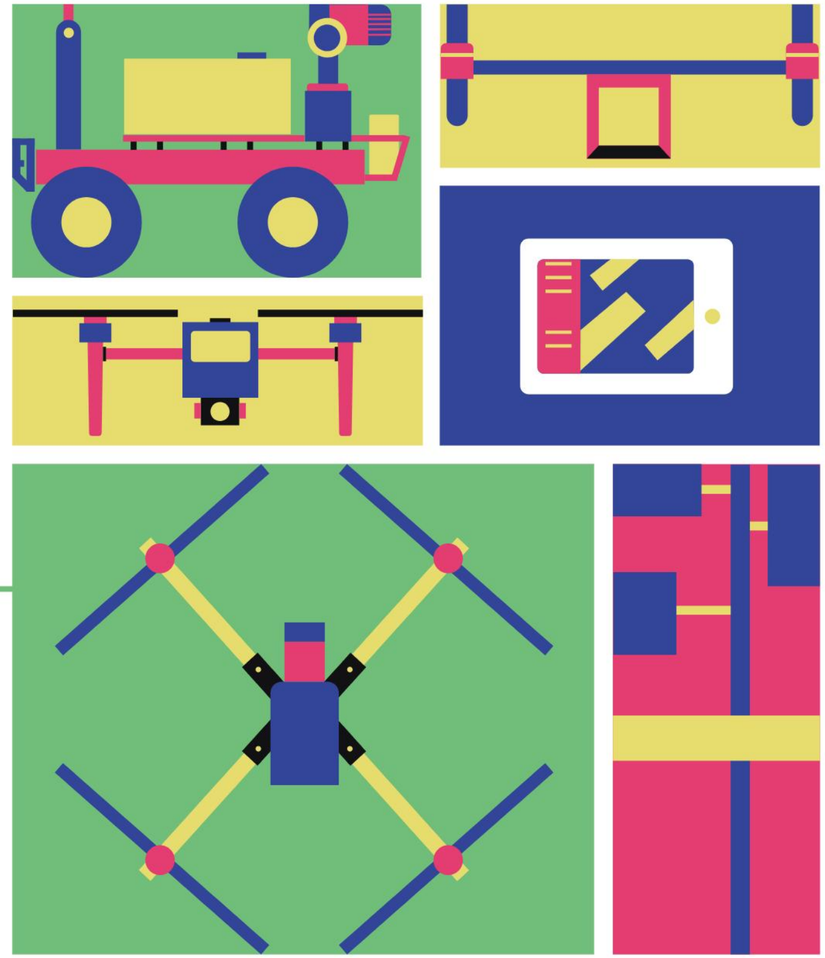
XAG ACADEMY
GLOBAL TRAINING
PROGRAM

XAG

Safe Use of Agricultural Drone



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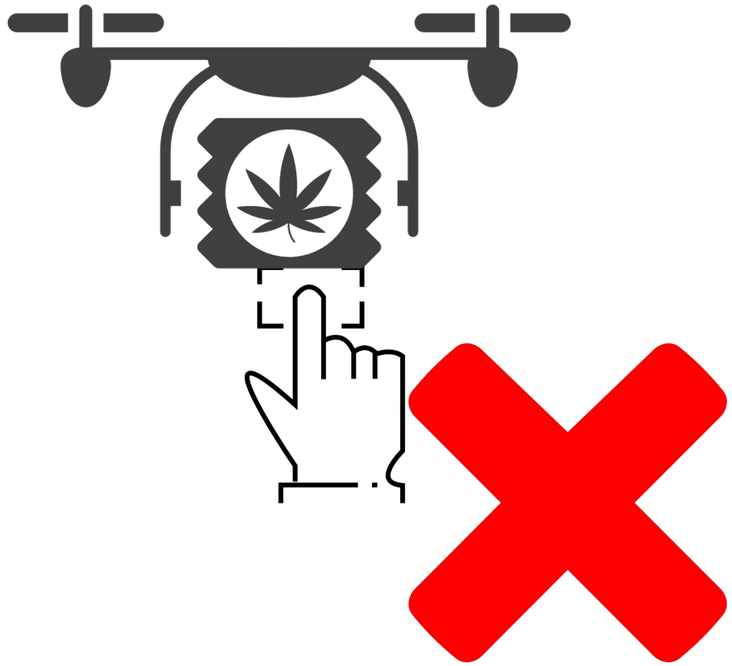
01 | Possible Injuries Caused by Improper Use of Agricultural Drone

