

Information Sharing in Emergency Response

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Outline

- Background
- Information Sharing Paradigm
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- Observations
- Current work

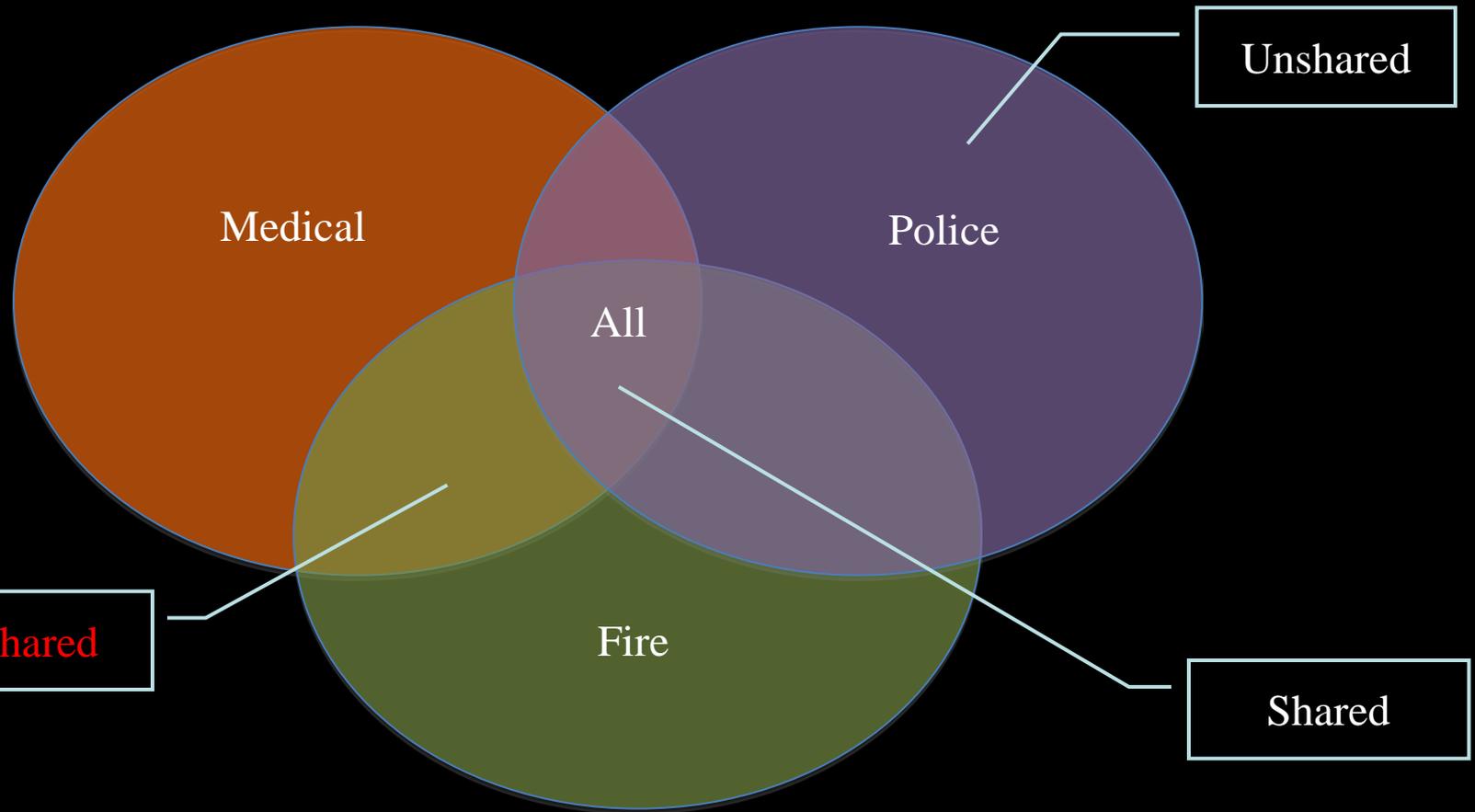
Background

Crisis Communication, Collaboration, Coordination and Information Fusion Lab (C4IF)

