ARC

Autonomous Resource Corporation

Accelerating U.S. Materials Innovation through AI-Driven Manufacturing

Genesis Launch Partner | ORNL (Oak Ridge National Laboratory)
Exclusive Commercialization Partner for Oak Ridge National Laboratory

INVESTOR DECK 2026 | CONFIDENTIAL

The 12-18 Month Strategic Imperative

Inter

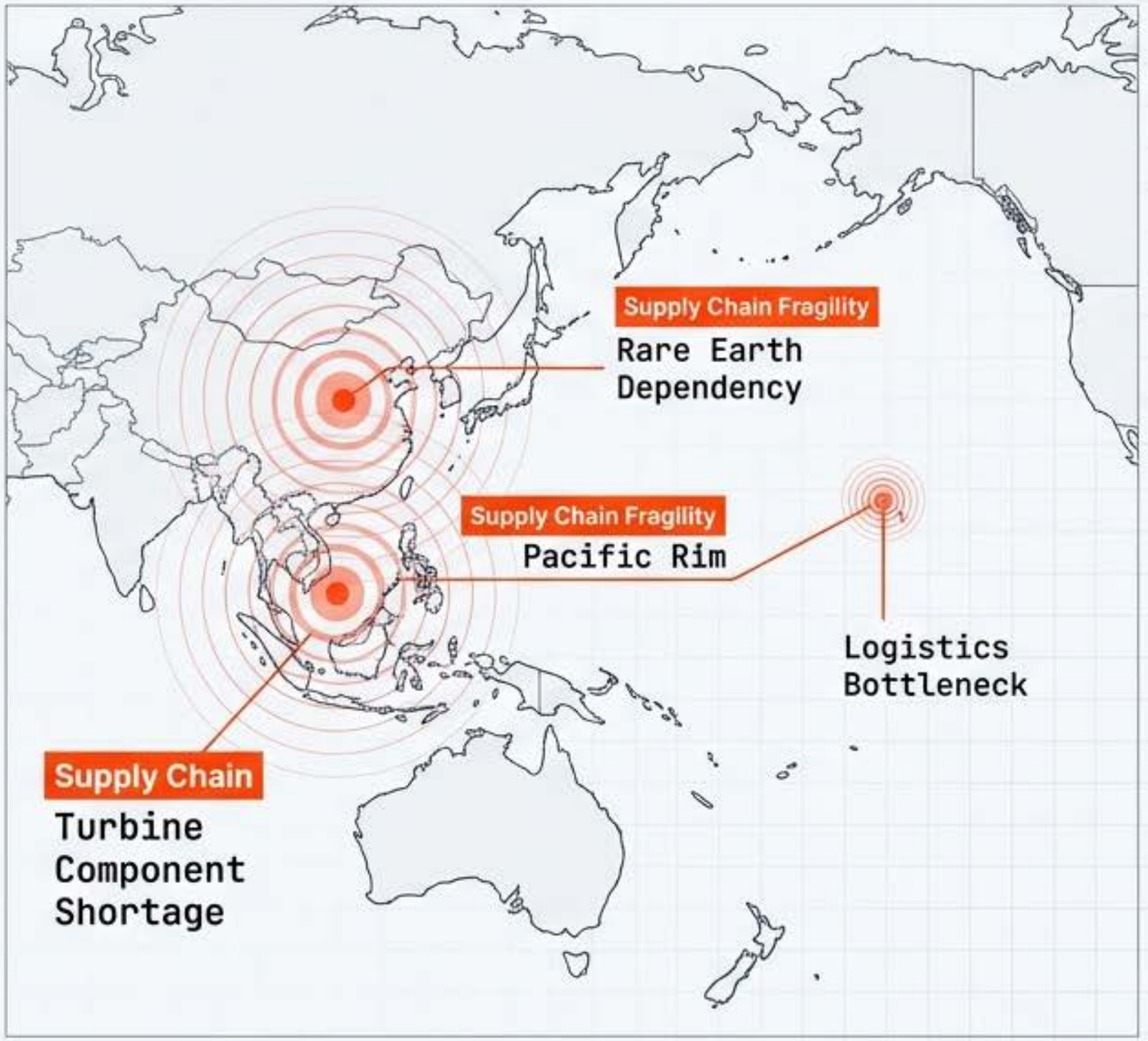
Core Assertion: U.S. defense planners are preparing for potential conflict in the Pacific within 12-18 months. Current manufacturing capacity cannot meet wartime demand.

