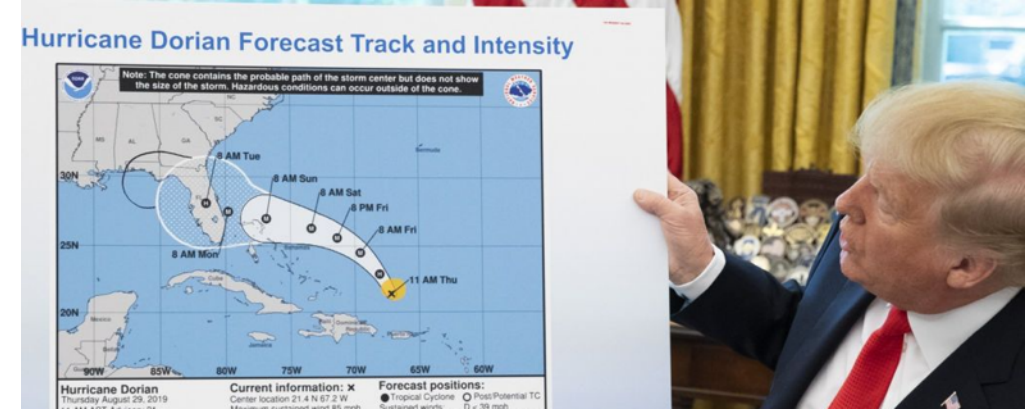


Bahamas Shelter Sector - Dorian response

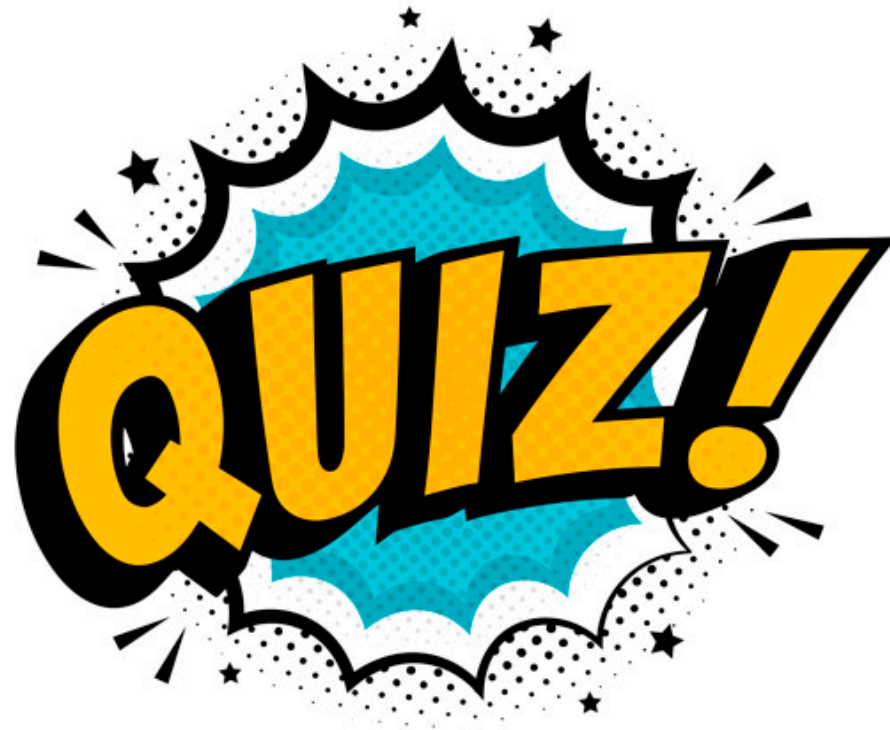
Global Shelter Cluster meetings - 06/10/2020

