

ALL ROADS LEAD TO:



AI FOR THE FUTURE OF SAFE DRONE AUTONOMY

Opportunity | Why This Matters



21

Packages per Year

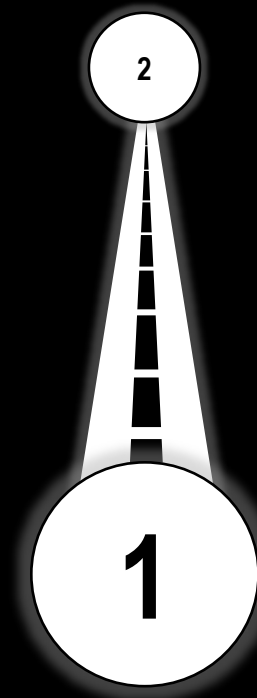
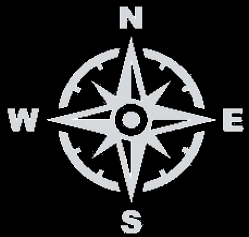
19 Million

D2C Packages per/Day

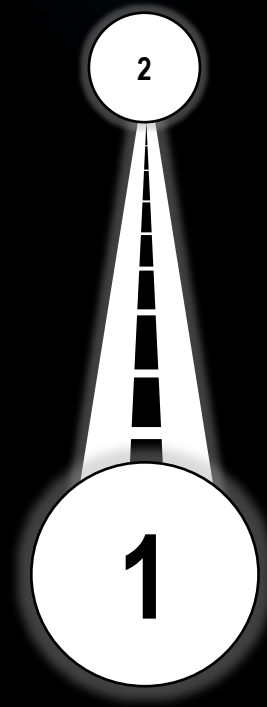
\$43 Million

Daily D2C Shipping Costs

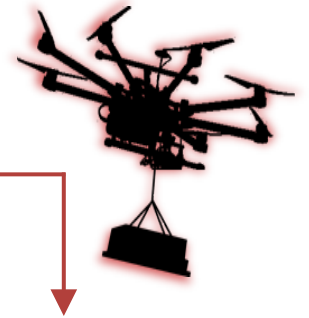
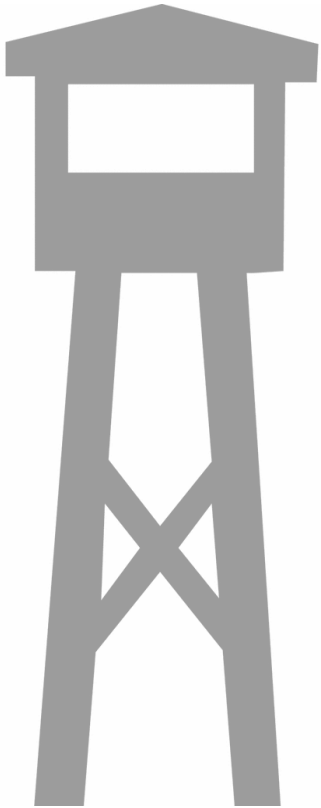
Problem | Flying Blind



