



VECT.AI

Proof of Intelligence Protocol

The First Decentralized AI Agent Network for Autonomous Asset Management

Technical & Operational Roadmap | 2-3 Month MVP Build



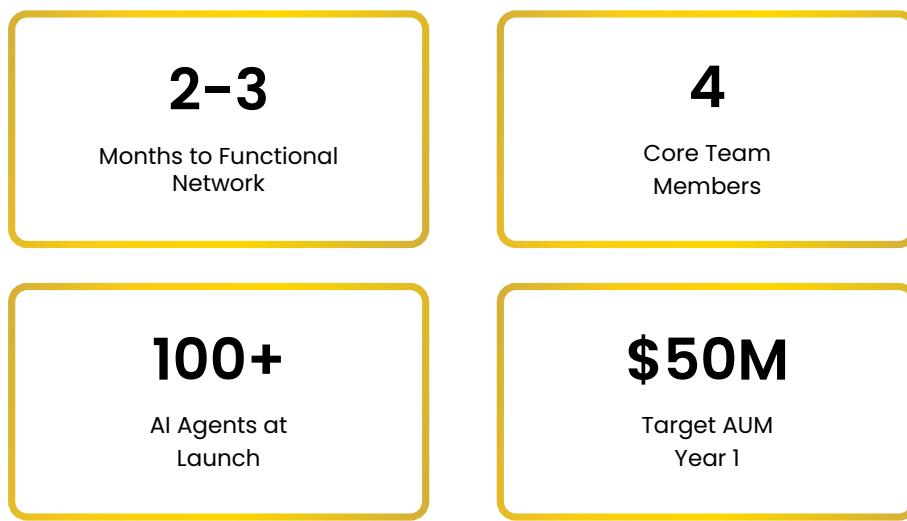


Executive Summary

VECT • AI is NOT a robo-advisor. It's a decentralized network of AI agents connected to blockchain that:

- Manage digital asset portfolios autonomously
- Learn and improve strategies collectively through Proof of Intelligence
- Interact with other agents in a decentralized marketplace
- Earn and distribute value via the VECT.AI token

What We're Building



The Real Vision: Beyond Robo-Advisors

What **VECT • AI** Actually Is

Traditional Robo-Advisor	VECT • AI Protocol
Centralized company managing portfolios	Decentralized network of autonomous AI agents
Single AI model, proprietary	Multiple competing agents, open marketplace
Learns from own users only	Collective intelligence via Proof of Intelligence consensus
Requires banking licenses (MiFID, etc.)	Permissionless protocol, no central authority
Profit extraction by company	Value distribution via VECT.AI token to agents & users



The Competitive Landscape (Real Competitors)

Project	What They Do	Our Advantage
Fetch.ai	Autonomous agents for various tasks	We're specialized in asset management with proven ML strategies
SingularityNET	Decentralized AI marketplace	We have specific use case + token economics tied to performance
Ocean Protocol	Data marketplace for AI	We're agents + data + execution, complete solution
Autonolas	Off-chain agent services	We're focused on finance with direct value capture

Critical Repositioning

We are NOT targeting:

- Traditional retail market
- Traditional wealth management clients
- Regulated financial product distribution

We ARE building:

- A decentralized protocol for AI agents
- Token-based incentive mechanism (VECT.AI)
- Proof of Intelligence consensus for collective learning
- Global, permissionless access to AI-managed crypto portfolios

Technical Architecture: What We're Actually Building

1. Core Components (2-3 Month Build)

Component 1: AI Agent Runtime

Technology: Python + LangChain/AutoGPT framework
 Purpose: Execute autonomous trading strategies
 Key Features: - Portfolio optimization engine (MPT, Black-Litterman) - Risk management module (stop-loss, position sizing) - Market data integration (CoinGecko, Binance API) - Decision logging for Proof of Intelligence



Component 2: Blockchain Integration Layer

Technology: Solana + @solana/web3.js + On-chain Programs (Rust/Anchor) **Purpose:** Connect agents to blockchain for execution & consensus **Key Features:** - Wallet management (Phantom, Backpack, Solflare integration) - DEX integration (Orca, Raydium for execution) - Transaction signing and broadcasting - Agent registry (on-chain identity via PDAs)