PLEASE CONNECT TO www.menti.com code: 46 56 39 2



Bahamas

Please take your phones and go to menti.com
then insert the code



3 Islands
3 tales





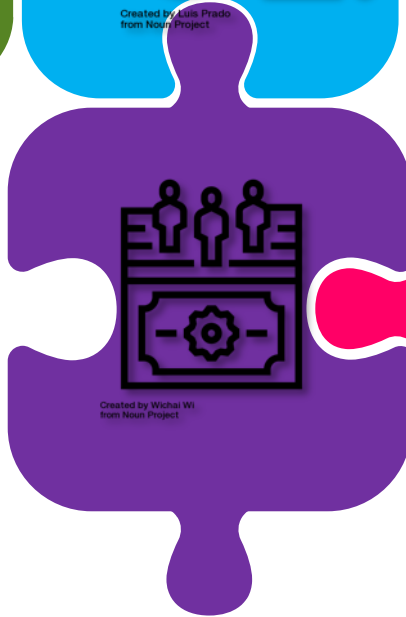
Partners



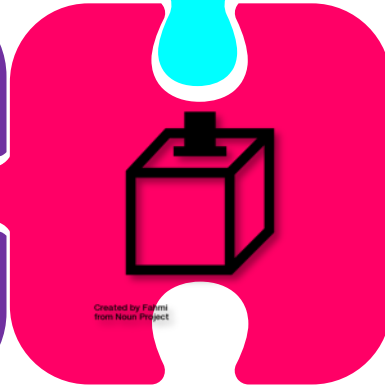
Funds



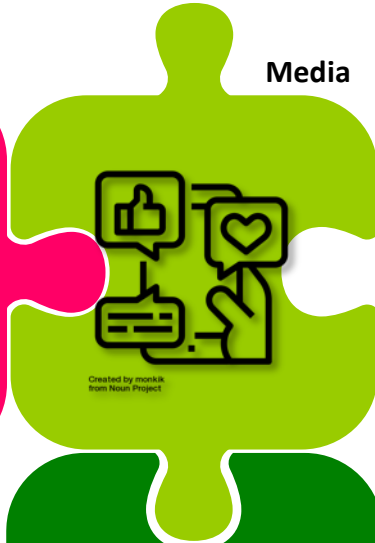
Institutions



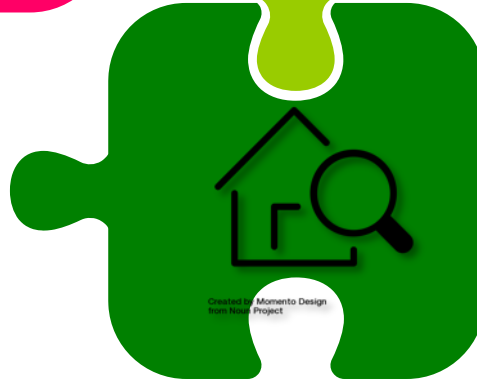
Governance system



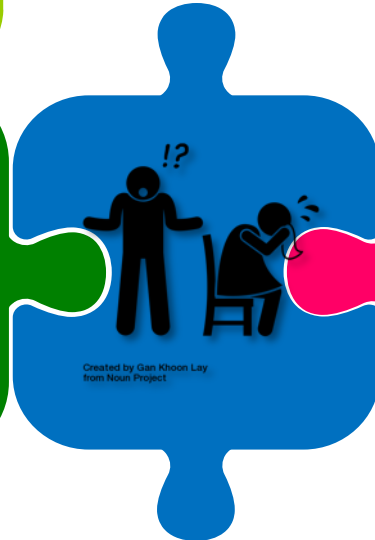
Politics



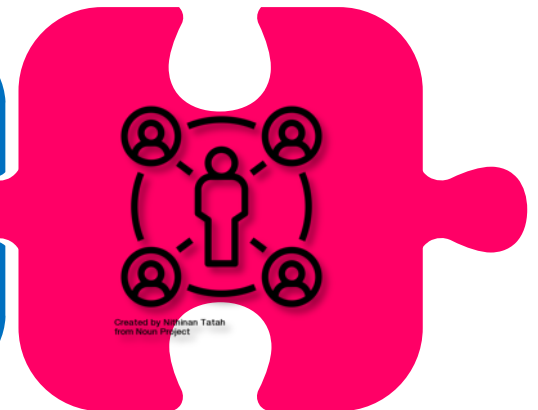
Media



Generational property



Sorrow & confusion



Civil society & religious charity





Created by Gerald Wikmoose from Noun Project



Created by monik from Noun Project



Created by Mirman Tatan from Noun Project



Created by Lolo Phoko from Noun Project



Created by Felix from Noun Project



Created by ElanGambino from Noun Project



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Created by Sam Khooon Lee from Noun Project

Creating a space to bring together stakeholders

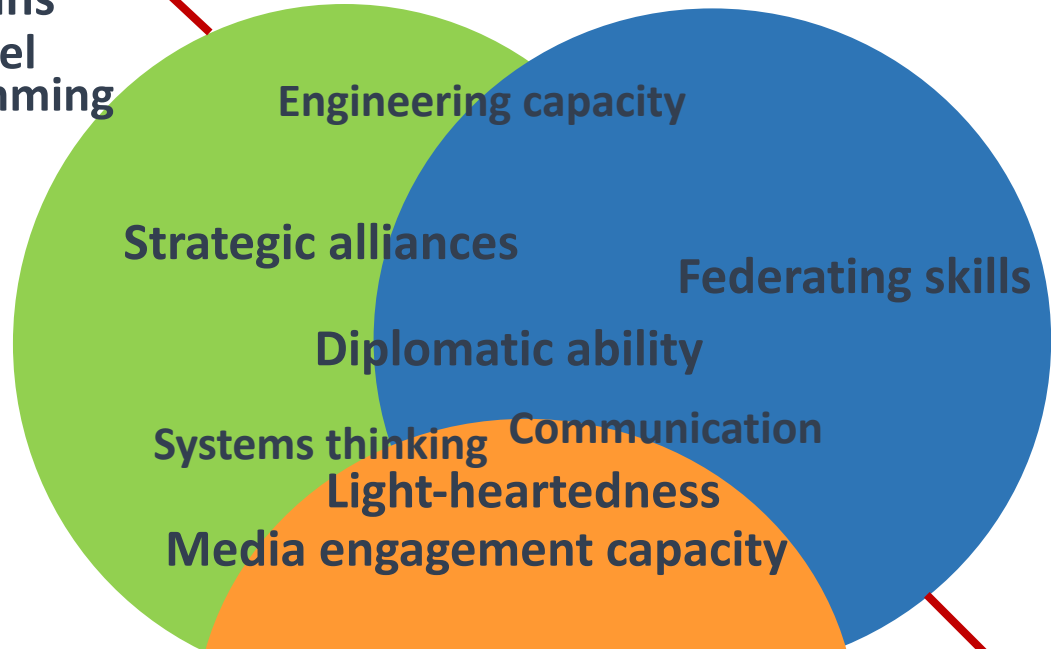
Data analysis for programming and adequate communication