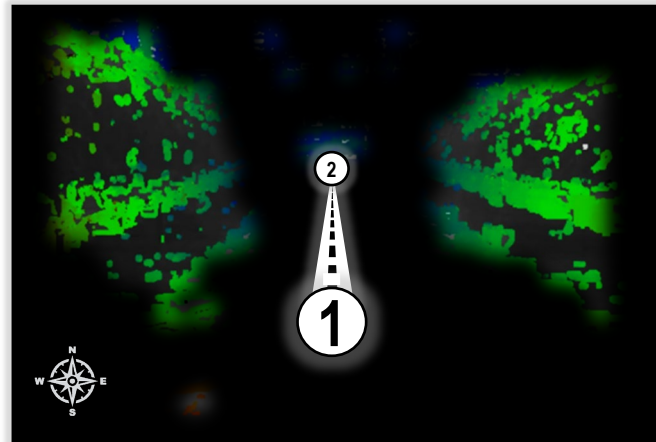
Problem | Flying Blind



Problem | Safety & Regulations



Not Allowed to Fly

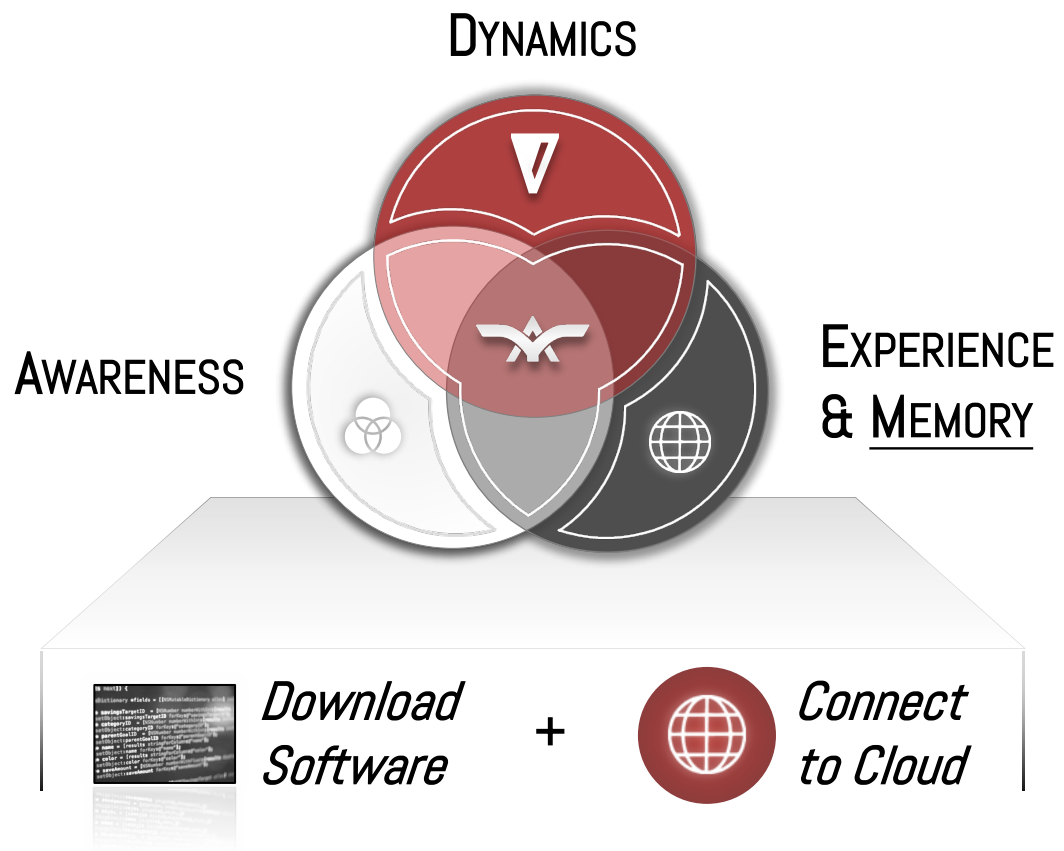


- Can't Remember
- Can't See

Technology | UAV Vision, Memory & Learning



UAV MEMORY



DRONE CONNECTED WITH REALITY



Go to Market | Path to Scale

INSTALL OUR
SOFTWARE



Cargo Delivery UAV

\$250/hr + \$/UAV

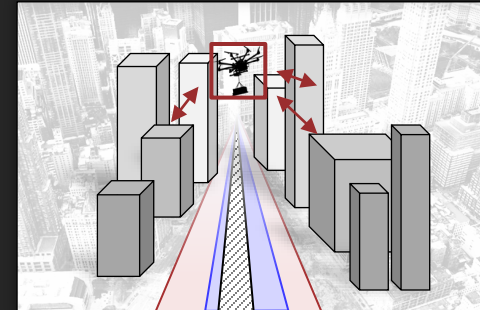
SETUP DISTRIBUTION
W/ PARTNERS



Scale to Many UAV

\$/UAV + \$/UAV/Month

EMBED TECHNOLOGY



Aerial Highways &
Regulatory Framework

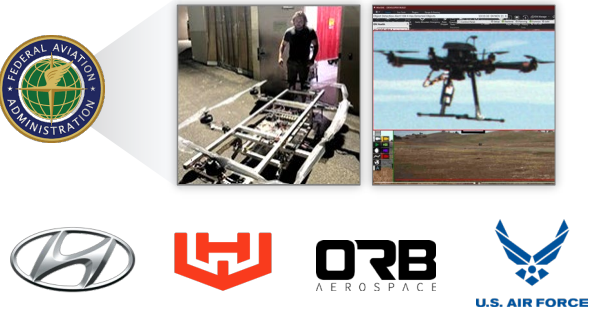
Cloud Subscription

Traction | Revenue & Partnerships



\$550k+ Revenue
License Deals

CARGO DELIVERY UAV



Co-Marketing Agreements

SCALE TO MANY UAV



Air-Space Pilot Programs
Regulatory Framework

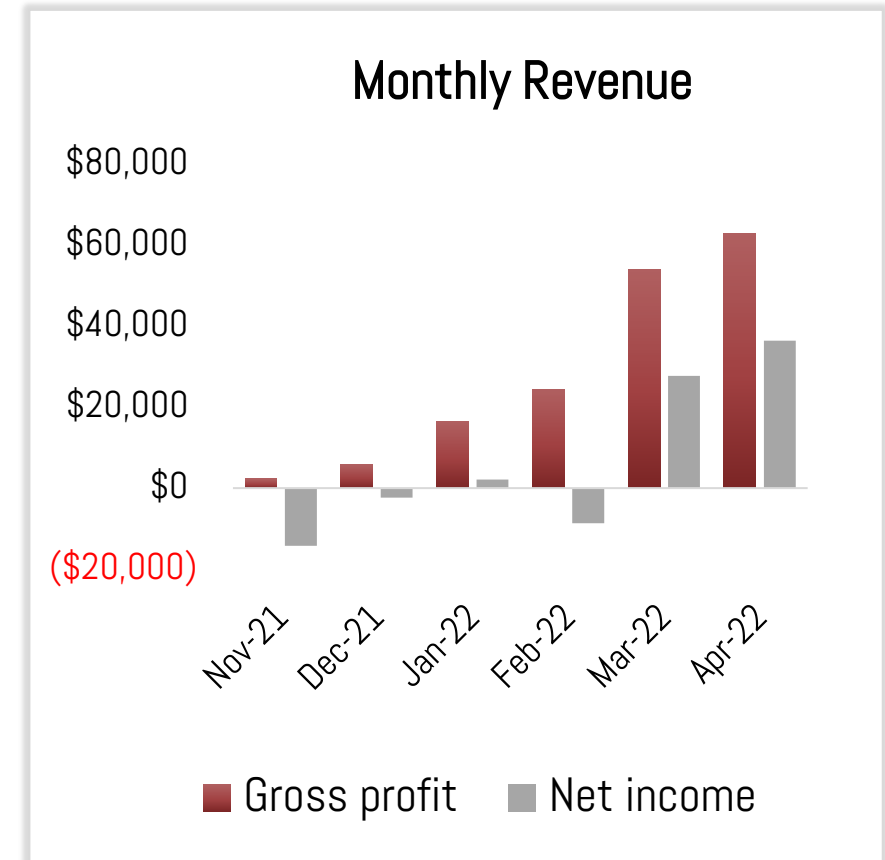
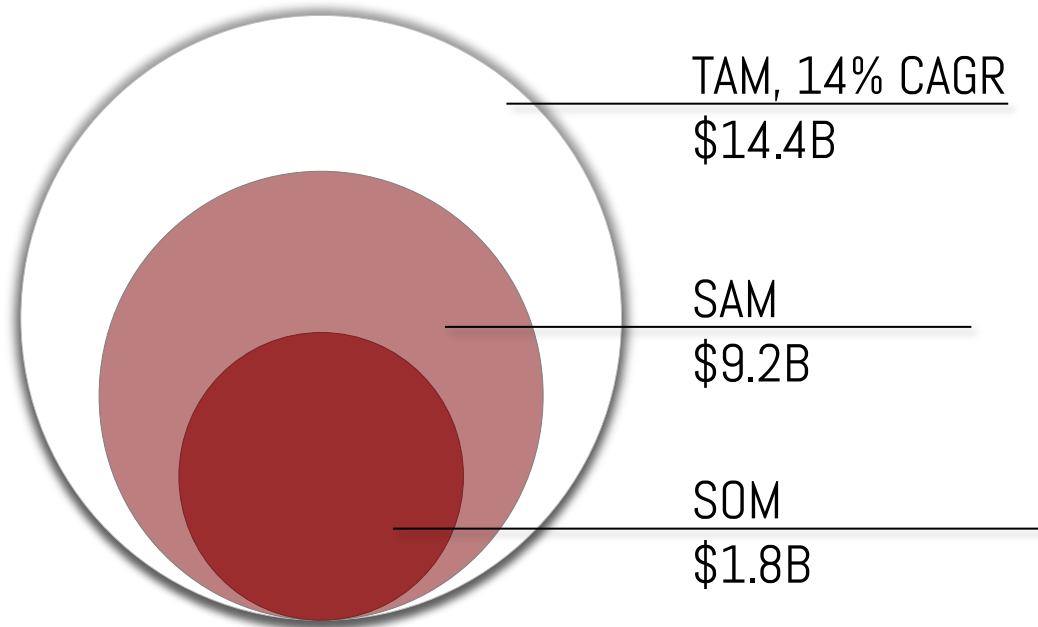
SAFE AUTONOMY CLOUD



