# Haiti emergency response: the power of crowdsourcing and SMS

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Mission 4636

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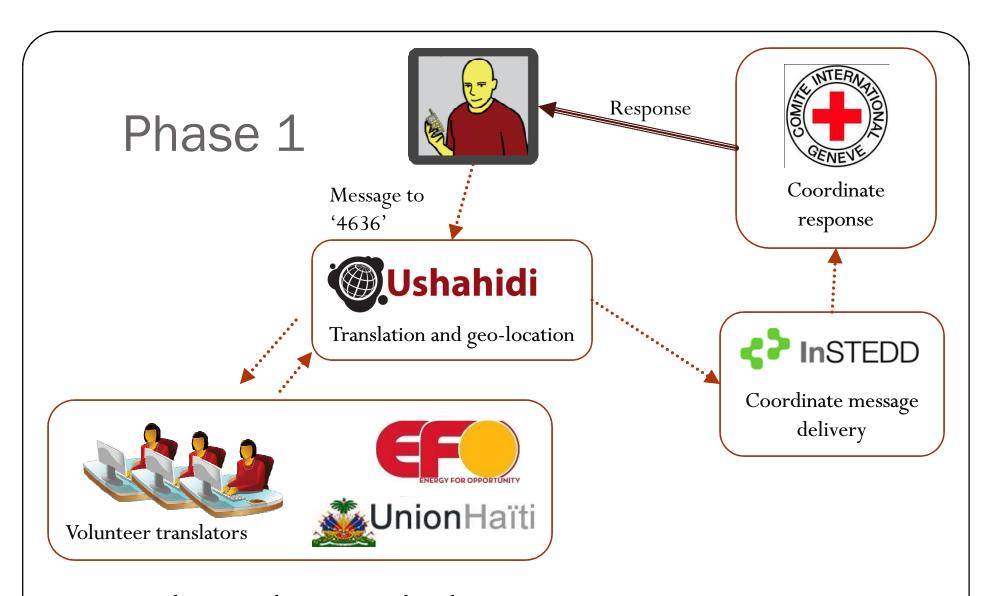
www.mission4636.org

# Haiti emergence response

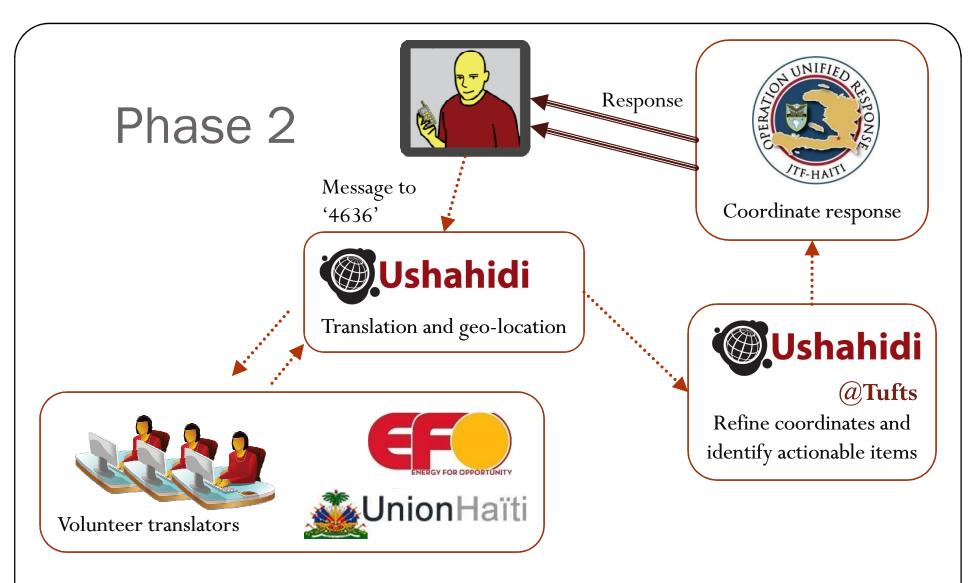
- SMS-based emergency response and reporting <a href="http://vimeo.com/9141941">http://vimeo.com/9141941</a>
- 1000s of volunteer translators of Haitian Kreyol
- 100s with a sustained commitment
- We have directed emergency response to save 100s of lives
- First food/aid to tens of thousands:
  - ~1 for each message translated
- Average turn-around of 10 minutes