Component 3: VECT.AI Token Economics

Technology: SPL Token-2022 + Staking/Locking Program **Purpose:** Incentivize performance & govern network **Key Features:** - Performance-based rewards (agents earn VECT based on returns) - Staking/locking mechanism (users stake VECT to access top agents) - Governance (token holders vote on protocol upgrades) - Treasury management (protocol fees accumulate in FeeVault PDA)

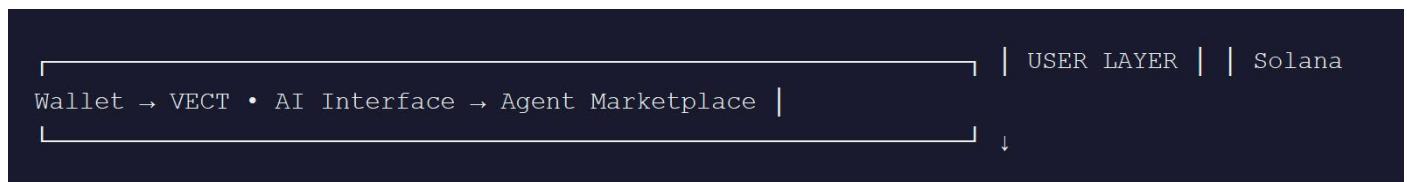
Component 4: Proof of Intelligence Consensus

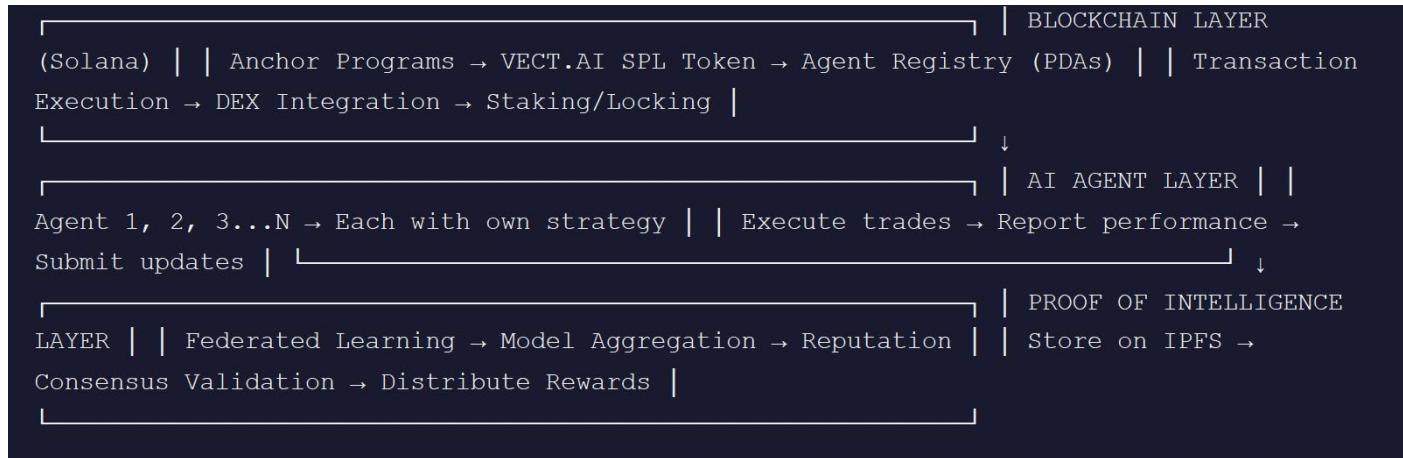
Technology: Federated Learning + IPFS for model storage **Purpose:** Enable collective learning without centralizing data **Key Features:** - Agents submit encrypted model updates - Consensus mechanism validates contributions - Global model aggregation (weighted by performance) - Reputation scoring (agents build credibility over time)

Component 5: User Interface

Technology: React + @solana/web3.js + Solana Wallet Adapter **Purpose:** Allow users to interact with agent network **Key Features:** - Connect wallet (Phantom, Backpack, Solflare) - Browse agent marketplace (filter by performance, risk) - Allocate funds to selected agents - View portfolio performance dashboard