Translators between Gov. / Civil Society / Philantropy /Humanitarian



Team

Government
Media
Min. DRR
Politicians
High level
programming



Civil society
Technical aspects
Min. of Public work
Private Sector

GIS
Statistics office
NEMA IM

Summary of Damage Assessments

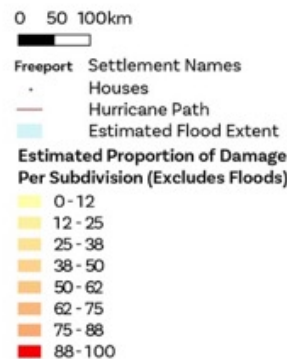
Hurricane Dorian - 09/12/2019

Shelter Sector Bahamas
ShelterCluster.org
Coordinating Humanitarian Shelter

Hurricane Dorian Building Damage Estimations
ABACO ISLANDS - THE BAHAMAS
Produced 12 December 2019

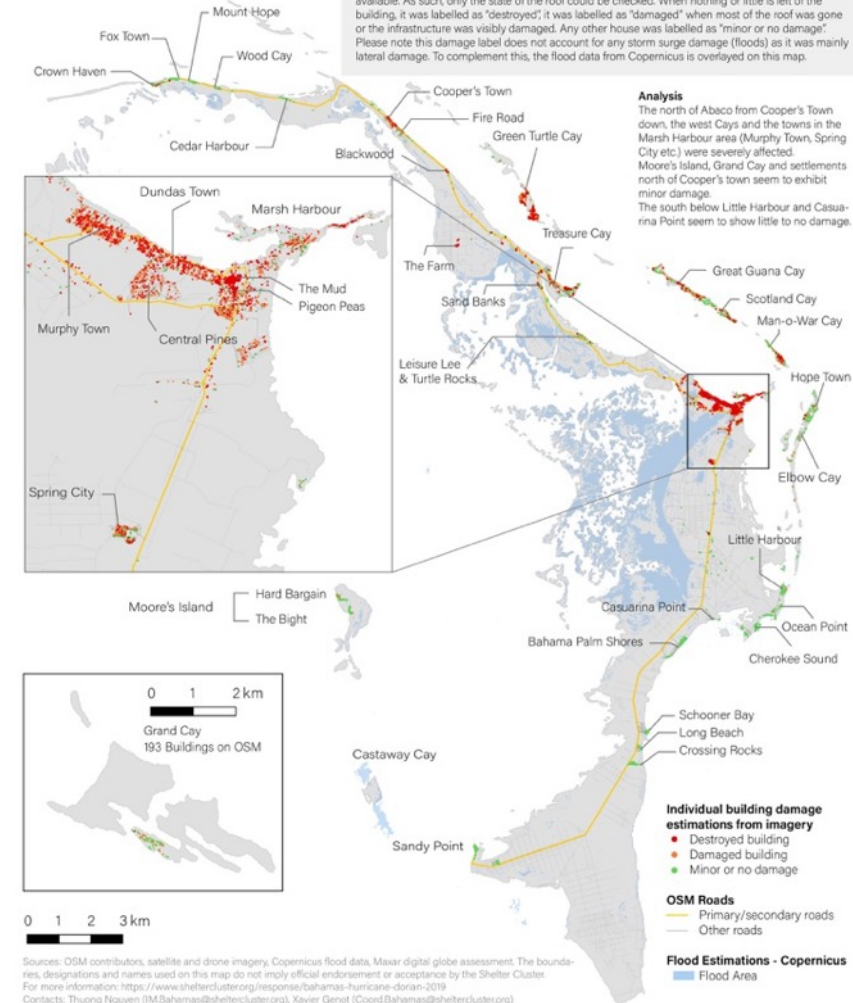
Shelter Sector Bahamas
ShelterCluster.org
Coordinating Humanitarian Shelter

DRAFT
Estimated Post-Hurricane Aftermath in Grand Bahama
Produced 21 November 2019



Produced 21 November 2019
Sources: OSM contributors, Government of The Bahamas, Global Medic and GBPA drone imagery, Maxar Satellite Imagery
The boundaries, designations and names used on this map do not imply official endorsement or acceptance by the Shelter Cluster.

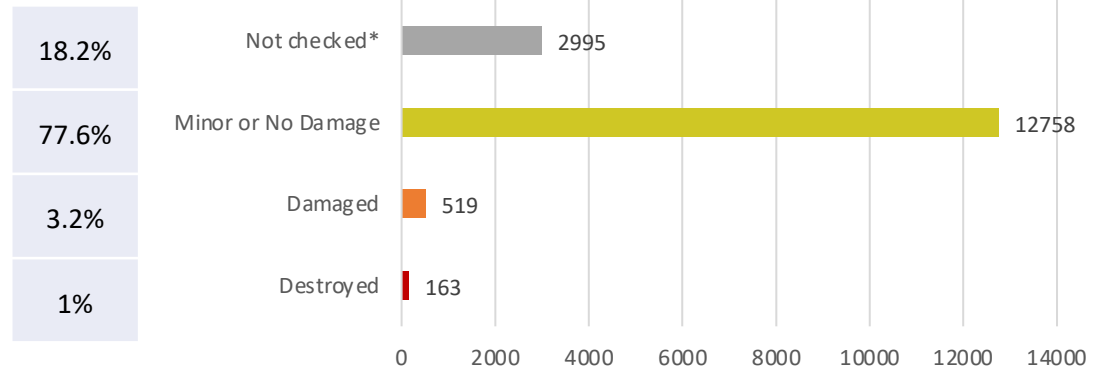
Contacts:
Thuong Nguyen (IM.Bahamas@sheltercluster.org)
Sytiske Claassen (Hub.Bahamas@sheltercluster.org)