Possible consequences caused by improper use of agricultural drone

Injury to whales caused by aircraft carrier propellers

Drone stuck on a power line due to improper operation

Prohibited acts in the use of an agricultural drone



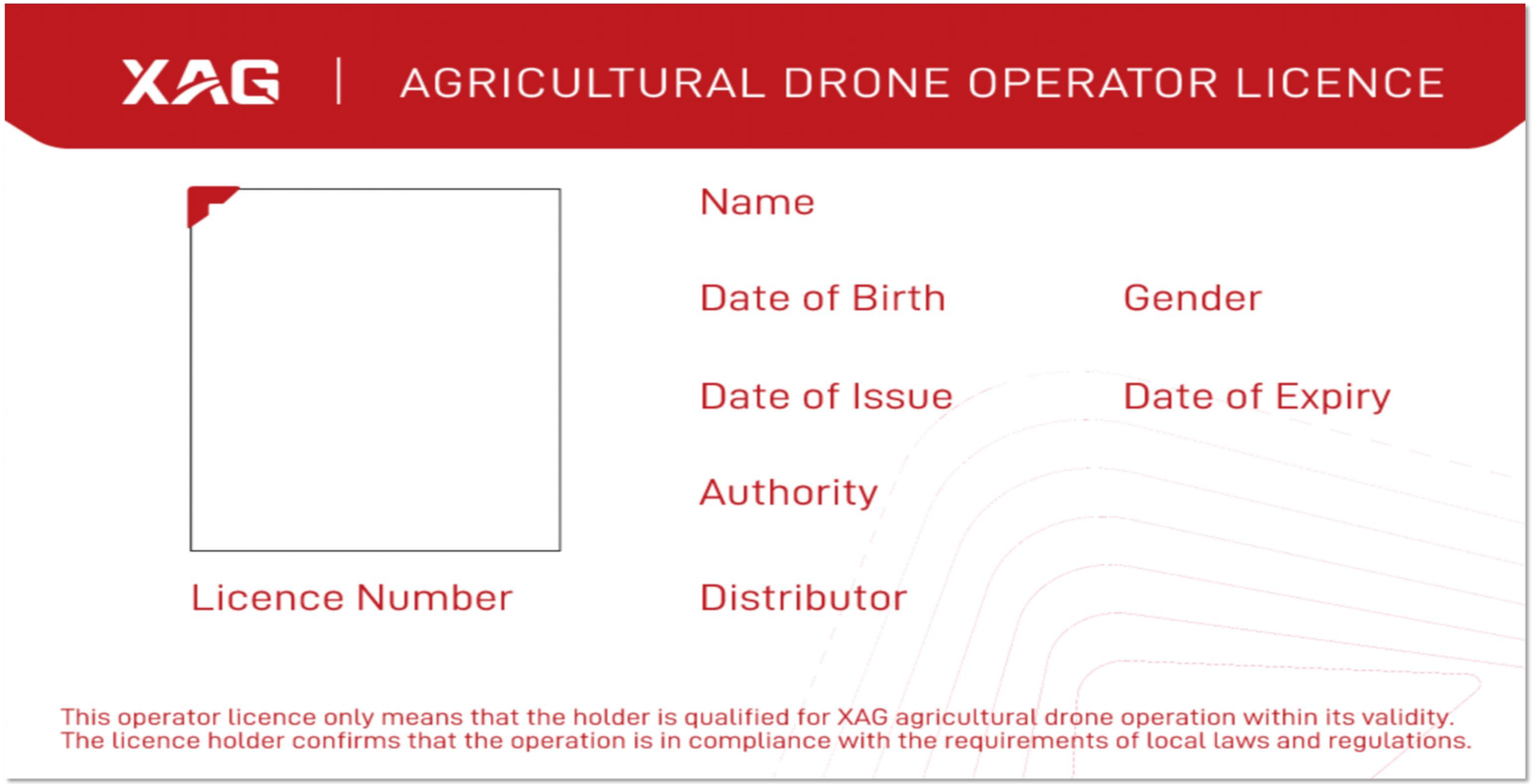
02 | Safe Use Requirements of Agricultural Drone