Strategic Vulnerability: Fragile supply chains for guidance magnets, turbine blades, and reactor alloys leave the U.S. exposed.

Production Bottleneck: The U.S. lacks domestic capacity to surge production for missiles, drones, and weapons.

Slow Innovation Cycle: Traditional material discovery-to-qualification takes decades—too slow for the current threat environment.

“Strategic decisions made now determine readiness for the next decade.”



The Bottleneck: We Cannot Fight a Modern War with Legacy Cycles

Traditional Timeline

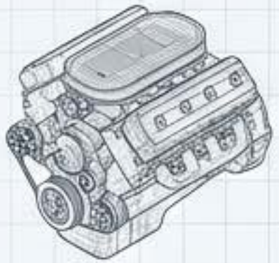
Discovery (3 Years)	Qualification (5–7 Years)	Production Scale-up (2 Years)	10+ Years

Required Timeline

Integrated Discovery & Production — <1 Year

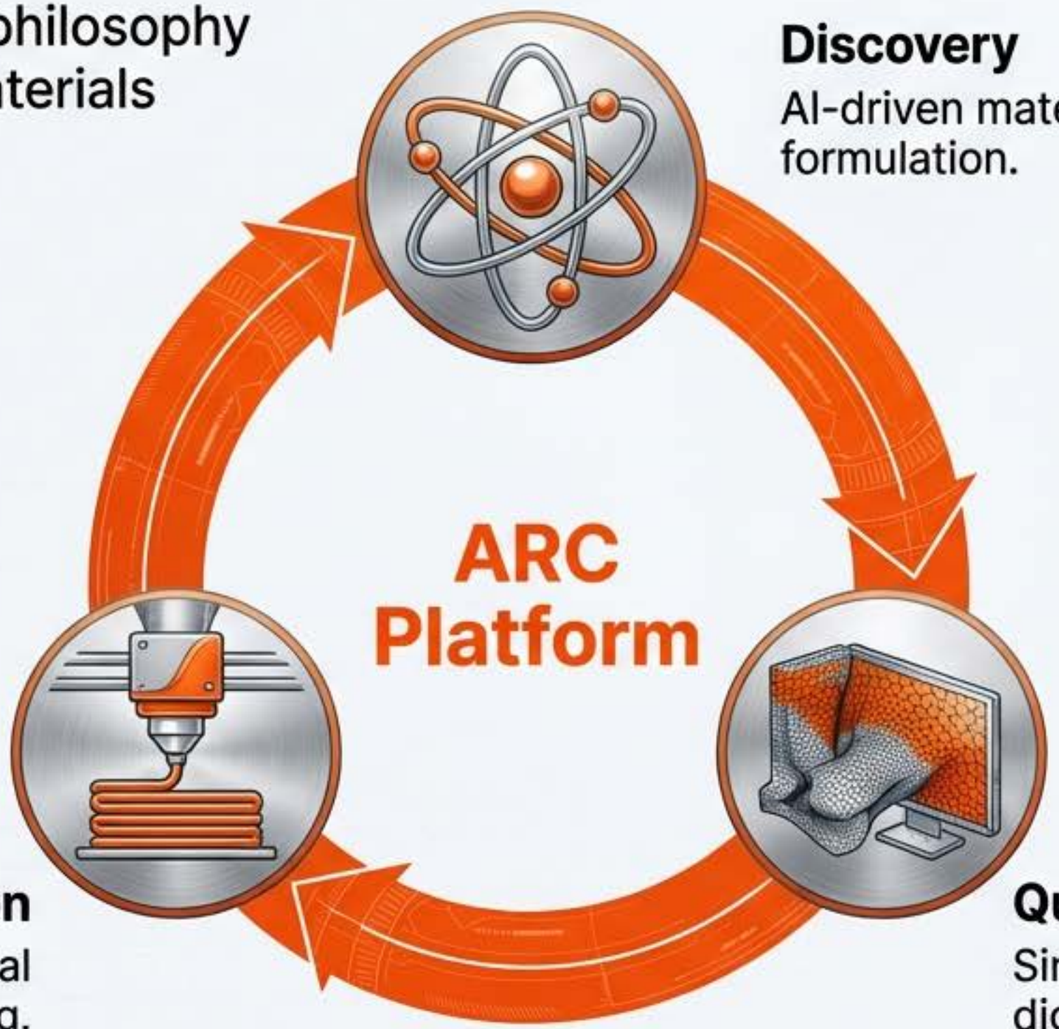
The gap between **digital design** and physical production is the **single biggest vulnerability** in the **national defense** stack. — JetBrains Mono.

