

## Engaging Students in Drone Technology at the New Horizon Tech Fest



Dominican Republic Flying Labs engaging students



Dominican Republic Flying Labs' exhibition stand

OVERVIEW	
<b>Flying Labs</b>	Dominican Republic (DR) Flying Labs
<b>Location</b>	Santo Domingo, Dominican Republic
<b>Date</b>	April 12, 2024
<b>Length (number of days)</b>	1 day
<b>Sector program (optional)</b>	<a href="#">YouthRobotics</a>
<b>Format</b>	In-Person
<b>Co-organizer if applicable</b>	<ul style="list-style-type: none"> <li>● Centro de Innovación de Drones</li> <li>● Parque Cibernético</li> </ul>

<b>SDGs</b>	<a href="#">GOAL 4: Quality Education</a> <a href="#">GOAL 9: Industry, Innovation and Infrastructure</a> <a href="#">GOAL 17: Partnerships to achieve the Goal</a>
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SCOPE & OUTCOMES	
<b>Type of training</b>	Youth/STEM training
<b>Goal of the training</b>	To train and empower youth and the workforce of the future.
<b>Expected outcome for participants</b>	The students expected to learn about drone operations, safety, regulations, uses and the future potential of drone technology.
<b>Confirmed outcome after training</b>	The students had an opportunity to explore the world of drones and see different drone models. They also took part in the demonstration of drone operation, which provided hands-on experience and increased their interest to study STEM careers in the future.
<b>Eventual next steps</b>	<ul style="list-style-type: none"> <li>● Continue supporting the schools in engaging the young students in drone technology and STEM.</li> <li>● Schedule new workshops and outreach activities.</li> </ul>

PARTICIPANTS	
<b>Profiles and number of participants</b>	80 school children (14-18 years old)
<b>Name of participants' organizations</b>	<ul style="list-style-type: none"> <li>● Colegio Bilingue New Horizons</li> <li>● New Horizons Bilingual School</li> </ul>
<b>Gender ratio</b>	50% Male : 50% Female
<b>Who paid for the training?</b>	This was free training for the students.
<b>Participant fee rate (if applicable)</b>	Not applicable.
<b>Scholarships offered?</b>	No.

<b>CONTENT</b>	
<b>Training components</b>	<p>The training covered the following components:</p> <ul style="list-style-type: none"> <li>● Introduction to the drone industry.</li> <li>● Drone operation, safety, regulations and uses.</li> <li>● Future potential use of drone technology.</li> <li>● Drone flight demonstration.</li> </ul>
<b>Training resources used</b>	<ul style="list-style-type: none"> <li>● Powerpoint Presentation</li> <li>● Drones demonstration and exhibition               <ul style="list-style-type: none"> <li>○ DJI M300 with H20T Camera</li> <li>○ DJI Inspire 2</li> <li>○ DJI Mavic 2 PRO.</li> </ul> </li> <li>● Thermal mapping with DJI Matrice 300 and H20T camera.</li> </ul>
<b>Approaches and methods used</b>	<p>To adapt the training to the needs of the students, we analyzed the event objectives and focused the contents according to the students' age to develop an engaging youth content.</p> <p>The training had hands-on components, integrating both theoretical and practical experiences for the student participants. The students had the opportunity to apply theoretical knowledge to practical scenarios, fostering a strong connection between learning and real-world drone operation.</p>