

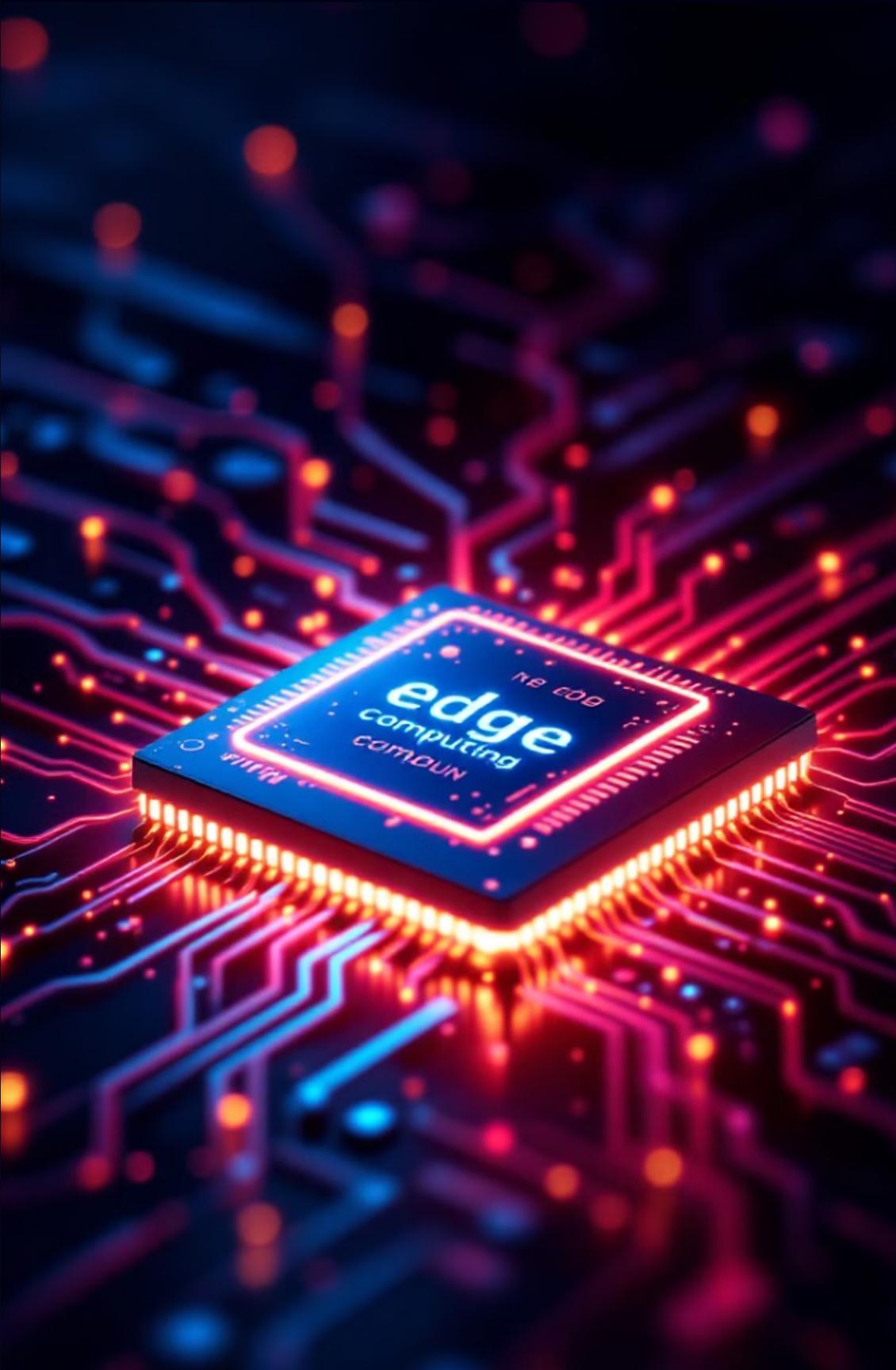


Modular AI chiplets for secure, low-power applications

Mission-Critical Chiplet SoCs: Defense, Space and Industrial Applications

Tayo Adesanya | Founder & CEO

National Security Innovation Council 2026





Decades of Industry Driven Experience

Combines technical excellence with operational discipline — building AI silicon that survives where others fail.