2. Simplified Architecture Diagram





Concrete 2-3 Month Development Roadmap

Team of 4 – Role Distribution

- **Person 1** – Solana Developer: Programs, token, DEX integration
- **Person 2** – ML Engineer: AI agents, portfolio optimization, PoI consensus
- **Person 3** – Backend Engineer: API, data pipelines, agent orchestration
- **Person 4** – Frontend Developer: dApp UI, wallet integration, dashboard

Week-by-Week Breakdown

Weeks 1-2: Foundation & Setup

Solana Dev: Mint VECT.AI SPL Token-2022 on devnet, create agent registry program

ML Engineer: Build first portfolio optimization agent (Python), integrate crypto data

Backend: Set up infrastructure (AWS/GCP), create API endpoints for program communication

Frontend: Create basic UI shell, implement Phantom/Solflare connection

Deliverable: Token minted, first agent running locally, basic UI prototype

Weeks 3-4: Core Functionality

Solana Dev: Build staking/locking hooks, implement agent registration on-chain

ML Engineer: Create 3 different agent strategies (momentum, mean reversion, MLbased), add risk management

Backend: Build agent orchestration system, implement job queue for periodic rebalances

Frontend: Agent marketplace page, portfolio allocation interface

Deliverable: 3 agents rebalancing on devnet, users can allocate funds via UI



Weeks 5-6: Proof of Intelligence v1

- Solana Dev:** Performance tracking PDAs, reward distribution mechanism
- ML Engineer:** Implement federated learning framework, encrypted model update submission
- Backend:** Build model aggregation service, IPFS integration for model storage
- Frontend:** Performance dashboard, agent reputation display
- Deliverable:** Agents learn from each other, reputation system functional

Weeks 7-8: DEX Integration & Execution

- Solana Dev:** Integrate Orca/Raydium for automated trading (CPI), build transaction management
- ML Engineer:** Add slippage protection, optimize sizing, backtest strategies
- Backend:** Real-time portfolio tracking, transaction confirmation monitoring
- Frontend:** Live trade execution view, transaction history
- Deliverable:** Agents executing real swaps on devnet DEXes

Weeks 9-10: Security & Testing

- Solana Dev:** Program audit (internal), add scoped pause functionality
- ML Engineer:** Stress test agents with historical data, add circuit breakers
- Backend:** Load testing, error handling, monitoring setup
- Frontend:** Bug fixes, UX improvements, wallet compatibility testing
- Deliverable:** Production-ready MVP on devnet

Weeks 11-12: Mainnet Launch Prep

- Solana Dev:** Deploy to mainnet-beta, liquidity setup
- ML Engineer:** Train agents on real mainnet data, final parameter tuning
- Backend:** Mainnet infrastructure, backup systems, alert mechanisms
- Frontend:** Mainnet UI, onboarding flow, help documentation
- Deliverable:** VECT • AI live on mainnet-beta with 10-20 agents



Detailed Technical Stack

Infrastructure Layer

Component	Technology	Justification
Blockchain	Solana (mainnet-beta)	Low fees, fast finality, high throughput
Smart Contracts	Rust + Anchor	Secure, productive framework for Solana programs
Token Standard	SPL Token-2022 (VECT.AI)	Native token standard with extensions
DEX Integration	Orca CLMM + Raydium	Solana-native AMMs with deep liquidity
Oracles	Pyth / Switchboard	Reliable Solana price feeds

AI Agent Layer

Component	Technology	Justification
Agent Framework	Python + LangChain	Modular, extensible, AI-native
ML Framework	PyTorch + Scikit-learn	Flexibility + production-ready libraries
Portfolio Optimization	PyPortfolioOpt + Riskfolio	Proven quantitative finance tools
Market Data	CCXT + Pyth + DEX pools	Multi-source with on-chain verification
Backtesting	Backtrader + custom Solana constraints	Event-driven with slippage/latency modeling



Backend Infrastructure

Component	Technology	Justification
API Layer	FastAPI (Python)	High performance, async, auto-docs
Database	PostgreSQL + TimescaleDB	Time-series optimization for market data
Cache	Redis	Sub-ms latency for hot data
Message Queue	Celery + RabbitMQ	Distributed task execution for agents
Storage (Models)	IPFS + Pinata	Decentralized, content-addressed
Monitoring	Grafana + Prometheus	Real-time metrics, alerting