Market Opportunity | Save \$5.2 Billion Dollars, 2025

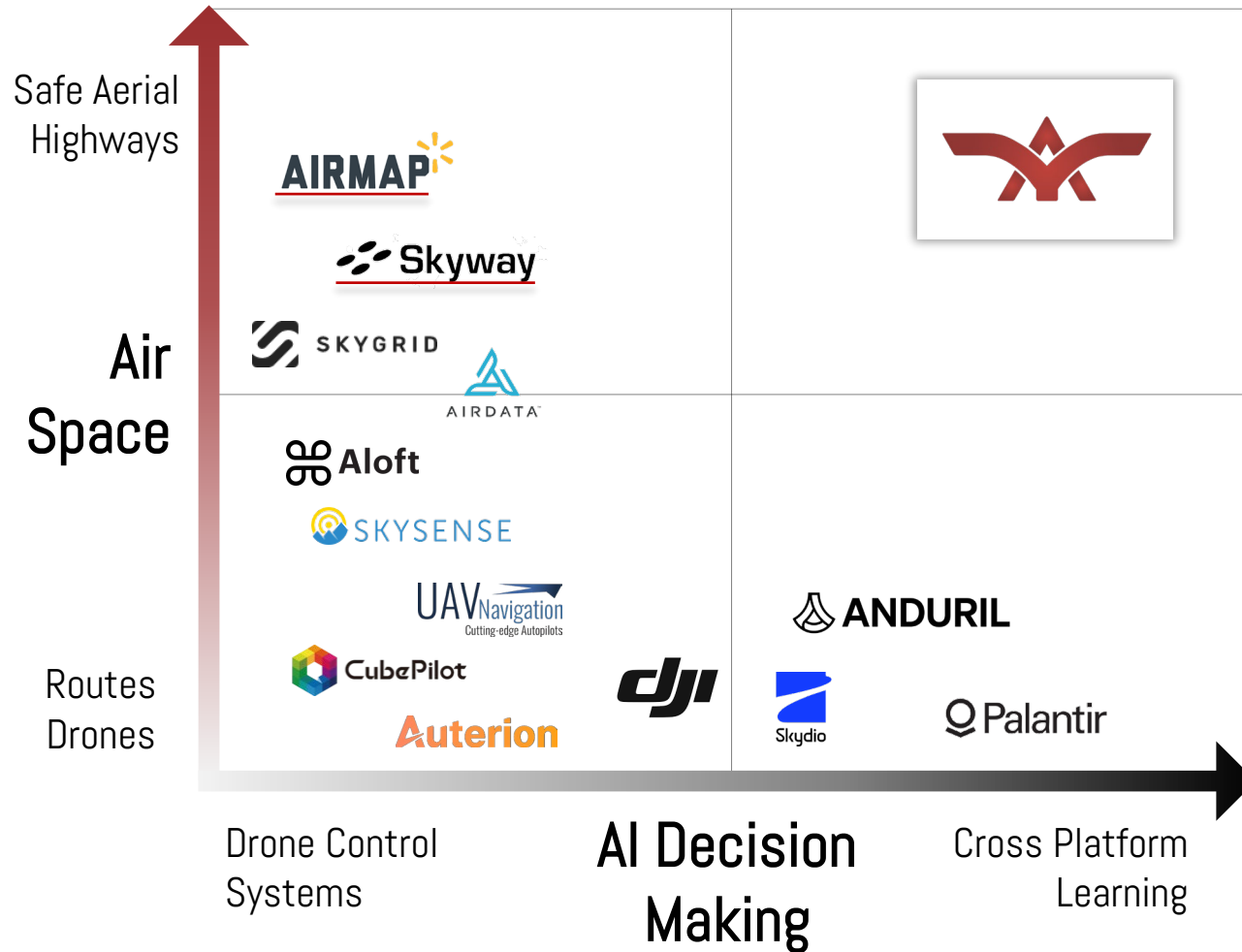


B2C Last Mile Delivery, 2025

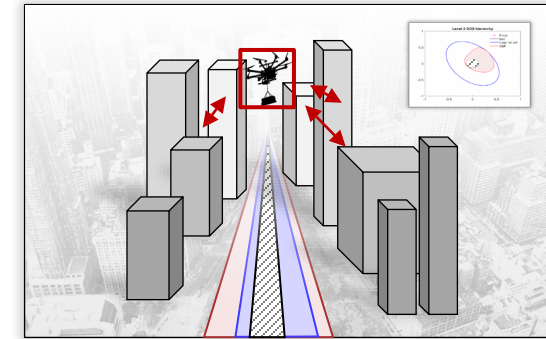


21 Packages per Year? | \$433mm/Mo | \$5.2B per Year | \$1.6mm ARR, 2025

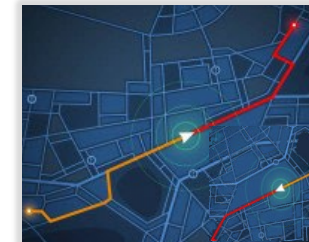
Competition | Unique Flight Controls



RHOMAN: ADDED SAFETY & AUTONOMY



COMPETITION: TRACK & MONITOR



Team | Experience on Every Front



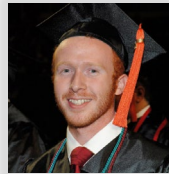
Thomas Youmans
CEO

NASA Data Science/
Systems Engineering
US Peace Corps



Dr. J. Croughan
Aerospace & Controls

PhD Aerospace Eng, USC
BS Aerospace, UC
Berkley



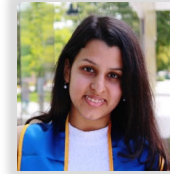
Garrett Clem
Dynamic Cloud Systems

Dynamic AWS Systems
UAV-Data Integrations
Full-stack



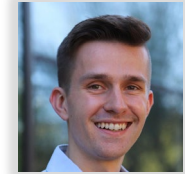
Dr. Z. Hasnian
Machine Vision & AI

NASA JPL 5 years
Machine Vision and AI
Navigation



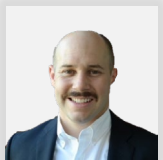
Ritika Singhal
Data Science

M.S. CS, & B.S. CS, USC
Data Science & Machine
Learning



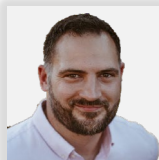
Dr. A Taylor
Control & Robotics

Adaptive Controls
Walking/Flying Robots
Caltech PhD



Dr. Brett Lopez +2
3D Spatial Data Fusion

UCLA, Former JPL
DARPT SubT Challenge



Dr. Aaron Ames +1
Adaptive Controls/Barriers

Caltech, World Leader
Adaptive Controls



James Henderson
COL, DoD Advisor

75th Innovation Command
CIO, Harris County, TX



Maxim Wheatly
Startup-Scale

Exits, Experience scaling
startups/Team, IP-Business

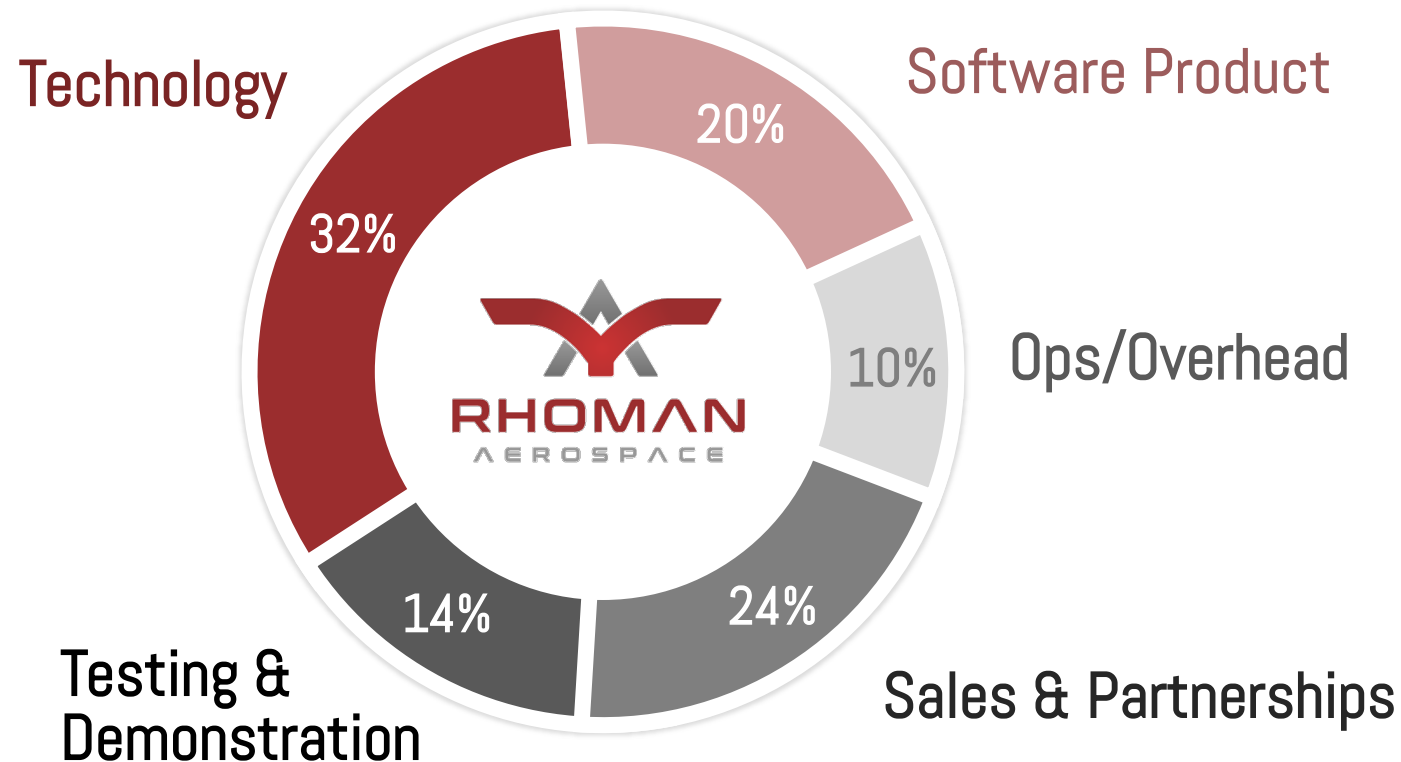
PARTNERS, COLLABORATORS, ADVISORS:



Path to Series A | Investment <> \$1.6mm ARR



\$3mm Seed :: 24-Months



Results

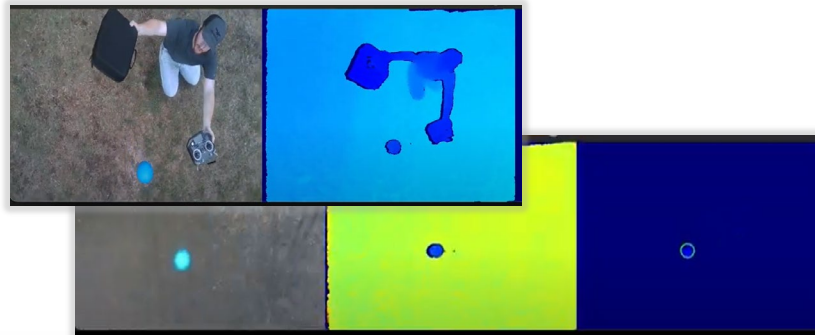
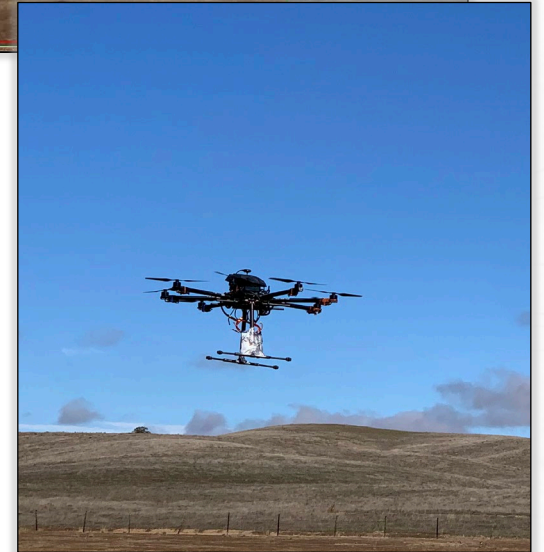
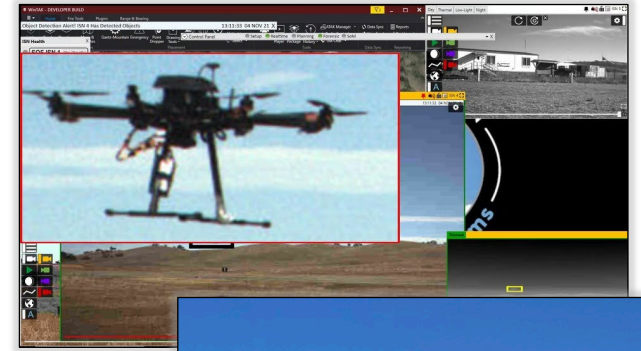
- ✓ \$1.6mm ARR
- ✓ Deployed at Scale
- ✓ Walmart & Big-Name Partnerships
- ✓ 2,700 Drones
- ✓ Safe Skies Aerial Highways
- ✓ Series A

tom@Rhoman.aero
www.Rhoman.aero



APPENDIX:

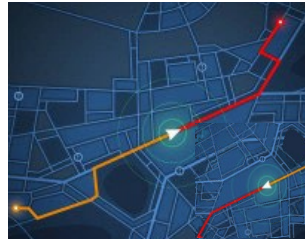
Technology | Rhoman Software & Hardware



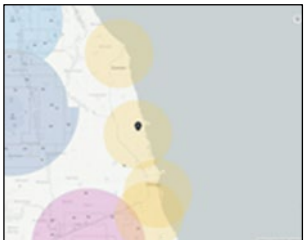
4 Issued Patents

Multiple Pending Patents

Competition | AirSpace Competitors → Partners

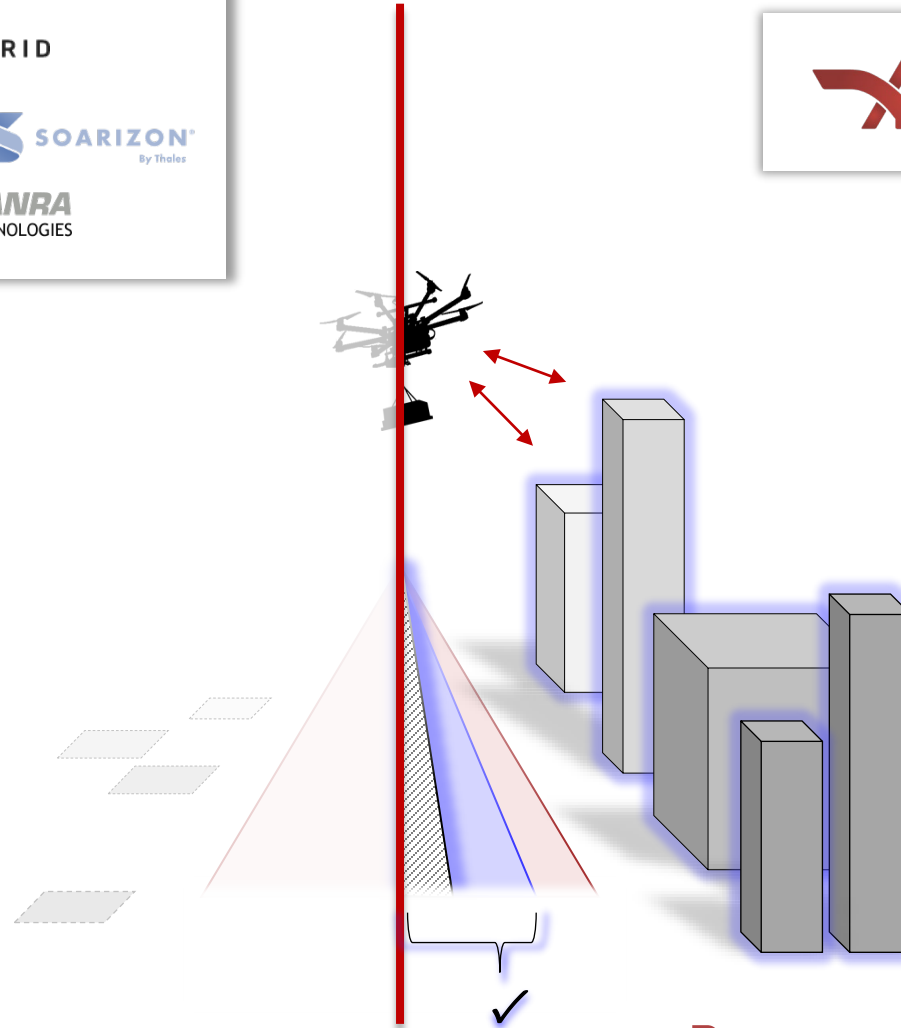


2D GPS Tracking



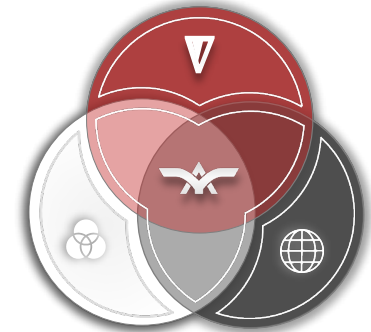
Air Space Restrictions

COMPETITION: TRACK & MONITOR



*Added Safety & Capabilities
Redundant Positioning, BVLOS
GPS Denied Autonomy*

AWARENESS &
SHARED MEMORY

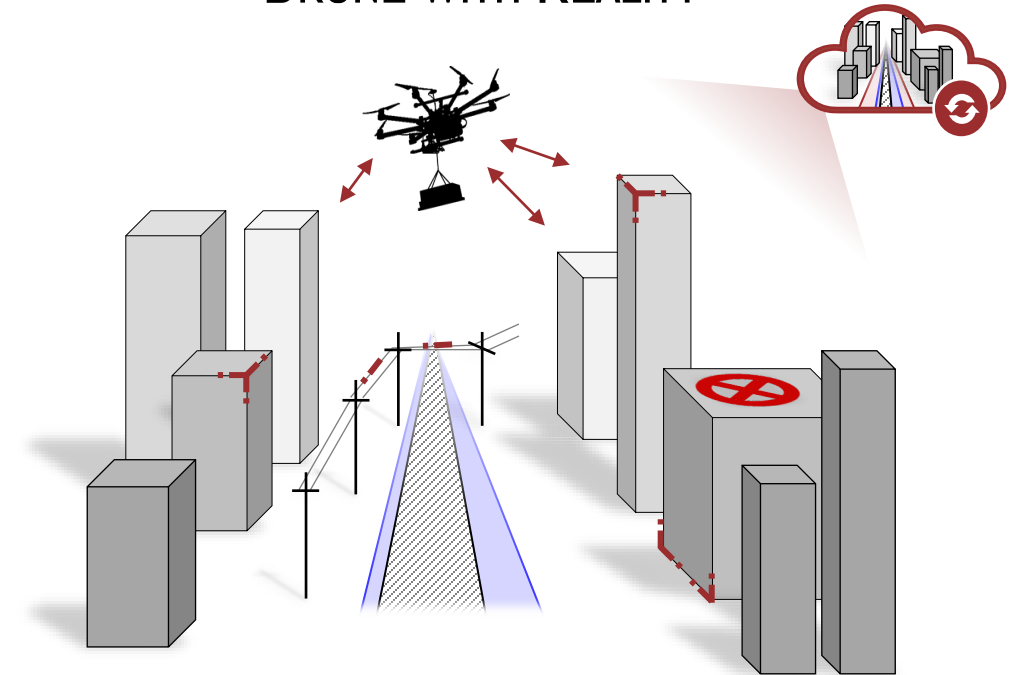


4 Patents

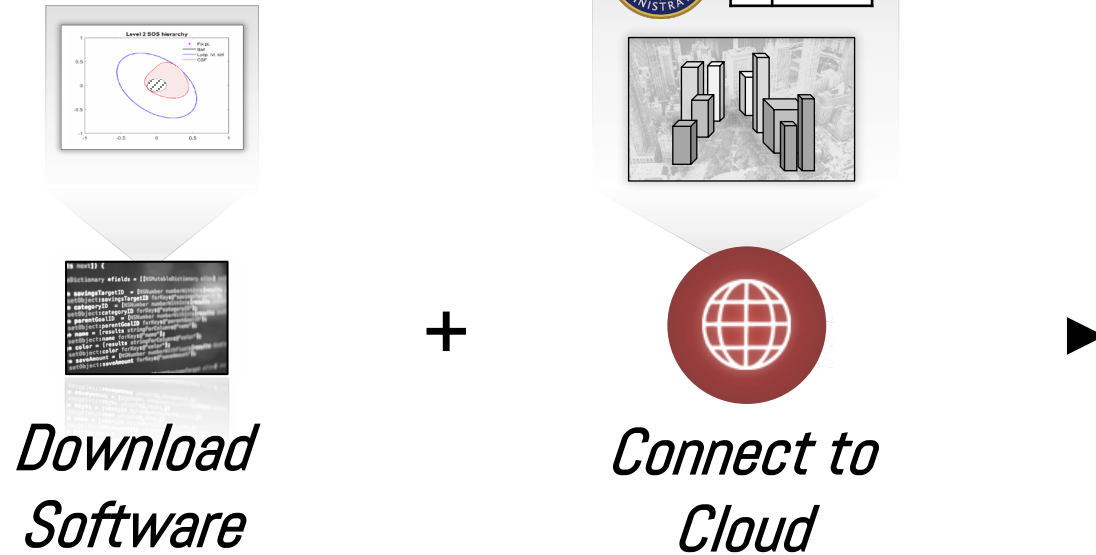
RHOMAN: ADDED SAFETY & AUTONOMY

Solution | Download-and-Fly Safely

AI-CLOUD SYSTEM CONNECTS DRONE WITH REALITY



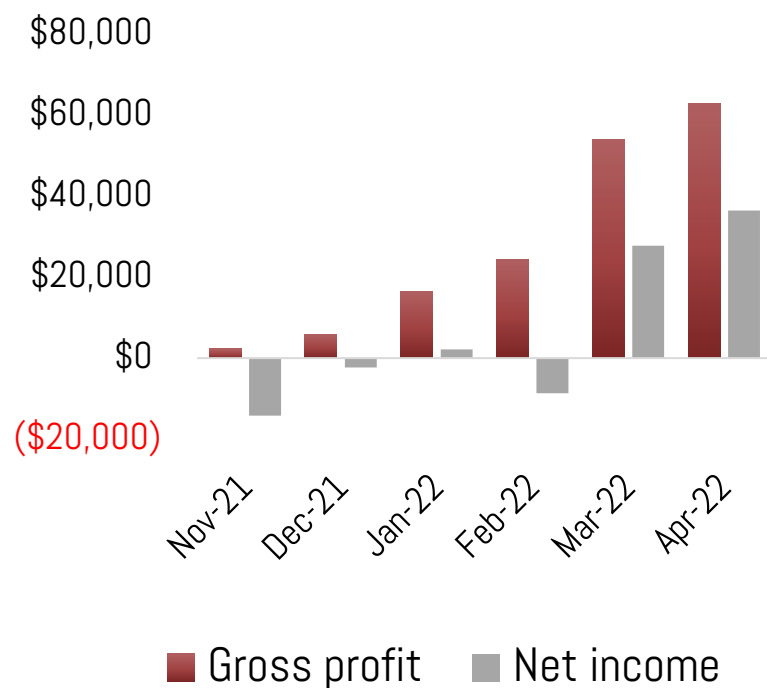
- ✓ Redundant Safety Systems Deployed



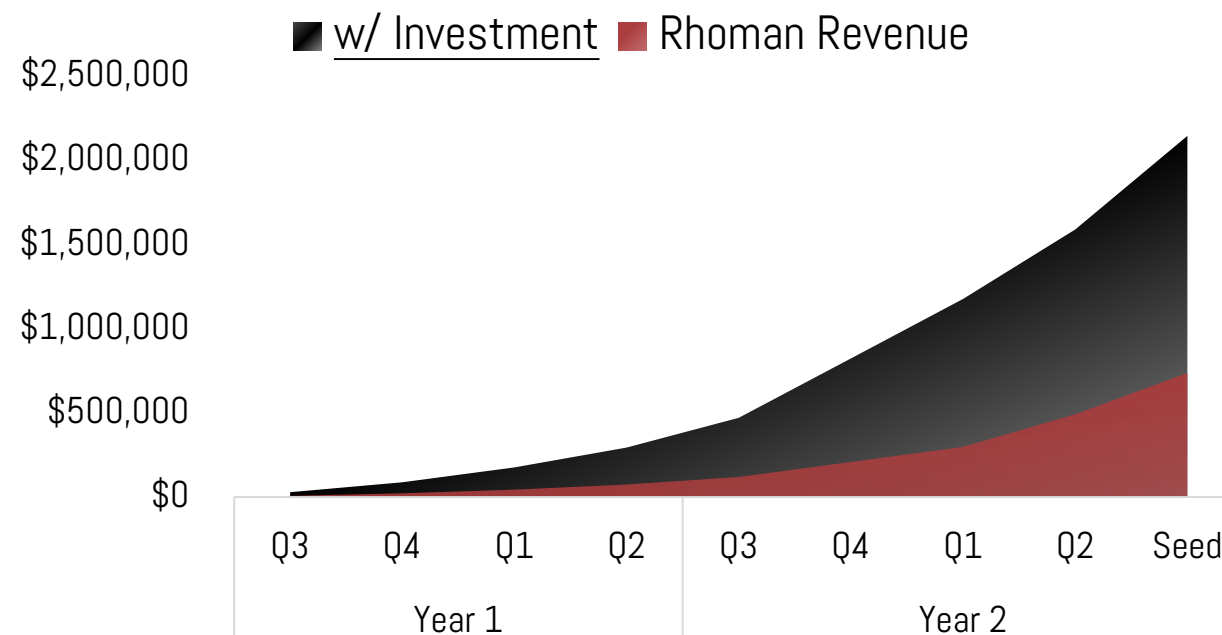
- ✓ Increase Performance
- ✓ Safety Tests & Certification