Specific Pain Point: Critical components like rare-earth magnets are central to this crisis; current processes cannot adapt fast enough to replace foreign supply chains.



The Solution: The ‘AI-to-Atom’ Platform

The SpaceX philosophy applied to materials science.



Discovery
AI-driven material formulation.

Qualification
Simulation and digital twins.

Production
Industrial Binder-Jetting.

Value Proposition: ARC compresses **10 years** of R&D into a **single year**.

The Product: The Platform Is the Service. It is not just machines; it is a system that parallelizes discovery, qualification, and production.

We close the loop between digital models and physical fabrication to launch products, not just prototypes.

Moat I: The Genesis Partnership & Exascale Compute

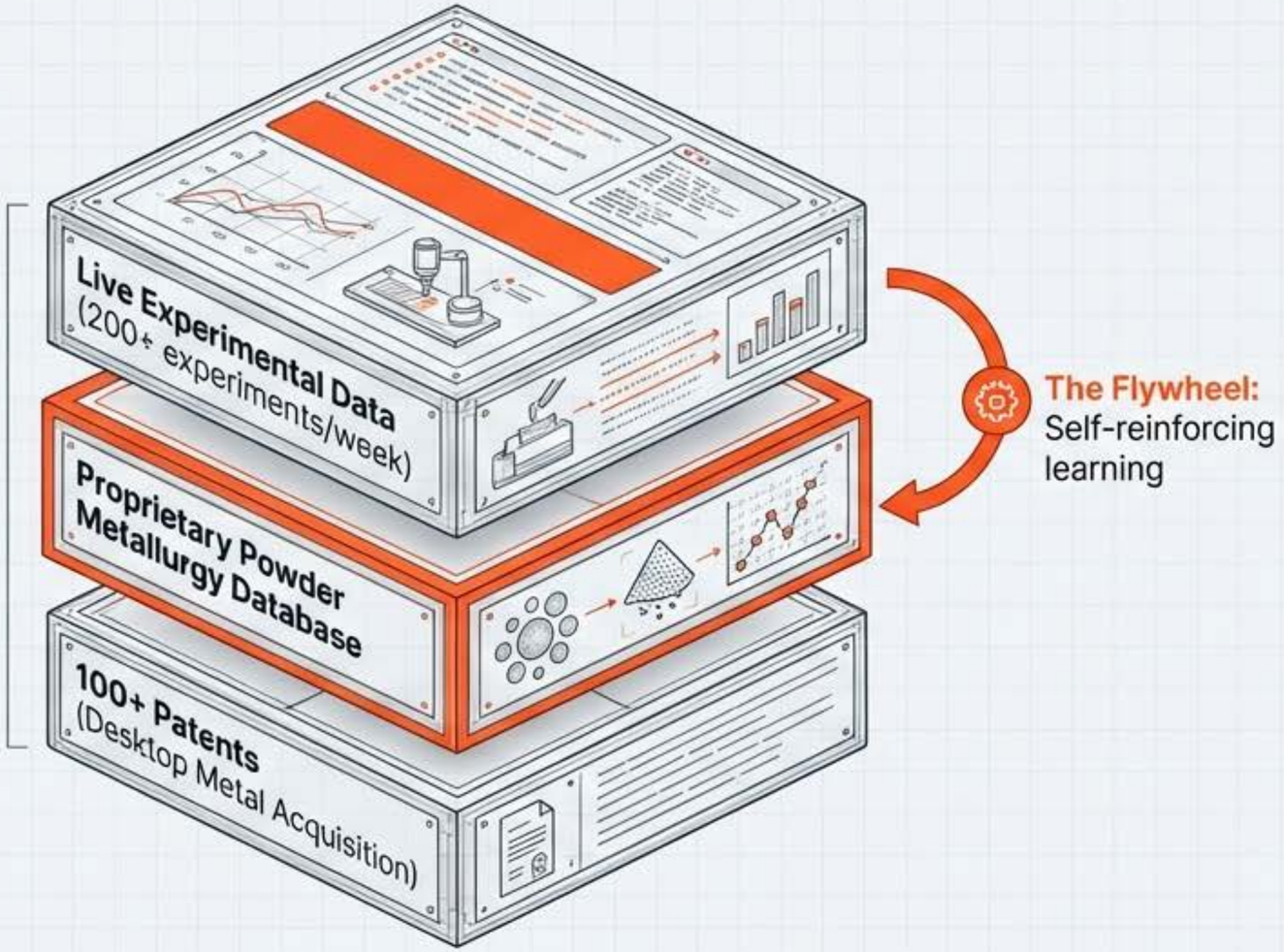
ORNL Genesis Partnership: ARC is the *exclusive* commercial launch partner for Oak Ridge National Laboratory's manufacturing AI.

The Advantage: No competitor has equivalent computational resources for materials discovery.

Technical Moat: Integration with ORNL's INTERSECT architecture creates a unique barrier to entry.

```
Compute Scale: Exascale (10^18 ops/sec)
```

Moat II: Proprietary Data & Intellectual Property



The Data Advantage: 10+ years of Desktop Metal R&D data + AI-generated experimental data.

Specific Asset: A one-of-a-kind proprietary powder metallurgy database—**irreplaceable feedstock for AI training.**

IP Portfolio: Covering binder jetting, materials, and sintering.

Insight: AI is only as good as its data. **ARC owns the physics-based ground truth.**