- Information Sharing & Inter-operability
- Modeling & Simulation
- GIS and Mapping
- Crowd Sourcing & Social Media

Information Sharing and Interoperability

Information Sharing Paradigm



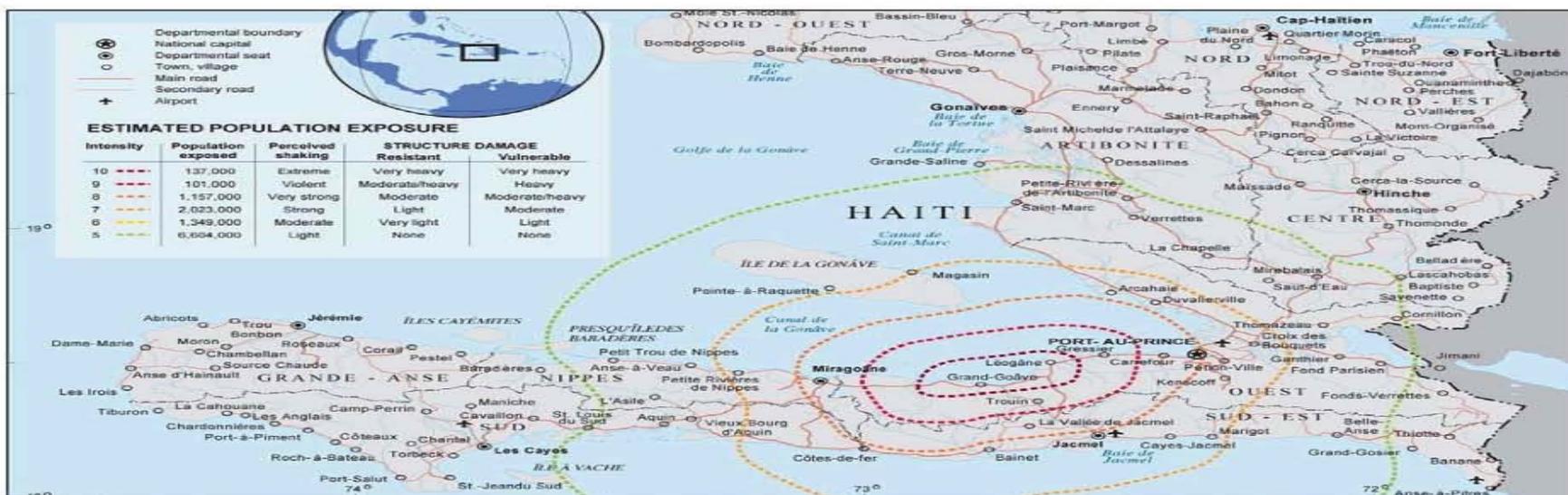
(Stasser et al., 1985)

Case Study

This report was issued by the Office of the Coordination for Humanitarian Affairs in New York. The next report will be issued on or around 13 January 2010.

I. HIGHLIGHTS/KEY PRIORITIES

- **A powerful earthquake of 7.0 magnitude (USGS) on the Richter Scale affected Haiti on 12 January, at 16.53hrs local time (GMT 21.53hrs). The earthquake happened 17km south-west of Port-au-Prince, the capital of Haiti (18.45N, 72.45W).**
- **Initial reports suggest a high number of casualties and widespread damage, with an urgent need for Search and Rescue.**
- **A United Nations Disaster and Assessment Coordination Team (UNDAC) is being mobilized.**



Disclaimer: The designations employed and the presentation of material on this map do not imply the expression of any opinion whatsoever on the part of the Secretariat of the United Nations concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its borders or boundaries. Map data sources: United Nations Cartographic Section, United States Geological Survey.

II. Situation Overview

On Tuesday 12 January, at approximately 16.53hrs local time, a 7.0 magnitude earthquake on the Richter Scale, and less than 10 km deep, was recorded off the coast of Haiti, and only 17 km from the capital, Port-au-Prince. Aftershocks have been felt measuring 5.9 and 5.5 respectively. More aftershocks are expected in the coming hours.

