

Teaching Seme City Students About Drones



Figure 1: Young participants at the Seme City training paying attention at the demonstration

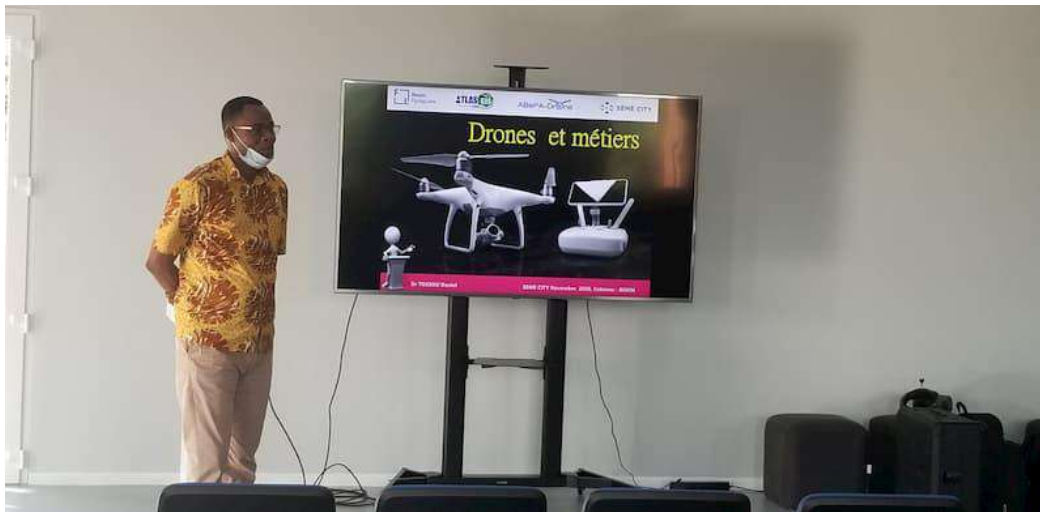


Figure 2: Dr. Tossou giving a presentation on the different types of drones and their applications at the Seme City training

OVERVIEW	
Flying Labs	Benin Flying Labs
Location	Cotonou, Benin
Date	20th November 2021
Length (number of days)	1-day
Sector program (optional)	YouthRobotics
Format	In-Person
SDGs	GOAL 4: Quality Education GOAL 5: Gender Equality

SCOPE & OUTCOMES	
Type of training	<ol style="list-style-type: none"> 1. Introduction training to drones 2. Youth/STEM training
Goal of the training	<ol style="list-style-type: none"> 1. Create drone awareness 2. Train and empower youth and the workforce of the future
Expected outcome for participants	Participants were expected to become aware of the different kinds of activities that can be done with drones. Understand and see different pathways of building a career in the drone industry.
Confirmed outcome after training	<p>Students were able to understand how a drone flew and label the different parts of a drone correctly. They were also able to identify and brainstorm different jobs and career opportunities in the industry from the introduction which was provided.</p> <p>After the training, the students had some projects which they carried out with their schools. They continued to explore drones in their respective schools (through applications, presentations, etc).</p>
Eventual next steps	Possible internship opportunities for the participants with Benin FL.

PARTICIPANTS	
Profiles and the number of participants	<ol style="list-style-type: none"> Members of other Flying Labs - 5 School children - 45
Name of participants' organizations	Seme City
Gender ratio	Female : Male 18 : 27
Who paid for the training?	Free training

CONTENT	
Training components	<p>The training was divided into two parts, theoretical and practical. The theoretical topics included:</p> <ul style="list-style-type: none"> ● An introduction to Benin Flying Labs ● The importance of Flying Labs for local development ● Drones as useful tools and how they operate ● The jobs and opportunities that robotics science can offer the younger generation. <p>The second session covered practical aspects of drone use, such as:</p> <ul style="list-style-type: none"> ● The anatomy of the drone and drone flight ● In which zones drones can be flown ● Why pilots should earn a pilot certificate ● How to purchase and maintain a drone.
Training resources used/ created	<ul style="list-style-type: none"> ● Hardware <ul style="list-style-type: none"> ○ DJI Phantom 4 ○ DJI Inspire 2 ○ DJI Mavic Mini ○ eBee ● Presentation slides ● Blog Post

Approaches and methods used

Training Delivery

- French was used to conduct the training so that participants could understand easily
- No technical jargon was used to ensure that the participants understood what was being relayed to them

Practicing Theoretical Knowledge

- To ensure what we had taught during the training session continued when the training ended, we ensured that the respective schools assisted students in further exploration through projects.
- Project themes included the use of drones in medical applications as well as agriculture improvement in Benin.