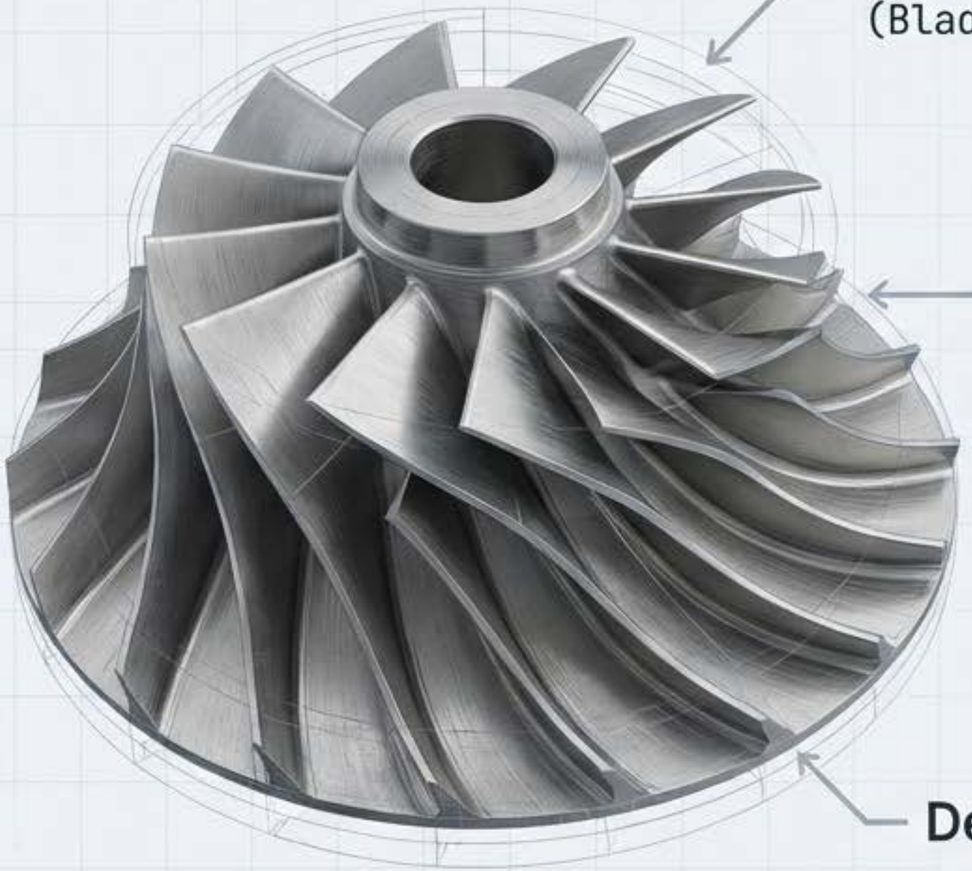
Execution Readiness: We Are Ready Day 1

Capability: Industrial Scale Production via Binder-Jetting.

Key Takeaway:
Immediate production capability enables rapid scale-up without years of capital expenditure.

We are not starting from scratch. Hardware risk is removed.

Proven in Defense: The Autonomous Supply Chain



Context:

Mass-producible defense systems (e.g., Anduril's Barracuda-M) require high-volume propulsion components.

The ARC Solution:

ARC is the **only** domestic provider capable of high-volume MAR-M 247 blisk production.

Economics:

Unit economics of **~$2,500** per part with premium margins.

Validation:

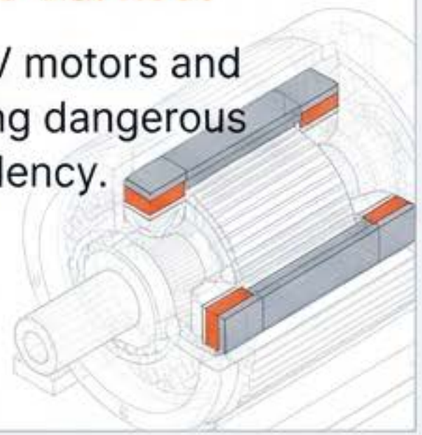
Exceeding cast baseline properties.

High-Value Beachhead Markets

Rare-Earth-Free Magnets

`$20B+ global market.`

Essential for EV motors and defense. Solving dangerous foreign dependency.



Turbine Superalloys

`The Blisk market.`

High-temperature coatings for aerospace and propulsion.

SMR Materials

`Small Modular Reactors.`

Enabling energy security with domestic components.

Total Market: Multi-Billion $ TAM aligned with U.S. national strategic spend.

