MLNavigator + adapterOS

Governed AI Infrastructure for

High-Assurance Environments

The Governance Gap

"People want the tech, but they do not trust it yet."

– Regulated enterprise stakeholder

Opaque Runtime:
Unclear behavior makes audit evidence impossible to trust.

Network Dependency:
Cloud-tied runtimes break in air-gapped and classified networks.

Undocumented Operation:
Lack of operational records guarantees audit failure.

Cloud AI platforms trade control for convenience

Defense, critical infrastructure and healthcare orgs need control, compliance and accounting

AI you can Inspect, Govern, and Trust

adapterOS is a governed AI workspace that runs locally, operates within defined policies, and produces reviewable evidence for every operation.
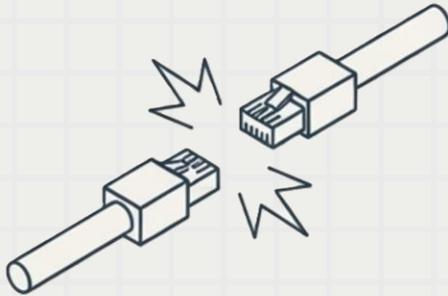

THE PERIMETER
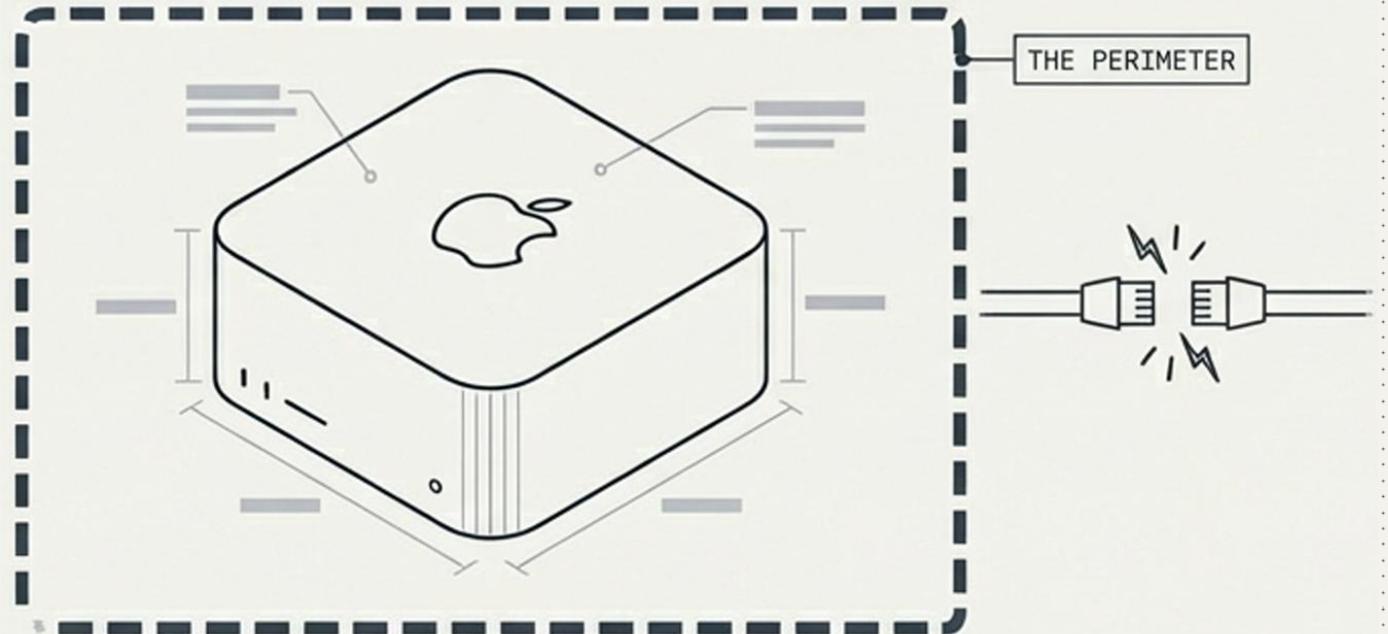
| We handle:	Customers control:
Hardware provisioning, installation and ongoing maintenance.	The operational policies, the isolated tenant environment and 100% of the data.