Tayo Adesanya
Founder, CEO / CTO



Joshua Bush
Head of Operations



Randy Hollines
Head of Software



Jordan Page
Principal Systems Engineer



Market Opportunity

\$120B

Dual-Use Hardware TAM

Defense AI (\$30B) +
Commercial Autonomous (\$90B)

\$136M

Pipeline

Weighted customer pipeline

65%+

Gross Margin

At scale in production



Hardware Refresh

Edge devices must be upgraded to become more intelligent and efficient.



Inadequate Options

Existing solutions can't meet the soaring demand for AI edge compute in air, ground, and space.



Geopolitics

Global conflicts (Ukraine, Taiwan) drive urgent demand for advanced, secure defense systems.



Proven Traction

Market validation via NSWC Crane CRADA, 10 LOIs, and \$412M full customer pipeline.



LVS Product Portfolio

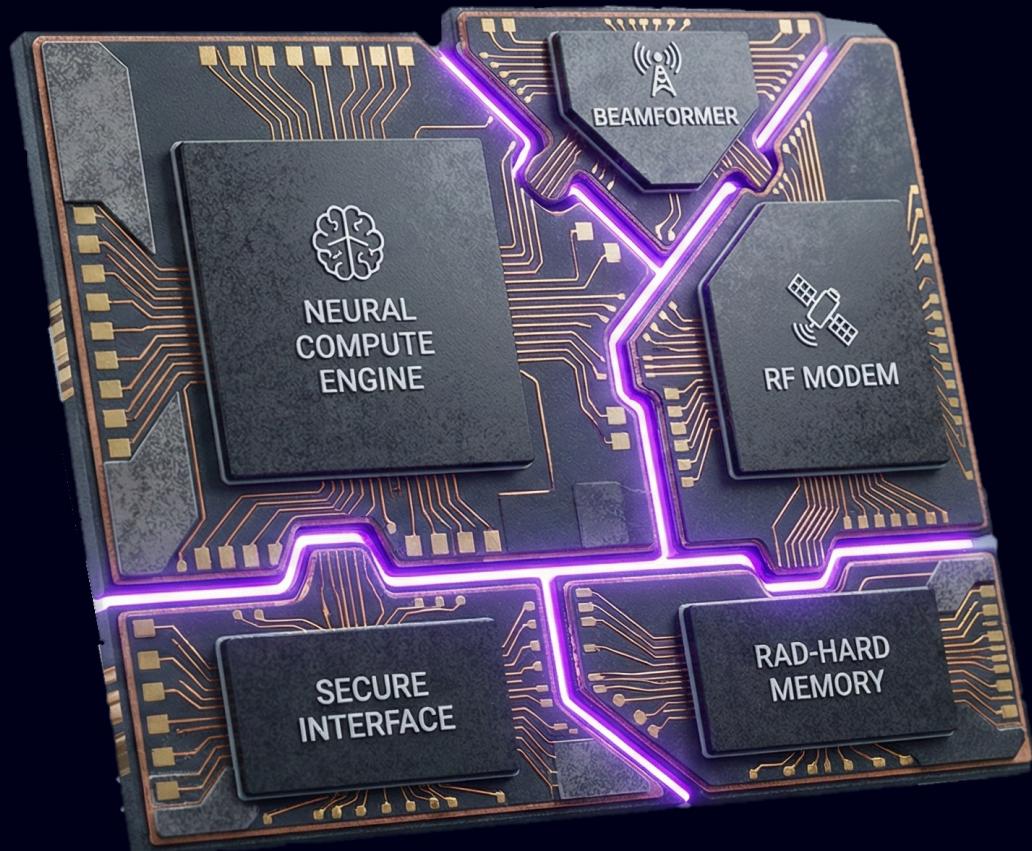
A New Standard For Electromagnetic Warfare Resilience



