

An abstract graphic on the left side of the slide, consisting of several white lines of varying lengths and orientations that intersect to form a series of overlapping, irregular polygons and triangles. The lines are thin and white, contrasting sharply with the black background.

# HbarWatch – Financial Transparency for Hedera

Smart explorer turning Hedera data into  
actionable financial insights.

Track: On-chain Finance

# PROBLEM

## Low Transparency in African Web3 Finance

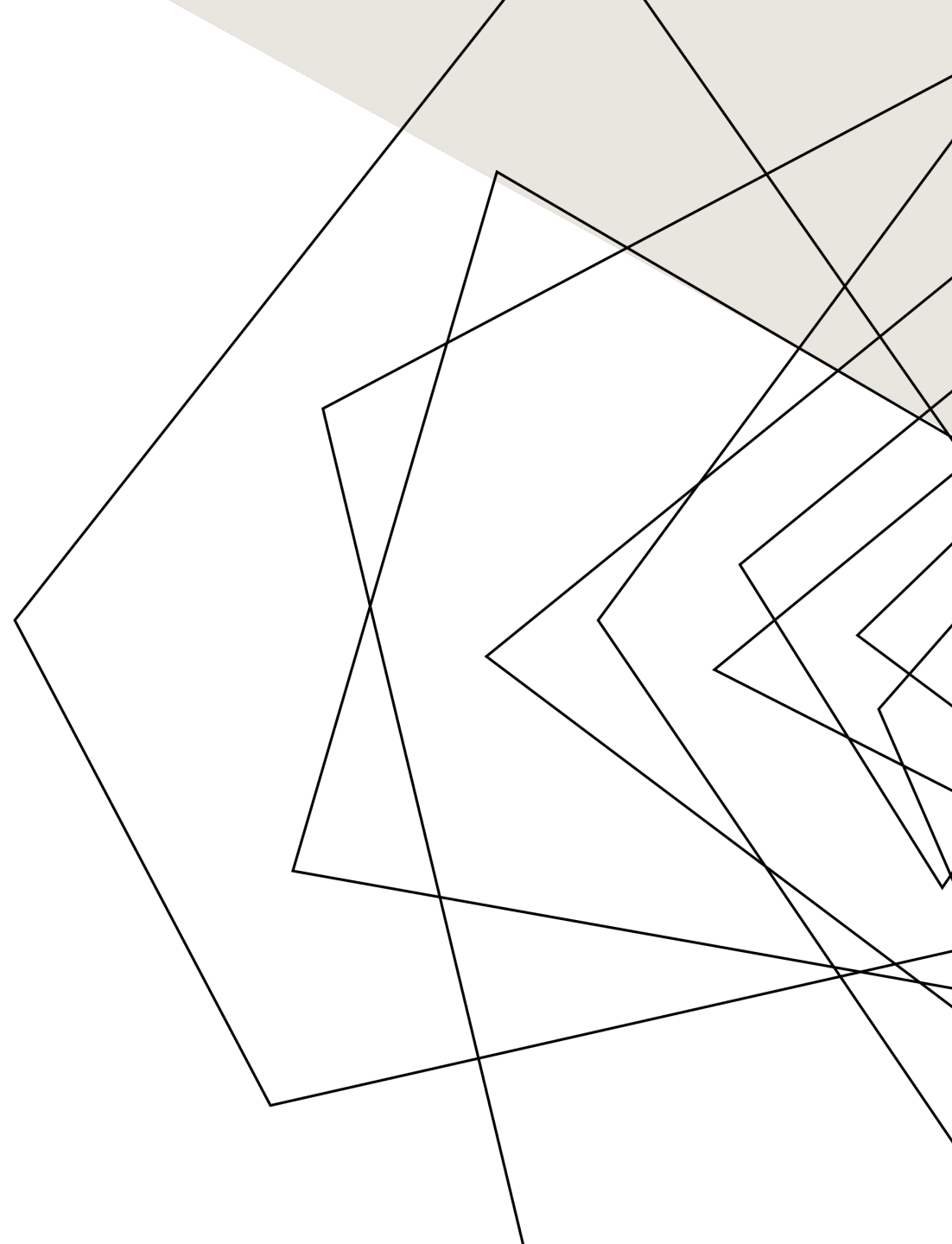
**Challenge 1:** Users see balances, but not **true value**

