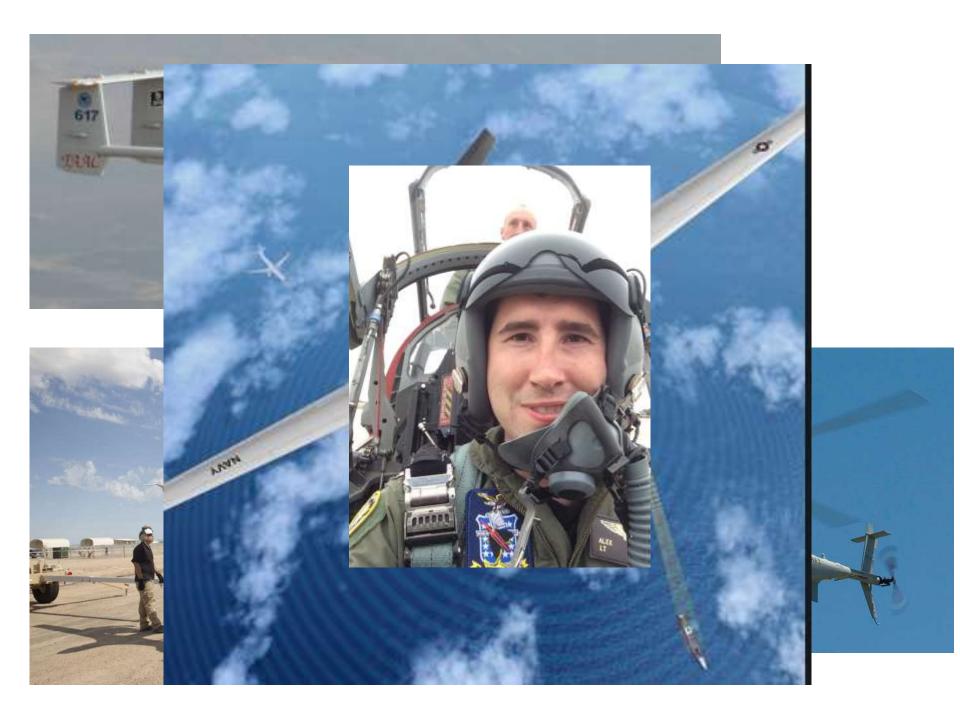
UAS Operations for Conservation Groups







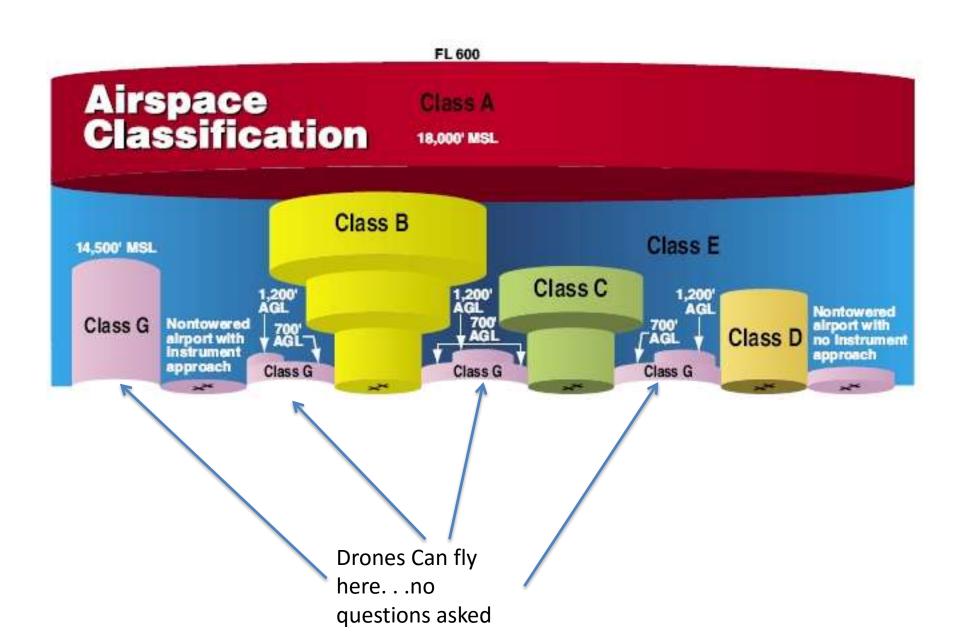
What you need

- sUAS Remote Pilot certificate
- A qualifying UAS
 - FAA Registered if heaver than 0.55 lbs.
 - www.registermyuas.faa.gov
 - **-** \$5
- Class G airspace