LVS 750

Autonomous Vehicle Chiplet SoC

- Secure V2X communication
- NPU + VDSP for sensor fusion
- Post Quantum Encryption
- SOSA compliant modular VPX Footprint



Target: Defense Contractors, Ground Vehicles



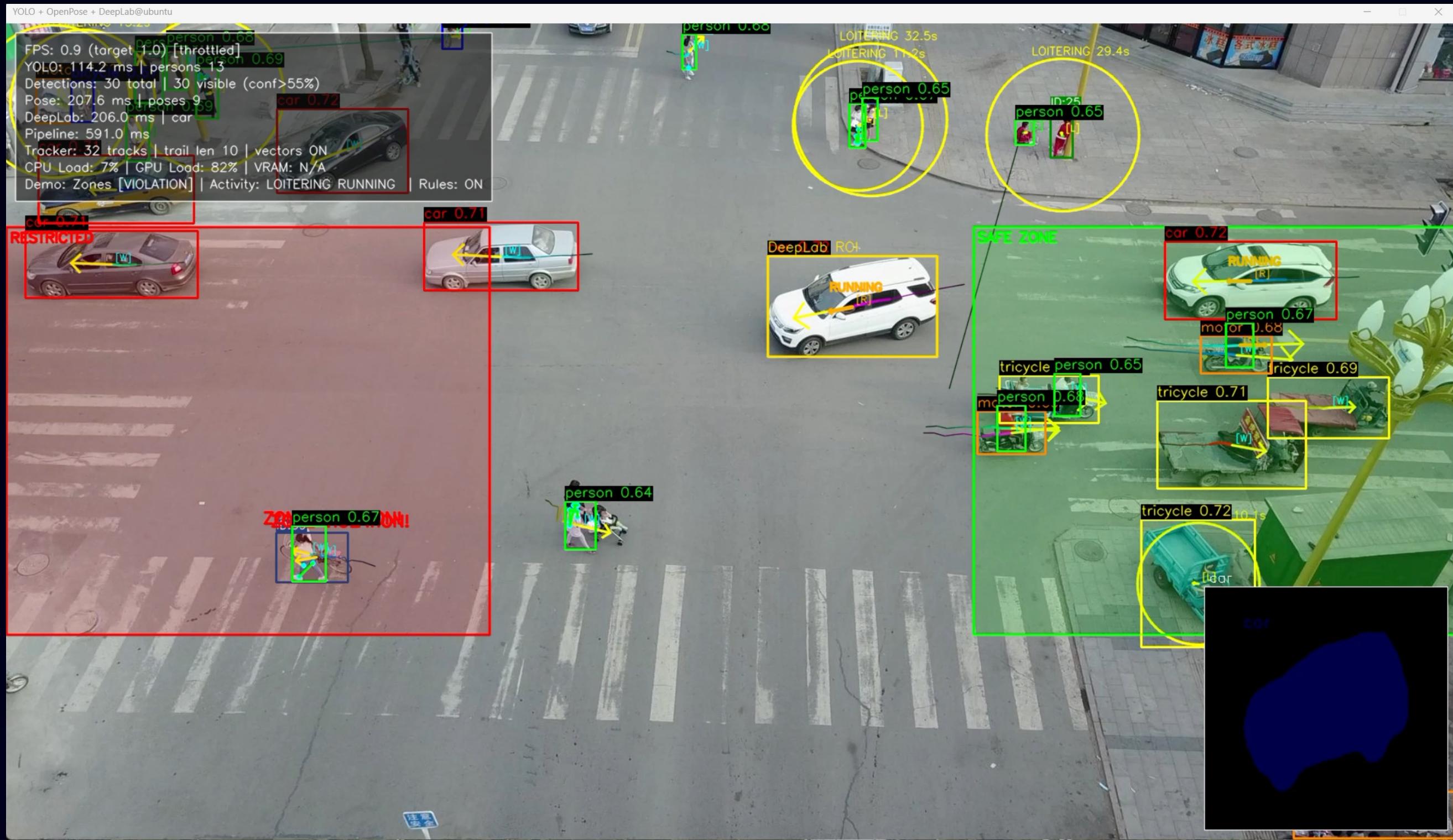
LVS 250

FPV Drone Chiplet SoC

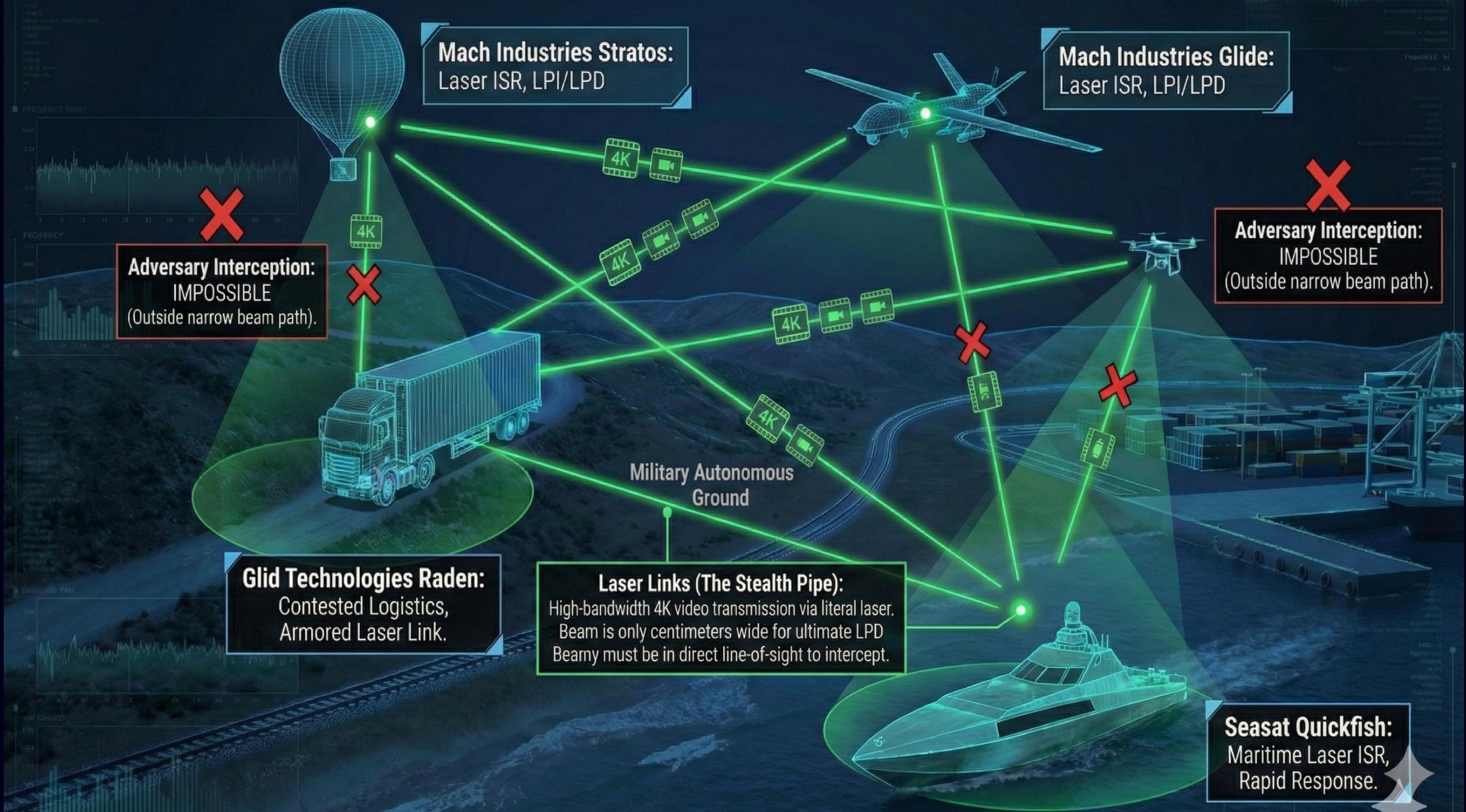
- Object Avoidance + Recognition
- MRAM for radiation resilience
- RF Jamming Mitigation
- Ultra-low SWaP optimization