**Challenge 2:** Token concentration & scam risk often hidden

**Challenge 3:** Difficult to verify **counterparty trustworthiness**

**Challenge 4:** Fragmented data sources → **low confidence & adoption barriers**

Result: users navigate Web3 finance with **blind spots and risk**.

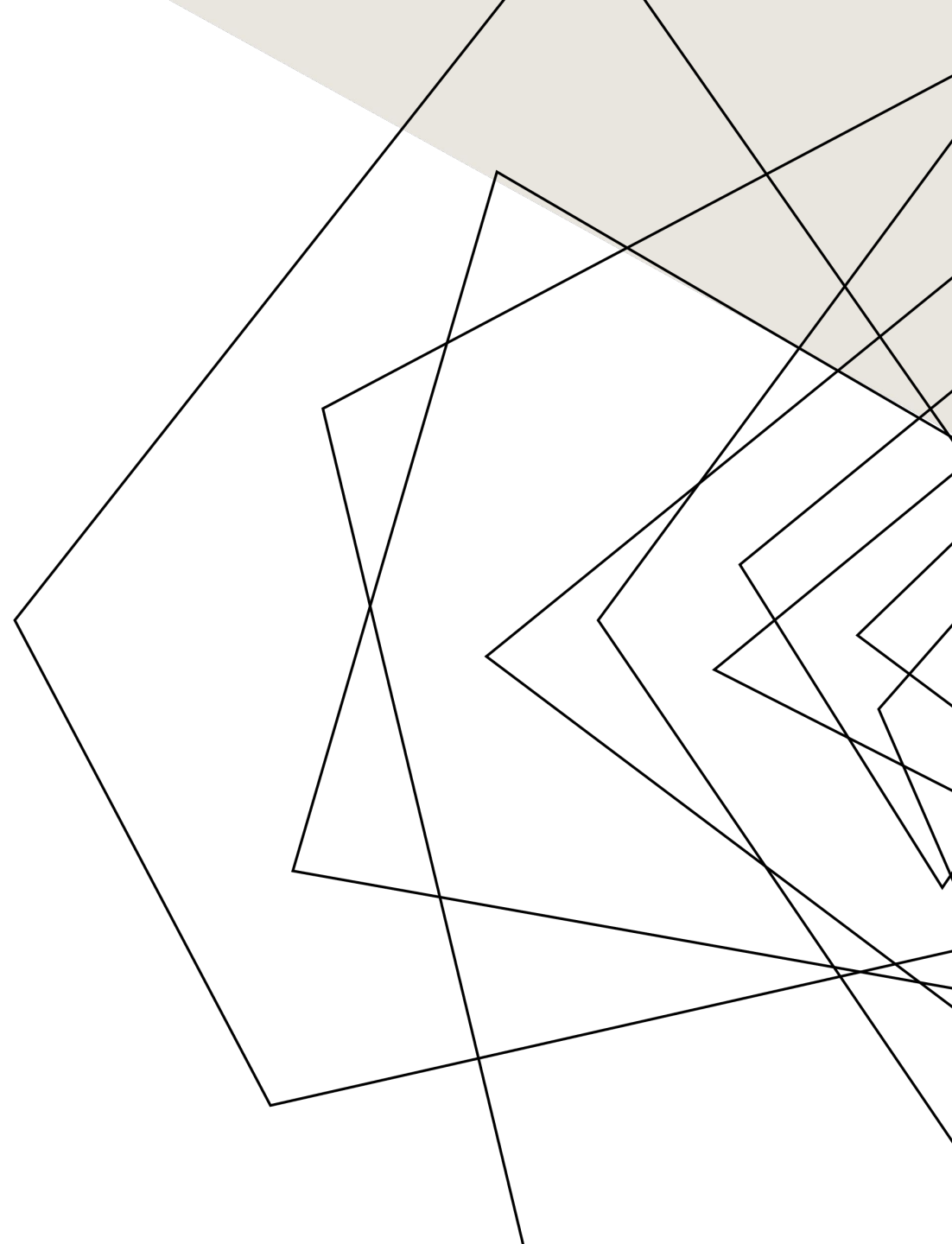


# SOLUTION

A smart explorer + portfolio tracker providing:

- Real-time **net worth tracking**
- **Diversification** & portfolio health insights
- **Token concentration** & whale exposure alerts
- **Counterparty heatmap** to detect risky connections
- Live pricing & verified NFT metadata

On-chain finance, made **clear and trustworthy**.

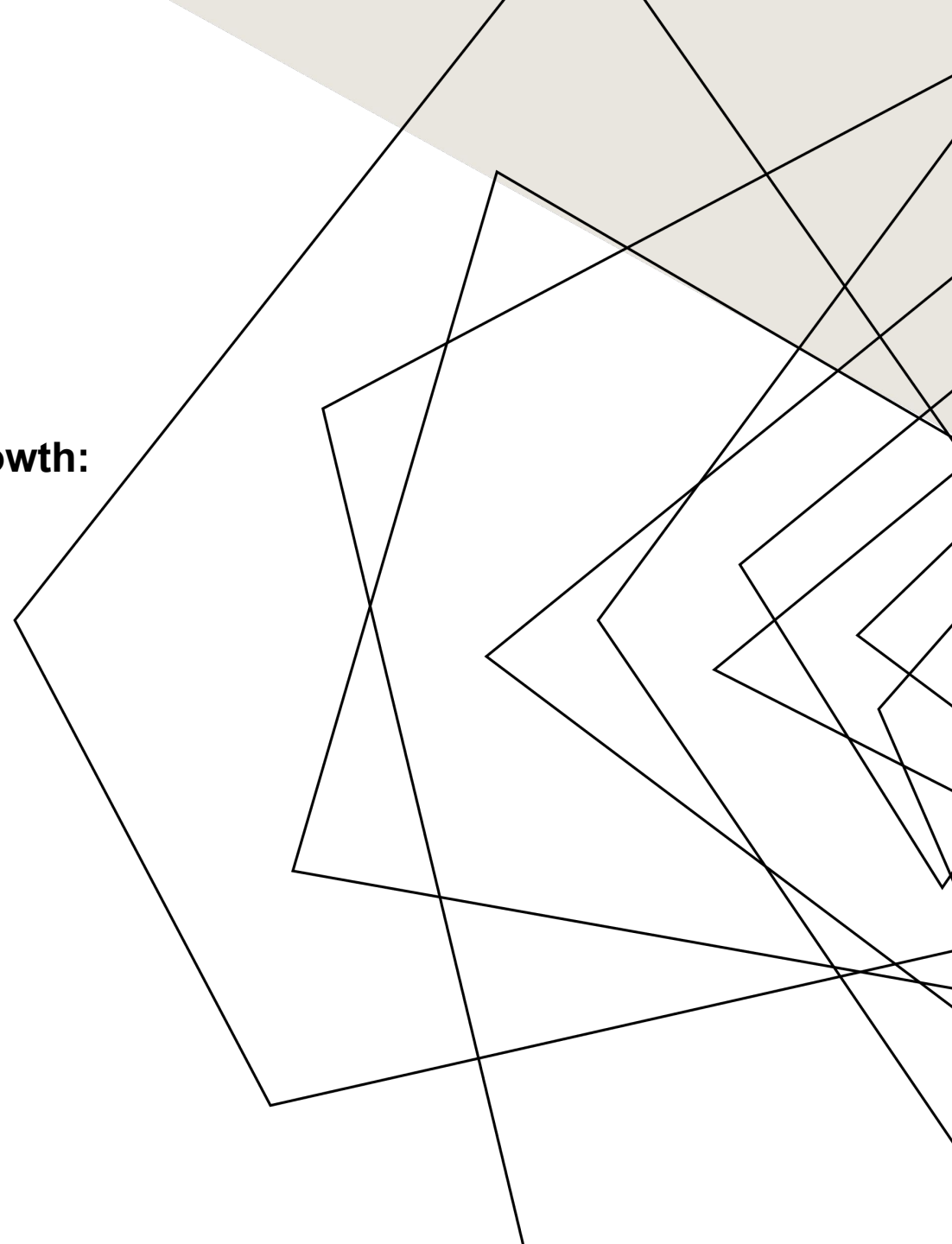


# WHY HEDERA?

Hedera provides critical advantages for Africa's Web3 growth:

- **ABFT finality** → fastest, most secure settlement
- **Predictable low fees** → affordable financial access
- **Native HTS transparency** → supply + holder tracking
- **Mirror Node insights** → real-time forensics
- **ESG leadership** → institutional-ready

Hedera is **uniquely suited** for transparent DeFi.



# MARKET & OPPORTUNITY

## African crypto adoption is accelerating:

- **\$100B+** annual crypto volume in Africa
- **2nd highest global adoption** (Chainalysis)
- Millions lack trustworthy financial tools
- Retail users & fintechs demand **risk visibility**

## Target users:

Retail users • Traders • Web3 startups • Compliance teams

HbarWatch enables informed, safer participation in Web3.



# PRODUCT OVERVIEW

## Portfolio & Analytics

- Net worth charts & USD pricing
- Token allocation breakdown

## Market Transparency

- Top holders + whale detection
- Supply concentration metrics

## Security & Monitoring

- Real-time follow + alerts
- Counterparty heatmap

## Experience

- NFT gallery
  - Dark mode + mobile responsiveness
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# ARCHITECTURE & HEDERA INTEGRATION

## Hedera Services

- **HTS:** token supply, balances, holders
- **Mirror Node:** transactions, NFTs, counterparty mapping

