COLONY

Nano drones for scalable 3D data collection

COLONY
Next-gen Drone Data Collection

Drone Analytics Industry in 2024

Key Industries

- Agriculture
- Construction
- Warehousing
- Oil & Gas

Market Size

$4.4B

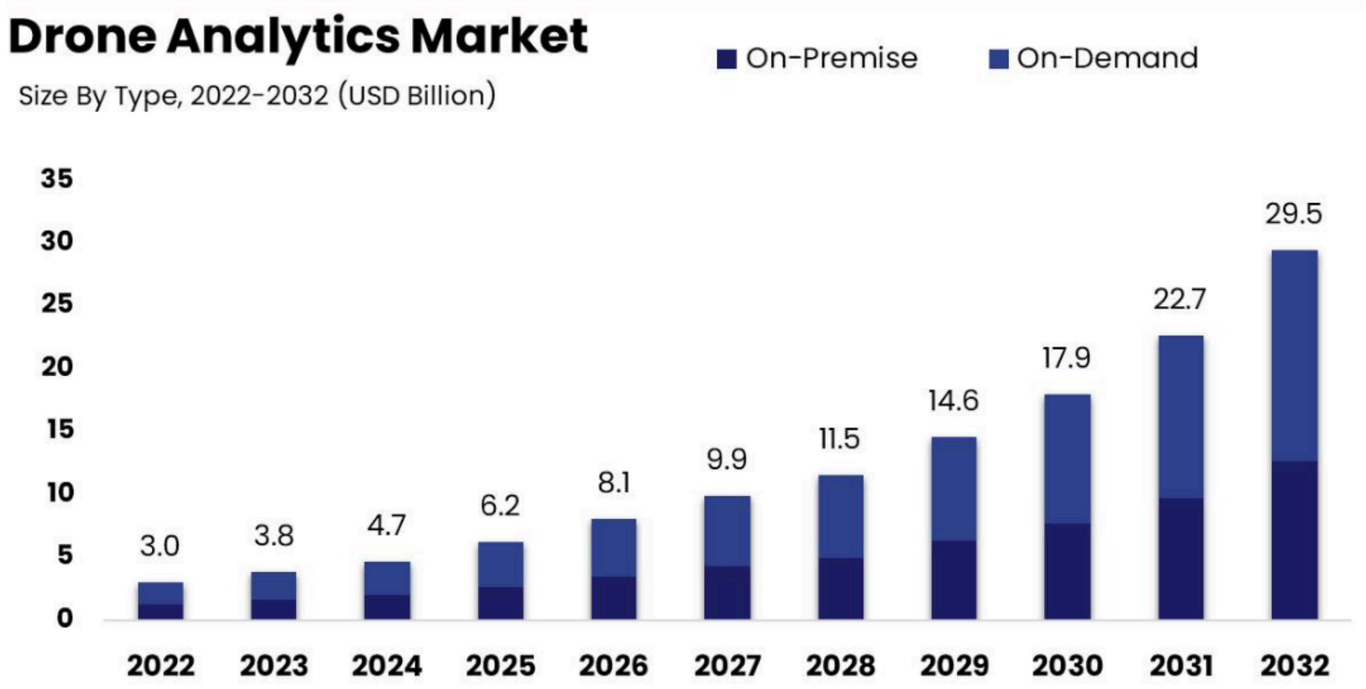
CAGR 29.2%

Major Players

- Airware, INC
- DJI
- Skydio
- DroneDeploy

Use Cases

- 3D Modeling
- Thermal Detection
- Geolocation Tagging
- Aerial Monitoring



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Enterprise Drones in 2024

Data collection relies on single drone

Single Drone Use = high bias / low variance data = bad data

Payloads and drones very expensive to make up for statistically bad data

Offered services usually requires expert on premise

Flight mapping system is time consuming

Individually map each and every action taken by drone

Limited adaptation for disruptions

Next-gen Enterprise Drones

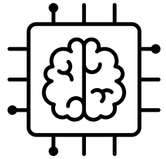
Data collection on synchronized drones