Target: UAV/Drone OEMs, Critical Infrastructure

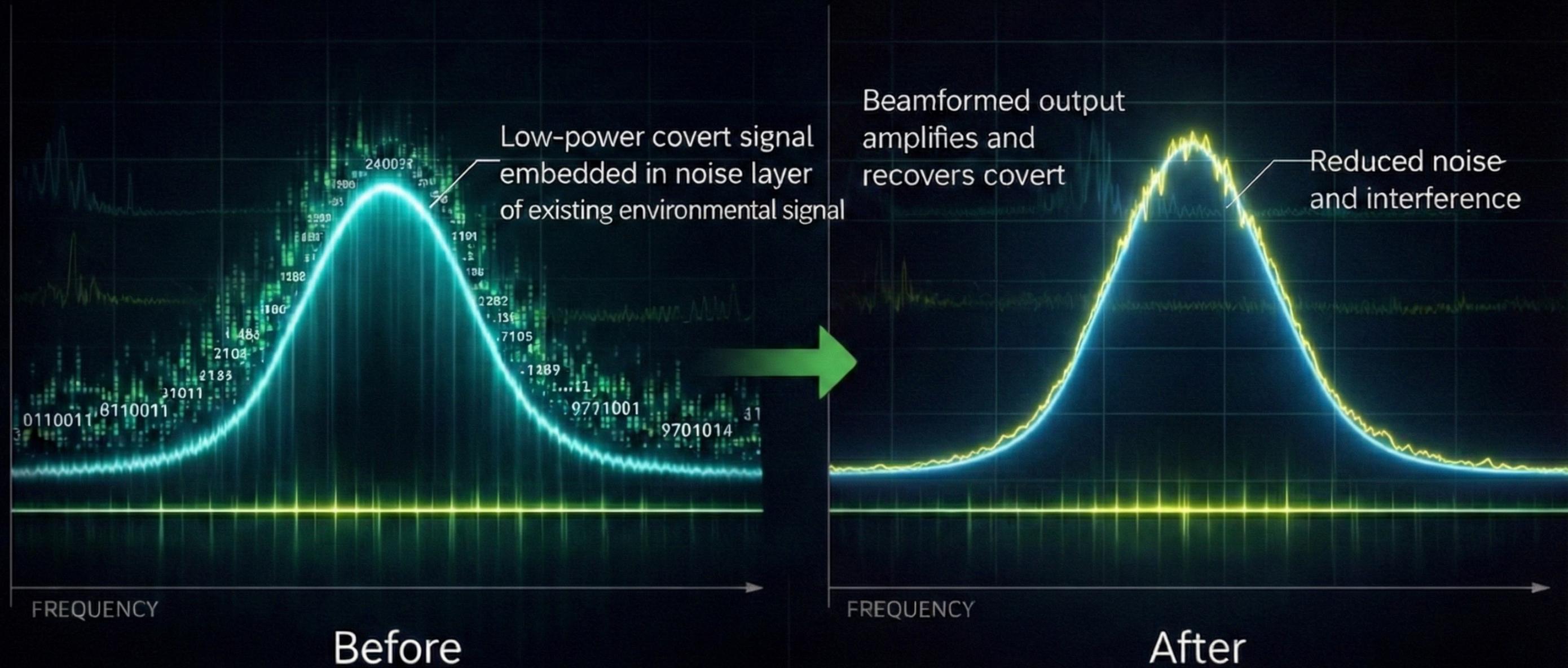
LVS Vision AI Computation – Running in Parallel (DEMO)



Multi-Domain ISR Network - Contested EW Environment



Cognitive EW: Adaptive Beamforming Enables Covert Data Injection



Lola Vision Systems Signs CRADA with NSWC Crane



Strategic Partnership

Advancing electromagnetic warfare through secure, energy-efficient AI hardware integration with radar and sensor systems.