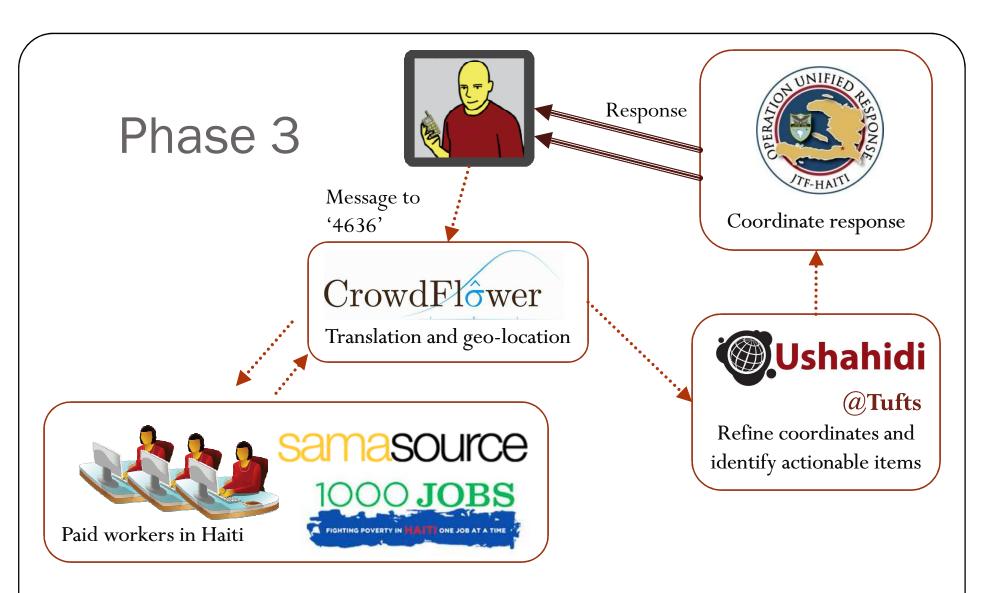
- 48 hours coming together
- Josh Nesbit of FrontlineSMS brought together the different organizations. With Katie Stanton of State, they organize the '4636' shortcode with the telecos. The two remain as coordinators of the collaboration



- First 10 days emphasis on search and rescue
- Brian Herbert of Ushahidi built a crowdsourcing platform, working with Robert Munro of EFO who mobilized the volunteers. In Haiti, Nicolas di Tada of InSTEDD delivered the messages to the responders, the Red Cross.



- Following 10 days 10-fold increase in response (including aid/food/security)
- The USCG and Southern command took over the response, expanding the mandate. wUshahidi@Tufts took over the coordination of actionable items (Patrick Meier, Denise Sewell, Jaro Valuch coordinating)



- Currently rolling out the shift to a sustainable effort
- CrowdFlower, headed by Lukas Biewald, took over hosting the crowdsourcing platform. Samasource, headed by Leila Janah and working with the 1000 jobs Haiti project, trained workers in Haiti to take over this process.



Diaspora/volunteers Individual replies

4636 data





Mapping / clustering incident reports



Information broadcasts 'EIS'



Service mapping

Red Cross, Plan International, Charity Water, US State Department, International Medical Corps, AIDG, USAID, FEMA, US Coast Guard Task Force, World Food Program, SOUTHCOM, OFDA, UNDP

# Research

Offline+machine translations



What is your situation?

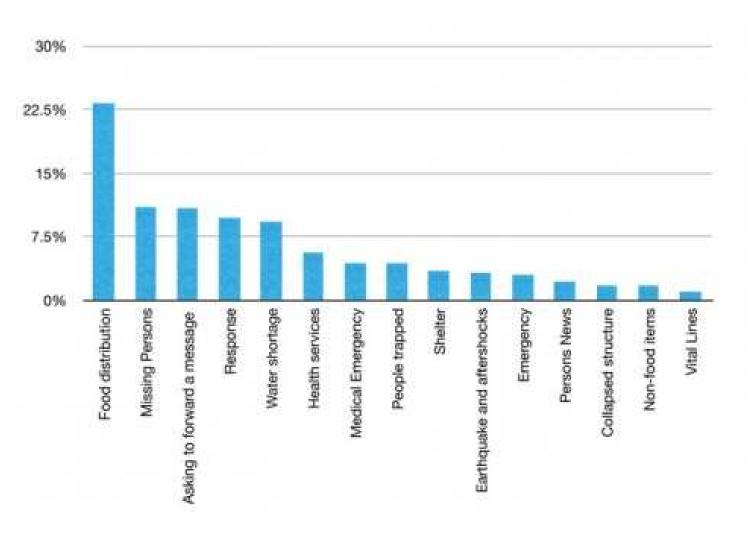
I have information about someone

PLEASE NOTE: All data entered will be available to the publi and viewable and usable by anyone. Google does not review verify the accuracy of this data.