GRAND BAHAMA

Satellite+Drone Assessment - as of Nov 2019

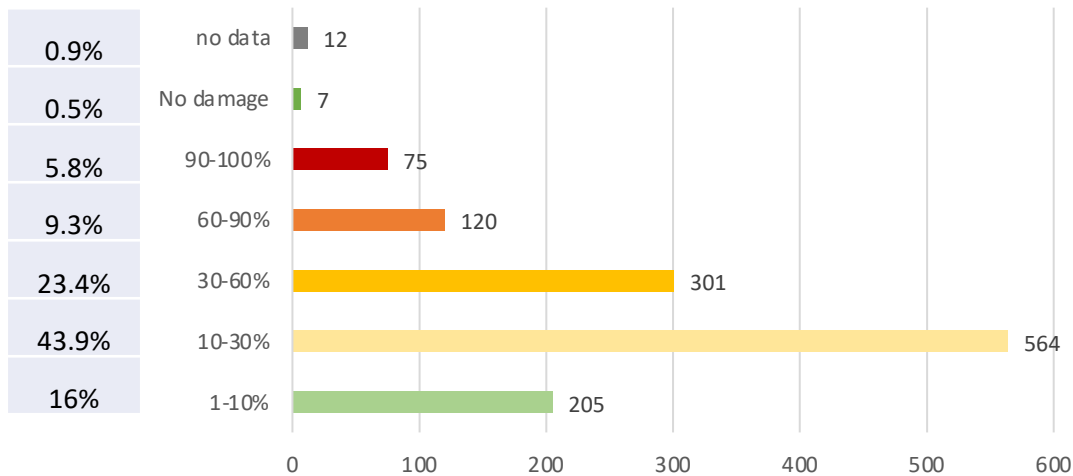
Total: 16,435 buildings on OSM in Grand Bahama



*Not Checked: these buildings are distributed all throughout, but the most affected settlements were fully assessed
This assessment will underestimate Flood damage as it is often not visible from Aerial imagery

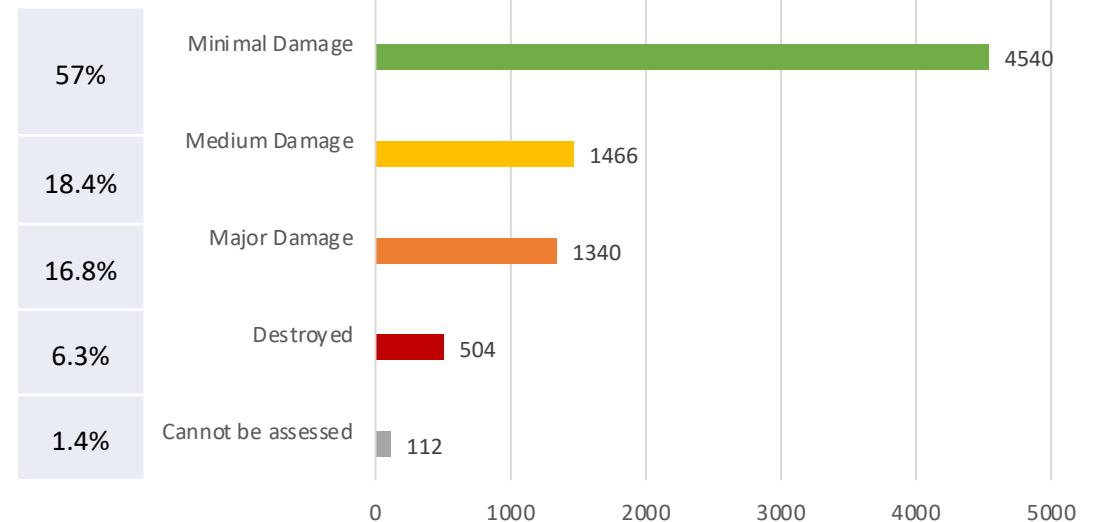
GBPA Assessment - as of 05 Dec 2019

Total: 1,284 buildings assessed



Public Works - as of 25 Nov 2019

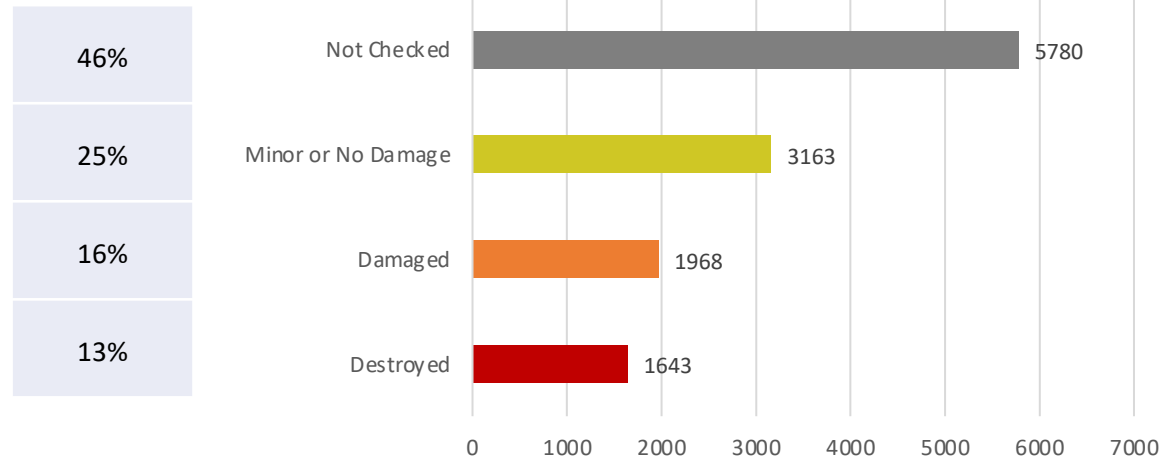
Total: 7,962 buildings assessed



ABACO

Satellite Assessment - as of Sep 2019

Total: 12,554 buildings in Abaco



*Not Checked: these buildings are distributed all throughout, the majority of the buildings that were not checked were in the south or in the outer cays, Meaning these will be mostly either secondary homes or minor/no damage.
This assessment will underestimate Flood damage as it is often not visible from Aerial imagery

