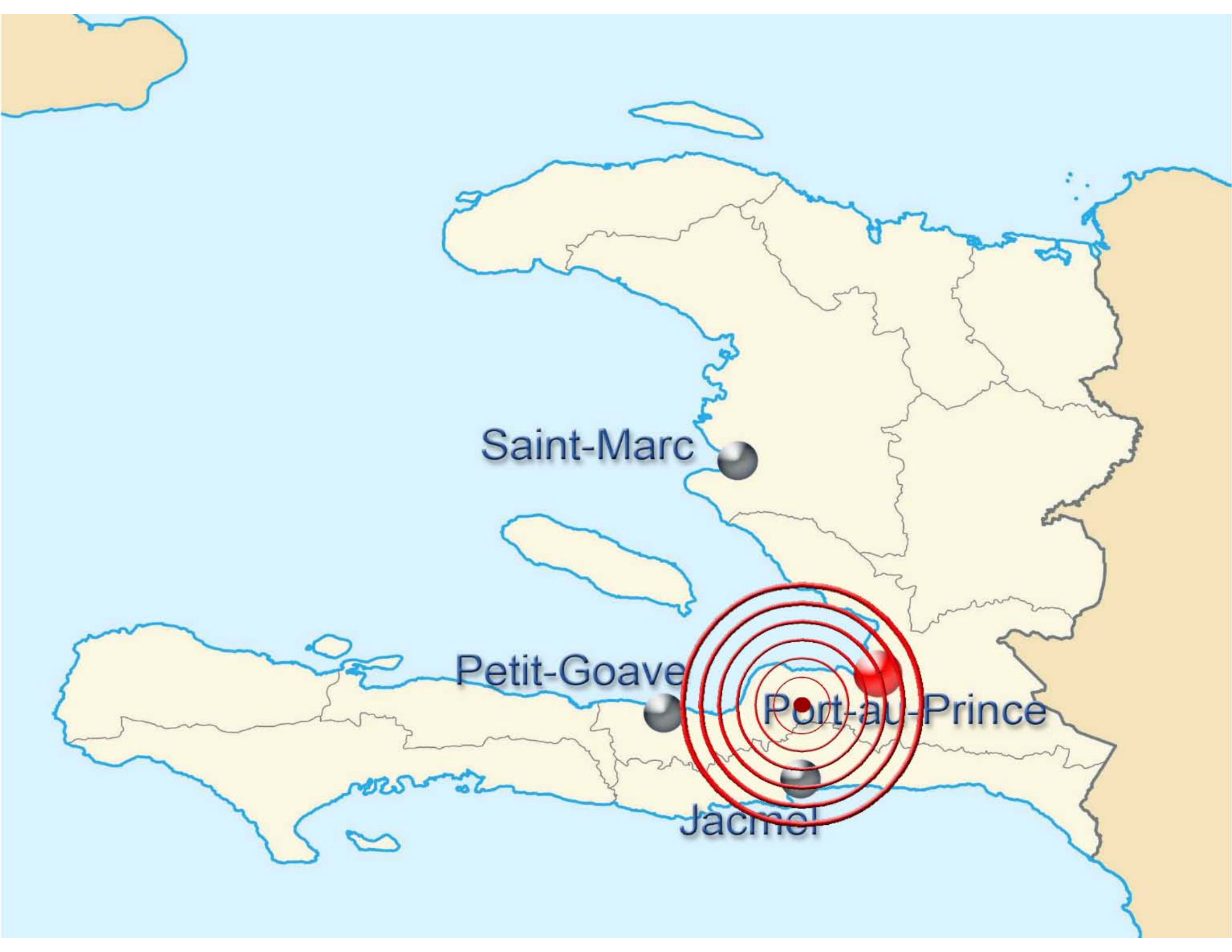


Lessons from Haiti

Tools & Technologies

for tracking Internally Displaced People
affected by natural disasters



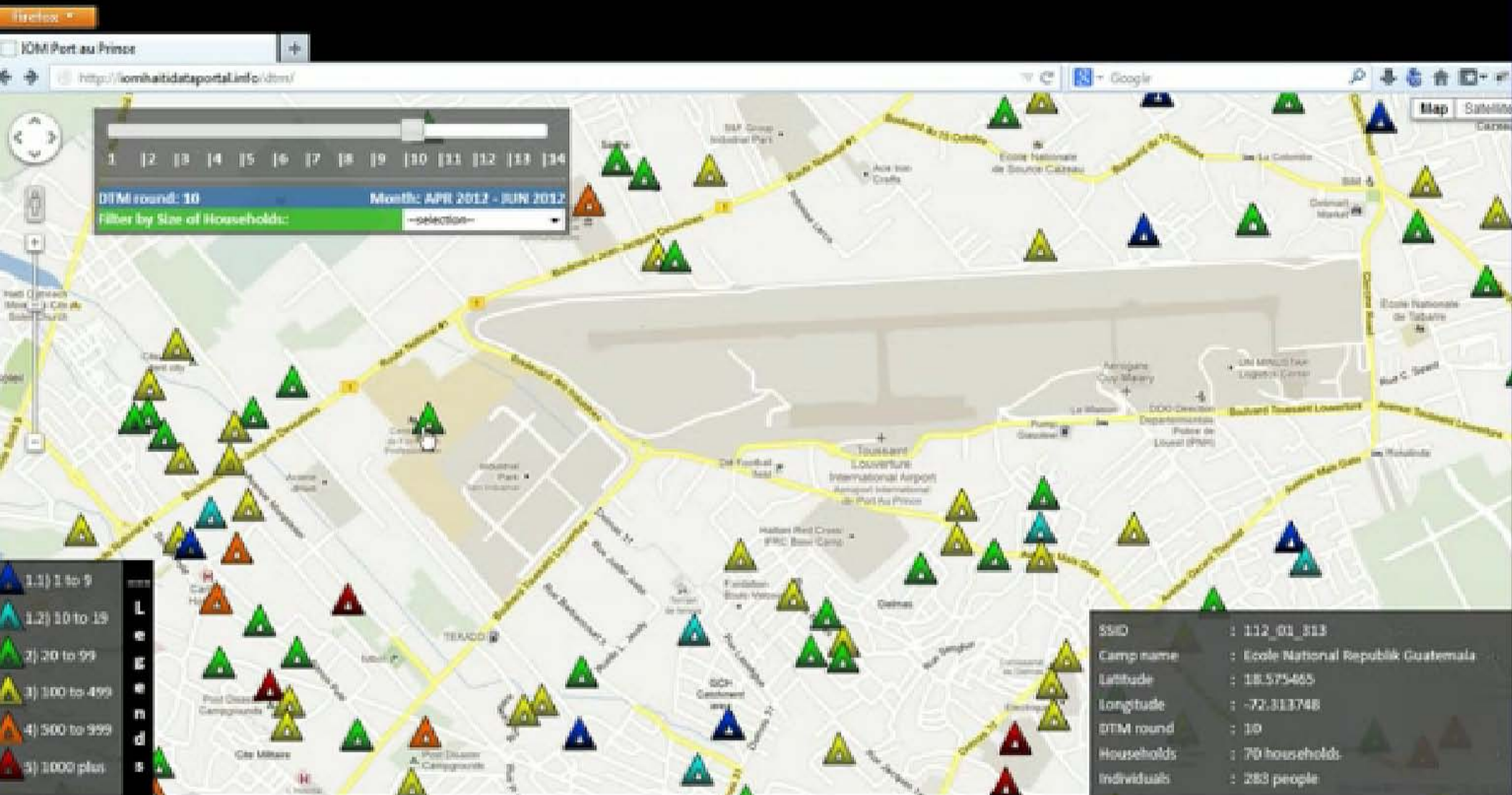


Saint-Marc

Petit-Goave

Port-au-Prince

Jacmel





IOM Data Management Unit uses a combination of tools and technologies throughout different phases of an emergency to



IDENTIFY
count
map
register
follow up
UPDATE
relocate
track
select

Internally Displaced People in camps and camp-like settings and returnees in the neighborhoods.



