

UAS Coordination in Humanitarian Action



A team photo with training participants



A team photo with some participants



Participants taking part in simulation exercise

OVERVIEW	
Flying Labs	Nepal Flying Labs
Location	Kathmandu, Nepal
Date	November 2019
Length (number of days)	5 Days
Sector program (optional)	AidRobotics

Format	In-Person Training
Co-organizer if applicable	UN World Food Programme (WFP)
SDGs	GOAL 8: Decent Work and Economic Growth GOAL 9: Industry, Innovation and Infrastructure GOAL 17: Partnerships to achieve the Goal

SCOPE & OUTCOMES	
Type of training	<ol style="list-style-type: none"> 1. Introduction training to drones. 2. Technical training of professionals (drone data analysis). 3. Sector-specific training of professionals (for example: drones for disaster relief). 4. Train the trainer. 5. Disaster simulation exercise.
Goal of the training	<ol style="list-style-type: none"> 1. Create drone awareness. 2. Develop drone data acquisition and analysis skills. 3. Develop Unmanned Aircraft System (UAS) coordination skills among participants. 4. Policy discussions and recommendations.
Expected outcome for participants	<ul style="list-style-type: none"> ● Learn and understand recent developments and best practices in the field of drones. ● Learn to fly drones and most particularly, to process drone datasets. ● Participate in a field-based exercise and learn how to effectively monitor, conduct drone flights and use output datasets.
Confirmed outcome after training	<ul style="list-style-type: none"> ● 40 participants were sensitized and trained on drone applications and coordination. ● Policy recommendation because the outcome clearly highlighted the gaps that need to be addressed based on stakeholders' concerns. ● Creation of a drone task force bringing together different organizations from various ministries to coordinate on drone use and impact.
Eventual next steps	<ul style="list-style-type: none"> ● Civil Aviation Authority (CAA) Nepal to digitize the

	<p>existing drone registration system by introducing a new web-portal.</p> <ul style="list-style-type: none"> ● CAA Nepal to come up with a new set of regulations based on Model UAS regulations.
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PARTICIPANTS	
Profiles and number of participants	<ul style="list-style-type: none"> ● 10 staff from organizations ● 21 staff from government ● 5 professionals ● 1 members of other Flying Labs ● 3 university students
Name of participants' organizations	<ul style="list-style-type: none"> ● Ministry of Home Affairs ● Ministry of Communication, Information and Technology ● CAA Nepal ● Department of Survey ● Land Management Training Center ● Nepal Police ● Nepal Army ● Nepal Armed Police Force ● The International Centre for Integrated Mountain Development (ICIMOD) ● Nepal Red Cross
Gender ratio	1 Female : 3 Males
Who paid for the training?	WFP Nepal
Participant fee rate (if applicable)	The training was free for all participants.
Scholarships offered?	The training was free for all participants.

CONTENT	
Training components	<ul style="list-style-type: none"> ● Introduction to drones. ● Types of drones. ● Introduction to photogrammetry.

	<ul style="list-style-type: none"> ● Introduction to different flight planning and processing software.
<p>Training resources used</p>	<ul style="list-style-type: none"> ● Drones ● Tablets ● Android smartphones ● Walkie-talkie ● PIX4Dreact
<p>Approaches and methods used</p>	<ul style="list-style-type: none"> ● Thematic experts were hired to cover various aspects of the training curriculum, such as introduction to drones and drone photogrammetry, processing, and analysis of drone data. ● The training was both theoretical and practical. The theoretical session was followed by a practical hands-on session where the participants got a chance to perform the processing as per the theoretical session. The practical exercise included hands-on drone flight, data analysis and disaster simulation training. ● The participants were grouped during field flight training and disaster simulation exercise, but also individually took part in software processing.