Damage Assessments - Process



Hurricane Dorian Building Damage Estimations

ABACO ISLANDS - THE BAHAMAS

Produced 12 December 2019

Abaco Islands: **12554** Buildings from Open Street Map (OSM) not including Grand Cay

METHODOLOGY

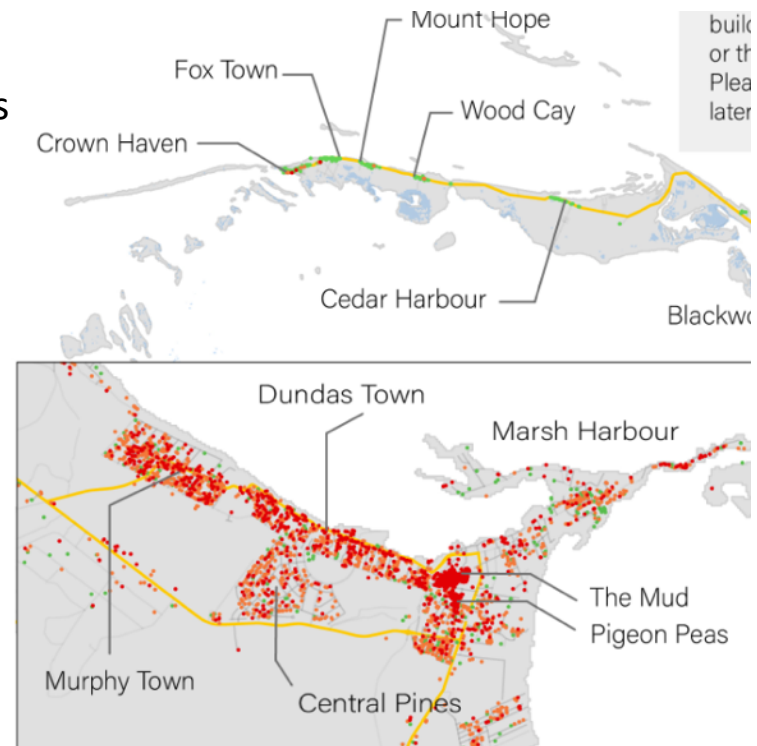
- 1) Used secondary data as much as possible
- 2) Any gaps in the data collected with different methods
- 3) Data spot-checked in person and verified through KII

STEPS

- 1) Established settlement names and geo boundaries
- 2) Assessed the damage level by settlement
- 3) Visualised the data

CHALLENGES AND LESSONS LEARNED

- 1) Damage due to previous disaster
- 2) Unfinished buildings/unoccupied buildings
- 3) Secondary homes/socio economics

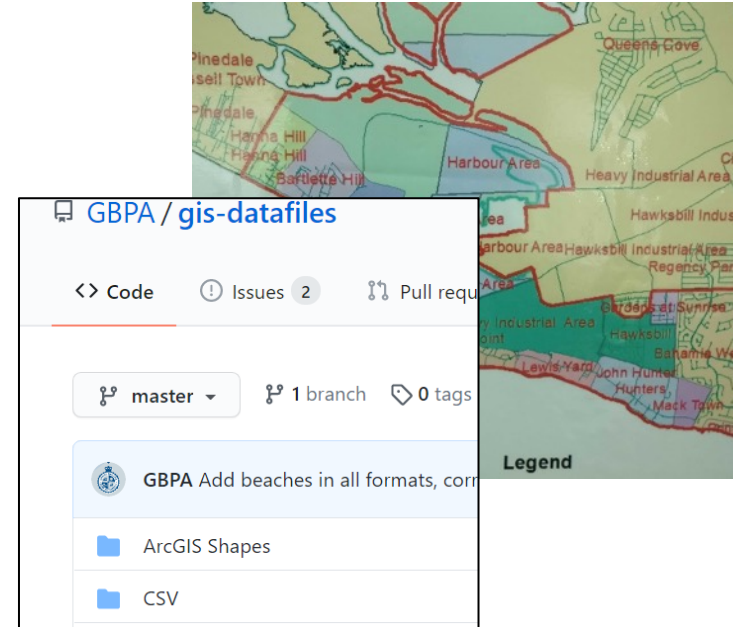
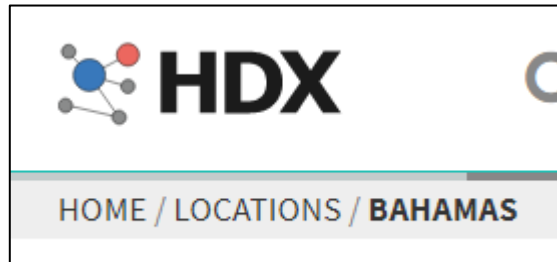