*In particular in the Haitian
post-earthquake scenario...*

Displacement Tracking Matrix



Rapid and repeat camp assessments

to assess the extent of the phenomena and the location

HOW MANY *&* WHERE



1,360,319 IDPs

321,235 HH


in 1,273 sites

over 13 communes

Detailed individual registration

to gather information on displaced families and individuals

WHO

- 
- 47% of PAP population affected
 - 85% displaced in PAP metropolitan area
 - Average age: 24 years
 - 53% F - 47% M
 - 31% under 15 years
 - 22% single headed HH
 - Average HH size: 4.2
 - 60% tenants
 - 33% owners who cannot repair their home

To provide support and protection to IDP in camps, and
to assist and follow up returnees in the neighborhoods

WHY

Ensuring criteria based and transparent beneficiaries' selection, and protection and assistance to IDPs throughout the entire relocation process.

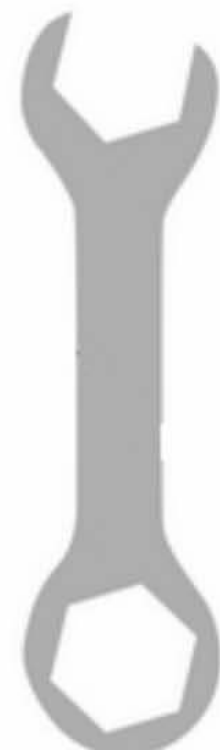
Lessons from Haiti

Tools & Technologies

for tracking Internally Displaced People
affected by natural disasters

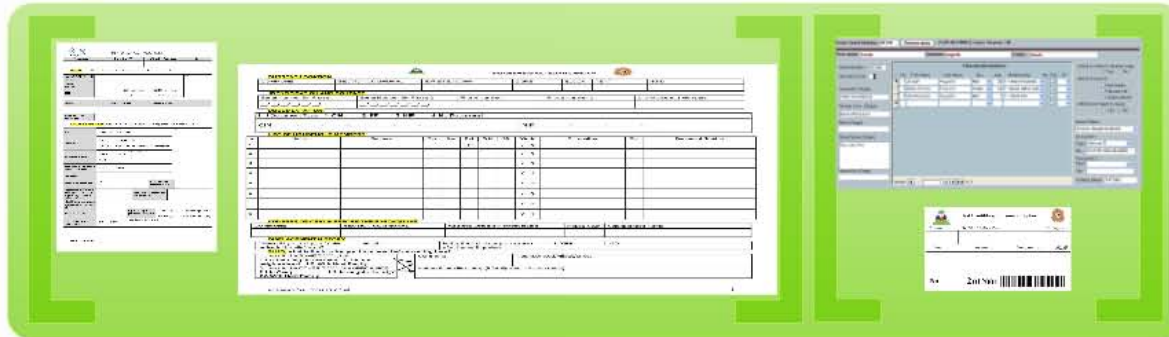


tools



FIELD TEAMS

Registration



Tokens & bracelets



Spray & Numbers for tent counts



FORMULAIRE D'IDENTIFICATION DES BÉNÉFICIAIRES

Commune: [] Section: [] IDP Site / Camp: [] Zone: [] Bloc: [] Tent: [] SSID: []

IDENTIFICATION ET CONTACT
 Serial Number SN Phase 1: [] Serial Number SN Phase 2: [] Phone Number 1: [] Phone Number 2: [] # of Household Members: []

DOCUMENTATION
 HH Document Type: **1. CIN** **2. PP** **3. NIF** **4. No Document**
 CIN: [] NIF: []

#	Name	Surname	Sex	Age	Rel	Schl	SN	Work	Occupation	Doc	Document Number
1					HoH			Y N			
2								Y N			
3								Y N			
4								Y N			
5								Y N			
6								Y N			
7								Y N			
8								Y N			

ADDRESS OF ORIGIN BEFORE THE EARTHQUAKE
 COMMUNE: [] SECTION COMMUNALE: [] Address Origina - Street Name: [] House No.#: [] Neighborhood Name: []

DISPLACEMENT HISTORY
 When did you and your family arrive in this site/camp? Month: []
 Is this the first place you came to after the earthquakes? **1. YES** **2. NO**
SI NO, what is the location you have been before coming here?
 1. I was in the SAME TOWN, but:
 1.1 Other camp in the town 1.2 In my neighborhood 1.3 With Host Family
 2. I was in the OTHER TOWN/Great/PROVINCE
 2.1 In Camp 2.2 In neighborhood 2.3 With Host Family
 Commune: [] Neighborhood/village/street: []
 Name of the site / camp (if family was in known camp): []