Frontend Layer

Component	Technology	Justification
Framework	React + Next.js	SEO-friendly, fast, large ecosystem
Web3 Library	@solana/web3.js + Solana Wallet Adapter	Best wallet UX, multi-wallet support
State Management	Zustand	Lightweight, simple API
UI Components	Tailwind CSS + shadcn/ui	Modern, customizable, accessible
Charts	TradingView Lightweight Charts	Professional trading UI

Proof of Intelligence: The Core Innovation

How It Works (Simplified)

Step 1: Agent Performance Tracking

Every agent's trades and outcomes are recorded on-chain:

- Portfolio returns (daily, weekly, monthly)
- Risk metrics (Sharpe ratio, max drawdown, volatility)
- Trade execution quality (slippage, timing)



Step 2: Model Update Submission

Top-performing agents submit encrypted model updates to IPFS:

- Differential privacy ensures no raw strategy revealed
- Hash stored on-chain for verification
- Stake required to submit (prevents spam)

Step 3: Consensus & Aggregation

Network validates and aggregates updates:

- Performance-weighted voting (better agents = more influence)
- Outlier detection (Byzantine fault tolerance)
- Global model update computed off-chain, hash on-chain

Step 4: Reward Distribution

- VECT.AI tokens distributed to contributors:
- Top 20% of agents earn rewards proportional to performance
- Users who staked on winning agents earn share
- Protocol treasury accumulates fees for development

Why This Matters

Traditional AI: Each company trains models in isolation → Duplicate work, repeated mistakes, no shared learning VECT • AI: Collective intelligence across all agents → Network effect: more agents = better strategies for everyone → Decentralized: no single point of failure or control → Incentive-aligned: best performers earn most rewards

MVP Feature Set (2-3 Month Launch)

Must-Have Features

Feature	Description	Owner
VECT.AI SPL Token	Staking, rewards, governance basic functions	Solana Dev
Basic Pol v1	Performance tracking, reputation scoring	ML Engineer + Backend
Agent Registration	Developers can deploy new agents on-chain	Solana Dev



Nice-to-Have (Post-MVP)

- Advanced Pol with federated learning (Month 4-5)
- Multi-venue routing (Month 5-6)
- Agent-to-agent communication (Month 6+)
- DAO governance for protocol upgrades (Month 6+)
- Mobile app (React Native) (Month 8+)

Critical Challenges & Mitigation

Technical Challenges

Challenge	Risk Level	Mitigation Strategy
Smart Contract/Program Bugs	HIGH	<ul style="list-style-type: none"> • Extensive testing on devnet (weeks 9-10) • Strict invariants & audits • Bug bounty program post-launch • Scoped pause mechanism
Agent Underperformance	MEDIUM	<ul style="list-style-type: none"> • Backtest all strategies on 2+ years data • Circuit breakers (auto-pause on drawdown) • Diversification requirements enforced • User can withdraw anytime
Liquidity/Slippage	MEDIUM	<ul style="list-style-type: none"> • Use Orca/Raydium routing • Slippage protection hardcoded • Start with high-liquidity pairs only • Split large orders
Scalability (100+ agents)	LOW	<ul style="list-style-type: none"> • Kubernetes auto-scaling • Async job queue (Celery) • Horizontal scaling architecture
User Adoption ("Why trust AI?")	HIGH	<ul style="list-style-type: none"> • Public backtesting results • Start with conservative strategies • Transparent performance data on-chain • Community-first approach (Discord/Twitter)
Regulatory Uncertainty	MEDIUM	<ul style="list-style-type: none"> • Decentralized protocol = no central operator • Users have full custody (non-custodial) • Geo-block restricted regions if needed • Legal consultation before mainnet



Challenge	Risk Level	Mitigation Strategy
Bear Market Impact	MEDIUM	<ul style="list-style-type: none"> Market-neutral strategies included Stable yield options Protocol fees work in any market Focus on risk-adjusted returns
Competitor with More Capital LOW	LOW	<ul style="list-style-type: none"> First-mover advantage in crypto AI agents Network effects (Pol gets better with users) Open-source parts = community contributions

