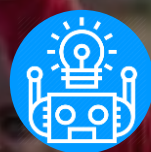
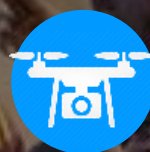




AFRICAN DRONE & DATA ACADEMY

training pilots for safe airspace



TEACHING GEO-SPATIAL ANALYSIS and DRONES for 21st CENTURY SKILLS

ICAO: 15/11/2022



Dr. Michael Scheibenreif | mscheibenreif@unicef.org

ADDA – building skills locally



**AFRICAN
DRONE & DATA
ACADEMY**

UNICEF understanding of innovation goes beyond the notion of merely piloting and imposing technology advances but to build skills locally

**ADDA opened 2020 in Malawi
Soon in Niger, Ethiopia and beyond ...**



Blended learning approach to train future service providers & public officials in:

- building, piloting and maintaining drones;
- using drones for transport and image acquisition
- using Artificial Intelligence techniques to harvest data out of the collected geo-referenced imagery



Achievements so far

Creation of **training curricula**:

“Certificate in Drone and Data Technology” CDDT (11w hybrid)

The “gold standard” as endorsed by CANSO

“Compact” Course (2w hybrid)

Currently being developed

Massive Open Online Courses (MOOC)

Remote Pilot Aircraft Technique (RPAT)

(1 w)

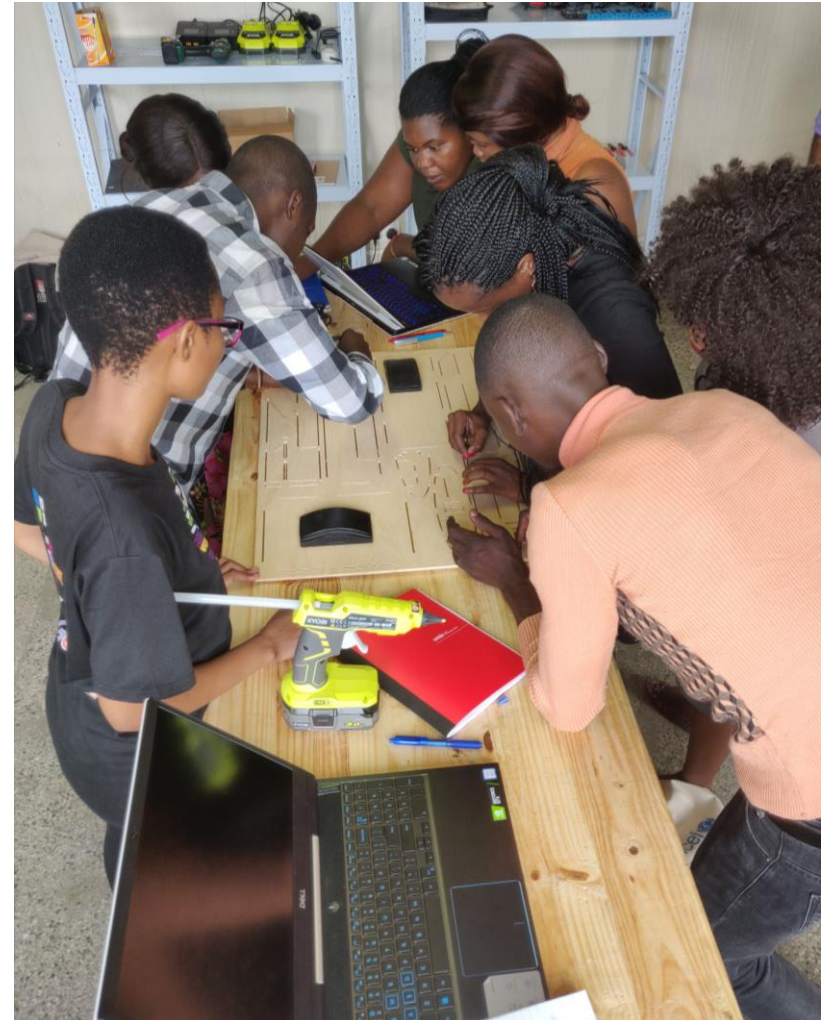
Data Visualization and Cartography (DVAC)

(1 w)



ADDA graduates since establishment:

- 417 CDDTs issued (61% female graduates)
- over 300 MOOC graduates
- from 33 African countries



Impressions:

Students study aeronautics and construct 3 different training aircraft:

- a glider
- a multi-rotor drone and
- a fixed wing drone

Students study civil aviation regulation, safety management system, integration of drones into supply chain, collection and analysis of aerial imagery for precision agriculture, disaster response, etc



The students: Annieh from Kenya



<https://twitter.com/MalawiUNICEF/status/1217092514877968389>

Every campus is an ATO and more ...

Tier 1 - ADDA to obtain certification as e.g. an **Approved Training Organisation (ATO)** to enable it to issue drone pilot licenses

ADDA is also training ATCOs, regulators, and other public officials

Tier 2 - ADDA as into a **technical college** for vocational trainings in accordance with TVET policy

Tier 3 – ADDA training as an **Undergrad/Degree programme**

