



Drone Training for Environmental Foundation for Africa (EFA)



Theoretical Session, Koinguma giving an overview of the various parts of a drone



Hands on manual flight session



SLFL trainers and EFA participants outside EFA's Biodiversity and Renewable Energy Learning Centre (BRAC)

OVERVIEW	
Flying Labs	Sierra Leone Flying Labs
Location	Freetown, Sierra Leone
Date	16/02/2021 and 17/02/2021
Length (number of days)	2 days
Sector program (optional)	EcoRobotics





Format	In-Person
Co-organizer if applicable	None
SDGs	GOAL 15: Life on Land

SCOPE & OUTCOMES	
Type of training	 Introduction training to drones Sector specific training of professionals (staff members of the Environmental Foundation for Africa)
Goal of the training	1. Develop drone data acquisition skills
Expected outcome for participants	The overarching goal of the training course was to disseminate basic concepts, essential knowledge and application skills of drone technologies to allow the Environmental Foundation for Africa (EFA) staff to undertake drone-based monitoring of wildlife and deforestation activities within the Western Area Forest Reserve.
Confirmed outcome after training	Participants gained skills and understanding of the various components of a RPAS and their DJI MAVIC 2 Pro. Participants also learned how to confidently operate the DJI MAVIC 2 Pro in a safe and effective manner and how the technology could be integrated into their daily work.
Eventual next steps	Sierra Leone Flying Labs (SLFL) will provide support and guidance to EFA. Possible opportunity to provide additional training on drone mapping, image processing and data analysis. SLFL and EFA will explore potential areas to collaborate.

PARTICIPANTS	
Profiles and number of participants	 Staff from Organizations (non-profit/for-profit/research institutes, etc.) – 3





	participants
Name of participants' organizations	The Environmental Foundation for Africa (EFA)
Gender ratio	All male
Who paid for the training?	Free training

CONTENT	
Training components	 Getting Started What is a RPAS? Types of RPAS? RPAS Applications/ Use Cases
	 Principles and Best Practices Registration with Sierra Leone Civil Aviation Authority Aircraft Systems / Knowledge Safety and Best Practices
	 Getting Ready to Fly Setting up DJI GO4 App DJI MAVIC Pro 2 Calibration Settings Aircraft Maintenance & Battery Management Fail-safes and Emergency Handling
	Manual Flight Exercise: 1. Basic Flight Maneuvers 2. Payload Handling 3. Emergency Handling
Training resources used	 Resources used (Ipads, DJI Phantom 4 pro, DJI MAVIC 2 Pro, flight maneuver worksheet)
Approaches and methods used	 The training was adapted to our specific audience by tailoring examples and scenarios to fit EFA's intended use case of the drone The training was hands-on and allowed participants





the chances to implement and practice what was being taught. The instructors created various scenarios throughout the training that provided participants numerous opportunities to put their theoretical knowledge into practice.