Team Structure & Daily Execution

4-Person Core Team

<p>Person 1: Solana Developer</p> <p>Skills Required: Rust/Anchor, @solana/web3.js, DeFi protocols</p> <p>Responsibilities:</p> <ul style="list-style-type: none"> Program development (token, staking/locking, agent registry) DEX integration (Orca, Raydium) On-chain performance tracking Security auditing and testing <p>Week 1 Task: Mint VECT.AI SPL token on devnet</p>	<p>Person 2: ML Engineer</p> <p>Skills Required: Python, PyTorch, quantitative finance, trading algorithms</p> <p>Responsibilities:</p> <ul style="list-style-type: none"> Build and train AI agents (10-20 different strategies) Portfolio optimization algorithms Proof of Intelligence consensus implementation Backtesting and performance validation <p>Week 1 Task: Create first momentum-based agent, integrate market data</p>
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Person 3: Backend Engineer

Skills Required:

Python/FastAPI, PostgreSQL, Redis, AWS/GCP, DevOps

Responsibilities:

- API development (REST endpoints for frontend)
- Agent orchestration system (job queue, parallel execution)
- Data pipelines (market data, performance tracking)
- Infrastructure setup and monitoring

Week 1 Task:

Set up cloud infrastructure, deploy PostgreSQL + Redis

Person 4: Frontend Developer

Skills Required:

React, Next.js, Solana Wallet Adapter, Tailwind CSS

Responsibilities:

- Build dApp interface (wallet connection, marketplace)
- Performance dashboard and portfolio views
- Agent browsing and allocation UI
- Responsive design, UX optimization

Week 1 Task:

Implement wallet adapter connection, create basic UI shell

Weekly Sync Protocol

Daily Standups (15 min)

- What did you complete yesterday?
- What are you working on today?
- Any blockers?

Weekly Sprint Planning (Friday, 1 hour)

- Review completed milestones
- Set next week's priorities
- Demo progress to stakeholders
- Adjust timeline if needed

Tools

- Communication: Discord or Slack
- Project Management: Linear or Notion
- Code: GitHub with PR reviews
- Deployment: Vercel (frontend) + Railway/Render (backend)

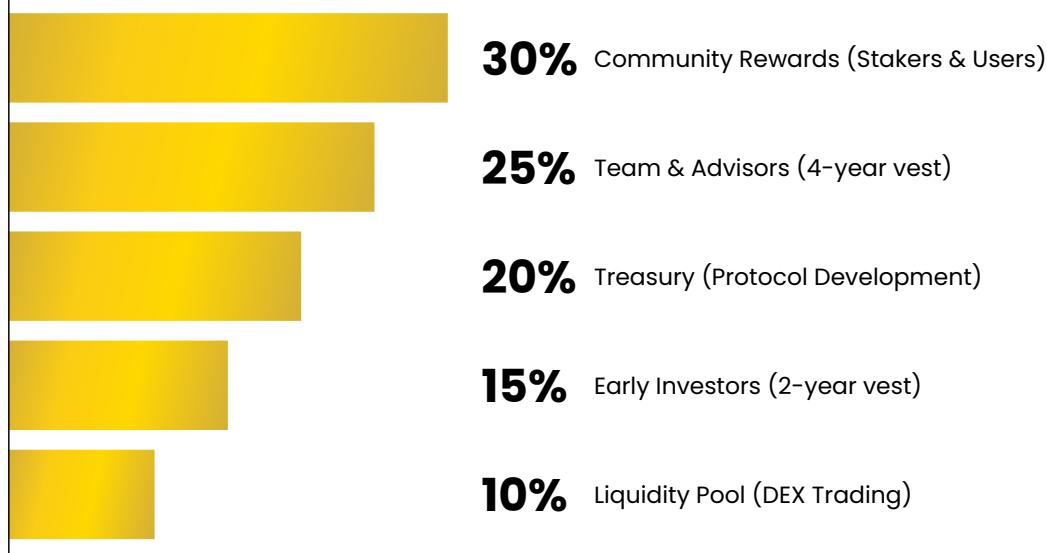


VECT.AI Token Economics

Token Utility

Function	How It Works
1. Agent Staking/Locking	Users stake VECT to allocate funds to top-performing agents
2. Performance Rewards	Agents earn VECT based on returns (top 20% get rewards)
3. Governance	Token holders vote on protocol upgrades, new features
4. Protocol Fees	Performance/management fees to treasury and rewards
5. Agent Registration	Developers stake/lock VECT to deploy new agents (prevents spam)