Day	Response Goal	Highlights
1	(Evacuate injured, search and rescue: medical supplies and expertise, and clean water)	
2	(Search and rescue, medical services and supplies, emergency shelter, clean water and sanitation, logistics, telecommunication, food)	
3	(Search and rescue assistance with vital heavy-lifting equipment, medical assistance and supplies: food, shelter, the UNICEF Water, Sanitation and Hygiene (WASH), logistics, emergency telecommunications, agriculture)	
4	(Logistics and lack of transportation: Food, health, WASH, shelter, emergency telecommunications, protection, agriculture)	
5	(Search and rescue, medical services, shelter, food, and water: Logistics, WASH, emergency telecommunication, nutrition)	
6	(Fuel, search and rescue: Logistics, food, health, WASH, shelter, and emergency telecommunication)	13+ lives extracted
7	(Medical assistance, corpse management, shelter, water, food and sanitation: Logistics, WASH, emergency telecommunications, education, protection)	90 lives saved
8	(Medical supplies, water and sanitation, tents, blankets, food and transport equipments: Logistics, WASH, non-food items, emergency telecommunications)	4 live rescues (121+ total)
9	(Medical assistance, food, water, shelter, fuel and transportation equipment: Logistics, WASH, non-food items, protection, nutrition, agriculture, early recovery)	75000 killed, 200000 injured, 1 million displaced. 370 in makeshift settlements
10	(Untreated injuries, shelter, infectious diseases and sanitary conditions: Logistics, health, food, WASH, non-food items, protection, agriculture, emergency telecommunications)	Water is available
11	Information not provided	
12	(Traffic congestion: Logistics, food, health, WASH, shelter/non-food items, nutrition, protection, education, agriculture, emergency telecommunications)	112,250 deaths, 194,000 injured
13	(Logistics, shelter/non-food items, food, health, WASH, nutrition, protection)	
14	(Food and shelter: Logistics, WASH, health, shelter/non-food items, nutrition, education, protection, agriculture, emergency telecommunications)	

Observation

Inconsistent information delivery

Observation

Cluster	Lead agency*
Logistics	WFP
Shelter/Non-Food Items	IOM in conjunction with IFRC
Water and Sanitation (WatSan)	UNDP until UNICEF arrives on base
Health	WHO
Food	WFP

*WFP-The United Nations World Food Programme, IOM-The International Organization for Migration, IFRC-The International Federation of Red Cross, UNDP-The United Nations Development Project, and WHO-The World Health Organization.

Observation

Cluster	Lead agency*
Camp coordination and camp management	IOM
Education	UNICEF
Emergency Shelter and Non-Food Items	IOM/IFRC
Food Aid	WFP
Logistics	WFP
Nutrition	UNICEF
Protection	OHCHR
WASH	UNICEF
Agriculture and Food Security	FAO
Early Recovery	UNDP
Emergency Telecommunications	WFP
Health	WHO/PAHO

*WFP-The United Nations World Food Programme, IOM-The International Organization for Migration, IFRC-The International Federation of Red Cross, UNDP-The United Nations Development Project, WHO-The World Health Organization, UNICEF-The United Nations Children's Fund, OHCHR-Office of the High Commissioner for Human Rights, FAO-Food and Agricultural Organization, PAHO-Pan American Health Organization.

Current Work

Technology mash-up to create
situation awareness

National Level Exercise 2011

NJIT Crisis Communication Center

2011-05-25 21:04:43 Chemical Fire near bayonne Bridge
 Open source is saying that a section of a chemical processing facility is on fire. Rr 440 is closed and NJ board traffic on the Bayonne Bridge is closed as well.