Embed this tool on your site - <u>Developers</u> - <u>Terms of Services</u> by <u>Google</u>

Google Person Finder

# Messages: ~1000 per day



# 'Local' knowledge

#### Workers collaborating to find locations:

Dalila: I need Thomassin Apo please

*Apo:* Kenscoff Route: Lat: 18.495746829274168, Long: 72.31849193572998

Apo: This Area after Petion-Ville and Pelerin 5 is not on Google Map. We have no streets name

#### **Feedback from responders:**

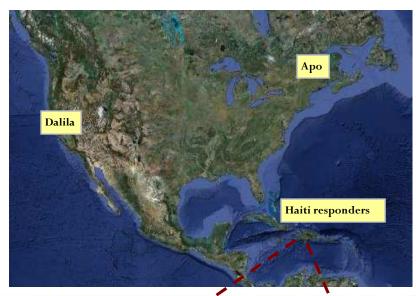
"just got emergency SMS, child delivery, USCG are acting, and, the GPS coordinates of the location we got from someone of your team were **100%** accurate!"

## The ability for someone to make a real-time difference at any other place in the world:

*Apo:* I know this place like my pocket

Dalila: thank God u was here

'**here**' = anywhere





### Feedback

- Clark Craig, Marine Corps: "4636 is saving lives every day."
- Craig Fulgate, FEMA Task Force: "[The] Crisis Map of Haiti represents the most comprehensive and up-to-date map available to the humanitarian community."
- 22 Marine Expeditionary Unit: "We received data on an area outside Grand Goave ... two old women and a young girl with serious injuries from the earthquake. They were evacuated."
- **Ushahidi Tufts** "The World Food Program delivered food to an informal camp of 2500 people, having yet to receive food or water, in Diquini to a location that 4636 had identified for them."

# The power of the crowdsourcing

"Rue Casseus no 9 gen yon sant kap bay swen ak moun ki blese e moun ki brile"

Street Casseus no 9, there is a center that helps people that are wounded or burnt

• From that chat:

(11:56:55) (marc): i will pass it on that is my cousins hospital.

- It is the volunteers, not the technology, that made this work
- We just provided a place for them to come together
  - The best technology is agile supported technology

# Acknowledgments

- Every volunteer
- Every responder
- Alex Onsager, Anar Simpson, Bart Stidham, Bee Rynolds, Brian Herbert, Caleb Bell, Carol Waters, Chris Van Pelt, Christopher Csikszentmihalyi, Claire Berlinski, David Kobia, Denise Rosalind Sewell, Eduardo Jezierski, Eric Rasmussen, Erik Hersman, Eric Nguyen, Fiona Moise, Francesca Garret, Fred Michel, Frednel Isma, Giscard Nazon, Henry Ado Hilde Berg-Hansen, Jackie Oriscar, Jacky Poteau, Jaro Valuch, Jean-Robert Durocher, Jenn Sooley-Peralta, Jennifer, Jimi Oliver, Johanne Eliacin, Jon Gosier, Josh Nesbit, Juan Wajnerman, Juliana Rotich, Karina Fillion, Katie Stanton, Kennedy Kasina, Leila Janah, Lukas Biewald, Luke Beckman, Marc P-I, Mark Dow, Mark Prutsalise, Martial Marcellu, Martin Verszlli, Mary Jane Marcus, Nicolas di Tada, Ory Okolloh, Patrick Meier, Paul Goodman, Paul Munro, Ronald Beliard, Ronny Hoffman, Ryan Bank, Sarah George, Sarah Bernard, Sarah Robert, Sebastien Cournoyer, Segun Salonke, Sophia Parafina, Steve Michel, Tim Schwartz, Timothy Large, Will Lewis