V1 Phase 2 form, 7 Oct 2010 final

ENSKRI EPI EDE RETABLIYATI ANSAM

CURRENT LOCATION
 COMMUNE: [] SECTION COMMUNALE: [] IDP SITE / CAMP: [] ZONE: [] BLOCK: [] TENT: [] SSID: []

IDENTIFICATION AND CONTACT
 Serial Number SN Phase 1: [] Serial Number SN Phase 2: [] Phone Number 1: [] Phone Number 2: [] # of Household Members: []

DOCUMENTATION
 HH Document Type: **1. CIN** **2. PP** **3. NIF** **4. No Document**
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#	Name	Surname	Sex	Age	Rel	Schl	SN	Work	Occupation	Doc	Document Number
1					HoH			Y N			
2								Y N			
3								Y N			
4								Y N			
5								Y N			
6								Y N			
7								Y N			
8								Y N			

ADDRESS OF ORIGIN BEFORE THE EARTHQUAKE
 COMMUNE: [] SECTION COMMUNALE: [] Address Origina - Street Name: [] House No.#: [] Neighborhood Name: []

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 2.1 In Camp 2.2 In neighborhood 2.3 With Host Family
 Commune: [] Neighborhood/village/street: []
 Name of the site / camp (if family was in known camp): []

V1 Phase 2 form, 7 Oct 2010 final



Enter Serial Number **003456**

Retrive data

PORT-AU-PRINCE, 6ème Turgeau, CM

First name **Joseph**

Surname **Augustin**

Father **Orando**

Serial Number. **003456**

Household Size **3**

Commune (Origin)

PORT-AU-PRINCE

Section Com. (Origin)

Bème Martissant

Block (Origin)

Street Name (Origin)

Rue Lalo Prol

House No. (Origin)

Household members

No.	First Name	Last Name	Sex	Age	Relationship	Att.	Sch	SV
▶ 1	Joseph	Augustin	Male	28	H - Head of Household	<input type="checkbox"/>		
2	Marie Denise	Francois	Female	23	S - Spouse (wife or husb	<input type="checkbox"/>		
3	Joewhenslad	Augustin	Male	1	C - Child of HoH	<input type="checkbox"/>		
*						<input type="checkbox"/>		

Intend to return to location origin

Yes No

Intend to move to

- Host family
- Planned site
- I didnot decide

NM (Do not intent to move)

Yes No

House Status

No house, damage-lost (tenant)

Document 1

Type **National ID**

No **03-19-99-1982-08-00005**

Document 2

Type

No

Contact phone **37473960**

Record: **1** of 3

		Kat Idantifikasyon Fanmi ki Deplase			
<i>Komin</i>	<i>IDP SIT / KAN / Zonn</i>			<i>Kategori</i>	
<i>Non</i>	<i>Sinyati</i>	<i>Non papa w</i>	<i>#KMF</i>		
No__ __ __ 2 012001 					

CALL CENTRE



25 active
phone lines

*Phone surveys to select beneficiaries
of housing and other programs*





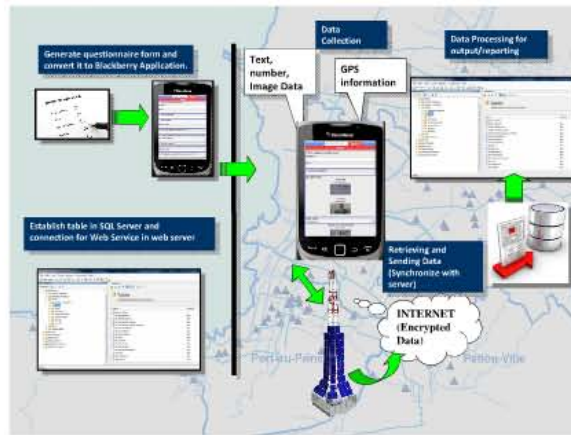
DRONE







BLACKBERRY



*Registering
returnees
from camp
& follow up*



Generate questionnaire form and convert it to BlackBerry Application.