Swarm Drones = low bias / high variance data = better data

Payloads and drones now much cheaper and lighter

Easier regulations for drones under 250g

Deliver instructions through language

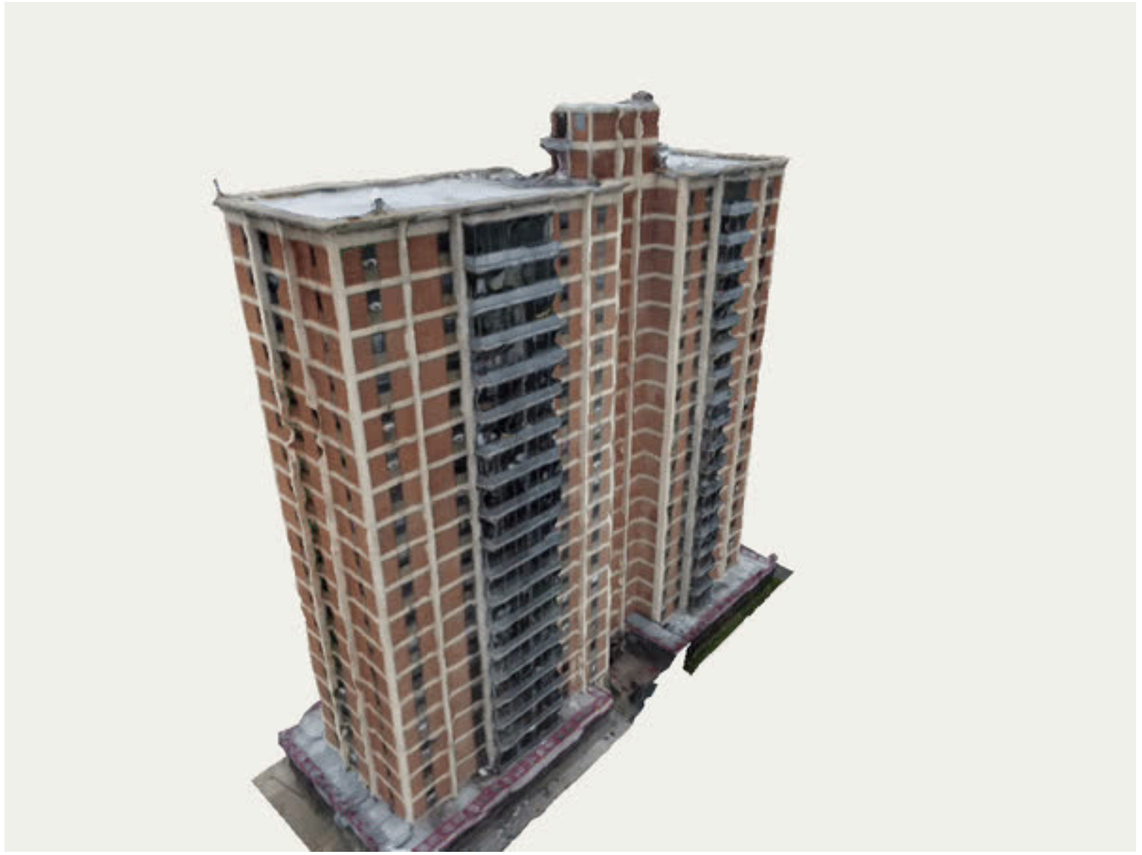


Confidently trust a transformer model for instruction decoding

Increased flexibility and adaptability against obstacles

Rapid Time-To-Revenue Plan

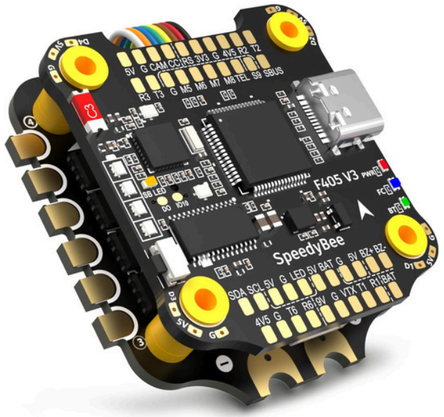
- Paid pilot selling Enterprise level 3D maps
- Create an initial gauge of market validation
- Get technical product feedback



3D Map Surveys

MP: $2000 - 20000

Product



Drone Flight Controller

An IP protected drone flight controller optimized for swarm connection and operations.

+

Fleet Management SaaS

Enterprise level software for scheduling and commanding missions. Monitor data of your premise like never before.

There exists a world where on-premise data collection is done swiftly, precisely, and autonomously. Colony is imagining the technology to bring that reality to life.

