

ADHERE GEAR

The Smarter, Safer, and Sustainable Alternative to HYPERSCALE

Building the physical infrastructure layer for edge AI

Investment Deck

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The Problem:

Hyperscale has reached its limit.

Hyperscale Energy Bloat

Multi-year grid upgrades +
excessive power.

Slow Timelines

3–4+ year construction
queues with no guarantee

Sovereignty Risks

Regulated industries cannot
risk public cloud exposure.

Latency Failure

50ms+ cloud delays
break real-time AI needs



To meet current high performance
AI compute demand, the U.S.
needs to deploy 100,000 MW of
new data center infrastructure
across distributed edge networks.

**Compute
Infrastructure
has hit a major
energy wall**

The Solution

ADHERE GEAR delivers 2.5MW
factory-assembled, **liquid-cooled** modular
compute PODs that collapse traditional
3-year data center construction cycles into
30-day deployments for high-density high-
performance GPU racks with unmatched
Tier IV engineering.



Our Technology Creates

97% Reduction
in Build time & Deployment

20X Lower
latency than the Cloud

Cost 50% Less
than the Cloud



100% Sovereignty on the Edge



Our Mission

is to deliver Fully Autonomous Zero-Failure Sovereign AI Infrastructure.

Absolute Redundancy

to ensuring **99.999% uptime**

Autonomous Protection:

Integrated AI-driven IoT monitoring detects anomalies in real-time

Fault Tolerance

Fully redundant, independent pathways to guarantee no isolated hardware or utility failure can interrupt AI Workloads.



Who Requires our Technology

These sectors share a zero-tolerance mandate for latency and data exposure.
A standard 50ms cloud delay doesn't just cost money—it compromises stability and sovereignty.

Energy & Utility Infrastructure

\$212 Billion

\$1.4T in infrastructure in the US by 2033

80,000 (79k substations + 960 utility BESS)

Dual Use/Sovereign AI Government

\$140+ Billion

\$300+ Billion in infrastructure US by 2033

- 800+ US Government Centers
- 17 DOE National Laboratories
- 146 R1 Research Universities & FFRDCs

Medical Infrastructure

\$412 Billion

\$695.2 Billion for infrastructure in US by 2033, growing 38.90% CAGR

6,100 hospitals in the United States

Edge Infrastructure Market Opportunity

US Sovereign Edge:

US macro-analysis requires **20,000+ localized Tier IV AI clusters** to support localized inference for Government, Healthcare, and Utilities where data cannot route to public clouds.



Competitive Edge:

ADHERE GEAR delivers 2.5MW Superclusters 36X Faster, 20x Lower Latency, and 50% Less cost.

Metric	Hyperdata Center/ Cloud	Adhere Gear (The Smarter Alternative Solution)
Infrastructure Tier	Tier II (Stick-Built) (1N)	Tier IV (2N+1 Modular Supercluster) Fault Tolerant
Data Latency	25ms (Starlink) – 50ms+ (Cloud)	<1ms (Sub-millisecond Edge)
Deployment Time	3+ Years (12 months production)	From Raw Materials to Tier IV Infrastructure
Compute	50kW Racks	150kW+ Racks
Efficiency	PUE 1.6+	<1.2 PUE / Near-Zero Water Cooling (<0.02 WUE)



50%+ Monthly Cost Reduction for Enterprise AI Workloads

Adhere Gear VS Cloud Hyperscale Computing

Financial Category	ADHERE GEAR Infrastructure as a Service Model	Cloud Infrastructure Providers
Market rate in Cloud	\$0M	\$1.84M/ Month (\$460k/ Rack/Month for NVIDIA Blackwell NVL72 rack contains 72 B200 GPUs)
Opex	\$2M/ Month	\$0M
Cloud and Data Egress Fees (300 TB Internet Egress)	\$0 (Absorbed by our OpEx)	\$16.5K/Month
2 PB Lustre SSD Storage Tier	\$0 (Included in OpEx Cost)	\$280k/Month (\$0.14 per GB/month. X 2M gigabytes)
NAT Gateway Processing Fees (The Security Surcharge) Cross-AZ Networking Traffic	\$0M (Internal OpEx Cost)	\$50K/Month (5,000,000\text{GB} x \$0.01)
API Bill, AI Model access/Compute	\$0M (open-weights or custom-trained models)	Input: 300B Tokens × \$5(per 1M input tokens) = \$1,500,000/month
Token Access		Output: 150B Tokens × \$15 (per 1M input tokens) = \$2,250,000/month
		API Total: \$3.75M/ Month
TOTAL MONTHLY SPEND	\$2M/ Month	\$5.936M / Month

Infrastructure-as-a-Service (IaaS)

Layer	Monthly Revenue	Annual Revenue (ARR)	Role / Responsibility
Infrastructure Lease	\$1.4M	\$16.8M	ADHERE GEAR: Asset Ownership
Managed O&M & Software Fee	\$600K	\$7.2M	ADHERE GEAR: Autonomous Maintenance
Total Direct Yield	\$2.0M	\$24M	Total Adhere Gear Yield.