2011-05-18 21:30:14 Day 3 sitrep
 Next NJ/NJIT BEOC conf. call
 May 19, 2011
 Time 1100 Eastern Time
 Call in: 907-726-4253
 PIN: 300934

Interesting Day 3 at the NJIT BEOC we held exercise brief for the following personnel from the National Defense University:

NJIT CAP messages

identifier: NLE110074
 sender: BEOC ARDEC
 sent: 2011-05-19T10:07:19-04:00
 status: Exercise
 msgType: Alert
 scope: Public
 incidents: Air Transportation Update
 info:
 category: Transport
 category: Other
 event: Air Transportation Update
 urgency: Immediate
 severity: Moderate
 certainty: Observed
 effective: 2011-05-19T10:07:19-04:00
 headline: Air Transportation Update
 description: EXERCISE-EXERCISE - Memphis IAP operational within five days for emergency traffic; One operational runway for relief flights - Commercial traffic three to five weeks - Terre Haute IN Airport down to radar outage - Indianapolis IAP remains closed but power restored
 resource: NJ BEOC
 site: 0
 area:
 areaDesc: Memphis International Airport

Twitter Feed
 NLE 2011

David_A_Berry Read about the NCEM/PH's involvement & observations from National Level Exercise 2011 [http://bit.ly/9Y6T0dg #NLE11](#) #preparedness #response #resilient #info #news #events

ChrisCommons RT @BEOCAlert: The NO and NJIT #BEOCs were operational during #NLE11. Event page at [http://bit.ly/9Y6T0dg](#) AAR being developed for future distribution. #dis #gov #info #news #events

ChrisCamp RT @BEOCAlert: The NO and NJIT #BEOCs were operational during #NLE11. Event page at [http://bit.ly/9Y6T0dg](#) AAR being developed for future distribution.

Follow @BEOCAlert

Select hashtags: #NLE11 #BEOC #CAP11 #BQC #BCC

Select topics: AND OR

Or make your own search:

English | [Français](#) | [Español](#) | [Português](#) | [Italiano](#) | [Deutsch](#) | [日本語](#) | [한국어](#) | [繁體中文](#) | [简体中文](#)

What is your situation?

PLEASE NOTE: All data entered by you will become publicly available and accessible and usable by anyone. Data in the Person Finder includes data entered by you and data created based upon publicly available information and certain other sources. Google does not review or verify the accuracy of the data.

[Embed this tool on your site](#) - [Deactivate](#) - [Terms of Service](#)

FOR EXERCISE USE ONLY This is not real.
 This page is for a nationwide exercise. It discusses simulated events. Nothing discussed/described here is real.

Tell us what you know about this event

FILTERS: [Incidents](#) | [NEWS](#) | [PICTURES](#) | [VIDEO](#) | [ALL](#)

Scale: 1:1M | 48.94703, 36.82887 | EPSG:300073

From: | |

+ CATEGORY FILTER (HIDE)

- ALL CATEGORIES
- EARTHQUAKE
- INFRASTRUCTURE DAMAGE
- FLOOD
- HELP REQUEST
- HELP RESOURCE
- POST-EARTHQUAKE INFORMATION

Notice: Your report will be submitted for approval before displaying on the map.

If you cannot see events on the map, please reload the page or see [here](#).

If the timeline graph (below the map) does not display properly, try to move the slider blocks on the slider.

NLE11.kml

- NLE11
 - UCIDS Pilots
 - All UCIDS Incidents
 - NJIT BEOC Pilot
 - BEOC CAP Alerts
 - ETeam Incidents
 - NCA ISA Alerts
 - USMARC Social Map
 - Kentucky University Pilot
 - BCCS
 - Gloucester County NJ Pilot
 - Drakontos Pilot
 - BEOC
 - ARDEC
 - AKRMSB
 - NJIT
 - LSU
 - Mapping Areas
 - SA Rantoul Air Center, IL
 - SA Grissom AFB, IN
 - SA FedEx Indianapolis, IN
 - ISD Ft. Campbell, KY
 - ISB Arnold AFB, TN
 - ISB Columbus AFB, MS
 - ISB Maxwell AFB, AL
 - SA FedEx Little Rock, AR
 - SA Stuttgart, AR
 - SA FedEx Springfield, MO
 - SA Ft. Leonard Wood, MO
 - SA Jeters,

Magnitude: 1-9

Age:

- Past hour
- Past day
- Past week
- Past month

Legend:

- Plateaus
- Boundaries
- Convergence

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