Safety requirements

- Safety requirements for operators
- Safety requirements for operation environment
- Safety requirements during operation
- Safety requirements after operation

Safety requirements to be followed by operators

Fly drones with license



An operator is the first person responsible for safety.

Case:

An operator operated a drone alone without obtaining a license and had the drone crashed into a pole and fell due to misoperation without noticing the direction of flight, causing property damage and bearing legal responsibility.

Operators should be highly focused when operating a drone

Operators without obtaining a license are forbidden to fly a drone alone

Case:

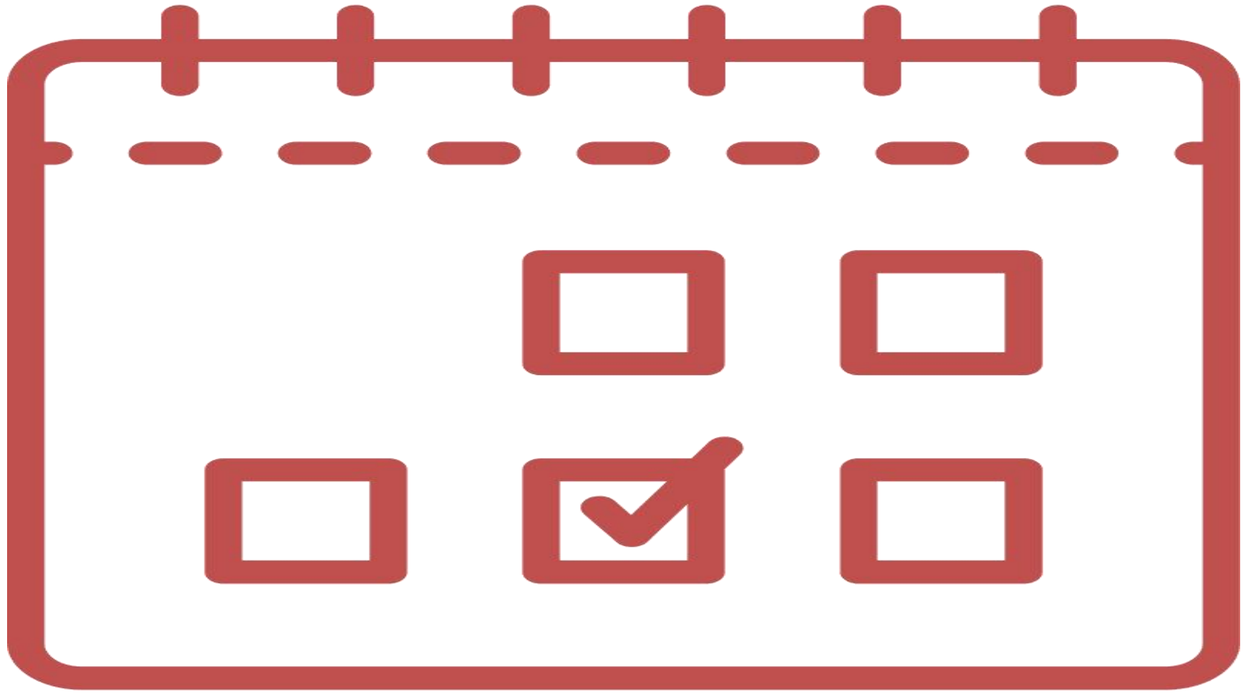
A user converted and enlarged the granule container without authorization and filled the container with fertilizer that exceeded the rated payload of the device. During operation, the change in airframe structure affected the dynamic balance, which finally led to the device failure and fall.