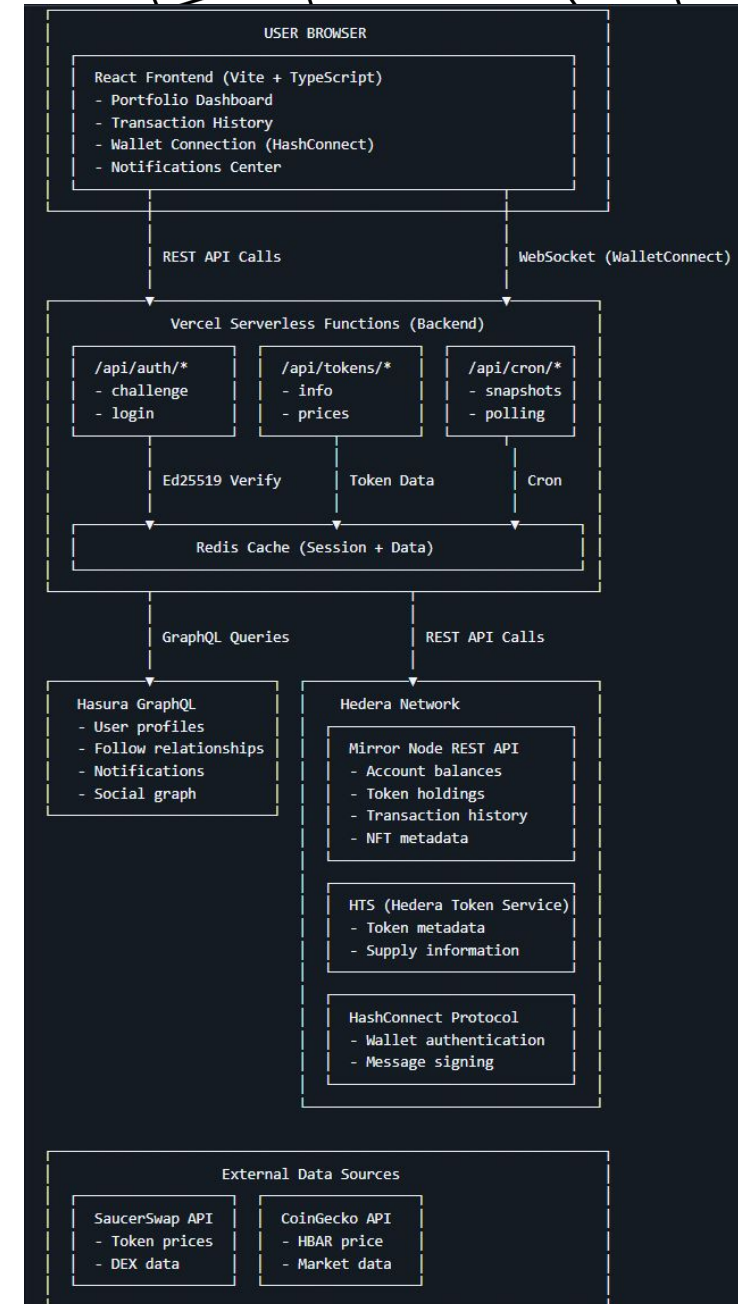
## Authentication

- HashPack WalletConnect (Ed25519 challenge-response)

## Data

- SaucerSwap pricing + liquidity
- Serverless backend for historical snapshots

Fully trustless analytics powered by Hedera.






# BUSINESS & REVENUE MODEL

**Freemium + Subscription NFT (Pro Pass)**

## **Free:**

- Basic explorer, balances, NFT view

## **Pro NFT Access:**

- Alerts & monitoring
  - Whale + concentration intel
  - Historical analytics
- 



# Hackathon Achievements

## GitHub Commits & Code Quality

- **~300+ commits** with clear, descriptive messages following conventional commits format
- **Full-stack TypeScript** implementation with comprehensive type safety
- **No hard-coded secrets**, proper JWT authentication
- **Production-ready code** with ESLint compliance and proper error handling

## Hedera Features Implemented

### ■ Hedera Mirror Node Integration (6+ API endpoints)

- Account balance queries
- Transaction history with pagination
- Token holdings and metadata
- NFT inventory tracking
- Network nodes data
- Real-time data fetching with <500ms response times

### ■ Hedera Token Service (HTS) Integration

- Dynamic token tracking for any HTS token
- Token decimals normalization
- Multi-token portfolio valuation
- Token price integration via SaucerSwap API

### ■ HashConnect/WalletConnect Authentication

- Ed25519 signature verification using hashgraph/sdk
- Challenge-response authentication flow
- JWT session management
- Secure off-chain authentication (zero transaction fees)

### ■ Real-time Transaction Monitoring

- Serverless cron job polling transactions every 15 minutes
- Automated notification system for followed accounts
- Token transfer detection with proper decimal handling

### ■ Historical Data & Analytics

- Nightly portfolio snapshots stored in Redis
- Net worth calculation combining HBAR + token values
- Time-series data for portfolio performance tracking

✅ Portfolio tracking with real-time USD valuation

✅ Transaction history with filtering and infinite scroll

✅ Social follow system with notifications

✅ Wallet authentication with HashPack

✅ Top token holders analysis

✅ Counterparty transaction mapping

✅ NFT gallery with metadata display

# TEAM



## Aleix Devesa

Software Engineer

**Hedera Developer Certified** ✓

Owns 100% of development

Execution velocity + direct ecosystem experience.

