

# LEO must be commercial, but it's getting clogged

- Debris load today: ~54,000 objects
- Policy pressure: the FCC adopted a 5-year deorbit rule for LEO satellites (2022).
- Budgets are real: ADR awards now reach ~¥12-13.2 B ( $\approx \$81-86$  M) per object
- Europe's stance: ESA's Zero Debris aims to be debris-neutral by 2030—demand for remediation & safer reentry is rising.
- Commercial blocker: launching fresh mass for every build is slow/expensive → LEO needs an in-orbit supply chain.

# Our answer: OAZIS-1 (Orbital Autonomous Zero-debris In-Situ Station)

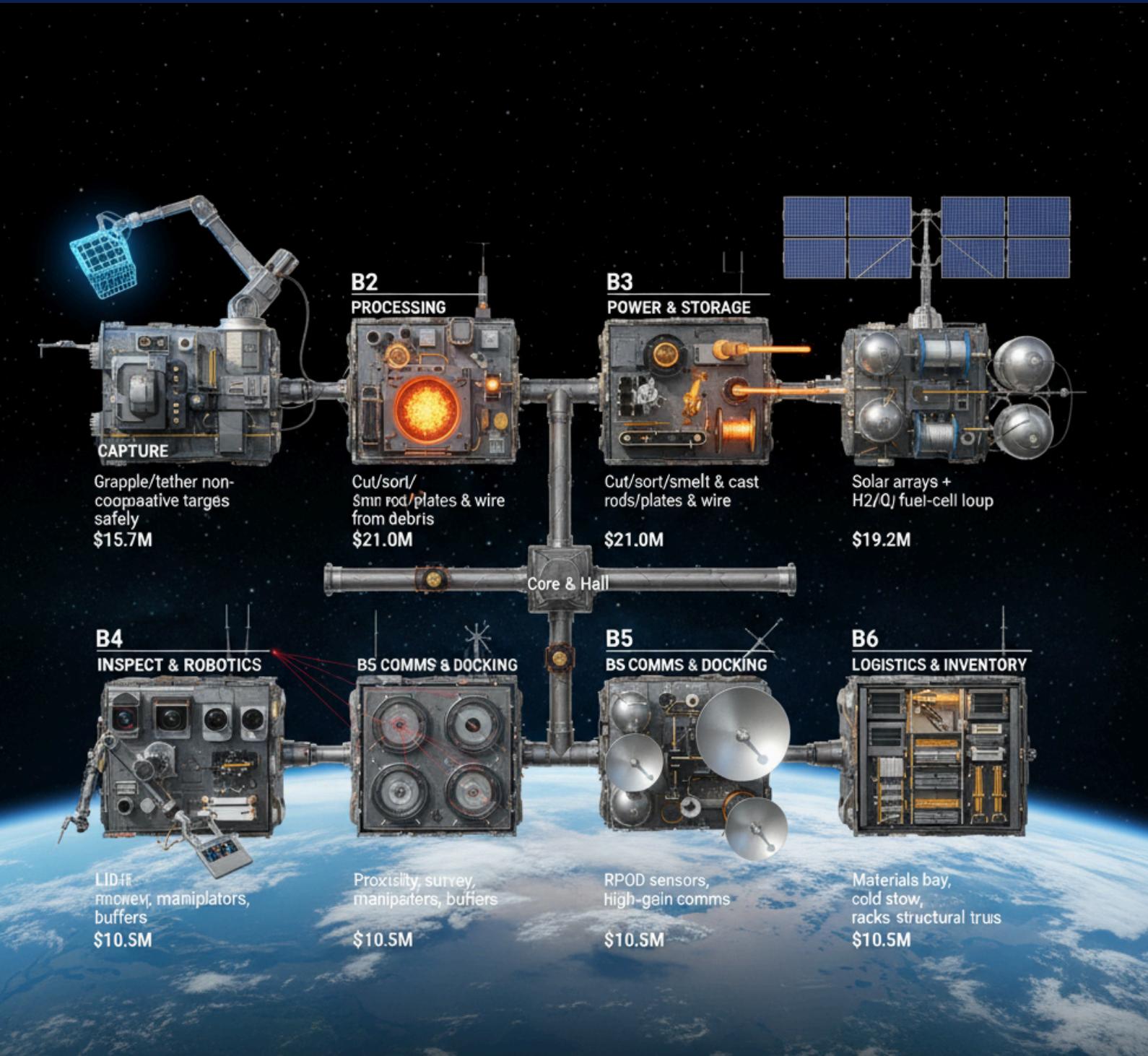
Capture → Recycle → Sell

Turn high-risk debris into rods/plates/wire sold in orbit (MaaS).

Monetize twice per sortie: ADR fee now + materials inventory later.