Unauthorized conversion of the device will alter the original airframe structure, making it unable to guarantee flight safety.

Do not convert the device on your own

Wear PPE

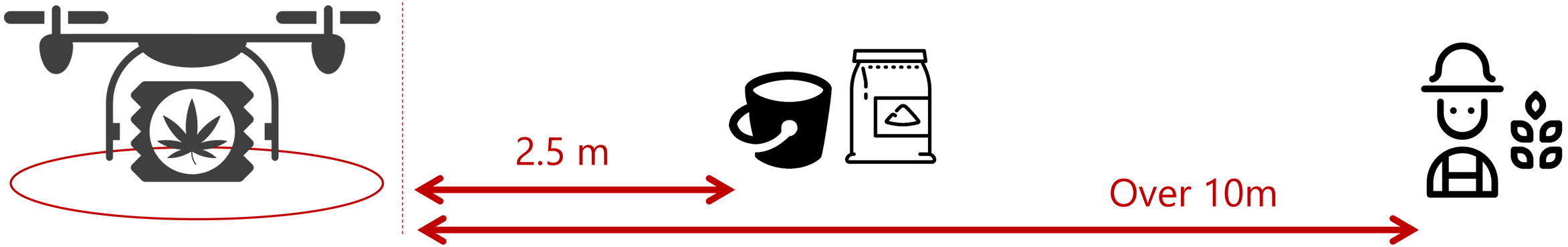
Make a proper operation plan in advance



Keep a safe distance

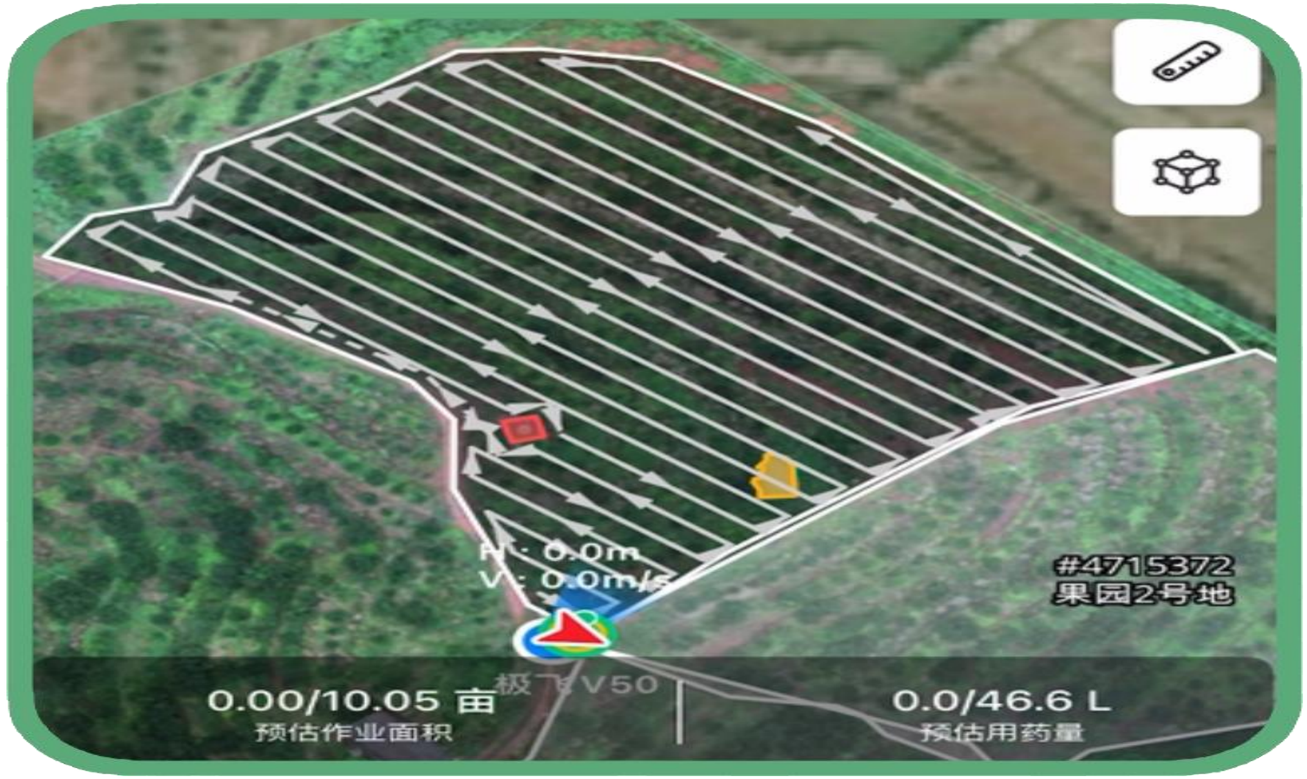
- ✓ There should be no sundries within a radius of 2.5m from the takeoff/landing site.
- ✓ There should be no people or animals within a radius of 10m from the takeoff/landing site.
- ✓ A safe distance of more than 10m should be kept from the device in flight.