# FUTURE ROADMAP

## Roadmap (3–6 Months)

-  Production-ready application deployed on Hedera Mainnet
- AI risk & portfolio summaries
- Trending token & whale dashboards
- Compliance reporting & export tools
- Mobile app + ecosystem API
- Pro NFT subscriptions
- Community watchlists & alerts

**Goal:** Become the financial intelligence layer for Hedera in Africa and worldwide.

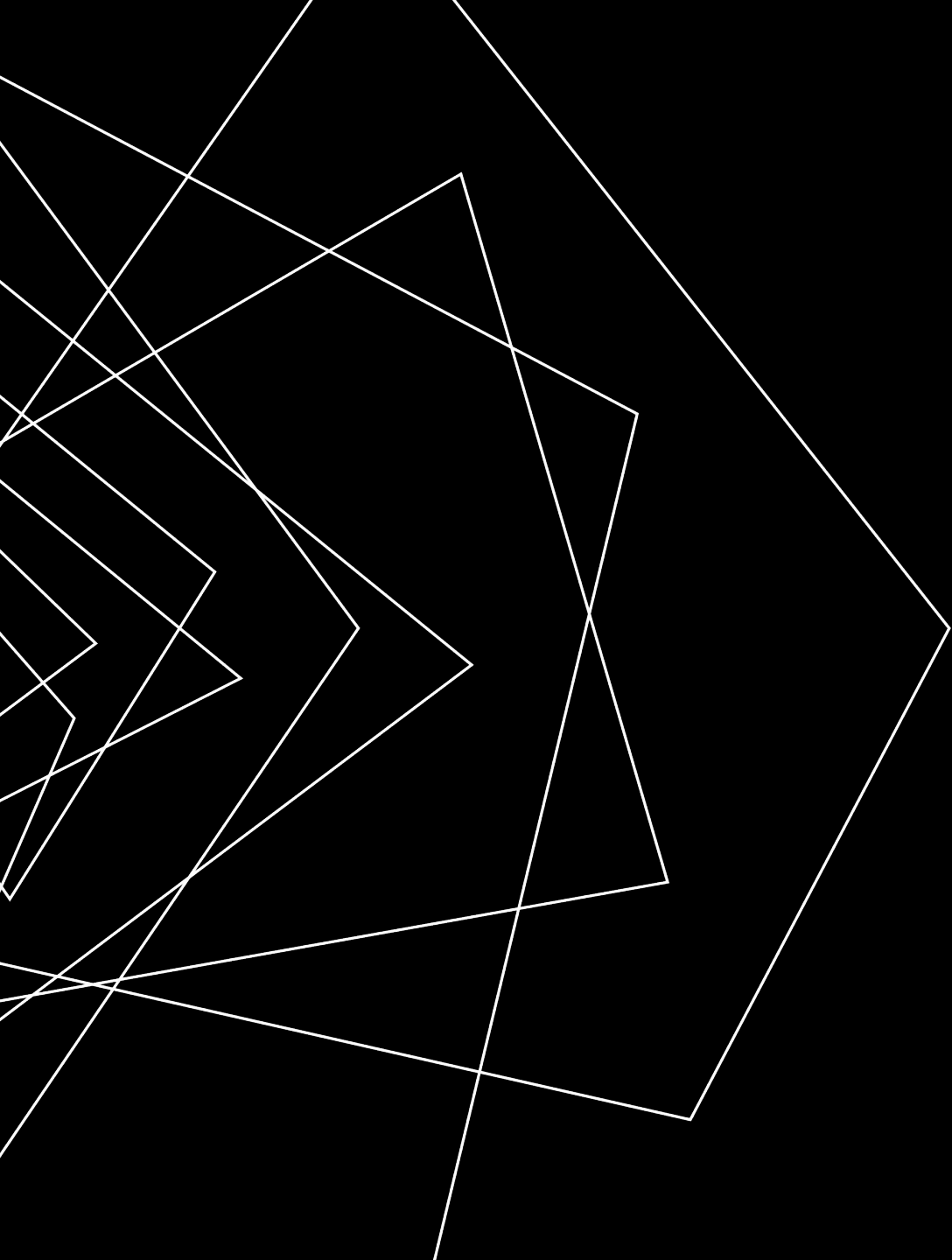
## THE ASK

- Hedera mentorship + pilot partnerships
- Funding for scaling infra + mobile development

# DEMO



<https://youtu.be/oBPCyj7hIVY>



**THANK YOU**