

# AARON SYKES

## Current:

Flight Operations Project Manager GrandSKY

## Previous:

Assistant Director, NCAT
Owner, Solutions 101 LLC
Founder, MAVMeetup





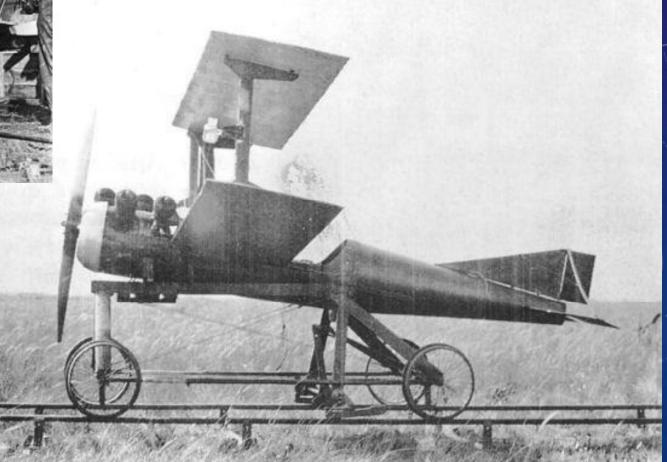
- Located at Grand Forks Air Force Base
- 217 Acres, with Runway Access
- BVLOS Operations
- Current Operations and Tenants
  - Northrop Grumman
  - General Atomics
  - NOAA Weather Drone CRADA
  - Project ULTRA





# FIRST DRONES

1918 KETTERING BUG



## UNCREWED SYSTEMS

### **Unique Opportunity**

- Innovative
- Iterative
- Limited Human Risk

#### **Ultimate Value**

- Mobile Data Collection Platforms
- Flying Computers

## CURRENT OPERATIONAL FRAMEWORK

Federal Aviation Regulation Part 107

- Under 400' AGL
- No operations over people, infrastructure
- No operations in vicinity of airports (without prior coordination)
- Within Visual Line of Sight
- Under 55 lbs GTOW
- "Don't be THAT guy"

