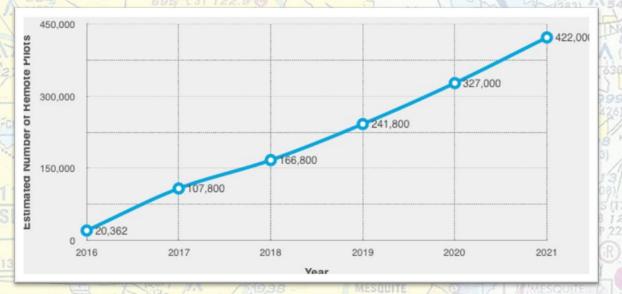


## Fast Growing Field

- On Aug. 29, 2016 commercial drone pilots were required to have a remote pilot certificate.
- In the first year the FAA issued 60,000 certificates.

http://www.aviationtoday.com/2017/09/07/us-now-60000-part-107-drone-pilots/





# Who will pilot the UAS?

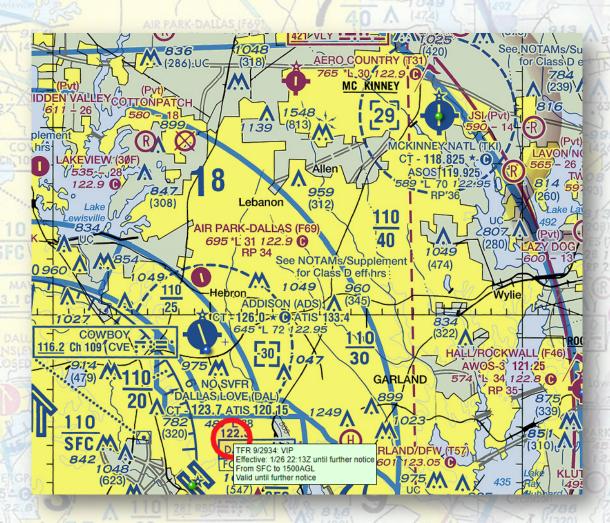
- New pilots
  - Must pass the airmen knowledge test.
  - Register with the FAA IACRA (Integrated Airman Certification and Rating Application) to get license.
- Pilots Certificate holders
  - Can either pass the airmen knowledge test or complete FAA Safety Team UAS training course.
  - Meet with FAA approved instructor or examinor to submit paperwork.





### What do you need to fly?

- Check Aviation Charts and FAA for temporary flight restrictions.
- Weather Conditions
- Notify nearby airports or heliports of flight.
- Pre-Flight check list
- Flight Log
- Survey the site before you fly.



#### Useful Items and Resources

- High Visibility Vest
- Apps:
  - Drone Forecast, B4U Fly
- Websites:
  - FAA.gov
  - FAA Open data <a href="http://uas-faa.opendata.arcgis.com/">http://uas-faa.opendata.arcgis.com/</a>
  - https://droneweather.ch/
  - Skyvector.com

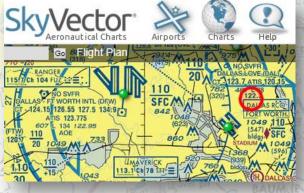






KTKI 241953Z AUTO 29006KT 10SM CLR 28/17 A2985 RMK AO2 SLP104 T02830167





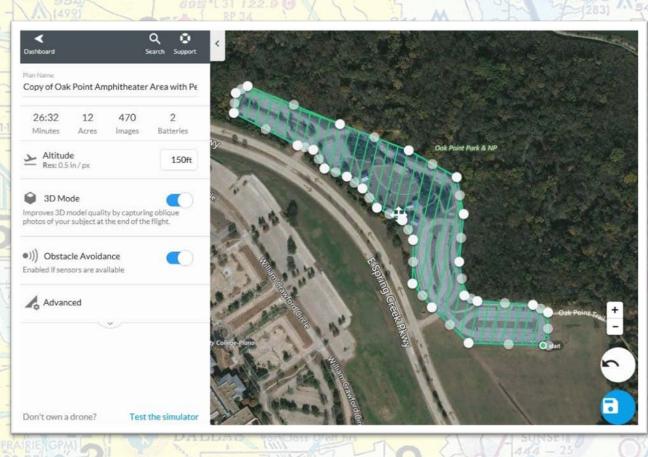
### Oak Point Park

- Flight covered 12 acres
- Flown with a DJI Phantom
  4 Pro with a 20MP
  camera
- 3 separate flight areas
- Collected 1,238 images over 4 hour





- Used Drone Deploy to design the flight path
- Flew at 150 ft.
- Enabled 3D mode to fly perimeter and take oblique images
- 75% sidelap and frontlap



### Processing with Drone2Map

- Used workstation with 6 core processor, 32 GB of RAM and Quadro video card.
- 2D data can be generated in a few hours
- 3D data will take several hours or even overnight depending level of detail