Revenue Strategy: From Service to Platform

Phase 1: Services (Near-Term)

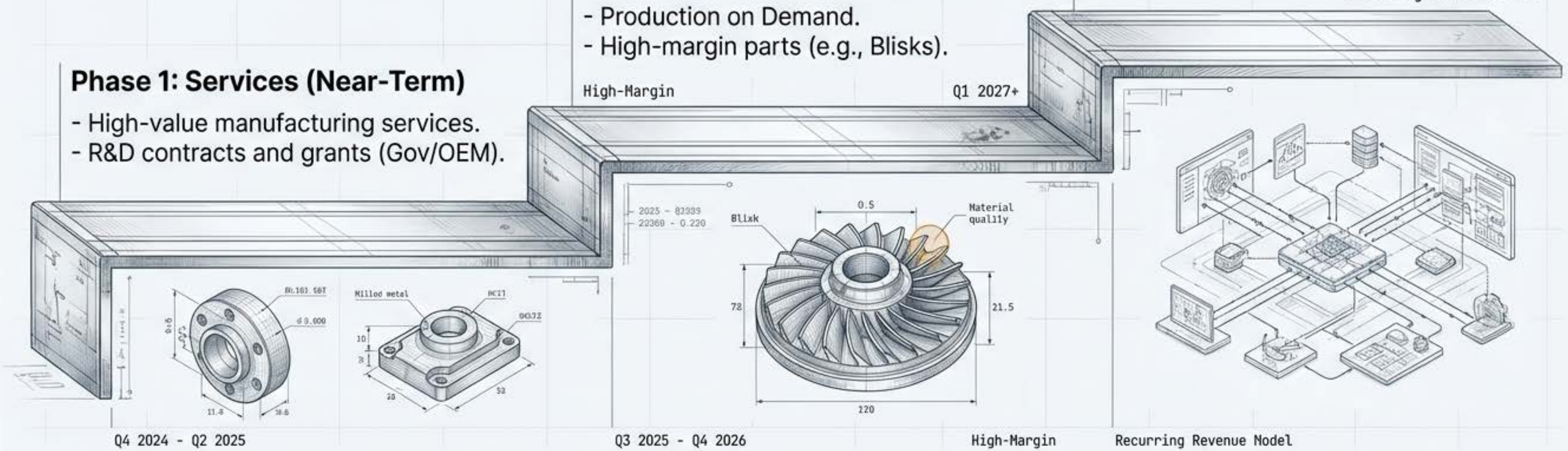
- High-value manufacturing services.
- R&D contracts and grants (Gov/OEM).

Phase 2: Production (Mid-Term)

- Production on Demand.
- High-margin parts (e.g., Blisks).

Phase 3: Licensing (Long-Term)

- ARCNet + ADAM as a Service.
- Recurring revenue via enterprise subscriptions.



Q4 2024 - Q2 2025 | Q3 2025 - Q4 2026 | Q1 2027+

High-Margin | Recurring Revenue Model

Recurring Revenue Model

Expanding the national “nervous system” for industrial AI.

Precision Industrial Editorial

24-Month Execution Roadmap (2026-2027)

Q1 2026

Mid-2026

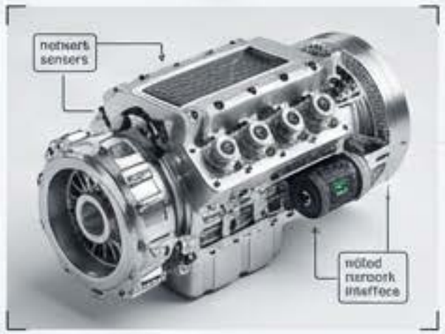
Late 2026

2027

Future Growth & Integration

Genesis Demo

Lighthouse validation for DOE; focus on nuclear component benchmarks.

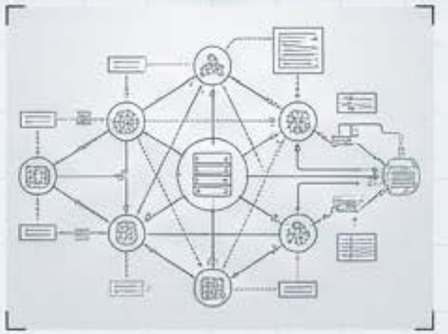


ADAM Deployment

Full pilot deployment at ORNL; integration of Frontier supercomputing.

Magnet Breakthrough

10x reduction in development time for rare-earth-free permanent magnets.



