

## Training on the use of UAVs in agriculture, forestry and urban planning



Participants during the theoretical part of the training



Practical training in the field

OVERVIEW	
<b>Flying Labs</b>	Senegal Flying Labs
<b>Location</b>	Senegal
<b>Date</b>	May 18 - May 28, 2020
<b>Length (number of days)</b>	11 days
<b>Sector program</b>	DevRobotics
<b>Format</b>	In-Person
<b>SDGs</b>	<a href="#">GOAL 1: No Poverty</a> <a href="#">GOAL 2: Zero Hunger</a> <a href="#">GOAL 8: Decent Work and Economic Growth</a> <a href="#">GOAL 9: Industry, Innovation and Infrastructure</a> <a href="#">GOAL 11: Sustainable Cities and Communities</a> <a href="#">GOAL 15: Life on Land</a>

SCOPE & OUTCOMES	
<b>Type of training</b>	Sector-specific training of professionals ( for example: Drones for Disaster Relief)
<b>Goal of the training</b>	<ol style="list-style-type: none"> <li>1. Develop drone data acquisition skills</li> <li>2. Develop drone data analysis skills</li> <li>3. Develop data literacy/interaction skills</li> </ol>
<b>Expected outcome for participants</b>	<p>At the end of the training, participants were expected to acquire practical knowledge on:</p> <ul style="list-style-type: none"> <li>o How to fly safely and responsibly with different types of UAV platforms (fixed wings and multi-rotors)?</li> <li>o How to choose the best sensor and the best platform for your operation?</li> <li>o How to collect, manage and analyse data collected with drones to use in agriculture, forestry and urban planning?</li> <li>o How to design and implement UAV programmes in your field of work?</li> </ul>
<b>Confirmed outcome after training</b>	Axon Drone, one of the participants of the training, purchased their own drone after the training and preparing for a cargo drone project to work with Senegal Flying Labs.
<b>Eventual next steps</b>	Upcoming cargo drone project and Incubation project with Axon Drone

PARTICIPANTS	
<b>Profiles and number of participants</b>	4 Professionals (individual consultants, researchers, experts, teachers, etc.)
<b>Gender ratio</b>	3 men : 1 woman
<b>Who paid for the training?</b>	The participants
<b>Participant fee rate (if applicable)</b>	USD 450
<b>Scholarships offered?</b>	No

CONTENT	
<b>Training components</b>	<ul style="list-style-type: none"> <li>● Theoretical component - 3 days</li> <li>● Practical component - 7 days</li> </ul>
<b>Training resources used</b>	<ul style="list-style-type: none"> <li>● Software: ArGIS Pro, GIS capture, GIS mapping</li> <li>● Hardware: Phantom, Mavic</li> </ul>
<b>Approaches and methods used</b>	<ul style="list-style-type: none"> <li>● It was hands-on training. All participants were involved in practical training. They were brought to the field (in the university) to pilot drones and collect data to do mapping of the ground.</li> <li>● The practical training took place both in groups and individually.</li> </ul>