# Using Drones and Covering Your Legal Bases

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### Disclaimer

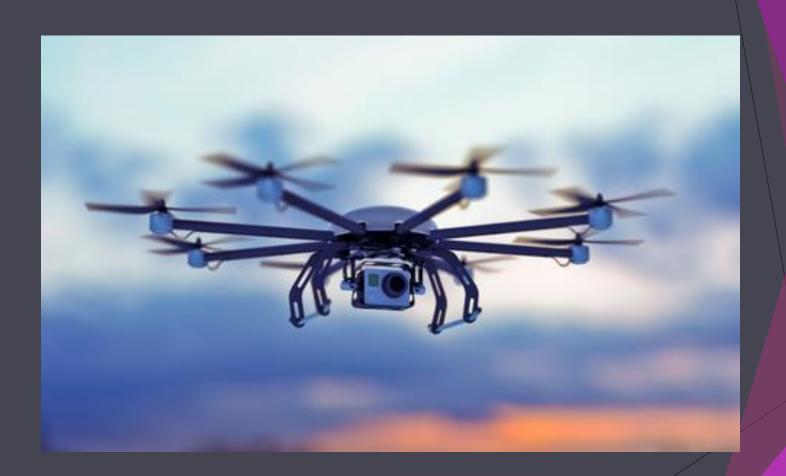
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### Overview

- How technology is changing and the importance of Drones (UAVs)
- ▶ The law surrounding the use of UAVs
- Keeping up-to-date with changes, properly referencing and updating your terms and conditions

## UAV's

What is a UAV?



## How technology is changing and the importance of Drones (UAVs)

- Technology is rapidly changing...
  - ► Historical development of UAVs



## **UAVs**



### AEROSTAT

200 ft. long 65 ft. across the hull

Aerostats are tethered fabric balloons filled with helium that float 15,000 feet in the air from a single cable. They can lift 1,200 pounds, including a camera that pans 360 degrees for constant real-time surveillance. They are used extensively on the Afghanistan-Pakistan border and above Kabul, where one of them is anchored at Bala Hissar, an ancient fortress. Their virtue is that they can stay aloft for months at a time, carrying a heavy load of intelligence equipment. Their shortcoming is that they cannot be moved rapidly for new assignments.



44 ft. long 116 ft. wingspan

GLOBAL HAWK Sometimes described as a "flying albino whale," the Global Hawk is the largest flying drone. Although linked to humans on the ground, Global Hawks fly mostly on their own, guided by GPS coordinates they download from satellites. They were deployed over Afghanistan in 2001, providing commanders with battlefield images. The Global Hawk flies higher than the Predator and can stay up longer — for almost two days.



### X-47B

38 ft. long 62 ft. wingspan

The Navy's prototype combat drone, and the first combat drone able to take off from an aircraft carrier and land on it. Its first test flight (29 minutes) was on Feb. 7, 2011.



### REAPER

36 ft. long 66 ft. wingspan

The largest armed drone. Called a "hunterkiller" aircraft, the Reaper can detect humans and can fire Hellfire air-to-surface missiles. It will soon replace the better-known Predator.



### PREDATOR

27 ft. long 55 ft. wingspan The Predator is the Cessna-size workhorse that has dominated remotely piloted flight since the Sept. 11, 2001, attacks. The Pentagon has 169 Predators in its inventory.









## Why are drones becoming important?

- Military uses aside (as well as spying on your neighbours watering their garden whilst a water ban is in place....)
- Save time
- ► A new safety element for workers?
- ► Save lives???

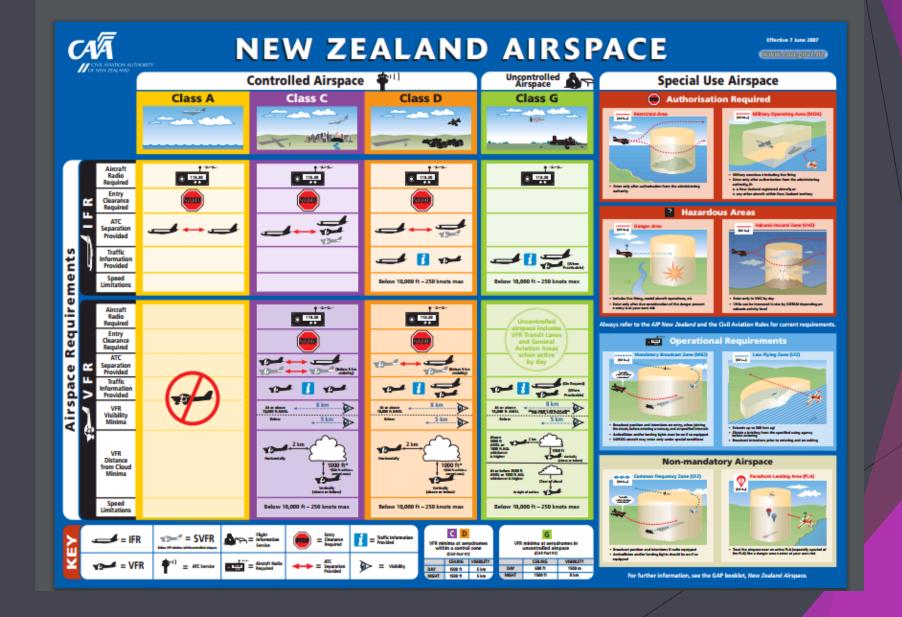
## Survey

- ▶ Who is using a UAV?
- Part 101 or 102 or both?
- Who is contemplating the use of UAVs?
- ► Terms of engagement or terms and conditions pertaining to UAV use?

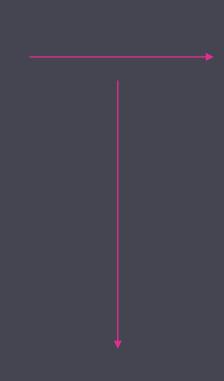
## US perceptions of UAVs and the use of Airspace



## Airspace



## Domestic law - vertical International law - horizontal



## The law surrounding the use of UAVs

- **ICAO**
- ► Civil Aviation Authority Regulations
  - ► Part 101 requirements
  - ► Part 102 requirements

## Ambiguities

- Demarcation air space and outer space????
- Line of sight? Long sighted or short sighted? Google maps calculation by foot?
- ▶ Different types of drones: list available on CAA but new and improved UAVs are frequenting the market constantly

# Keeping up-to-date with changes and properly referencing / updating your terms and conditions

- ▶ The standard terms and conditions will not be enough
  - ▶ The importance of clear terms and conditions:
    - ▶ Limit liability
    - ► Ensures compliance with the legislation
    - ▶ Pilot-in-command
    - **►** Exclusivity
    - ▶ Other steams of income IP?
- ► The best way for companies to update their terms and conditions is to......

## ASK ME TO DO IT!!!



Let me write your new UAV Terms and Conditions and Terms of Engagement!!

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