United Nations World Food Programme Drones in Humanitarian Action Training

Figure 1. Participants taking photos of drones

Figure 2. Drone operation demonstration

Figure 3. Multi-rotor operation practice

Figure 4. Disaster response simulation activity crew

OVERVIEW	
Flying Labs	Namibia Flying Labs
Location	Katima Mulilo, Namibia
Date	Monday, 16 May 2022 - Friday, 20 May 2022
Length (number of days)	Five (5)
Sector program (optional)	AidRobotics
Format	Both (online and in-person)

Co-organizer if applicable	WeRobotics United Nations World Food Programme (WFP)
SDGs	GOAL 3: Good Health and Well-being GOAL 8: Decent Work and Economic Growth GOAL 9: Industry, Innovation, and Infrastructure

SCOPE & OUTCOMES	
Type of training	1. Introduction training to drones 2. Technical training of professionals 3. Sector-specific training of professionals
Goal of the training	1. Create drone awareness 2. Develop drone data acquisition skills 3. Develop drone data analysis skills 4. Develop data literacy/interaction skills
Expected outcome for participants	1. Basic understanding of drone use cases 2. Introduction to mission and flight planning 3. Introduction to the Namibian airspace and regulations 4. Understanding safe operation of drones 5. Awareness around the weather conditions on drone flights
Confirmed outcome after training	The expected outcomes were all achieved. Participants took part in disaster response simulation exercises as well as in the self-paced WeRobotics online course on Drones in Humanitarian Action. The know-how and capacity developed during the training will accelerate the disaster preparedness processes and improve the efficiency and safety of humanitarian aid work in Namibia. We transferred knowledge around data capturing, manipulation, processing, and safety standards, as well as data interpretation, for actionable insights.
Eventual next steps	1. Acquisition of drone equipment 2. Further simulation exercises on disaster response 3. Upcoming training for WFP executives

PARTICIPANTS	
Profiles and number of participants	1. Staff from Organizations (2) 2. Staff from Government (13)
Name of participants' organizations	1. Ministry of Gender Equality Poverty Eradication and Social Welfare (MGEPESW) 2. National Statistics Agency (NSA) 3. Office of the Prime Minister (OPM) 4. United Nations World Food Programme (WFP) 5. Zambezi Regional Government
Gender ratio	5 female (33%) and 10 male (77%) - Female: Male = 1: 2
Who paid for the training?	1. Flying Labs Namibia 2. United Nations World Food Programme (WFP)
Participant fee rate	USD 1,539.80
Scholarships offered?	Partial scholarship

CONTENT	
Training components	1. Online 2. Theory 3. Practical 4. Simulation
Training resources used	**Hardware** 1. Data projector 2. DJI Mavic 2 Pro 3. DJI Mavic Mini 4. DJI Tello 5. Laptop computers 6. Sound system 7. SenseFly eBee X **Resources**

	1. Flip chart 2. Quiz material 3. Training manuals 4. Whiteboard markers **Software** 1. Dronelink 2. Pix4Dcapture 3. Pix4Dreact 4. WebODM 5. Zoom Meetings **Visual Aids** 1. Banners 2. Flyers

Approaches and methods used	● Particular attention was given to disaster response, during the introduction to drones training.
	● The training featured a lot of practical sessions.
	● Disaster response simulation covered the following:
	    ○ Seeking mock flight approvals
	    ○ Mapping
	    ○ Data processing
	    ○ Disaster evacuation planning
	    ○ Rescue mission