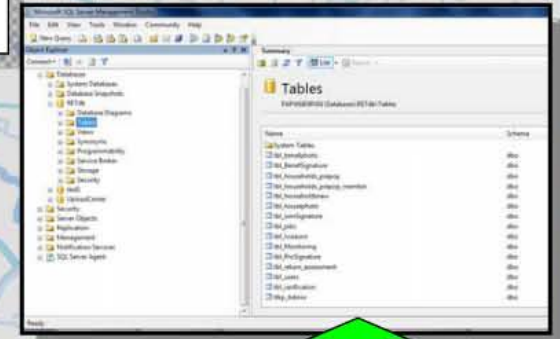
Data Collection

Text,
number,
Image Data

GPS
information



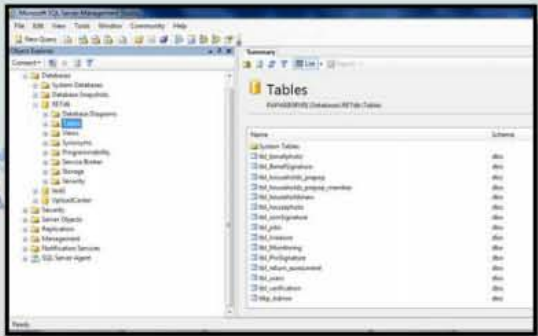
Data Processing for
output/reporting



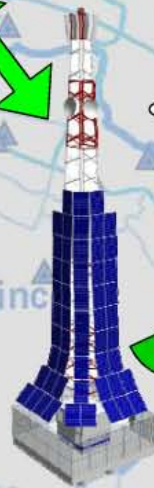
Establish table in SQL Server and
connection for Web Service in web server



Retrieving and
Sending Data
(Synchronize with
server)



INTERNET
(Encrypted
Data)



