



Connectivity meeting #5 UAS Coordination Technical Working Group

24 March. 2021

Tour de table

Organization	Contact
AT&T	Art Pregler
Independent	Faine Greenwood
AIRT.ngo (Airborne International Response Team)	Christopher Todd
MINUSMA	Christine Wachira
World Bank	David Guerin
Emergency.lu	Gilles Hoffmann
GlobalMedic	
WHO	Kamal Ait Ikhlef
WHO	Louis Ilunga Kalubi
Ericsson	Lars Ruediger
Ericsson	Lars Svensson
Spooky	Rahul Tiwari
WFP	Elizabeth Bourke
WFP	Gabriela Alvarado
WFP	Omar Namamoui
WFP	Patrick McKay
WFP	Masa Sabbah

Opening remarks by Patrick welcoming everyone to fifth session of the Connectivity group

A few minute were given to introduce new members to the group followed by a presentation by AT&T.

Deep Drive "How At&T uses drones to support and enhance its networks" presented by Art Pregler
PREGLER, ART

Please find the presentation PDF [here](#) and [here](#) (two documents) and follow the [recording](#) from minute 8:45 – 33:10.

AT&T is one of the players in the connectivity field and has achieved the most success deploying UAS to provide connectivity solutions following natural disasters, and the presentation included:

- Introduction of AT&T's Flying COW (cells on wings);
- Drones used in the Flying COW;
- 4 tethered/power station options;
- Backhaul options
- Types of operations that AT&T has support using it's Flying COW;
- Current upgraded operations methods;
- Introduction to FirstNet Program: US's first and only highspeed broadband network tailored specifically from ground up to meet the needs of local, state and national first responders;
- Actual drive test results;
- Alternative Flying COW aircraft options;
- AT&T initiatives under development;
- Using drones for Damage assessment;

Q&A/Discussion:

- *To operate in a remote area after an emergency, from you experience would you recommend the right package/coverage with ease of transportation that this group can focus on?*
AT&T's default solution would be the best fit (image in minute 33:10) as it's relatively small and easy to deploy.
- *For controlling the ground area under the Flying COW in the event of a crash, how far around the area do you control?*
Whatever the altitude for flying is, we use the same radios to establish a safety perimeter.
- *Can you broaden the beam of the area covered by the Flying COW so it doesn't only connect the ground under but also other drones in the airspace? If so, what is the highest the drone can fly with the height of the cable?*
AT&T typically flies the drone with only directional antennas, or antennas that are not but can provide the same type of beam pattern. Once it's pointed down, it has good side loop so we can get connectivity for other drones in the airspace and can redirect the antennas if needed. Regarding the height of how far the drone can go, AT&T tries to stay at 400 feet and hasn't needed to go further.
- *Do you work anywhere in the world?*
AT&T can go anywhere in the world but have to coordinate with the carrier and the host country, to ensure wherever we are deploying, we don't cause interference.

For more details please follow the [recording](#).

Acceptance of the TORs

The draft ToR is now finalized and can be found [here](#).

AOB

Appointment of the 3rd co-chair: Lars Ruediger

Next TWG meeting is on 28 of April 2021