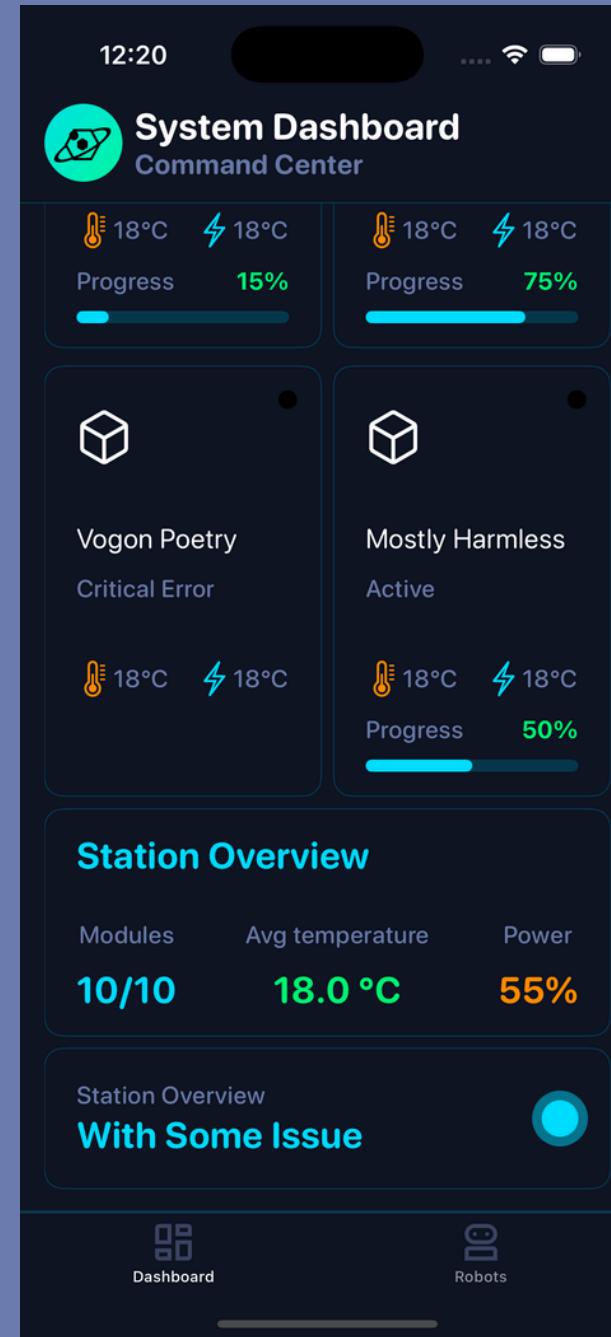
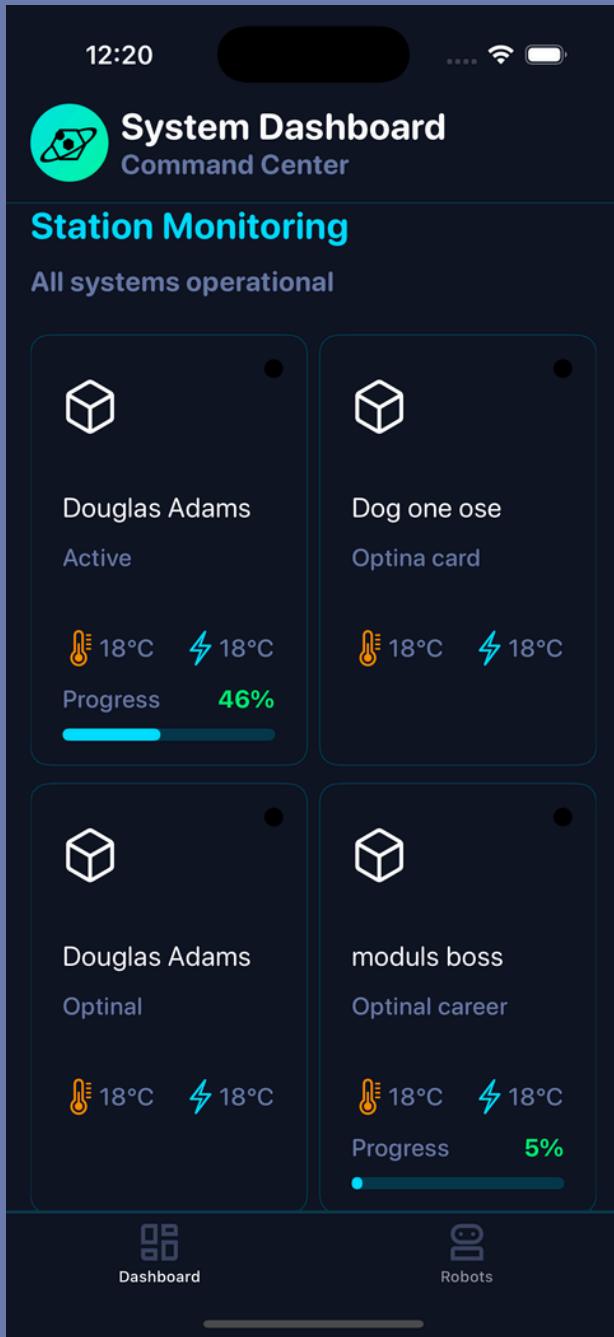