- 1) Established settlement names and geographic boundaries
- 2) Assessed the damage level by settlement
- 3) Visualised the data

Damage Assessments - Process

Secondary data used as base

- Old geographic data on HDX
- Old government maps
- Publicly available GBPA boundaries
- OpenStreetMap
- Local legal land properties documents



Any gaps/doubts in secondary data collected using KII and field visits

- KII: Local estate agents
- KII: Red Cross staff
- In-person visits

<https://data.humdata.org/dataset/bahamas-draft-subdivisions-for-grand-bahama-island>

- 1) Established settlement names and geographic boundaries
- 2) Assessed the damage level by settlement
- 3) Visualised the data

Damage Assessments - Process

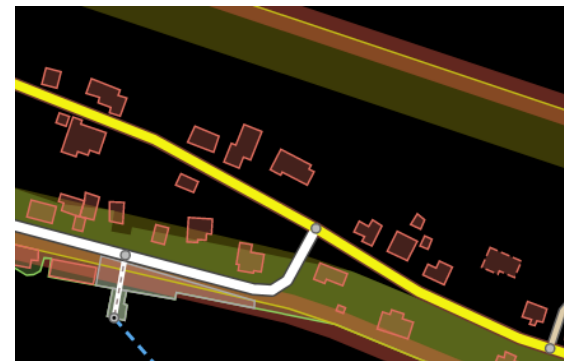
Secondary data used as base along with a sensible sampling methodology

- Drone imagery (through partners)
- Pre-disaster Satellite imagery
- Post-disaster imagery
- Open Street Map building counts
- Population estimates
- 2010 Population census



Any gaps/doubts in secondary data collected using KII and field visits

- KII: NGOs and people who work in the field
- KII: Affected population
- KII: Red Cross staff
- In-person visits



GRAND BAHAMA Hub – Context of the humanitarian response

1. Activation / Deactivation: lack of clear exit strategy of the cluster or understanding what we could accomplish

2. Coordination with government entities cluster sector, unknown number of humanitarian actors (humanitarian standards, neutrality)

3. Role of NEMA: gov. Selection criteria were not shared with us but we had bits and pieces

4. Politicized system to operate in SP (Area of influence of the US – language, habits, Katrina response inspired, veterans, philanthropy, election year was coming)

- *Lack of funding* minor repairs only/philanthropical actors
- *Issue w legislation such as generational property* constructed prior to
- *Lack of certified construction companies* for repair work
- *Lack of income* – 80% fishing industry destroyed Abaco and GB
- *Issue w Haitian migrants* could not be addressed by humanitarian sector (no political leverage)

5. Lack of damage and loss assessment – different damage assessment and immediate support was in place with earlier disasters Mathew in 2016

- 1) no analysis was found on the efficacy of that system (some people were left unsupported)
- 2) that assessment and compensation system was not scalable for this magnitude of disaster

6. Role of insurance companies – who did damage assessments (undersold insurance policies with mortgages)

7. Role of Engineers without borders (EwB) came to GB on request of the GBPA also for commercial buildings facing mold damages, also supported Min. Of Public Work with UNDP on damage assessment

8. Connecting with civil society groups: pastors with good connection of the communities willing to play a role in verification, monitoring follow-up

GRAND BAHAMA Hub – Context of the humanitarian response



Created by Made x Made from Noun Project

Political



Created by Wichai Wi from Noun Project

Gouvernement : Private sector and civil society - insurance, disconnect



Created by supalerk laipawat from Noun Project

Increased vulnerability : house damage; loss of livelihood, generational property



Created by Luis Prado from Noun Project

Humanitarian:
Profiles of our partners, Philantropy



Created by Andrei Yushchenko from Noun Project

Role of the media

GOVERNMENT – Coordination

- **New Ministry** for Disaster Management, **umbrella for 2 agencies:**



Emergency & Preparedness

Transition 3rd December



Recovery & Reconstruction

Transition:

- Coordination structure to be settle down, within a **new ministry building up as it goes.**
- **DRA setting up their operational systems with Small Home Repair Programme focus**
- Some shelter agencies **moving focus from GB to Abaco**
- **Media scrutiny and pressure**

GOVERNMENT – Recovery Reconstruction

SMALL HOME REPAIR PROGRAM PROCESS



Eligibility: Bahamas citizen / Owns the property / Lived at the damaged property on August 31st, 2019 / Uninsured

- ✓ The assistance can be for labour, materials or both.
- ✓ Tradesmen must be approved.
- ✓ Only approved vendors

➤ Launched on 10th February

Minor damages – Up to \$2,500

Medium damages – Up to \$5,000

Major damages – Up to \$7,500

Destroyed – \$10,000

ABACO Hub – Context of the humanitarian response



Abaco

- Arrived early January as Hub Coordinator/IM, small window & and **refreshed coordination start.**
- **Most affected island** but with fewer partners, less capacity, logistical constraints, but similar caseload to GB.
- **Marsh Harbour** – severely damaged, utilities down
- Logistical constraints
- Returnees, No build zones / Debris, Haitian population



Grand Bahama

- Strong(er) coordination framework, leadership & interest from government
- Less destruction, more flooding damage, more established partners
- Freeport – functioning, easier to operate in
- Less logistical constraints

ABACO Hub – Context of the humanitarian response

Challenges & Responses

- **Coordination** - Shelter sector lead/ focal point, inter-sector coordination. NGOs off-the-grid, addressing response gaps. Support DRA.
- **Information Management** - Assessment data, endorsing products, data collection. Mapping response while unclear on needs. Handover.
- **Gov. & Politics** - Government support & interest, elections, intra-government relationships. Relationships with government & DRA. DRA on GB.
- **Advocacy & Cross-cutting issues** – Returnees, no-build zones, conversation on immigrant population. DoSS access support & information posts.