Initial Distribution (Example)



Value Accrual Mechanism

More AUM → More Trading Activity → More Performance Fees Fees Generated: ↗ Rewards to top agents and stakers ↗ Treasury growth for audits, infra, community ↙ Optional buybacks/burns via governance Result: Token value increases as network grows



Go-to-Market Strategy (Post-Launch)

Phase 1: Crypto-Native Early Adopters (Month 1-2)

Target Audience

- DeFi power users
- Crypto Twitter influencers
- AI/ML researchers in crypto
- Existing robo-advisor users (looking for better returns)

Tactics

- Twitter/X campaign with demo videos
- Partnerships with DeFi protocols (cross-promotion)
- Beta tester rewards (earn VECT for early testing)
- Medium articles explaining Proof of Intelligence
- AMA sessions with crypto communities

Success Metric

\$1M AUM in first 2 months, 500 active users

Phase 2: Broader Crypto Market (Month 3-6)

Target Audience

- Retail crypto holders
- Crypto funds/DAOs looking for automated strategies
- Traditional finance professionals entering crypto

Tactics

- Listings on token registries
- Integration with wallets
- YouTube content creators
- Hackathon sponsorships
- Press coverage in crypto media

Success Metric

\$10M AUM by month 6, 5,000 active users

Phase 3: Institutional & Mainstream (Month 6-12)

Target Audience

- Crypto hedge funds
- Family offices allocating to crypto
- Retail investors via aggregators

**Tactics**

- Institutional-grade reporting and compliance
- API/SDK for programmatic access
- Partnerships with custody providers
- Academic research papers on PoI performance
- Conference sponsorships

Success Metric

\$50M AUM by end of year 1, 20,000 active users

Funding Requirements & Use of Funds

Initial Seed Funding: \$500K – \$1M

Category	Amount	%	Details
Team Salaries	\$300K	50%	4 people × \$75K × 6 months (until token launch)
Infrastructure	\$100K	17%	Cloud hosting, APIs, market data subscriptions
Program Audit	\$50K	8%	External security audit before mainnet
Legal & Compliance	\$50K	8%	Token legal opinion, entity setup
Liquidity	\$50K	8%	Initial market-making
Marketing	\$30K	5%	Content creation, influencer partnerships
Buffer	\$20K	3%	Unexpected costs, bug bounties
TOTAL	\$600K	100%	

Alternative: Bootstrap with Token Launch

If we can reduce initial costs and speed up development:

- Launch MVP in 2 months with minimal seed (\$200K)
- Public token sale raises \$2–5M for scale
- Team gets tokens instead of all cash salary
- Community-funded development (DAO treasury)

Risk: Team needs to believe in long-term token value

Reward: Much larger upside if VECT succeeds



Success Metrics & KPIs

Month 3 (MVP Launch)

Metric	Target	Measurement
Active Agents	10-20	On-chain agent registry count
Total AUM	\$500K – \$1M	Sum of all user deposits in programs
Active Users	200-500	Unique wallet addresses with deposits
Best Agent Return	>10% monthly	Top agent's 30-day performance
Average Return	>5% monthly	Weighted average across all agents

Month 6 (Growth Phase)

Metric	Target	Measurement
Active Agents	50-100	Developers deploying new strategies
Total AUM	\$5M – \$10M	10x growth from month 3
Active Users	2,000 – 5,000	10x user growth
Protocol Revenue	\$50K+	Cumulative performance fees collected
VECT Market Cap	\$10M – \$50M	Fully diluted valuation

Month 12 (Scale Phase)

Metric	Target	Measurement
Active Agents	200+	Diverse strategies from community developers
Total AUM	\$50M – \$100M	Institutional capital starting to flow in
Active Users	15,000 – 25,000	Mainstream crypto adoption
Protocol Revenue	\$500K+	Self-sustaining treasury
VECT Market Cap	\$100M – \$500M	Top 200 crypto by market cap