ADHERE GEAR captures a predictable 32% EBITDA yields while insulating the portfolio from retail churn and operational labor costs.

Competition

Feature / Metric	ADHERE GEAR	ARMADA	Crusoe	Runware	FlexNode	Metrobloks	Submer	Eaton	Schneider Electric
Uptime	Tier IV 2N+1, Fault Tolerant	Tier II, Tier III 1N	Tier II, Tier III 1N	Tier II / Tier III 1N	Tier III 1N	Tier III	Tier III	Tier II-Tier IV	Tier II- Tier IV
Engineering									
Business Model	IaaS Service Lease	Direct Purchase	IaaS	Modular IaaS	IaaS	IaaS	Direct Purchase	Direct Purchase	Direct Purchase
Connectivity	100% Sovereign, Air Gapped	Not Sovereign	Not Sovereign	Not Sovereign	Not Sovereign	Not Sovereign	Not Sovereign	Not Sovereign	Not Sovereign
Manufacturing	Internal Mass Industrial Manufacturing	Partnered with Johnston Controls / Silent-Aire	Internal Mass Industrial Manufacturing	Modular Container Prefabrication	Prefabricated Modular Partners	Regional Commercial Construction	Internal & OEM Partner Assembly	Internal Mass Industrial Manufacturing	Internal Mass Industrial Manufacturing
Rack Density	150kW to 250kW+	~100kW Max	~100kW Max	140kW max (Up to 1MW container)	100kW-120kW Max	40kW-100kW Max	100kW Max	30kW-60kW Max	50kW-100kW Max
Speed of Production	1 Month	3-6 Month	3-6 Months	6 Months	6-9 Months	12-18 Months	5 Months	24-48 Months	24-48 Months

Traction & Engineering Readiness

Category		Current Status & Execution Readiness
	Production & Fabrication Facility Engineering	LOD-300 Level Engineering Plans MEP and Pre-Permit Coordination Digital Twin Model completed for the Fully Automated 15MW off-grid autonomous fabrication facility engineered by the ADHERE GEAR TEAM.
	IaaS Infrastructure	Customer-facing lease agreements MLA, SLA, and SOW for 2.5MW Assets are completed.
	CMP, CBA, and CBP	Comprehensive Master Proposal (CMP) + Benefits Agreement Proposal (CBA) and the Community Benefits Plan (CBP) completed and ready to be paired with Master Developer Agreement (MDA).
	Modular AI Compute Infrastructure POD Engineering	LOD-300 Level Engineering Design Sets MEP and Civil and Pre-Permit Digital Twin Model completed for the 2.5MW–7.5MW Max Modular AI Infrastructure PODs engineered by the ADHERE GEAR TEAM.
	Modular Infrastructure Software	Proprietary EVA AI and Facilities Architect and Operations Software for monitoring infrastructure systems is built and fully operational.

\$10M Seed: Path to Series A & Shovel-Ready Status

*We are raising a **\$10M Project Development Seed** to secure our primary site, finalized permit certified digital twins and shovel-ready construction blueprints for both the factory and POD infrastructure, and deploy a operational reduced-compute MVP.*

Target Horizon: 18–24 Month Runway to Reach Shovel-Ready Status

Key Value Outcomes Delivered:

- **Site Control & Grid Interconnection:** Primary site option secured with municipal & utility approvals.
- **Tier IV Design Certification:** Permit ready LOD-400 Digital Twin and simulated factory physics complete.
- **Operational MVP Pod:** Reduced-compute hardware pod deployed for customer validation. Deployment



\$10M

Leadership/Founders

We sit at the rare intersection of full-stack software, hardware, and heavy engineering construction—speaking Python, hardware, and bare metal natively.

Jason Bettineski,
Co-Founder, CIO

25 Years

AI, Full Stack Software Development, Cyber Security. Server management.

Robert Buchanan,
Founder, CEO

20 Years

Deep-tech systems engineer with extensive background on teams delivering 200+ commercial and industrial construction projects totaling \$10B+ in aggregate asset value. Completed 4 Year Graduate program in Design, Construction and Planning (UF). Micro data center buildouts and systems engineering.

James Ward,
Co-Founder, CTO

35 Years

AI, ML, Solutions Architecture, Full Stack Developer, Hardware, Firmware Developer. Server and data center build outs/ IT Maintenance.

EDUCATION

UF UNIVERSITY of FLORIDA

 **Portland State**
UNIVERSITY

ADHERE

GEAR

EMBRY-RIDDLE
Aeronautical University

DENISON
UNIVERSITY

WORK EXPERIENCE



Disney



HYATT
HOTELS & RESORTS

BEYER
BLINDER
BELLE

a[®]dec

FedEx®



BUSINESS ALUMNI



 **Telefónica**

techstars_

 **CREATIVE LAB**
DESTRUCTION



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