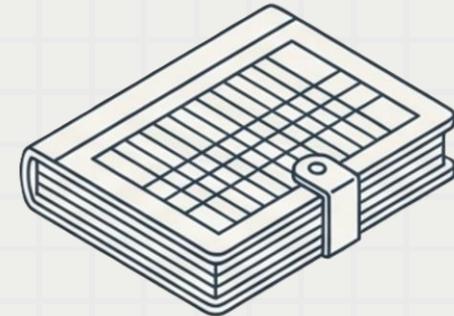# The Three Pillars of adapterOS Architecture

Local & Isolated

- Dedicated hardware in customer facility and fully air-gap compatible

- No cloud calls, no telemetry, no third-party model training

Policy Governed
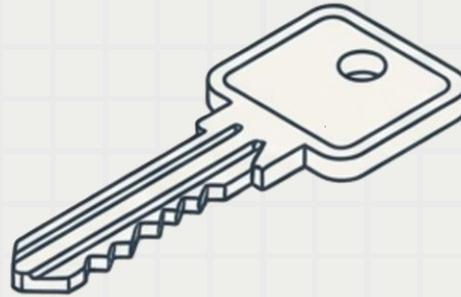
- Role-based access control

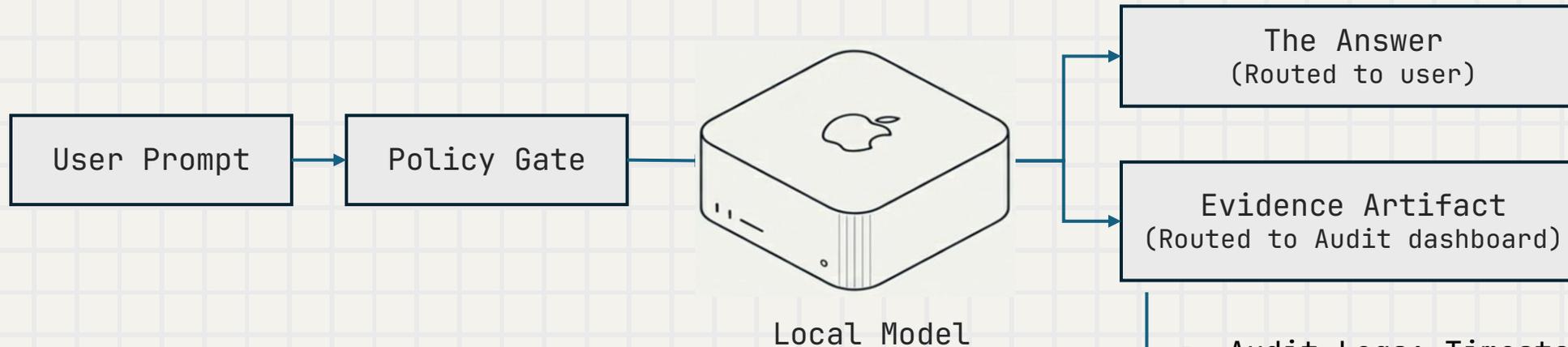- Pre-defined policy packs restrict model behavior and execution paths before activation

Reviewable Operation

- Every operations generates audit logs, signed run receipts and policy enforcement records

- This evidence layer (the "receipt) is the product

adapterOS Differentiator

Most AI systems generate answers. We generate evidence.

User Prompt → Policy Gate → Local Model

The Answer
(Routed to user)

Evidence Artifact
(Routed to Audit dashboard)

**Operational records show what ran.
Transparency unblocks accountability.**

- Audit Logs: Timestamp, user ID, specific model, exact inputs and outputs

- Signed Receipts: Cryptographically-signed records guaranteeing provenance

- SBOMs: Software Bill of Materials tracking every deployed component

- Joules-per-token: Energy-normalized benchmarking for offline compute
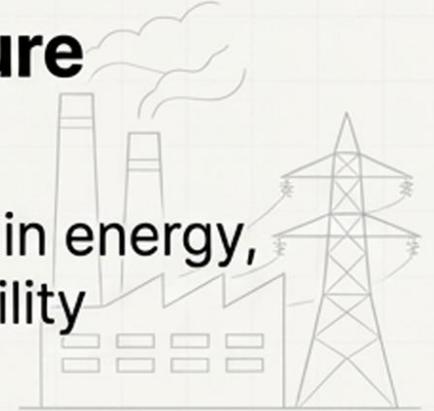
Target Markets & High Assurance Use Cases

Aerospace & Defense

Solves for ITAR, CMMC, AS9100, and strict air-gapped deployment mandates.

Critical Infrastructure

Enables offline operation in energy, transport, and isolated utility systems.

Healthcare

Aligns with HIPAA constraints for on-premise patient data search and processing.

Regulated Finance

Provides non-repudiable audit trails and model governance for compliance teams.