* The safe distance should be measured from the tip of the unfolded drone's blade to the object/person.



Safety requirements for operation zone

Safety requirements for operation zone



Case:

A drone collided with a vehicle passing by on its return to land as the takeoff/landing site was located on a road in a village and no warning signs were put up, which caused personal injury and damage to device, resulting in property losses.

Put up warning signs around the takeoff/landing site to ensure people are at least 10m away from it

Do not fly a drone in areas with high population density and high vehicle

Pre-flight check includes:

- ✓ Check of operation environment
- ✓ Device appearance inspection
- ✓ Device system inspection

* Relevant details will be given in the course “Pre-flight Check”.

Always keep an eye on the operation condition

- ✓ The operator should always keep an eye on the drone to facilitate emergency operation in case of any abnormalities.
- ✓ Before taking off or landing, the operator should loudly warn surrounding personnel to prevent them from approaching the takeoff/landing area.

Case:

A user did not check its device before operation, failing to find the loose screw in the device. Finally, under high-intensity operation, the arm screw fell off due to vibration, causing the device to lose balance during flight and fall.

Always keep focused on the change of drone status to identify hidden dangers in time

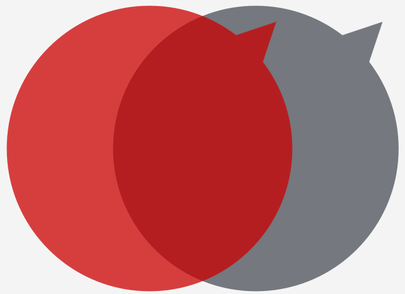
Always check device status before operation.

Safety requirements after operation

- ✓ Timely clean and regularly maintain the device
- ✓ Transport the device in a standardized manner to reduce potential safety hazards
- ✓ Properly keep the device and peripheral products
- ✓ Check the device and field information at regular intervals
- ✓ Keep learning new features and operation knowledge

* Relevant details will be given in the course “Maintenance”.

Summary of the Course



In today’ s course, we’ ve introduced the safety precautions for use of agricultural drones from different aspects including their destructive power, laws and regulations, and safe use requirements. Only by enhancing our safety awareness can we guarantee smooth fulfillment of flight missions.

THE END