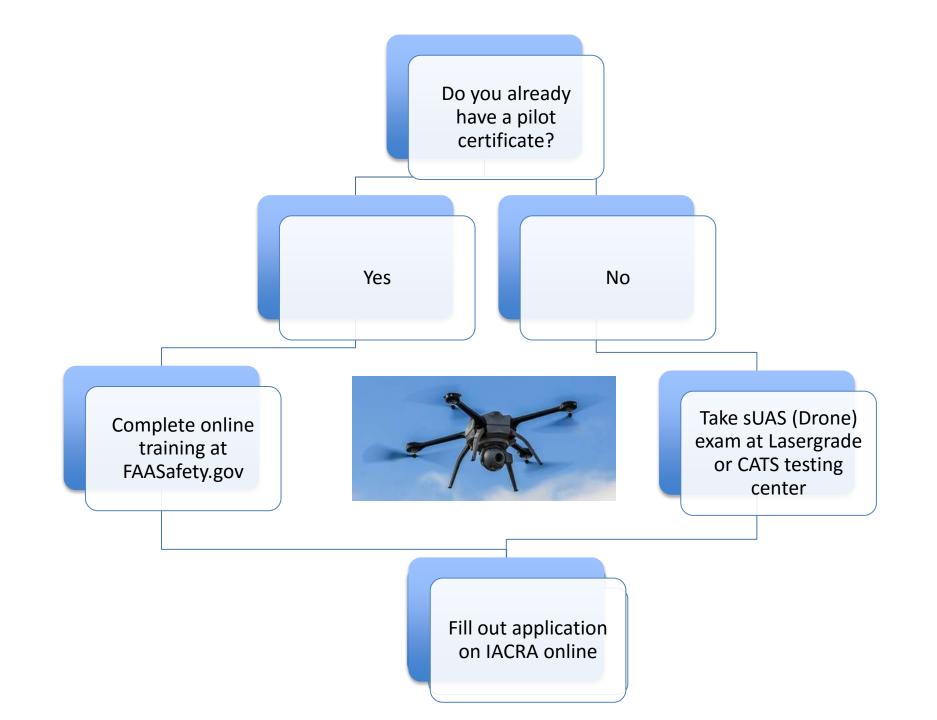


Regulatory Requirements (Commercial Use)

- FAA CFR Part 107
 - Max weight: 55 lbs.
 - Max altitude: 400 feet AGL
 - With exceptions
 - Visual Line of Sight operations only
 - 1 aircraft per operator
 - Controlled airspace requires prior coordination

Pilot Certification

- At least 16 years old
- English language proficiency
- No known physical or mental deficiency that would jeopardize safety



Recommended

- Sectional Aeronautical Chart
- B4UFly
- Observer





Section 333

- Exceptions and exemptions
 - Altitude
 - Airspace
 - Population overflight
 - Multi-UAS operations
- FAA recommends 90 day prior notice
 - Can request long-duration exemption

Vehicle Borne Operations

- No operations from a moving vehicle unless over a sparsely populated area
- UAS operator may NOT be vessel operator, if vessel is moving
- May NOT fly under cover of artificial structure
- May fly above 400 ft AGL as long as within 400

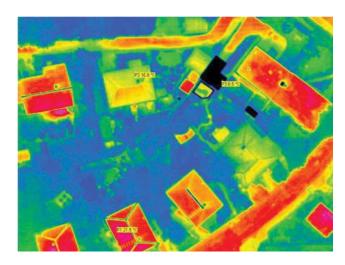
feet of a fixed structure

 Cannot launch from another aircraft



Privacy Issues

- State by state patchwork of laws
- Safest course of action:
 - Obtain permission
 - Release forms
 - Crop images



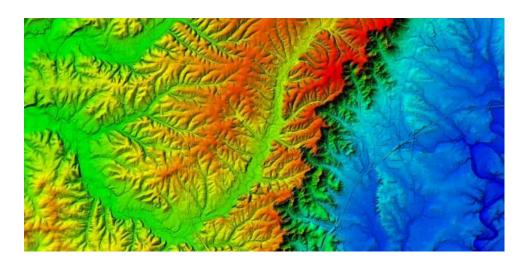


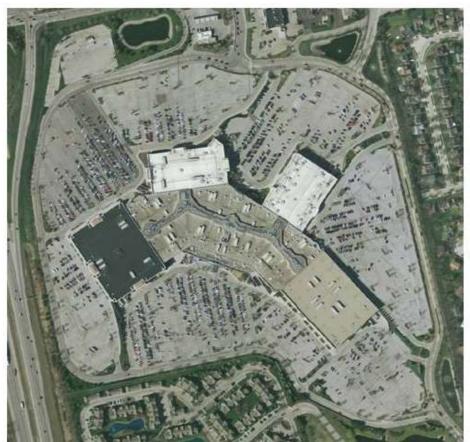
Sensor Packages

- Optical
 - Still
 - Video
- Infrared
- LIDAR
- Thermometer
- Water samplers
- Power and control
- Weight













\$13.99 from Amazon.com



\$23.99 from Target

Videography

- Recommend dedicated camera operator
- Limited only by money and desire
 - Pinhole to GoPro to Red Weapon 8k







Basic UAS Operation



Questions?