Traction

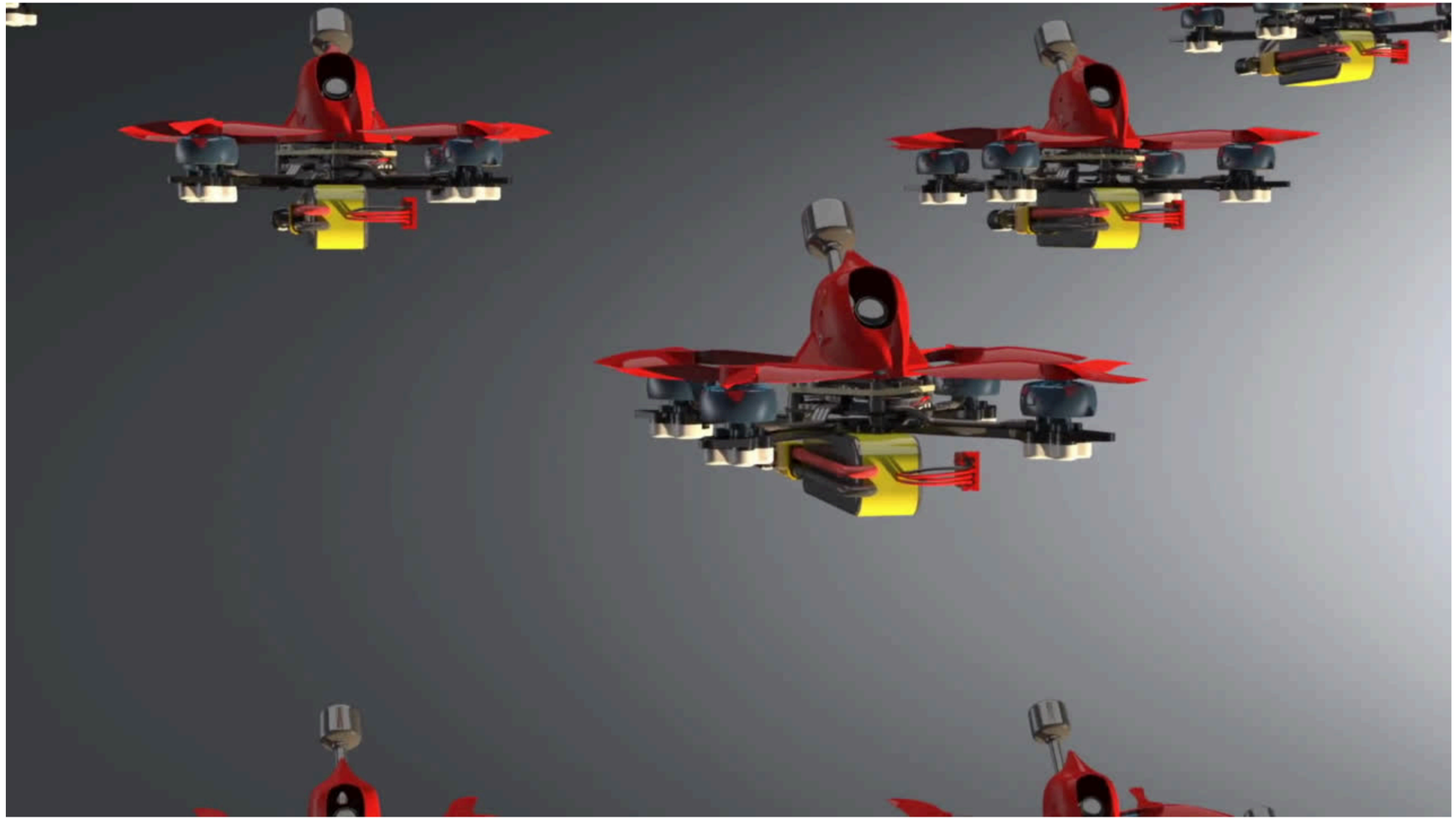
February 2024

AI Entrepreneurs at Berkeley builder for COLONY. Sunday hacking sessions and mentorship for developing the startup. Demo day in May.

April 2024

Founder Inc Hardware residency for 6 weeks. Mon-Sun on premise hacking sessions with mentors and 10 other founders. Successful simulation created and delivered.

Traction



Advisors

George Anwar

- BSc, MS, PhD in Mechanical Engineering
- Mechatronics Professor at UC Berkeley
- Brings over 30+ years of experience in control sys
- Advises in technical trajectory and optimizaitons

Mark Searle

- 6x Exec/Founder, 1 IPO, 2 other successful exits
- Brings 25+ years in operation management and startup strategy

Pending....

- In talks with two additional advisors...
- Entrepreneur / Ex-Microsoft with experience scaling data companies 0-100
- Distributed Systems PhD

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Chester Zelaya

B.S MechE, Minor EECS @ Berkeley

Robotics Experience

- Combat Robotics 2020
- Autonomous robot for healthcare 2021
- Autonomous CV turret that shot 10+ ft
- Holographic Display for Web3

Academics

- Embedded Systems
- Electrical Engineering
- Machine learning / Control Systems

Elijah Jacob

B.A Data Science, Economics @ Berkeley

Data/Software Experience

- Acubed by Airbus
  - utilized data to develop and ensure FAA-regulation compliance for autonomous flight systems.

Academics

- Machine Learning and Data Analysis
- Data Mining
- Logistics Network Design

Chester Zelaya

B.S MechE, Minor EECS @ Berkeley

Previous Ventures

- Web3 Hardware Company selling displays
- Supply chain traceability services for sustainable apparel

Elijah Jacob

B.A Data Science, Economics @ Berkeley

Leadership

- Cal Aerospace SAE, UC Berkeley
  - Head of Logistics and Finance

Previous Ventures

- Le Club Society, San Francisco

The Schedule

April 2024	✓ Create a basic swarm simulator and test performance by injecting commands on cheap drones
May 2024	✓ Advance swarm simulator to incorporate more complex tasks (ex. find ___, search the room, map the terrain)
Summer 2024	Run tests on drones that are actively aquiring data while accomplishing complex tasks. Understand and benchmark data aquisition process.
Summer 2024	Start testing with users / Paid demos
Late 2024 - 2025	Advance on optimized chip making and develop IP.