Opportunity | Projections w/ Seed

Revenue & Net Income



24-Mo Projected ARR w/ Investment



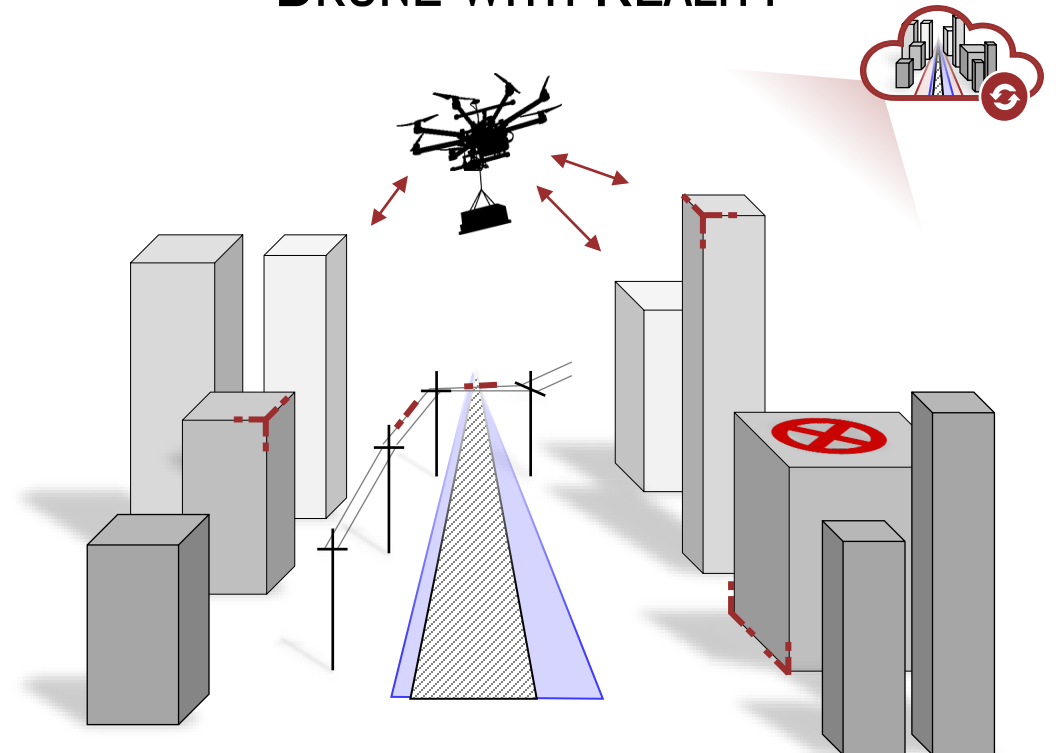
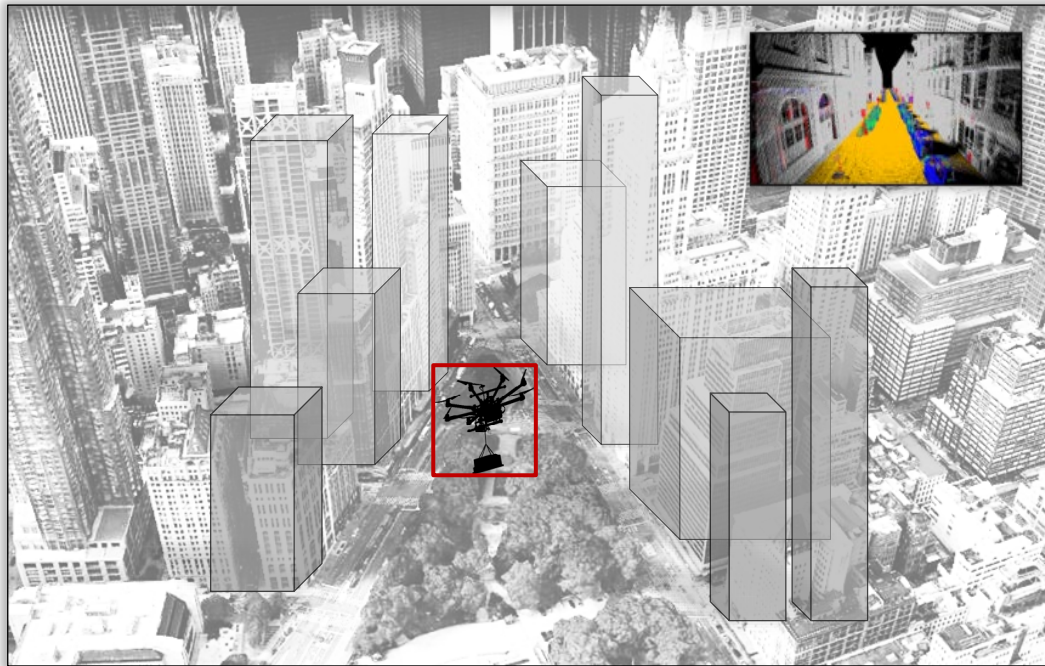
Current Traction

