



## Imagery meeting #3 UAS Coordination Technical Working Group

17 Dec. 2020

### Tour de table

Organization	Contact
Independent	Faine Greenwood
GlobalMedic	Daniel Cyr
GlobalMedic	Jowett Wong
Humanitarian Open Street Map	Cristiano Giovando
ICRC	Brenda ?
WFP	Sophia Rosa
OpenDroneMap	Stephen Mather
WFP- EME	Michael Manalili
Polytechnic of Turin	Filiberto Chiabrando
Polytechnic of Turin	Alessio Calantropio
MINUSMA	Christine Wachira
Emergency.lu	Gilles Hoffmann
WFP	Elizabeth Bourke
WFP	Matthias Boyen
WFP	Masa Sabbah

Opening remarks by co-chairs Alessio and Filiberto of the Imagery TWG welcoming everyone to third session of the Imagery group

*Brief new members introduction*

*Dividing the TOR between members:* as an initial phase, an idea of dividing the role of each member to the different TORs of the Imagery TWG was suggested (each member sent which area they would like to work in).

*This session was presented by GlobalMedic, around the UAS checklist in the field*

*Please find the power point presentation [here](#).*

*Dan. Cyr gave a brief introduction on GlobalMedic:* Canadian based registered charity, a disaster response agency that has responded to almost 200 disasters around the world.

*Topics covered in the presentation by Dan Cyr:*

- RESCUAV Mission Planning:
  - o Property permission;
  - o Risk Mitigation;
  - o Pre-flight checklist and packing list;
  - o Onsite checklist;
  - o Emergency response responsibilities and procedure;
  - o Field level Hazard Assessment
  - o Operational go/no-go Risk Assessment;

Followed by that Jowett Wong discussed GlobalMedics role in the response to Hurricane Dorian that took place between the 1<sup>st</sup> till the third of September 2019. GlobalMedic was active in two islands, Grand Bahama and Great Abaco Islands with a main mission of mapping populations on the islands and getting footage. The drones used in the response were: DJI Mavic Pro, DJI M200, DJI M210 RTK, FLIR system SkyRanger R60, and FLIR system SkyRanger R70. Pix4D Mapper, React and Cloud was used to process the data collected (Jowett focused on showcasing the Pix4D React).

During the response the Shelter Cluster reached out to GlobalMedic to get the Orthomosaics that they have created for the governmental (they used open Aerial maps in order to give free open access) and therefore several NGOs used GlobalMedics Orthomosaics:

- ~100 square km was mapped;
- 65,000 images was taken
- 10 pilots were rotated from GlobalMedic from Canada

*Discussion/ Q&A:*

***GlobalMedic only used multi-router platform, isn't better to use fixed-wings platform?***

Dan: given that it was so windy, fixed wings was a bit of a challenge, although the multi-router struggle with wind too, but it was proven to be better; but we are looking into investing in VTOL fixed wings for the upcoming year.

***Did GlobalMedic use ground-control points?***

No, government officials did not have the time or ability to see the damages across the islands and that is why they needed an instant snapshot.

**Does GlobalMedic have any experience with AgiSoft?**

Jowett Won has limited experience and would be keen to work with it after a proper in-field training.

**Next session will be on 17 February (Matthias will share the calendar once it is available)**