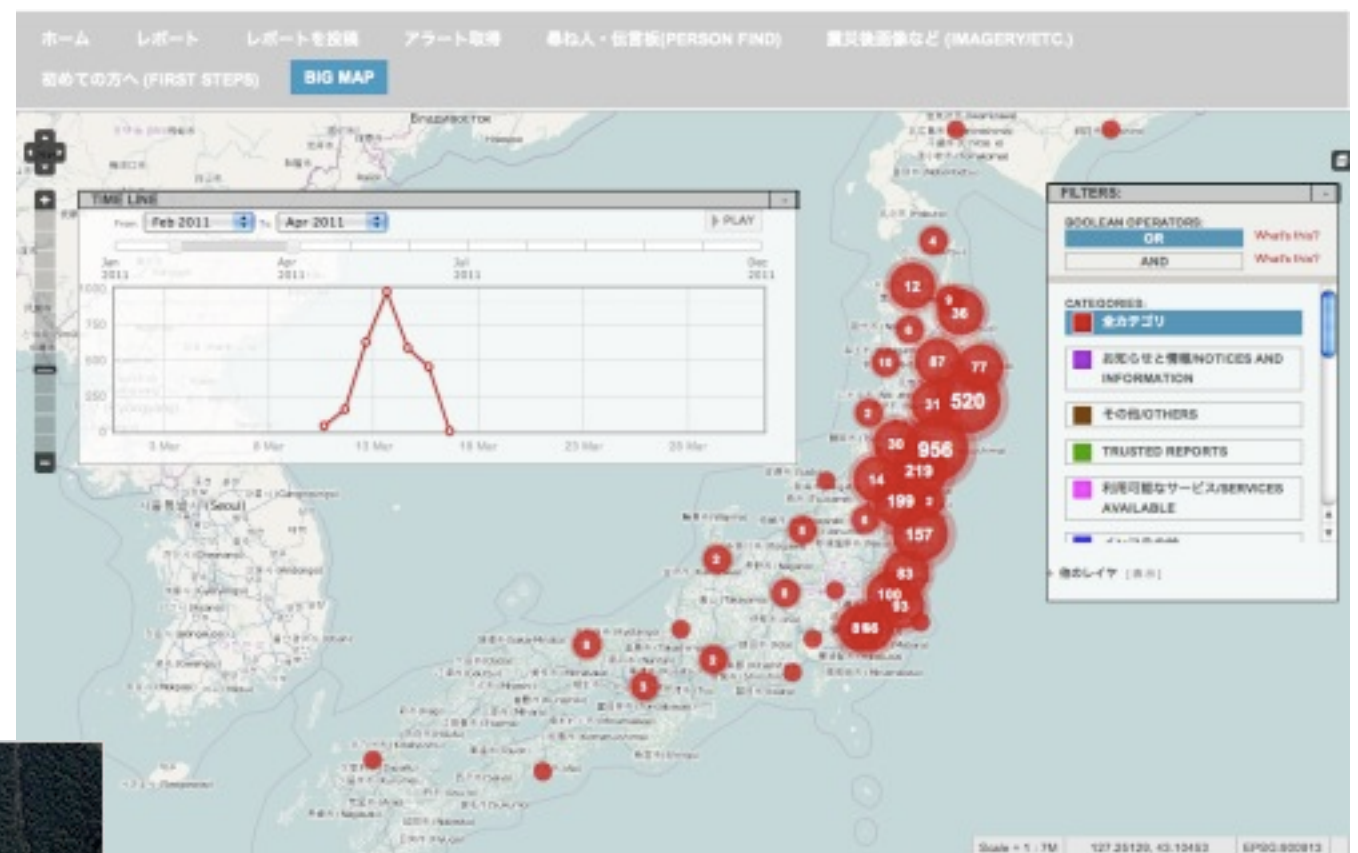
TITLE	LOCATION	DATE
* URGENT * Type O blood donations needed...	Jacmel, Haiti	Jul 5 2010
Citi Soleil school	Citi Soleil, Haiti	May 18 2010
Eliante Valentin	664 Blv. Jean Jacques Dessalines, Port-au-Prince, Haiti	May 3 2010
Shelter needed in Leogane.	Leogane, area of Mapou bissonniere	Apr 27 2010
school materials needed in Mirebalais	Mirebalais	Apr 27 2010
Medical attention needed on Delmas 41	Delmas 41	Apr 26 2010
Violence at "arcadiae bas Saint-Ard"	unable to find "arcadiae bas Saint-Ard" on map	Apr 26 2010