Non-structural House repair Assistance Packages - constructive layering

2.8 Financial assistance

Home-owner contribution

2.4 Non-structural repair

2.3 Mold remediation

2.2 Mucking and gutting



Government Small Homes Repair programme (DRA):

- ✓ \$ 2,500 for minimal damage
- ✓ \$ 5,000 for medium damage

IN COMPLEMENT OF

Sector Partners programmes:

From a review of rates and agency plans it is expected that for a 1000 sq. ft to 1500 sq. ft, an envelope of assistance for non-structural house repairs would be between **\$6,000 and \$12,000** in both Abaco and Grand Bahama. This range is large but the level of damage can be quite variable and houses are significantly different in size.

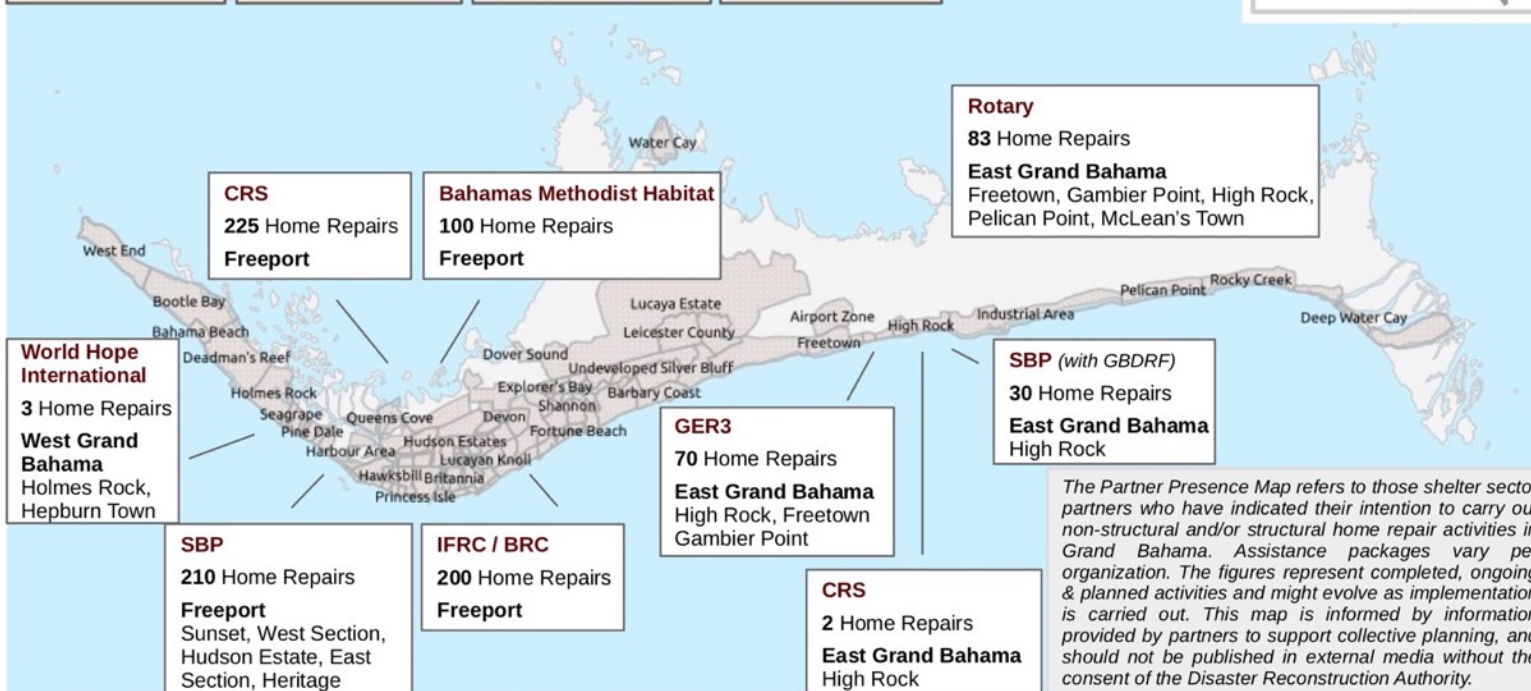
Non-structural House repair - Mapping



Shelter Sector Bahamas
ShelterCluster.org
Coordinating Humanitarian Shelter

Partner Presence Map - Hurricane Dorian
1,483 Home Repairs - Completed, Ongoing & Planned
Grand Bahama Island - The Bahamas
Reported as of 10 February, 2020