Commercial & Gov Customers

Future Subscription Revenue w/ Investment

\$1.6mm ARR, \$49/UAV/mo Cloud Subscriptions

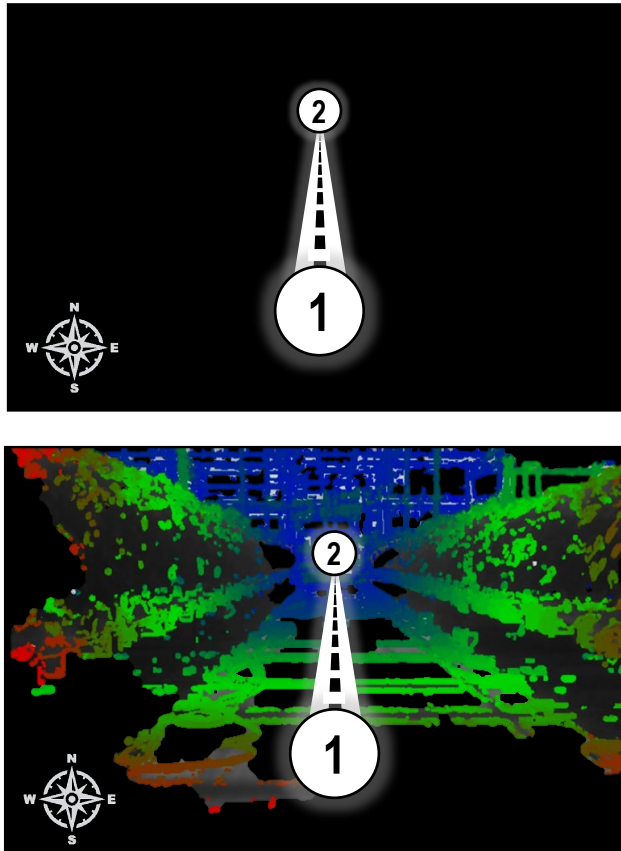
AI-CLOUD SYSTEM CONNECTS DRONE WITH REALITY



4 Issued Patents

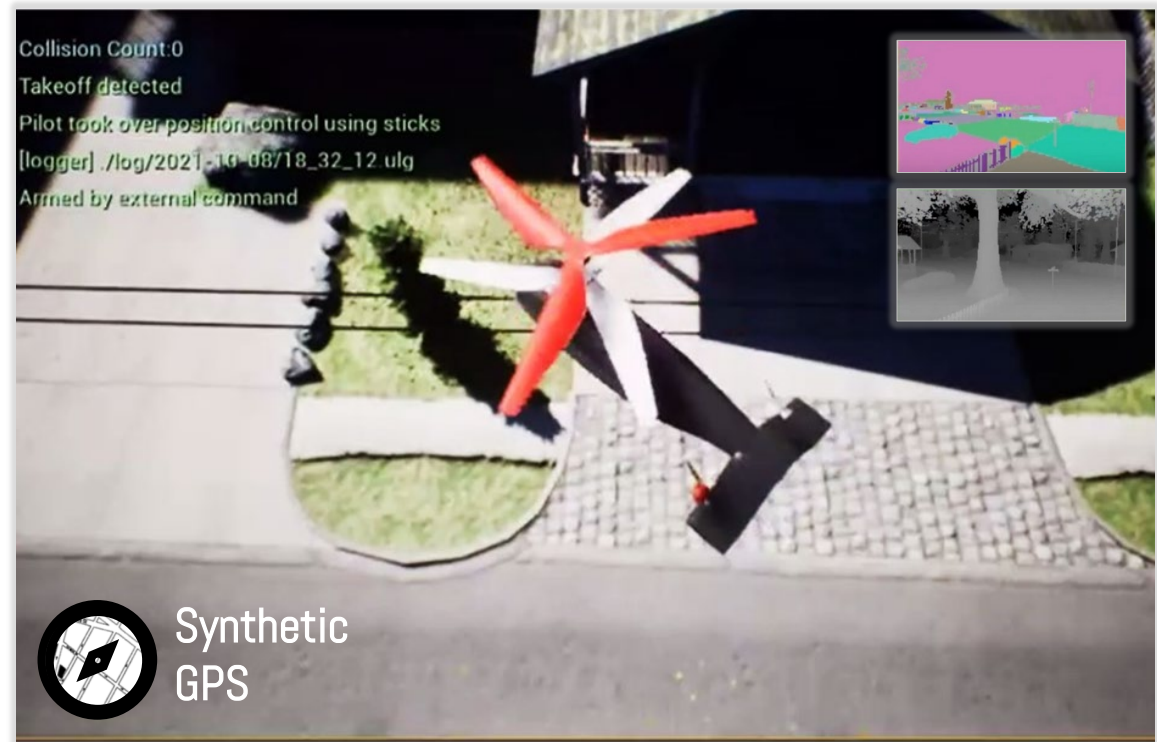
Old Paradigm | Drone Safety & Control

STANDARD FLIGHT



GPS + Sometimes Distance Sensors

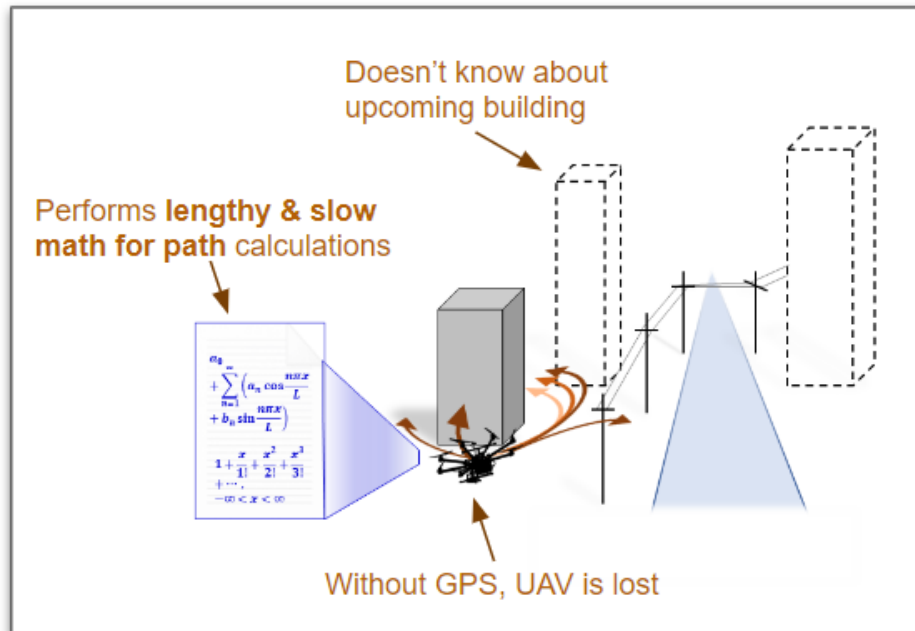
SELF AWARE FLIGHT



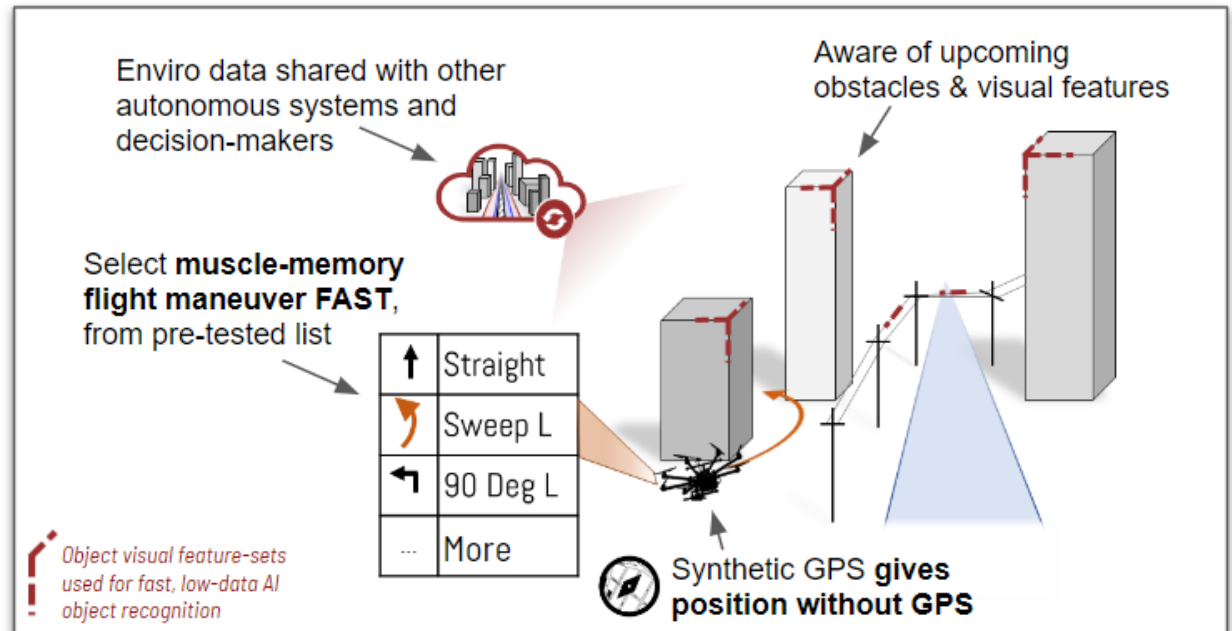
Perception | Awareness | "Shared Memory"