ARCNet Scale-Up

Expansion to 100+ nodes nationwide; qualification of first SMR components.

Future Growth & Integration

JetBrains Mono with JetBrains Mono details

Roadmap aligned with National Strategic Objectives. Status: ON TRACK.

Leadership & Technical Expertise

Bryan Wisk

CEO & Founder

- 20+ years in global capital markets.
- Expert in risk management and strategic finance.

Paul Adams

President & Co-Founder

- Former Head of Morgan Stanley Healthcare Services M&A.
- Led **$100B+** in M&A deals.

Dr. Leo Christodoulou

Chief Technologist

- Former Boeing Chief Technologist and Director of DOE Advanced Manufacturing Office.
- DARPA veteran.

`Technical Org: Lean, senior-heavy engineering team (60% Senior/Staff) leveraging AI tooling.`

The Ask: $70M Seed Round

Use of Funds:

- **Equipment Integration:** Upgrading **Desktop Metal infrastructure**.
- **Talent:** Hiring **15–20 top-tier engineers** and materials scientists.
- **Deployment:** **ARCNet pilot nodes** and **ADAM platform at ORNL**.
- **Operations:** **Genesis partnership milestones**.

Runway: 18-24 months.

Target: Capitalizing the infrastructure to meet the 12-18 month national timeline.

Closing the window before Priced Series A.

Technical Org: Lean, senior-heavy engineering team (60% Senior/Staff) leveraging AI tooling.

Vision: The Arsenal of Democracy

"The window is closing. Decisions made today define the next decade."

Technical Appendix: Validation & Economics

Project Context

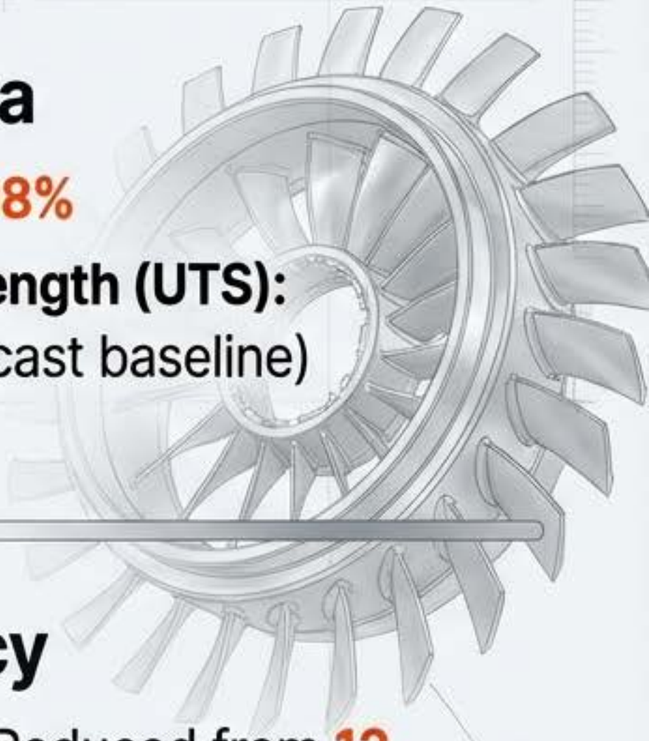
- **Subject:** Blisk Production for Anduril's Barracuda-M
- **Potential Contract Value: $100M (High-volume fulfillment 2026)**

Material Specifications

- **Alloy:** MAR-M 247 Superalloy
- **Transition:** Replaces CM-247 for superior creep resistance

Performance Data

- **Sintered Density: ≥98%**
- **Ultimate Tensile Strength (UTS): 1275 MPa** (Exceeds cast baseline)



Process Efficiency

- **Development Time:** Reduced from **12 months** to **4 months**.
- **Unit Economics: ~$2,500** per part.

Technical Org: Lean, senior-heavy engineering team (60% Senior/Staff) leveraging AI tooling.