<p>ADRA 30 Home Repairs Various Locations</p>	<p>Lutheran Disaster Response TBD Home Repairs Various Locations</p>	<p>Samaritan's Purse 230 Home Repairs 300 Home Repairs (funded by USAID) Various Locations</p>	<p>United Rescue Alliance TBD Home Repairs Various Locations</p>
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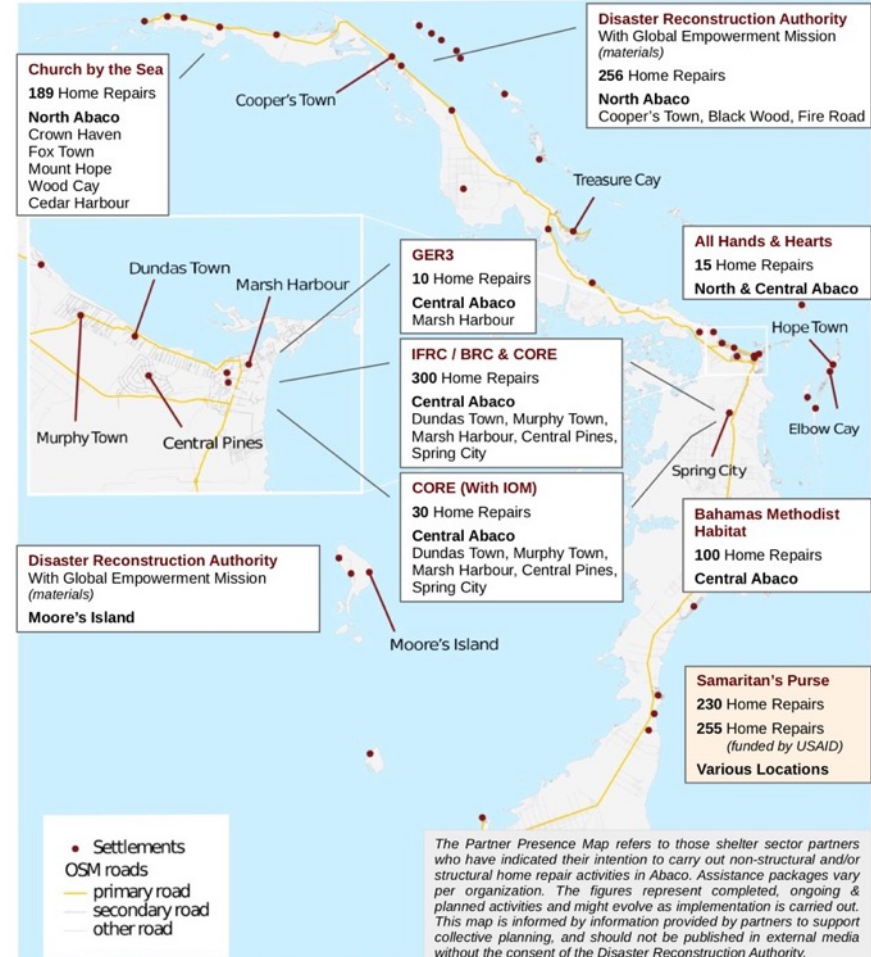
The Partner Presence Map refers to those shelter sector partners who have indicated their intention to carry out non-structural and/or structural home repair activities in Grand Bahama. Assistance packages vary per organization. The figures represent completed, ongoing & planned activities and might evolve as implementation is carried out. This map is informed by information provided by partners to support collective planning, and should not be published in external media without the consent of the Disaster Reconstruction Authority.



Shelter Sector Bahamas
ShelterCluster.org
Coordinating Humanitarian Shelter



Partner Presence Map - Hurricane Dorian
1,385 Home Repairs - Completed, Ongoing & Planned
Abaco Island - The Bahamas
Reported as of 10 February, 2020



The Partner Presence Map refers to those shelter sector partners who have indicated their intention to carry out non-structural and/or structural home repair activities in Abaco. Assistance packages vary per organization. The figures represent completed, ongoing & planned activities and might evolve as implementation is carried out. This map is informed by information provided by partners to support collective planning, and should not be published in external media without the consent of the Disaster Reconstruction Authority.

Build Back Better Enabling Environment

- Building Code is strong and based on Miami Dade/South Florida code. Government considering revisions, particularly related to Tidal Surge Risk.
- Compliance and Enforcement being strengthened
- Concerns Around Skilled Labour Capacity
- Housing Finance



Build Back Better Enabling Environment

- Hazard mapping limited – impacts “risk-aware” reconstruction

ing areas the level of the lowest floor should be at least 12” above any known flood level or 18” above crown on adjacent road whichever is the greater.



- Concerns around delayed/limited maintenance / repairs from damage past hurricanes.
- Social-Technical Assistance Plans Limited



Key tools, documents and process

- **Strategic Framework**
- Response and planning **dashboard** / **partners presence map** for house repair
- **Factsheet for February 2020** – 6 months mark support communication
- **Technical Guidelines**, – include guidance on generational land / Non-structural and structural repair – rental – Reconstruction (low cost / starter home) – Retrofit
- **BBB interim key messages**
- **Document index** and **useful links**
- **Media monitoring**

- **Handover of all systems, but challenges for DRA to absorb** on top of (1) Small Home repair programme, (2) new ministry with no defined structure for coordination and **required resources to manage it.**

Key challenges identified by partners

1. **Construction material pipeline, procurement**
2. **Labour (skilled & unskilled) capacity, access and availability**
3. **Hurricane season preparedness while focus on reconstruction**
4. **Socio-economic technical assistance community outreach**
5. Humanitarian agencies plans & eligibility criteria / timeframes,
communication with affected communities
6. Limited plans & capacity to support **fully destroyed / Major damaged homes**
7. Clarity on **damage data to understand the different caseloads** and support planning / gaps / avoid duplication
8. **Utilities & debris in Abaco**

Key gaps & issues

1. Limited plans & capacity to support **fully destroyed / Major damaged homes**
2. Clarity (quantity, type and localization) on **damage data to understand the different caseloads** and support planning / gaps / avoid duplication
3. **Evacuees return** in country and out of country, **pre-Dorian renters**,
4. **Vulnerability of survivors from Non- Build-Zone**, and path to housing recovery

Questions & Answers