Leadership Excellence

Dr. James Stewart named SSTM Disruptive Science & Technology for EW, leading DoD camouflage and deception innovations.



Next-Gen Capabilities

Developing expendable EW solutions for enhanced detection and tracking in contested environments.

About Lola Vision Systems:

A fabless semiconductor company designing AI system-on-chiplets (SoCs) for autonomous machines. Our mission-critical computer vision & generative AI solutions target automotive, aerospace, and defense sectors.



LOLA VISION
SYSTEMS



Modular, Repeatable, Scalable Business Model

We Sell SoCs = System on Chiplets!

Product Revenue

Sell chiplet-integrated, custom
SOCs, SDKs, integration and services
for key verticals

Strategic Partnerships

Co-development R&D with partners for high-
margin verticals (defense primes, OEMs, and
research hubs)

IP Licensing

Licensing of pre-verified chiplet libraries
which includes access to our 3rd party
IP vendor network

Chiplet Configuration Platform

Platform licensing and recurring
software/services revenue for tool that auto-
generates custom SoC Designs

Competitive Moat & Traction

We have moved beyond potential into validated execution with deep government access and proprietary technology.



Defense & Semiconductor Partnerships

Raytheon - Active integration partner for Microelectronics Commons Hub
GlobalFoundries – Silicon Fabrication Partner (Malta, NY)
AMD, Synopsys, ARM & Arteris – Silicon IP & Development Kit Partners



NSWC Crane CRADA

4-year Collaborative Research and Development Agreement ensuring deep government access and best in class Cognitive EW capabilities



10 Active Letters of Interest

Including Anduril Industries, Glid Technologies, General Hypersonics, Esper Satellite Imagery, and Orb Aerospace.



3 Patents Filed

Intelligent Chiplet Configuration System;
Thermally-Adaptive Neural-Processing Architecture;
Federated Continuous Learning for EW-Resilient Autonomous Systems