Mainstream News

TITLE	SOURCE	DATE
Frogs Hang on in Haiti - Voice of America	Google News: ha...	Jan 13 2011
Korean textile manufacturer investing in...	Google News: ha...	Jan 13 2011
A year later, Haitian engineers acquiring...	Google News: ha...	Jan 13 2011
The Nation: How NGOs Have Failed Haiti - ...	Google News: ha...	Jan 13 2011
Haiti Earthquake Remembered At Local Church...	Google News: ha...	Jan 13 2011
My Take: Haiti's earthquake, one year later...	Google News: ha...	Jan 13 2011
Minister Power renews Ireland's commitment...	Reliefweb	Jan 13 2011
Une ingénieur haïtienne aide l'UNICEF...	Reliefweb	Jan 13 2011
Bill Clinton opens Iron Market restored...	Google News: ha...	Jan 13 2011

100s of Ushahidi
CrowdMaps
documenting events
all over the world...

**Live CrisisMapping in Japan,
hours after the earthquake hit:**



Aerial view of the damaged Fukushima Daiichi nuclear plant in Okuma, Japan, on Monday, March 14th, 2011

How Easy Is It?

- Ushahidi runs its own servers — no need to setup complicated software system on your own server (at least for simple projects).
- Ushahidi has comprehensive documentation and technical support — it's possible to setup a CrowdMap in one afternoon!
- Anyone can do it!

Ushahidi.com
wiki.Ushahidi.com

If you know what you want to accomplish and have clear goals for your CrowdMap, Ushahidi makes it very easy to set up and go.



[LinkedIn.com/groups/Crowdmappers-4215298](https://www.linkedin.com/groups/Crowdmappers-4215298)



CostOfChicken.com is a CrowdMap setup by San Francisco high school students. It tracks the “true costs of food” around the world.

The Cost of Chicken

http://costofchicken.com/

COST of CHICKEN.com

Food Anthropology: in search of information, ideas, and ways to improve quality food access for all

Home How to Make a Chicken Report Crowdmap Project Updates About Cost of Chicken Trusted Food Reporters Cost of Chicken Labs

SCHOOL WORKSHEET

Cost of Chicken project works with kids from around the world to collect data on local food conditions -- it's food anthropology for all! The resulting information is available for all to use. Schools that need a worksheet to help their students participate in this project, please download one here:

Cost of Chicken Worksheet PDF

We look forward to learning about your food! Thanks! Tim and Nick

ALL RECENT CHICKEN UPDATES

Cost of Chicken on TEDxSilkRoad
Cost of Chicken App Idea
Living off the land in New York City
Packaged Food Makes Girls Hyper!
Unstable Food Prices
Edible Sensors Let You Know if Your Food is Spoiled
Over 200 Food Reports!
Cost of Chicken on PBS!
Data Visualization from the Cost of Chicken Crowdmap
Changing the Way We Eat — TEDx Manhattan
The Carbon Footprint of our Diets
Lowell School Economics Class
150 Data Points on Cost of Chicken Crowdmap!
We've Been Accepted into 2012 EDF Sustainable Design Challenge
Trusted Food Reporters from Bangalore, India
About Cost of Chicken Project

ORGANIZATIONS WE WORK WITH

The EDF Sustainable Design Challenge
ENCOURAGING RESPONSIBLE ENERGY BEHAVIOR FOR BETTER LIVING
http://design.challenge.edf.org
A.P.C.I.
EDF
S.F. HIGH SCHOOL

Do you know the true cost of your food? What's its price? Where does it come from? Who grows it? How's the quality? Are you eating good food?

Quoi?

We want to know!

I know all my chickens on a first name basis...