Port-au-Prince

Petion-ville

BENEFISYE

SIYATI

Take Signature



FOTO

Take Photo



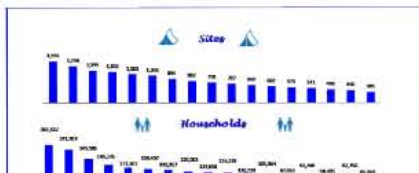
IOM Staff

Chantale Camille

Siyati du Procurator

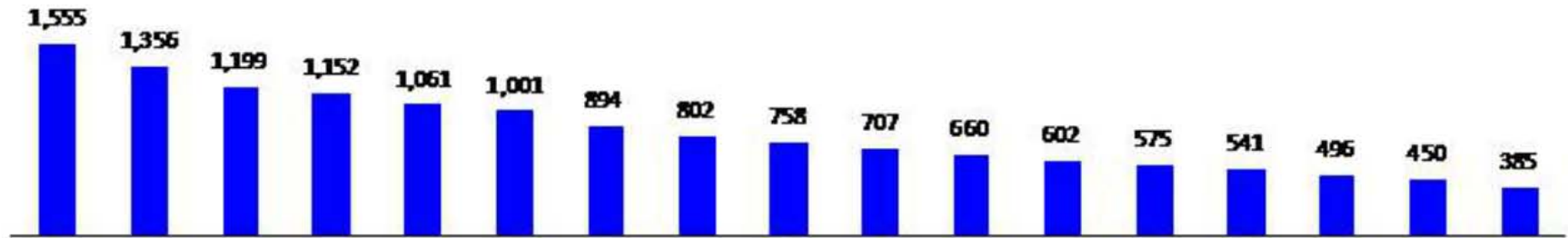


Results

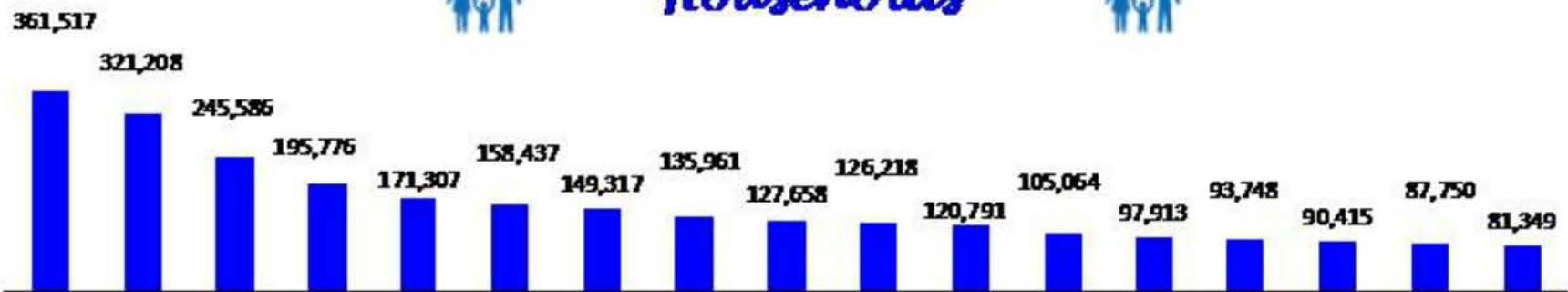




Sites



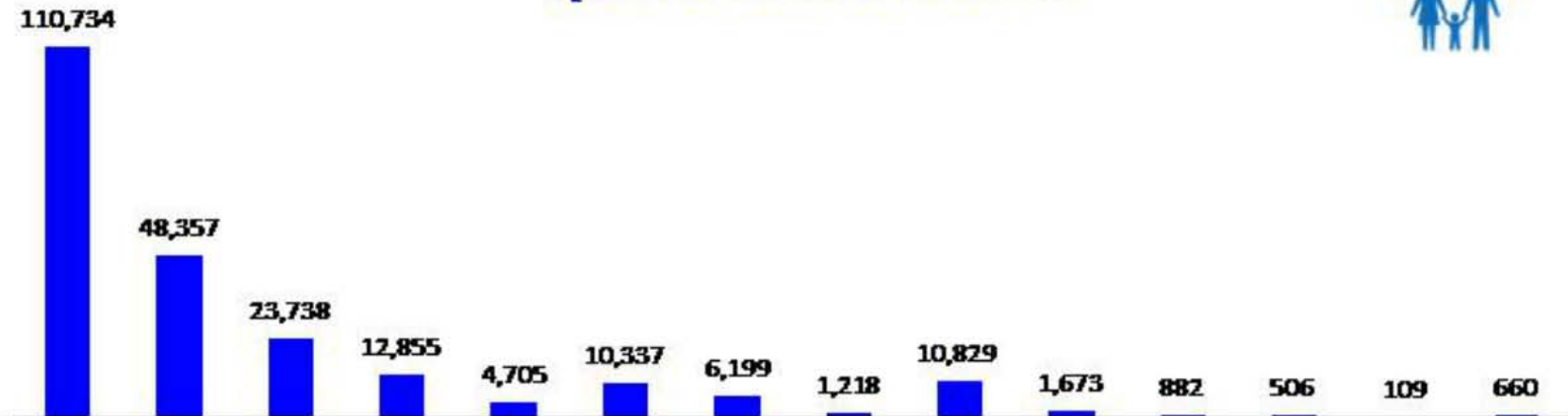
Households



Individuals

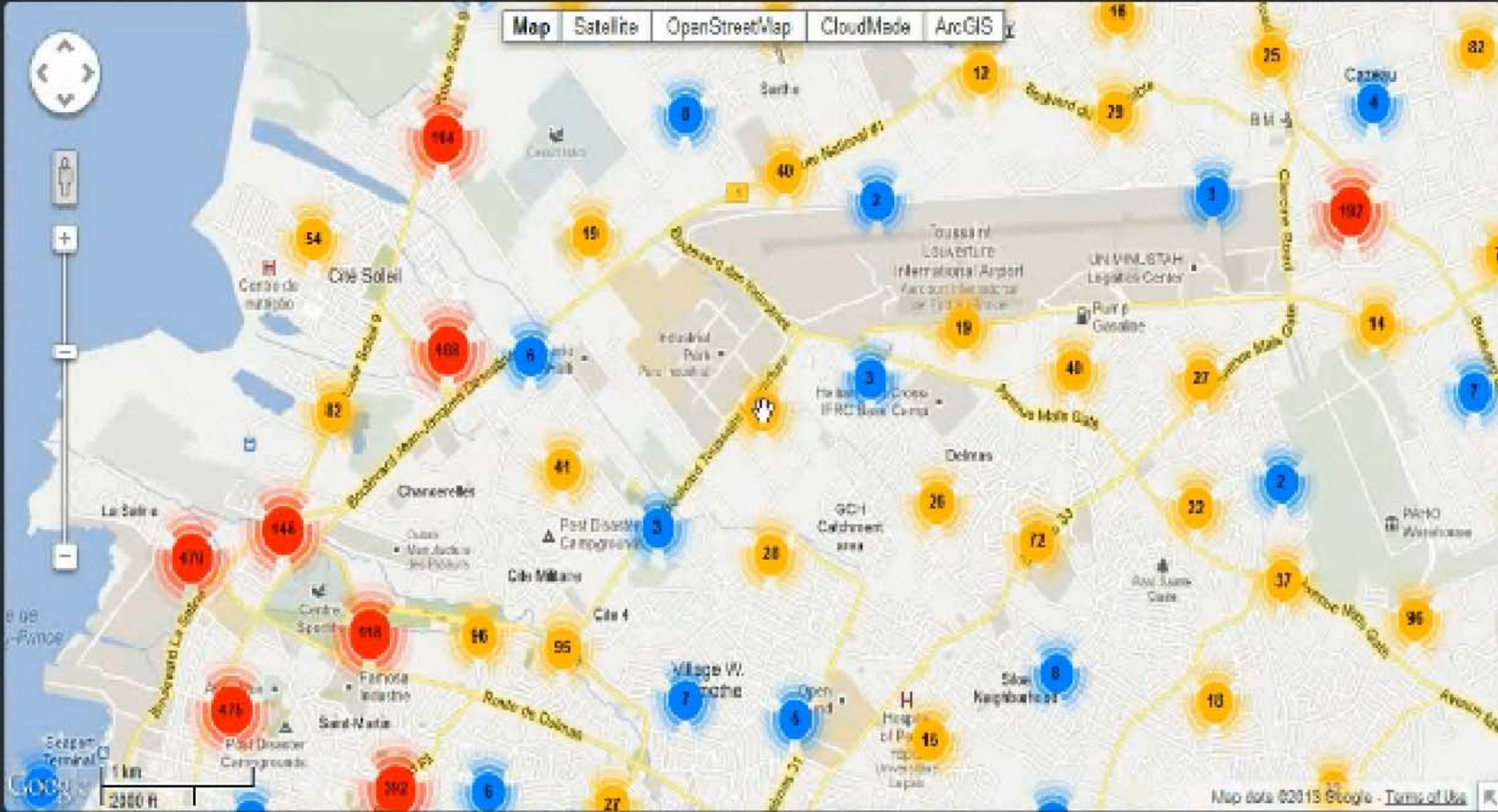


Spontaneous return



Organized Return Support







Sharing the results

Displacement Tracking Matrix (DTM)

- 17 camp assessments