Technology | Flight Muscle Memory

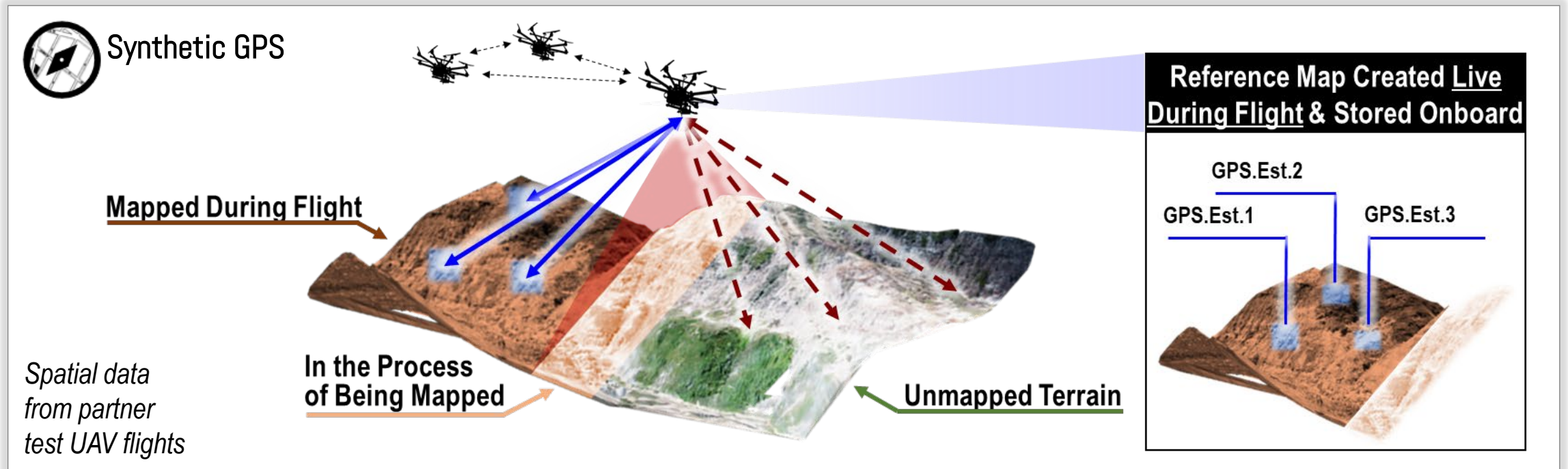
Status Quo: Slow Path Calculations, Lost



Solution: Flight Muscle Memory, Synthetic GPS



Technology | Shared UAV GPS-Denied Autonomy



UAV Cargo Delivery | Saves \$250M per Year



Savings per year: \$70M & \$270M

\$155M

\$180M & \$270M

\$210M

	Baseline, 500M pckgs 2030, Price point \$4.20/dlvry		Increased Efficiency, Shifting CG, Hanging Payloads			Increased Autonomy			Shifting CG, Hanging Payloads, Increased Autonomy			Increased flight time by 10% Increased deliveries by 10%		
Drone Package Delivery by 2030, Yearly Estimates	Delivery Metrics	Revenue/ Cost per Year	Rhoman Efficiencies	Revenue/ Cost per Year	Savings per Year	Rhoman Efficiencies	Revenue/ Cost per Year	Savings per Year	Rhoman Efficiencies	Revenue /Cost per Year	Savings per Year	Rhoman Efficiencies	Revenue /Cost per Year	Added Revenue per Year
Packages Delivered by Drone, 2030	500M	\$2.1B										550M	\$2.3B	\$210M
Package Deliveries per Day	1,388,889	\$5.3M										1,527,778		
Deliveries per Drone per Day	30											33		
Active Drones per Day	46,296		41,667						41,667			46,296		
Drones per Operator	9		9			15			15			9		
Operators per Day (\$75k Annual)	5,556	\$422M	4,630	\$352M	\$69M	3,086	\$235M	\$155M	2,778	\$212M	\$178M	5,144		

Hardware/Non-Recurring

Total Delivery Drones, \$10k/Drone	50,000	\$500M	45,000	\$450M	\$50M				45,000	\$450M	\$50M			
Receiving Vessel Cost	\$12,500													
Number of Receiving Vessels	175,000	\$2.19B	157,500	\$1.97B	\$219M				157,500	\$1.97B	\$219M			

Shifting CG, Hanging Payloads:
5%-15% better flight efficiency
reduces required drones to meet
customer need, drop payloads in
tight driveways

Increased Autonomy:
Increased autonomous
capabilities mean more drones
per operator

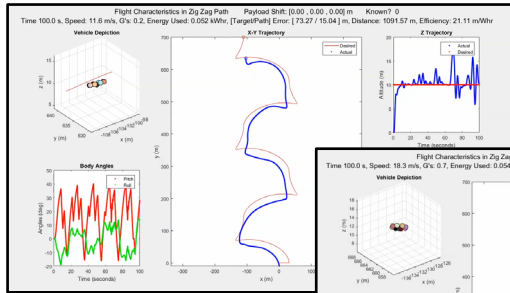
**COMBINE, Shifting CG,
Hanging Payloads & Increased
Autonomy:** Fewer drones are
needed and operators can
handle more drones

Shifting CG, Hanging Payloads:
5%-15% better flight efficiency
enables 10% more customers
with the same hardware
capabilities

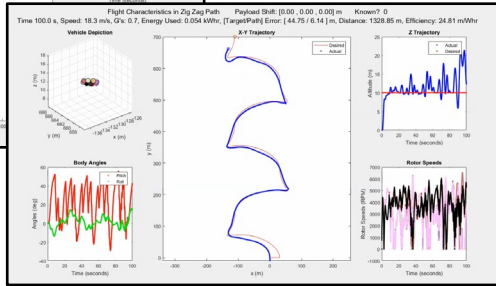
Solution | Rhoman Adaptive Flight Controls



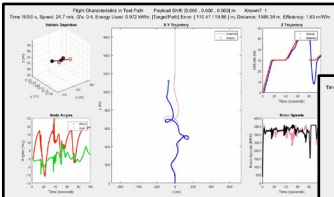
21.11 m/Whr



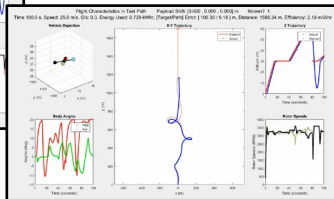
24.81 m/Whr



1.63 m/Whr



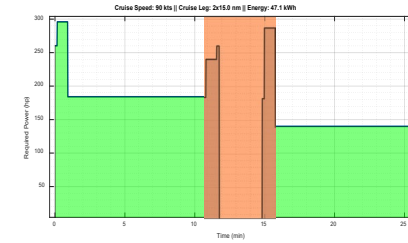
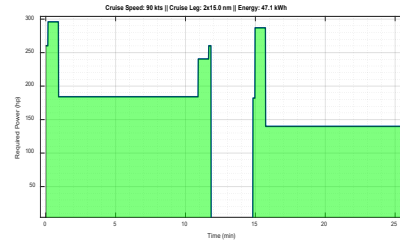
2.18 m/Whr



Including
key payload information and using our unique turning methods makes flight more efficient

Total Energy Saved: 10-30%

Benefits of Hovering to Deploy Payload Instead of Landing



	Takeoff	Cruise	Land	Unload	Takeoff	Return	Land
Power Level (hP)	293	184	240	0	288	138	181
Total Power (hP) (Pwr*Time)	271	1845	223	0	266	1384	109
Energy Allocation (kWh)	6.6%	45.0%	5.4%	0.0%	6.5%	33.8%	2.7%
Energy Used (kWh)	3.1	21.2	2.6	0.0	3.1	15.9	1.2
Mins	0.93	10.05	0.93	2.78	0.93	10.05	0.60
%-Time	3.5%	38.3%	3.5%	10.6%	3.5%	38.3%	2.3%

Hover and Lower Payload

Hover-Power, Lower Payload	170	Conservative
Time to Lower Payload	0.67	Conservative 40 second
% of Total Energy (47 kWh)	2.8%	
kW Energy Used	1.31	

Energy Savings

% Energy Removed	6.6%	45.0%	5.4%	0.0%	6.5%	33.8%	2.7%
kWh Energy Removed	3.1	21.2	2.6	0.0	3.1	15.9	1.2
% Energy Added	0.0%	0.0%	0.0%	2.8%	0.0%	0.0%	0.0%
kW Energy Added	0.0	0.0	0.0	1.31	0.0	0.0	0.0

Total Energy Saved

4.3 kWh, 9.2%

Future Scale | Rhoman Cloud



SIGNIFICANT FUTURE EXPANSION



MACHINES WITH COMPLEX
CONTROLS & AUTONOMOUS
USE CASES

AERIAL TAXI MARKET

\$6.6B, 2030

26% CAGR

AUTONOMOUS CARS MARKET

\$1.6B, 2025

\$3.2B, 2030

15% CAGR

AUTONOMOUS ROBOTICS MARKET

\$110B, 2025

\$221B, 2030

18% CAGR