Recent Recognition

- **InvestFest Pitch Competition**

Top Winner (\$125,000) – From Open Opportunity Fund

- **Plug and Play & Capital Factory**

Aerospace & Defense Programs

- **Space Tank Pitch Competition**

New Age & Space Cowboy Competition Winner

- **LVS Fellowship**

Talent pipeline with Purdue, GWU, Penn State, Georgia Tech

Why LVS Is Different

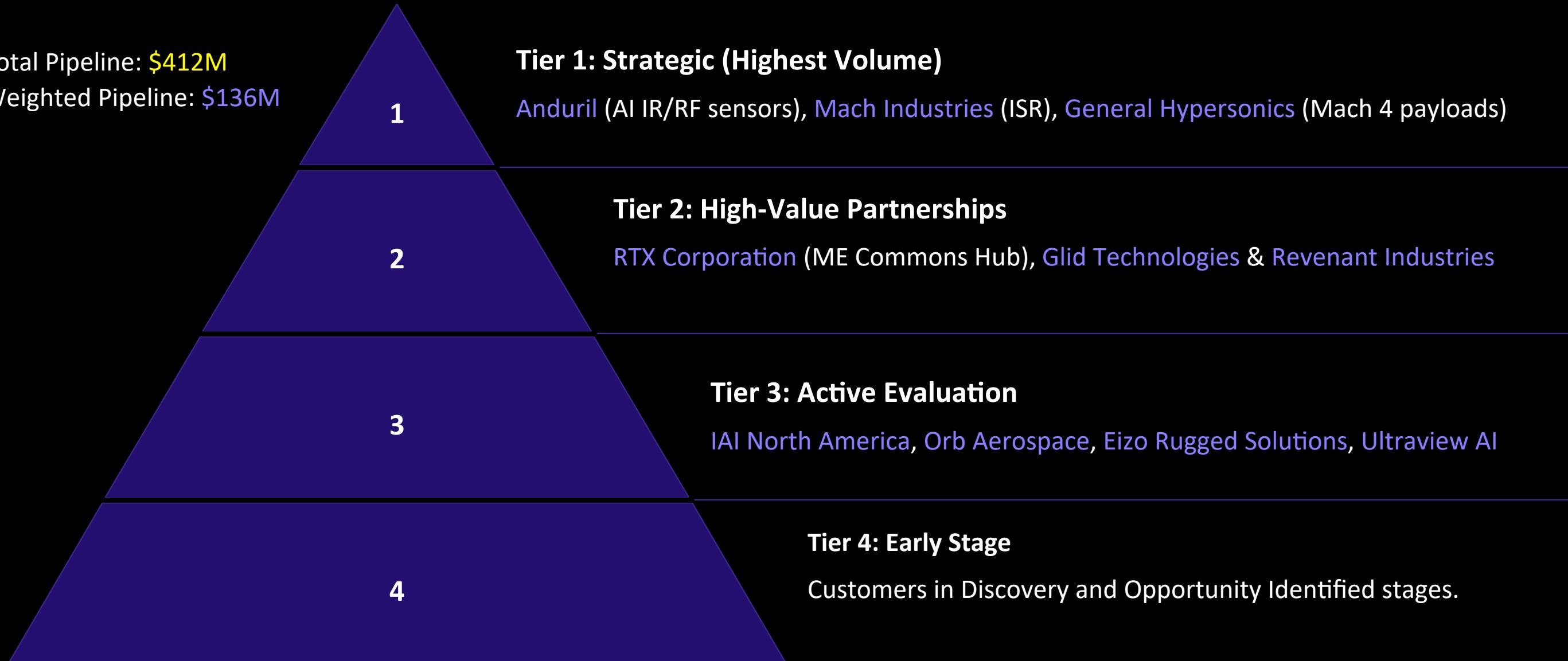
| Feature | Traditional GPU | LVS NPU Chiplet | Neuromorphic Chip | FPGA |
|-------------------------|-----------------|-----------------|-------------------|------|
| Training Compatibility | ✓ | ✓ | ✗ | ⚠ |
| Modular Compute Fabric | ✗ | ✓ | ✗ | ✓ |
| Real-Time Inference | ⚠ | ✓ | ✓ | ⚠ |
| Reconfigurable Logic | ✗ | ✓ | ⚠ | ✓ |
| Mission-Ready Packaging | ✗ | ✓ | ✗ | ✗ |

"Only LVS delivers reconfigurable, mission-grade AI performance without compromising power or accuracy."

22+ Active Opportunities Segmented by Priority

Total Pipeline: \$412M

Weighted Pipeline: \$136M



| OEM Partner | TRL | Capability | Secret Sauce |
|----------------------------|-----|--|---|
| Koniku | 9 | Bioelectronic chemical detection for security checkpoints & CBRN | High scent accuracy in handheld device |
| Anduril | 8 | MWIR/LWIR ISR & counter-UAS sensor systems | See 200km+ within 200W AI compute power budget |
| Mach Industries | 6+ | Multi-modal AI drones at reduced power consumption | \$10k ISR drones w/ LPI/LPD and onboard autonomy |
| Glid Technologies | 6+ | Multimodal transport (port → rail → road) | Container from ship to rail to road with 2 people |
| General Hypersonics | 5 | Hypersonic payloads (Mach 4+ containerized launch) | Co-creating intelligent payload launched Mach 4 |
| Revenant Industries | 5 | Cognitive EW for drone deception & chaos | Deception & decoy drones primed for EW |

Anduril Industries | Multi-Program IRAD Opportunity

□ Anduril Industries: A \$30.5B defense AI leader with \$2.5B raised, specializing in autonomous systems and advanced sensors.

Program & Engagement



Use Case

Scalable IR image processing for LWIR / MWIR / SWIR payloads, enabling advanced autonomy and Intelligence, Surveillance, and Reconnaissance (ISR).