Waivers are exception, not the rule

## THE PLATFORMS

#### Airframe

- Multi-rotor
- VTOL
- Fixed Wing

#### Propulsion

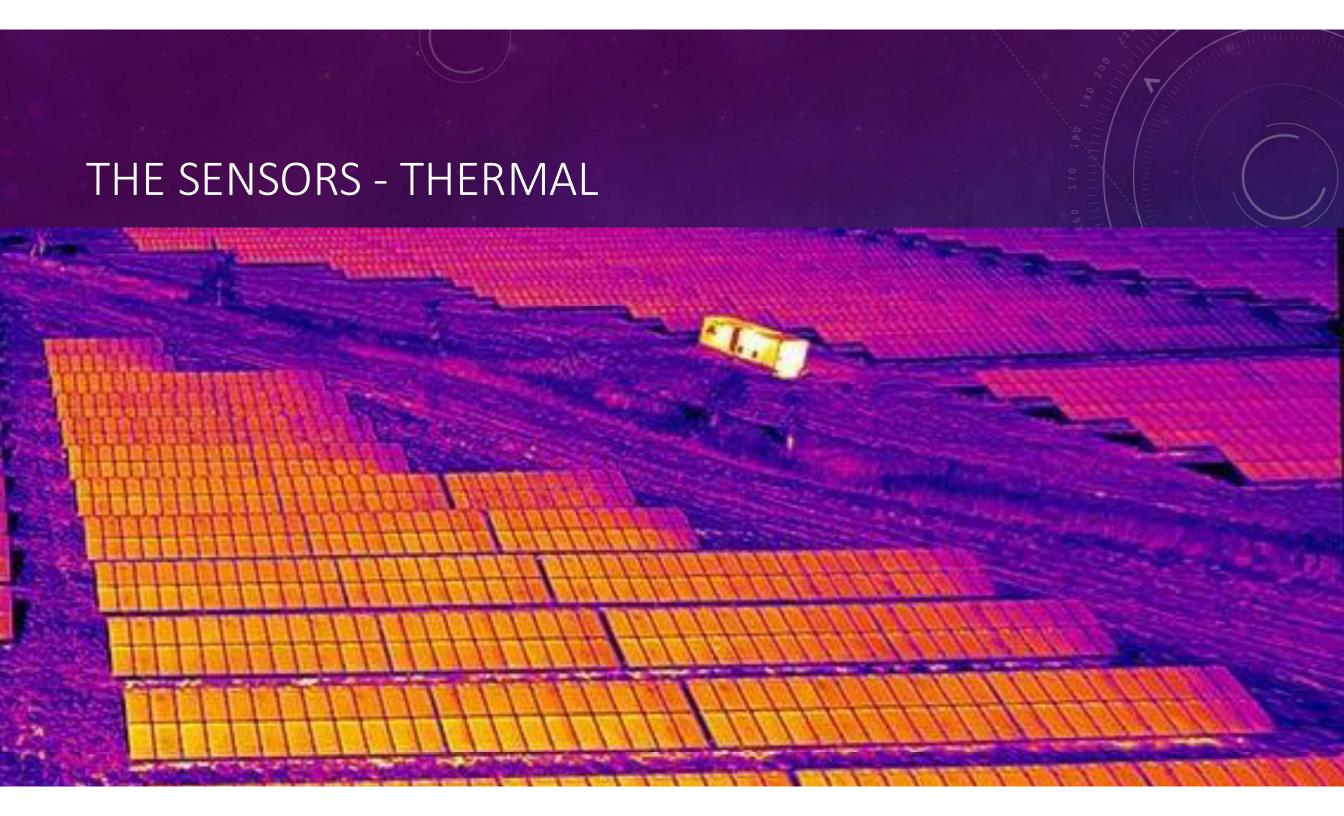
- Electric
- Hybrid

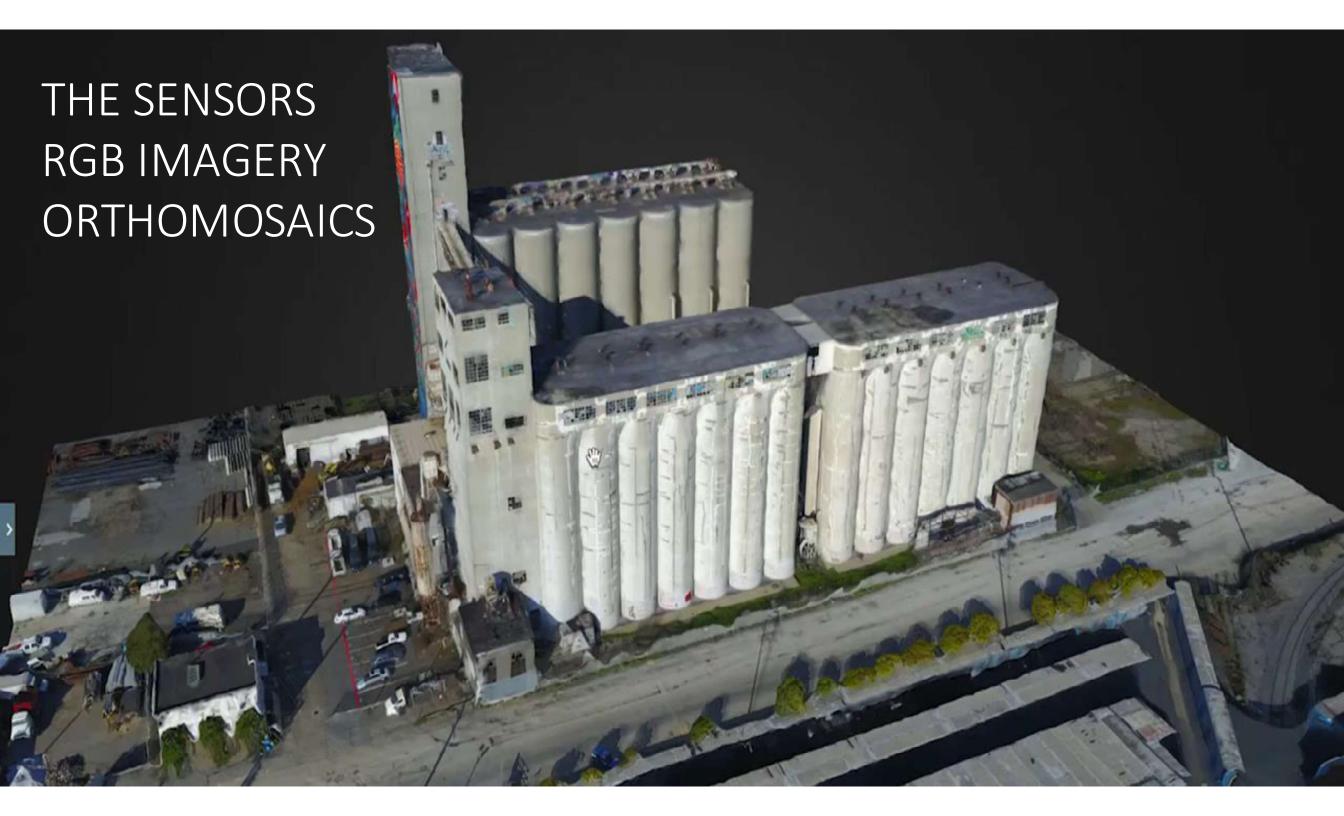
#### Manufacturers

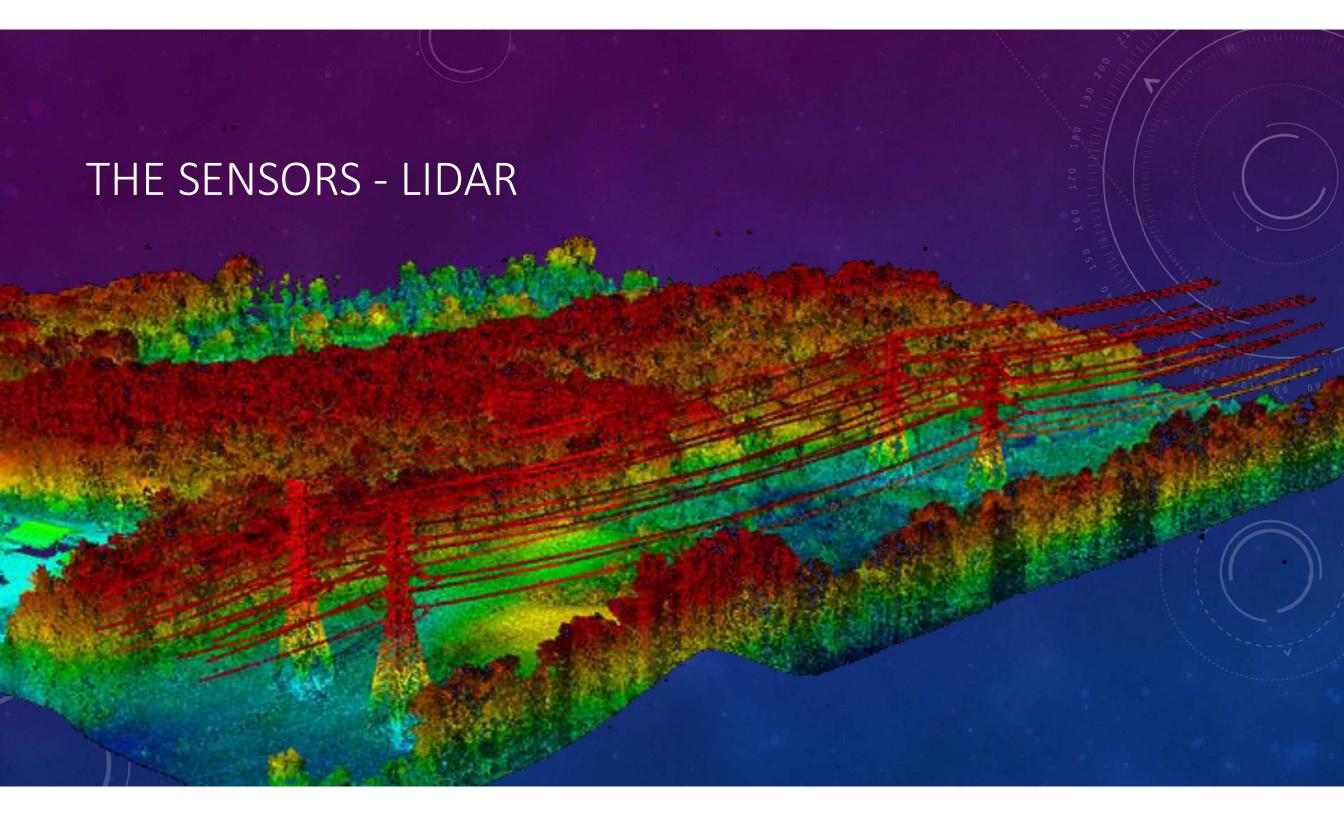
- DJI
- Everyone Else
  - Skydio

## The Pending Cliff – 23 Dec 2025

- DJI Ban
- NDAA/Blue List Compliance







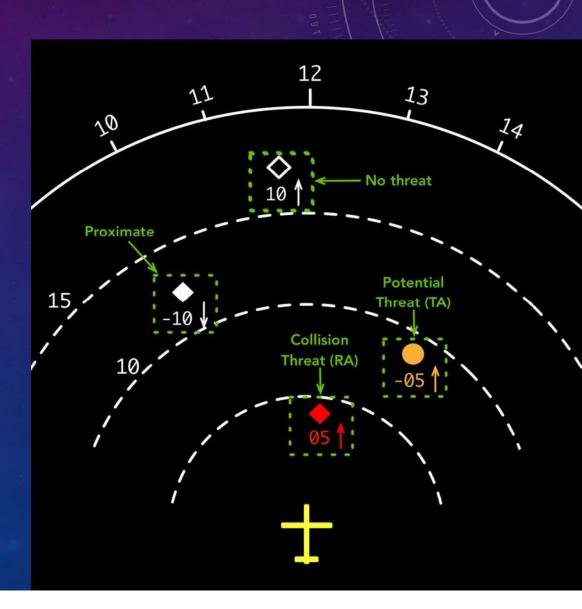
## THE FUTURE: OPERATIONAL FRAMEWORK

#### Federal Aviation Regulation Part 108 and Part 146

- Normalize BVLOS Flights
- Aircraft upto 1,320 lbs GTOW
- Electronic Conspicuity
- Airworthiness Acceptance

#### **New Opportunities**

- Delivery Drones
- Crop Spraying
- Drone-In-A-Box
  - Death of the Drone Pilot



## THE FUTURE: TECHNOLOGY

#### Aircraft Design

- Airworthiness Acceptance
- Composites and other advanced materials
- Battery and Propulsion

#### Digital Revolution

- C2 Links
  - Starlink
- Machine Learning
  - Condition Recognition
  - In-flight mission evolution
- Swarm technology