# SYSTEMS OF EACH BLOCKS



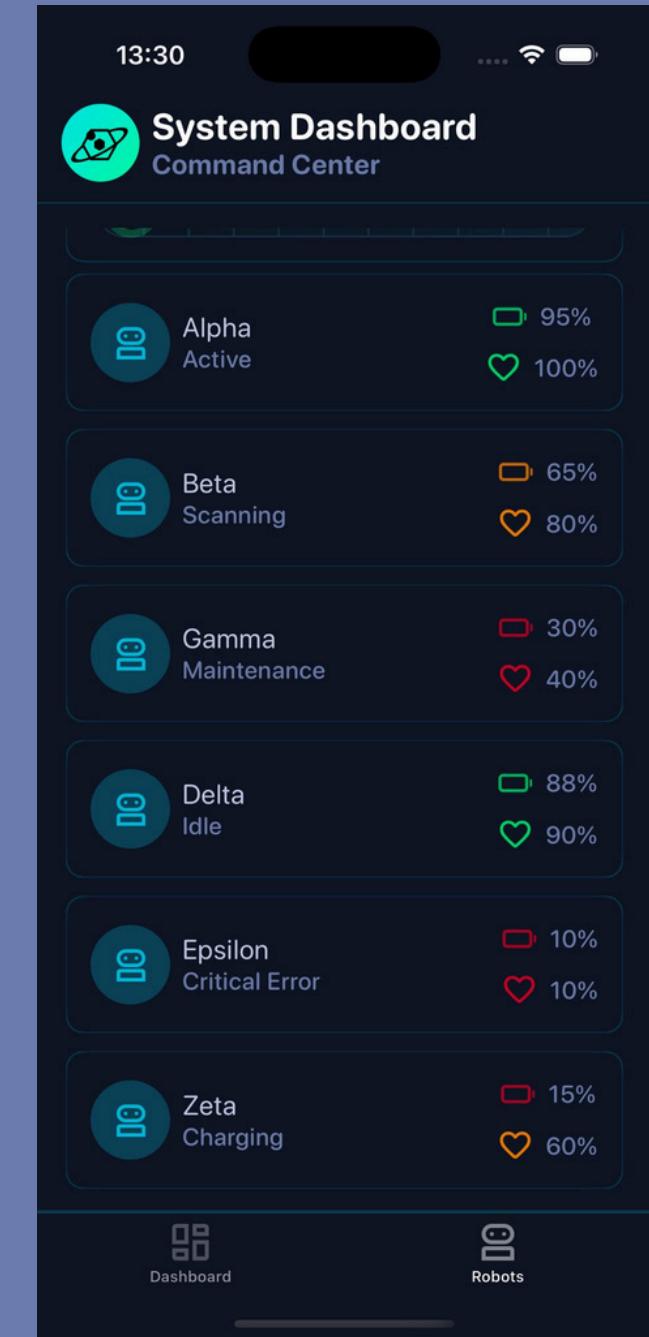
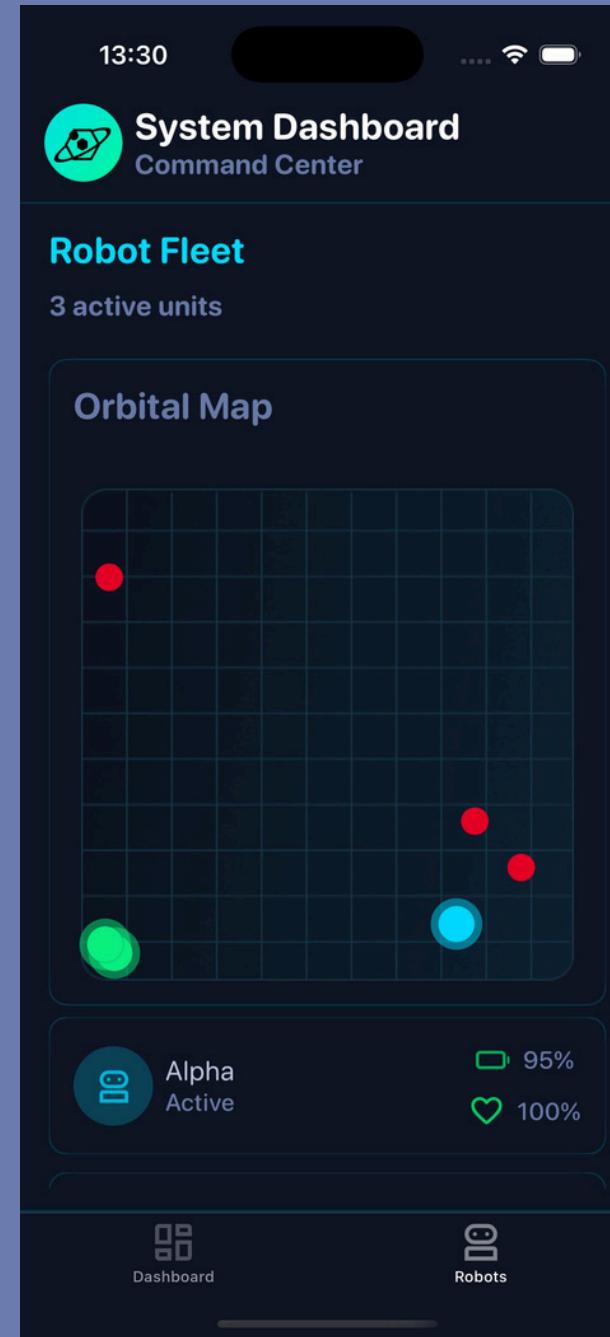
- B0 Core & Hall (Spine): structure + utility hall (power/data/fluids), shielding, mounts, docking interfaces.
- B1 Capture: standoff sensing; cage/coil/arm options; retreat envelopes.
- B2 Processing: passivate → cut/sort → induction/solar smelt → cast (rods/plates/wire); slag control.
- B3 Power & Storage: solar arrays; tanks + electrolyzer; H<sub>2</sub>/O<sub>2</sub> fuel-cell loop for night/peaks.
- B4 Inspect & Robotics: LiDAR+camera nav; manipulators; buffer handoff.
- B5 Comms & Docking: RPOD sensors; GN&C avionics; high-gain comms; docking ports.
- B6 Logistics & Inventory: racks; containment; truss/adapters; inventory mgmt.