- 17 DTM report packages
- Narrative of results
- Trend analysis
- Site profiles
- DTM spreadsheets
- KMZ files
- IDP site Atlas

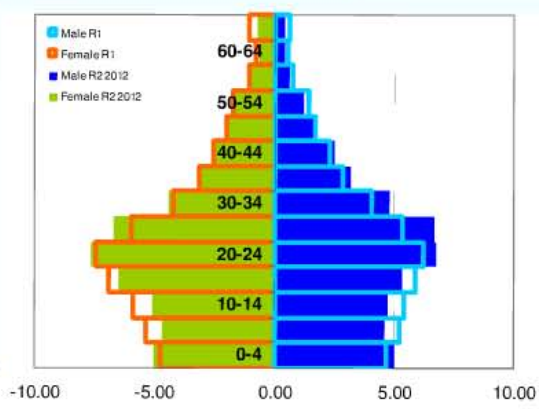


Highlights of the 2012 IDP Registration Analysis

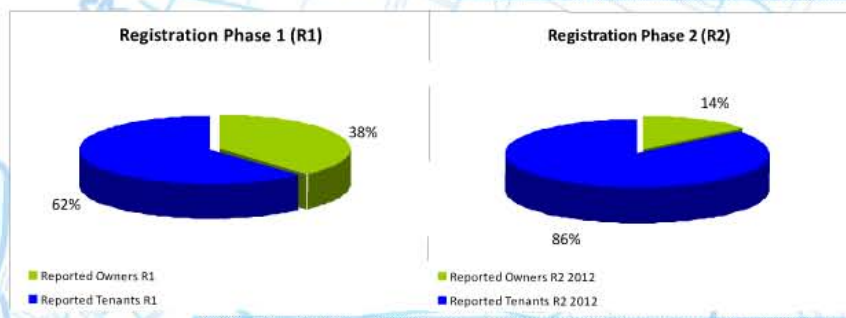
Between January to August 2012 the IDP Registries in 91 IDP sites were updated. These sites hosted a total of 13,836 households or 47,591 individuals at the time of registration. This population was used as the sample population for this analysis.