Cost of Chicken.com

Cost of Chicken

https://costofchicken.crowdmap.com/

English (US) SEARCH

COST of CHICKEN.com

SUBMIT A REPORT

HOME REPORTS SUBMIT A REPORT CONTACT US COST OF CHICKEN

In San Francisco, the cost of food varies by neighborhood. Some places don't have access to cheap healthy foods, some do. We want to find out the cost of food around the world. The basic hypothesis is that the cost of chicken varies geographically. It's much less in Africa than it is in San Francisco. But what proportion of the total income is this cost? 99¢ per pound for chicken legs at COSTCO is cheap to us. Is it as cheap as a 12¢ a pound chicken legs in Africa? 12 cents there might be a lot of money as a proportion of a total family income. Also, where do these chickens come from? Those sold in most San Francisco supermarkets are produced on mega farms, thus the cost per chicken is relatively low—we can afford to buy them. How about in other places? What if you live on a family farm and grow chickens? How many chickens can you reasonably grow for your family to consume? There are many interesting questions that could be asked AFTER the data is collected.

FILTERS + REPORTS NEWS PICTURES VIDEO ALL

FULL SCREEN MAP

CATEGORY FILTER (2/2/2)

HOW TO REPORT

By using an app:
iPhone
Android

By sending a tweet with the hashtag's:
#costofchicken

By filling this form on our website.

World map showing data points: North America (371), Africa (15), Asia (9).

Scale = 1 : 222M EPSG:900913

From: Oct 2011 to May 2012

Line graph showing data from Oct 2011 to May 2012.

Cost of Chicken

Cost of Meat
Cost of Eggs
Cost of Dairy
Cost of Fish
Cost of Poultry
Cost of Vegetables
Cost of Grains
Cost of Fruits
Cost of Nuts
Cost of Spices
Cost of Herbs
Cost of Oils
Cost of Beverages
Cost of Snacks
Cost of Sweets
Cost of Alcohols
Cost of Miscellaneous

0

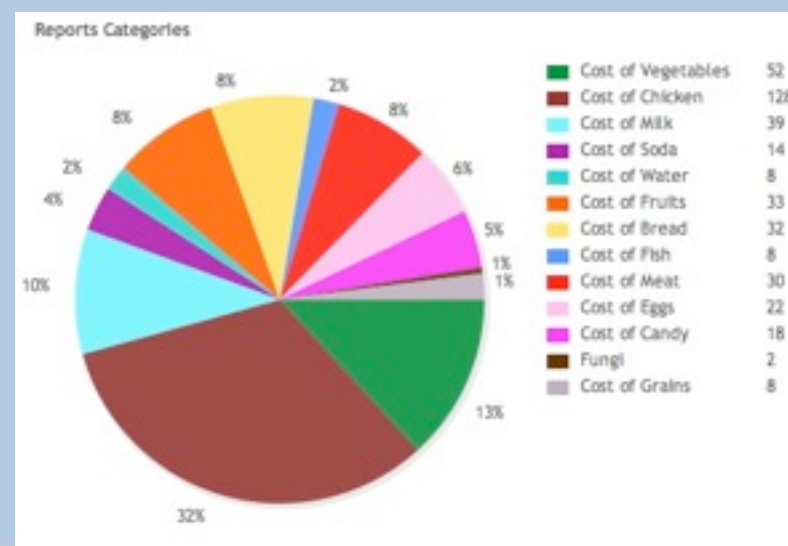
TIME LINE

From: Apr 2008 To: Jan 2013

Apr 2008 Jul 2009 Oct 2010 Jan 2011

0 50 100 150 200

May 2008 Jun 2008 Jul 2008 Aug 2008 Sep 2008 Oct 2008 Nov 2008 Dec 2008 Jan 2009 Feb 2009 Mar 2009 Apr 2009 May 2009 Jun 2009 Jul 2009 Aug 2009 Sep 2009 Oct 2009 Nov 2009 Dec 2009 Jan 2010 Feb 2010 Mar 2010 Apr 2010 May 2010 Jun 2010 Jul 2010 Aug 2010 Sep 2010 Oct 2010 Nov 2010 Dec 2010 Jan 2011 Feb 2011 Mar 2011 Apr 2011 May 2011 Jun 2011 Jul 2011 Aug 2011 Sep 2011 Oct 2011 Nov 2011 Dec 2011 Jan 2012 Feb 2012 Mar 2012 Apr 2012 May 2012 Jun 2012 Jul 2012 Aug 2012 Sep 2012 Oct 2012 Nov 2012 Dec 2012 Jan 2013





CO\$T of CHICK€N.com

