

Drone Training For Flood Disaster Management



Participants from Ondo State Environmental Policy Agency with Mr. Adewale Adegoke (Coordinator of Nigeria Flying Labs) and Mr. Ayomide Adeagbo (Nigeria Flying Labs Drone Pilot)



Participants practicing how to fly a drone in the field



Mr. Adewale Adegoke (Coordinator of Nigeria Flying Labs) presenting Certificates of Participation to the participants

OVERVIEW	
Flying Labs	Nigeria Flying Labs
Location	Akure, Ondo State, Nigeria
Date	October 3, 2023 to October 6, 2023
Length (number of days)	3 days
Sector program (optional)	AidRobotics
Format	In-person
Co-organizer if applicable	None
SDGs	GOAL 13: Climate Action

SCOPE & OUTCOMES	
Type of training	<ol style="list-style-type: none"> 1. Introduction training to drones 2. Technical training of professionals 3. Sector-specific training of professionals 4. Train the trainer
Goal of the training	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 1. Understand the role and need for data at the Ondo State Ministry of Environment. 2. Understand critical success factors including institutional tools to sustainably support data framework for environmental and humanitarian disaster. 3. Understand the role of drones and geospatial data in humanitarian disaster management. 4. Gain exposure to practical drone flight and data processing in the context of flood disaster vulnerability assessment, intervention planning, and disaster impact assessment.
Confirmed outcome after	At the end of the training, the participants gained an

training	understanding of the role and need for data at the Ondo State Ministry of Environment. They also understood the critical success factors to sustainably support a data framework for environmental and humanitarian disaster, and understood the role of drones and geospatial data in humanitarian disaster management. Overall, the participants gained exposure to practical drone flight and data processing in the context of flood disaster vulnerability assessment, intervention planning, and disaster impact assessment.
Eventual next steps	<ul style="list-style-type: none"> ● Formulating and implementing Ondo State Government policy on data applications for environmental disasters. ● Working closely with selected personnel at the agency to provide hands-on training and mentorship. ● Implementing flood disaster vulnerability assessment using drones for flood disaster prone areas

PARTICIPANTS	
Profiles and number of participants	2 staff from government
Name of participants' organizations	Ondo State Environmental Protection Agency
Gender ratio	Male (100%)
Who paid for the training?	WeRobotics' TDIA Microgrant
Participant fee rate (if applicable)	Nil
Scholarships offered?	Nil

CONTENT	
Training components	<ul style="list-style-type: none"> ● Instructor-led classroom training ● Instructor-led drone flight training
Training resources used	<ul style="list-style-type: none"> ● DJI Drone simulator

	<ul style="list-style-type: none"> ● DJI Phantom 4 version 2 ● Training manuals
<p>Approaches and methods used</p>	<ul style="list-style-type: none"> ● We created a real-life scenario for flood disaster vulnerability assessment and tailored the drone training to drone data capture and processing for flood disaster vulnerability assessment. ● The training was hands-on, the participants had the opportunity to fly the drones themselves in areas that were affected by flood. ● Participants got to put the theoretical knowledge into practice by interpreting drone data to identify households and businesses that are vulnerable to flood.