At least 84% of the IDP population in 2012 was also present in 2010.

Household structure has changed considerably between 2010 and 2012



R1: Registration Phase one completed in 2010.
R2: Registration Phase 2 in 2012



In 2012, there are more households in IDP sites that were tenants before the earthquake

There are more single headed households remaining in IDP sites than couple headed households in 2012. Specifically, in 2012, 57% of the households report being a single headed household compared to 48% in 2010.

Household size decreased to 3.4 compared to 4.3 in 2010.

Also, there are more young people between the age of 20 to 39 in IDP sites in 2012 compared to 2010 with a greater increase of males than females.

On the other hand, there are less elderly people (65 years and older) and youth between the ages of 5 to 19.

2012	No. of IDP Households	No. Individuals	% Individuals	Average Household size	Average age of Head of Household	Average age of Individuals	Average N <15 yrs per Household
Type of Household (HH)							
Couple headed HH	6,041	24,207	50.5	4.0	34.7	22.9	1.4
Female headed HH	4,651	15,358	32.0	3.3	39.7	24.3	1.0
Male headed HH	3,144	8,026	16.7	2.6	34.2	26.6	0.4
TOTAL (2012)	13,836	47,591	100	3.4	36.0	23.8	1.0

Database team

Enter Serial Number PORT-AU-PRINCE, 6ème Turgeau, CM

First name Surname Father

Household members								
No.	First Name	Last Name	Sex	Age	Relationship	Att.	Sch	SV
▶ 1	Joseph	Augustin	Male	28	H - Head of Household	<input type="checkbox"/>		
2	Marie Denise	Francois	Female	23	S - Spouse (wife or husb	<input type="checkbox"/>		
3	Joewhenslad	Augustin	Male	1	C - Child of HoH	<input type="checkbox"/>		
*						<input type="checkbox"/>		

Serial Number.

Household Size

Commune (Origin)

Section Com. (Origin)

Block (Origin)

Street Name (Origin)

House No. (Origin)

Intend to return to location origin
 Yes No

Intend to move to
 Host family
 Planned site
 I didnot decide

NM (Do not intent to move)
 Yes No

House Status

Document 1
Type
No

Document 2
Type
No

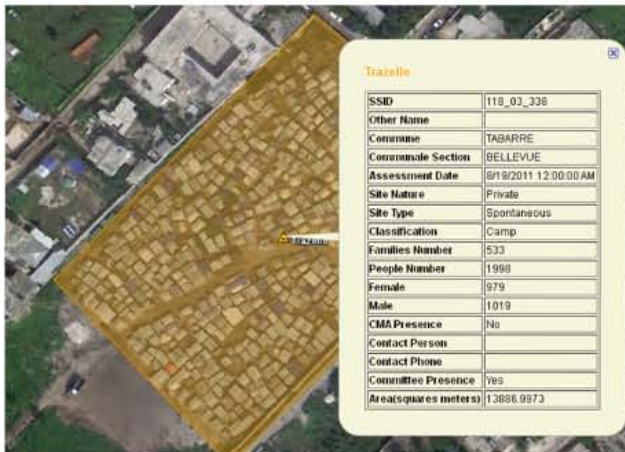
Contact phone

Record: of 3

Database (SQL)

GIS & Mapping

Points and polygons of the IDP Sites



Street network



Neighborhoods of Port au Prince



IOM GIS Unit data sources

- Field surveyors
- Satellite imagery
- Cooperation with open source community
- National Center for geospatial information



GIS & Mapping – Aerial photo



OVERVIEW ANCIEN AIRPORT MILITAIRE LIMITE

1 cm = 30 meter
Meters
0 25 50 100 150 200
1:3,000



imagery_Sensefly_JMV_August 16 2012



Imagery_Sensefly_JMV_March 05 2013



7 Aviation

▲ ANCIEN AIRPORT MILITA

Route de Delmas



Block 7 Aviation

▲ ANCIEN AIRPORT MILITA

Route de Delmas



Thank you!

<http://iomhaitidataportal.info>



IOM • OIM