# APP OAZIS



**Panel 1 – Station Overview:** live 7-block status; power & thermal budgets; throughput; instant alerts if limits exceeded

Panel 2 – Robot  
Management: map + status  
+ task queue; direct  
commands (Return /  
Recharge / Process debris  
/ Hold / Begin passivation);  
safety interlocks.



## 3-Year Financials (USD) Revenue

Item / Year	Year 1	Year 2	Year 3	Notes
Inspection Services	\$600,000	\$2,000,000	\$4,300,000	Paid imaging / assessment
ADR Missions	\$0	\$0	\$35,000,000	First large ADR delivered in Y3
MaaS (rods/plates/wire )	\$0	\$1,200,000	\$6,000,000	~600 kg/yr (Y2) → ~3,000 kg/yr (Y3) at \$2k/kg
<b>TOTAL INCOME</b>	<b>\$600,000</b>	<b>\$3,200,000</b>	<b>\$45,300,000</b>	

## Operating Expenses (OPEX — excludes CAPEX)

Item / Year	Year 1	Year 2	Year 3	What this covers
Ground Ops & Development	\$1,200,000	\$2,000,000	\$4,000,000	Mission control, engineering, tooling
Data / SSA & Cloud	\$300,000	\$800,000	\$1,000,000	Tracking data, cloud compute, storage
Insurance & Compliance	\$200,000	\$500,000	\$1,500,000	Licensing, liability, regulatory
Marketing / Business Dev	\$300,000	\$700,000	\$1,500,000	Sales, partnerships, outreach
<b>TOTAL OPERATING EXPENSES</b>	<b>\$2,000,000</b>	<b>\$4,000,000</b>	<b>\$8,000,000</b>	

## OAZIS-1 - 3-Year Income (Revenue)

Year	Total Income (Revenue)	What's included (1 line)
Year 1	\$0.6M	Inspections only
Year 2	\$3.2M	Inspections + early MaaS (~600 kg @ \$2k/kg)
Year 3	\$45.3M	First ADR (~\$35M) + MaaS (~3,000 kg @ \$2k/kg) Inspections

# Future plans

Finalize suppliers; OF-Console v1 (2-panel dashboard); SSA data partnerships; inspection-demo PDR.

Inspection demo flight; publish imagery & targeting; sign pilot ADR; order long-lead B2/B3 hardware; start qual (vibe/acoustic/TVAC).

Cooperative capture demo; finalize launch manifest (rideshare/F9); integration & protoflight testing; insurance & ops readiness.

Launch core + 2 modules; begin MaaS at low volume (~50 kg/month); paid inspections continue.

Deliver first ADR; scale MaaS to ~250 kg/month; add remaining modules; expand partner pipeline (agencies, primes, builders).





Invest in OAZIS to  
clean LEO now and  
sell in-orbit materials  
tomorrow.