Aegis-Class Rover Dossier – Investor Edition
Driving the Lunar Resource Frontier

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1. Executive Summary

The Aegis-Class Rover is a lunar vehicle designed to unlock the Moon's commercial value by enabling mobile, autonomous exploration and resource recovery in the most promising terrain — the lunar south pole. With long-range capability, autonomous operations, and field-tested subsystems, this platform anchors near-term opportunities in lunar water extraction and regolith mining.

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2. Investment Value Proposition

- **Lunar water is the gateway to space industry** — enabling fuel production, life support, and long-term settlement.
- **Aegis-Class Rovers can scout, access, and transport this resource** from hard-to-reach polar zones.
- Reusable and autonomous, they serve as the backbone of a scalable surface economy — and pair seamlessly with Aegis Station and RON.
- Commercial applications include: mining partnerships, lunar base resupply, orbital depot logistics, and contracted prospecting missions.

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3. Key Capabilities

- Pressurized, crew-capable vehicle with full autonomy
- Long-range sortie capacity (>300 km per charge)
- Rapid battery swap and resupply via R.O.N. base node
- Robotic arm and science tool suite for in-field operations
- EVA-ready with airlock and external suitports

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4. Technical Snapshot

Feature	Specification
Range	~300 km per sortie
Crew	2–3 astronauts
Operation Modes	Manual + Autonomous Hybrid
Reusability	100+ sorties per platform

Feature	Specification
Recharge Model	Swap-based at support node
Power	Battery + RTG survival mode

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5. Platform Integration

- **Pairs with Aegis Station** for mission coordination, fuel processing, and orbital return
- **RON (Rover Operations Node)** offers autonomous recharging and maintenance
- Built for multi-rover coordination, payload sharing, and EVA compatibility

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6. Risk Mitigation

- Leverages proven technologies from NASA, ESA, and commercial platforms
- Fully autonomous mode enables fallback operation without crew
- Modular design allows future upgrades to tools, sensors, or power

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7. Strategic Opportunity

- Aligns with NASA CLPS, Artemis Base Camp, and international lunar goals
- Enables early entry into in-situ resource utilization (ISRU) market
- Creates pathways for recurring commercial service contracts on the Moon

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8. Visual Placeholders

- [Placeholder: Exterior Profile Illustration]
- [Placeholder: Interior Layout Cutaway]
- [Placeholder: R.O.N. Base Cutaway]
- [Placeholder: Navigation Interface Mockup]

End of Investor Edition