Atlas 10-Phase Unpacking Plan — Hardware, Costs, and Team Requirements

Phase 1: Concept Validation & Founding Lab Setup

Goal: Establish the **Atlas Forge™ Lab**, the founding nucleus for the Proof-of-Entropy (POE) system and constitutional AI framework.

Hardware:

- 1 × High-end **Atlas Forge Workstation™** (AMD 7900 XTX / RTX 4090 + 64 GB RAM)
- 2–3 × Developer laptops (M-series MacBook Pro or ThinkPad Z-series)
- Cloud compute (AWS / GCP / Azure free tiers)

Estimated Cost: $25 000 – $40 000 CAD

Key Professionals: System architect, blockchain engineer, AI developer, project manager.

Phase 2: Minimum Viable App — Atlas Hive MVP™

Goal: Develop the first Atlas Hive™ mobile application to record entropy proxies (e.g., motion, steps, attention balance).

Hardware:

- 10 × Smartphones (Android + iPhone)
- **Atlas Test Node™** cloud cluster (8–16 vCPUs)

Estimated Cost: $50 000 – $80 000 CAD

Key Professionals: Mobile dev (Android / iOS), UX designer, data scientist, QA engineer.

Phase 3: Proof-of-Entropy Engine™

Goal: Design the core entropy calculation and proof-generation stack on-device and on-chain.

Hardware:

- **Atlas Entropy Core Dev Kit™** (Raspberry Pi 5, ESP32, Arduino Nano 33 BLE)
- **Entropy Test Rig™** for sensor and randomness validation.

Estimated Cost: $60 000 – $90 000 CAD

Key Professionals: Embedded systems engineer, blockchain cryptographer, data security expert, information theorist.

Phase 4: Dedicated Device Prototype — Atlas Hive Device v1™

Goal: Create the first **Atlas Hive Device™**, a wearable entropy collector with bio-sensor inputs.

Hardware:

- 3D printing / CNC service for **Hive Shell™** housing
- MEMS sensors (IMU, barometer, microphone, thermistor, light)
- BLE modules for phone sync

Estimated Cost: $100 000 – $150 000 CAD

Key Professionals: Hardware engineer, industrial designer, firmware developer, biosignal specialist.

Phase 5: Atlas Mind Server AI™

Goal: Deploy the central validation and AI ethics layer — the **Atlas Mind™** governance intelligence core.

Hardware:

- 2–3 × **Mind Core Server™** units (A100 / H100 GPUs)
- 100 TB encrypted SSD array (**AtlasVault™**)

Estimated Cost: $250 000 – $400 000 CAD

Key Professionals: AI research lead, DevOps engineer, ML ops specialist, data ethicist.

Phase 6: Network & Governance Layer

Goal: Launch the **Atlas Node Network™** and **Constitution Governance Layer™** for fractal coordination and proof auditing.

Hardware:

- 20 × Node servers (community / university partners)
- **Atlas Key Vault Modules™** for secure cryptographic signing

Estimated Cost: $80 000 – $120 000 CAD

Key Professionals: Blockchain ops engineer, security auditor, policy analyst, community liaison.

Phase 7: Hardware Manufacturing Partnerships

Goal: Mass-produce the Atlas Hive™ device line and **Atlas Peripheral Suite™**.

Hardware:

- Prototype tooling, PCB design for **Hive Board™**
- Industrial certification samples

Estimated Cost: $300 000 – $500 000 CAD

Key Professionals: Supply-chain manager, manufacturing engineer, legal counsel (IP & export compliance).

Phase 8: Atlas Ecosystem Integration

Goal: Develop the **Atlas Developer SDK™** for third-party integration with Hive and Mind.

Hardware: Standard servers + testing phones.

Estimated Cost: $100 000 CAD

Key Professionals: API developer, technical writer, partner relations manager.

Phase 9: City-Scale Pilot

Goal: Run a pilot of the **Atlas UBI Pilot Node™** across one city (~10 000 users).

Hardware: Server cluster expansion (10× nodes); IoT entropy sensors.

Estimated Cost: $1 – 2 million CAD

Key Professionals: Operations director, government liaison, sociologist, public health analyst, QA teams.

Phase 10: Global Deployment & Fractal Replication

Goal: Scale to the **Atlas Global Fractal Network™** — a planetary layer of Hives and Minds operating as one.

Hardware: > 1000 nodes; hybrid cloud / edge architecture.

Estimated Cost: $10 – 15 million CAD (over 5 years).

Key Professionals: Global governance lead, compliance officer, international partnerships director, economist, marketing lead.

Aggregate Totals

- **Total Hardware & Ops Cost:** ≈ $12 – 18 million CAD (over 5 years)
- **Core Team Growth:** 6 founders → ~120 specialists worldwide.

Summary

Each phase builds upon the previous one: software → device → infrastructure → planetary ecosystem.

Together, the Atlas Hive™, Atlas Mind™, and Atlas Forge™ form a triad of creation, computation, and coordination — a new industrial organism born from ethics, entropy, and energy.