Why This Matters

- Massive strategic funding validates defense AI and systems footprint.
- IRAD funds early integration risk for high-value payloads.
- Provides broad reuse across multiple internal programs.



Engagement Status

A 9-month IRAD (Internal Research and Development) project **quoted** across 3 phases, with a key deliverable of module power reduction from 300W to less than 150W.

Economics of Scale

5K–50K

Units / Year

Expected unit volume at scale, growing from initial 5–10 units to 100–300 in pilot phases.

\$1.5K–\$2K

Average Selling Price

Competitive ASP for our advanced chiplet solutions in defense applications.

\$650K

Non-Recurring Engineering

Initial NRE investment to facilitate bespoke integrations and platform optimization.

~65%+

Gross Margin

Anticipated gross margin at scale, improving from ~45% in early stages.

LOLA VISION SYSTEMS

LVS-100 to LVS-250 Production Roadmap

MPW1443 - Shuttle Wafer Run | GlobalFoundries 12LP+ | Updated January 28, 2026

RTL + IP INTEGRATION

Feb 2026

Completing for both LVS-100 and LVS-250

In Progress since Jul 2025

DRC CUTOFF DATE

May 14, 2026

Final DRC/LVS signoff deadline for MPW1443

Critical Milestone

BARE DIE SHIP

Mid-Oct 2026

LVS-100 validation silicon arrives (11x11mm)

~78 TOPS | NPU + ARM CPU + VDSP + tRoot HSM

LVS-250 PRODUCTION

Q2-Q3 2027

Full production tapeout target (~35x35mm)

~230 TOPS | 5-chiplet UCIe 2.0 | LPDDR5

Financing Timeline

Techstars Demo Day
\$120K
Jun 2024

→
IAI North America
\$100K
Dec 2024

→
Grant Park Ventures
\$25K

→
A16z Scout (Andrew Cote)
\$20K
Mar 2025

→
Open Opportunity Fund + EYL
\$125K
Aug 2025 (Invest Fest Pitch Win)

→
Angel Investments
\$125K
2024-2025

TOTAL RAISED: \$515K

→
Seed Round
\$5M Target
Jan - Mar 2026

→
Series A
Q1/Q2 2027
Prep: Oct 2026

The Investment Opportunity

Ask: \$5M Seed

- **\$2M Team Expansion:** 12-month runway for Program Managers, Safety Director, Gov relations, Compiler Engineers.
- **\$3M Product:** Tape-out test chips, dev kits, and SDK to enable customer volume purchases.

Value Beyond Capital

We seek strategic introductions to:

- Series A+ potential supporters
- DoD Leadership (OUSD R&E, OUSD A&S)
- Military Commands & Labs (AFRL, INDOPACOM)
- Innovation Units (DIU)

Market Timing

Critical DoD priority, multi-billion dollar TAM, Cognitive EW convergence.

Traction

Navy CRADA, 10 LOIs, 3 patents, \$412M in customer pipeline

Clear Return (42-105x)

\$5M seed → \$40M Series A → \$400M Rev → \$4B+ Exit



Our Partners

SYNOPSYS®



Perspective Developers

Carbice

GlobalFoundries™

ESPRE TECHNOLOGIES

**REVENANT
INDUSTRIES**

ESI
Electro Soft INC.

NAVSEA
WARFARE CENTERS
CRANE

KONIKU®

tsmc

**EVERSPIN®
TECHNOLOGIES**



"[LVS] has unique capabilities addressing critical challenges in contested RF environments."

**Dr. James Stewart,
NSWC Crane Division**

4-year CRADA Principal Investigator
Senior Scientific Technical Manager (SSTM) for Electromagnetic Spectrum (EMS) in Camouflage, Concealment, and Deception (CCD)



Unlocking high-margin, mission-critical markets with modular AI solutions.

Empowering innovation at the edge—faster, smarter, and more adaptable than ever.

Let's Connect!

Tayo Adesanya, Founder / CEO
Defense systems, AI architecture, chip design

tayo@lolavisionsystems.com