The Competitive Landscape

	adapterOS	Cloud Enterprise AI (e.g., OpenAI)	DIY Local Open Source
100% Data Residency	●	○	●
Air-Gap Capable	●	○	●
Cryptographic Audit Trails	●	○	○
Policy Enforcement Gates	●	◐	○
Managed Hardware & Support	●	●	○

Cloud AI fails on residency and air gaps. DIY solutions fail on auditability and governance. **adapterOS** checks every box.

Built on Research – Validated by Operators

NSF I-Corps

Conducted 50+ National Science Foundation-funded discovery interviews with security, compliance and platform stakeholders.

ACCEL-KS Grant

Proof of Concept grant to support deployment tooling and compliance documentation.

Patent Pending

Patent applications filed covering core aspects of the adapterOS managed deployment system.

Pilot Implementation Strategy

Step 1: Briefing and Planning

Qualification of capabilities , deployment model and security alignment

Step 2: Scoped Pilot (4-8 weeks)

Fixed-scope evaluation against client environment and data, provided on Apple silicon. Defined success criteria.

Step 3: Production Deployment

Qualification of capabilities , deployment model and security alignment

REVENUE MODEL: **Licensed deployment + Managed hardware + Ongoing support**

The Team

James KC Auchterlonie
Engineering & Architecture

Systems engineer focused on local-first AI, high-assurance workflows, and operational accountability.

Donella D. Cohen
Product & Operations

Digital media tech veteran, product management leader, and AI researcher.

Advisory Board
Industry Expertise

Technical Advisory Group (TAG) guiding ethics, operations and industry verticals

MLNavigator Inc. | Delaware C-corp | Headquartered in Kansas

Traction

MVP Code base: 85% complete. Refining user interface and designing test plans .

Pilot targets: Soliciting pilot customers in maintenance, repair and operations (MRO) companies, and dental and optometry practices.

Funding: National Science Foundation and ACCEL-KS grants have funded research and development to date.

Patent: Patent application filed for core system components. Multiple patent opportunities exist, but require funding to file.

Contributors: Expanding Technical Advisor Group, seeking additional data science and IT security expertise.

The Investment Opportunity

Target Round: Pre-Seed $1.5M – 3M

Accelerating Offline AI Infrastructure

Capitalizes on first-to-market advantage with a governance-first local AI appliance, protected by pending patents.

## Use of Funds

Hardware Staging
Procuring dedicated Apple silicon nodes to accelerate scoped pilot pipeline

Compliance Mapping
Scaling documentation to align seamlessly with CMMC, SOC 2 and AS9100 audit workflows

Deployment Tooling
Expanding automated provisioning for air-gapped client environments

Hardware 20%

R&D 20%

Patents 10%

Commercialization Operations 50%
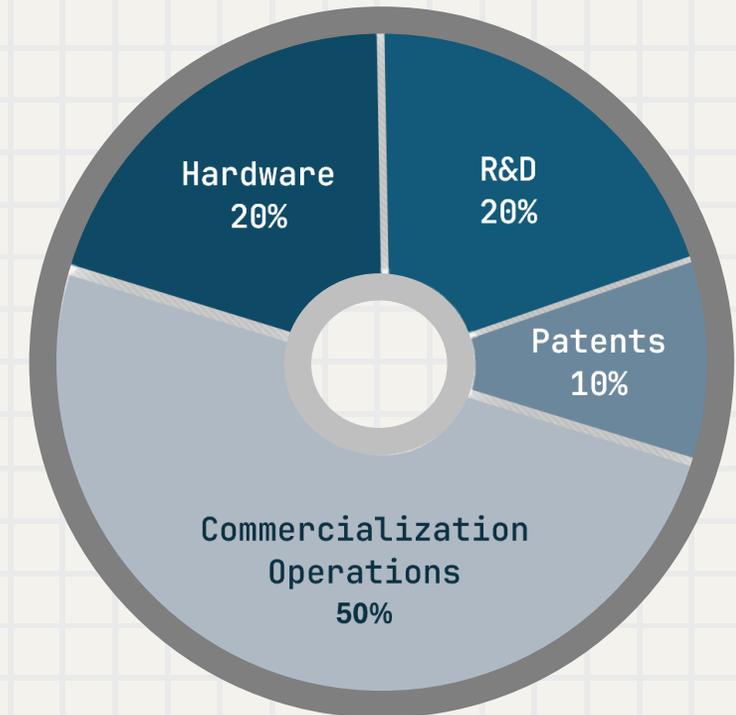
Building Governable AI with adapterOS

Patent-pending tech

Massive regulated market

Non-dilutive grant validation

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>_ REQUEST FULL BRIEFING AND TECHNICAL DILIGENCE PACKAGE
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