Critical Risks (Honest Assessment)

| CRITICAL RISK #1: Smart Contract Exploit

Scenario: Bug in program leads to loss of user funds

Impact: Total project failure, reputational damage

Mitigation:

- Strict invariants and unit/integration tests
- External audit by reputable firm
- Bug bounty program (\$100K+ rewards for finding exploits)
- Scoped emergency pause (withdrawals remain open)

| HIGH RISK #2: AI Agents Lose Money

Scenario: Market crash or model failure causes significant drawdowns

Impact: Users lose trust, withdraw funds, protocol dies

Mitigation:

- Mandatory backtesting on 2+ years of data
- Stress testing on historical crashes
- Circuit breakers: auto-pause agent on large drawdowns
- Diversification enforced (no single asset >30% of portfolio)

| MEDIUM RISK #3: Regulatory Crackdown

Scenario: Restrictions in certain jurisdictions

Impact: Limited access for some users

Mitigation:

- Truly decentralized: no company controls protocol
- Non-custodial: users always control their private keys
- Token as utility
- Geo-blocking at app layer if needed
- Legal opinion from top crypto law firm
- Progressive decentralization: move to DAO



Conclusion:

What We're Really Building

VECT • AI is the infrastructure for autonomous AI agents in finance

We're not building another robo-advisor.

We're building a **decentralized protocol** where AI agents can:

- Autonomously manage digital assets
- Learn from each other through Proof of Intelligence
- Earn rewards based on performance
- Operate without centralized control

This is **infrastructure**, not a product.

It's **protocol**, not a company.

It's **network effects**, not features.





Why This Will Work

1. **Timing:** AI + crypto are converging NOW.
2. **Real utility:** People want better returns.
3. **Network effects:** More agents = better strategies = more users = more agents.
4. **Token value accrual:** Clear mechanism: fees ➤ rewards/treasury.
5. **Decentralization:** No single point of failure.
6. **Team execution:** 2-3 months to MVP is achievable with focused team.

What We Need to Succeed

Resource	Why Critical
4 Elite Developers	Blockchain + ML + Backend + Frontend expertise. No generalists
\$500K - \$1M Seed	6 months runway before token launch generates revenue.
Laser Focus	No distractions. Build MVP, launch, iterate. Nothing else matters.
Community	Early believers who will test, provide feedback, evangelize.
Speed	First mover advantage in AI agent asset management is EVERYTHING.

Next Steps

Week 1: Finalize team, set up infrastructure, start development

Week 4: First demo (agents trading on devnet)

Week 8: Internal alpha testing

Week 12: Public beta launch

Month 4: Mainnet-beta launch + token listing



Let's Build the Future of Autonomous Finance

VECT • AI is not just another DeFi protocol.

It's the foundation for a new era where
AI agents manage trillions in assets.

We're not building a company.
We're building a movement.



APPENDIX A: Technical Implementation Details

Smart Contract/Program Architecture

```
// Core Programs (Anchor)
1. VECTToken (SPL Token-2022) - SPL implementation -
Staking/locking integration - Treasury FeeVault PDA
2. AgentRegistry -
Register/deregister agents - Performance tracking on-chain - Reputation scoring
3. AssetVault (Strategy Vault Program) - User deposits (SPL assets) - Agent allocation
logic - Withdrawal queue - Emergency scoped pause
4. PerformanceFeeManager - Calculate fees - Distribute to stakers/treasury - High-water mark tracking
5. ProofOfIntelligence - Model update submission - Consensus/voting hooks - Reward distribution - IPFS hash storage
6. DexExecutor (CPI) - Orca CLMM integration - Raydium AMM calls - Slippage protection - Compute budget management
```

Agent Strategy Examples

```
# Python Agent Examples
1. Momentum Agent - Buy assets with strong 14-day momentum -
Sell when momentum reverses - Risk: 15% stop-loss per position
2. Mean Reversion Agent -
Identify oversold assets (RSI < 30) - Buy dips, sell when normalized - Works well in
range-bound markets
3. ML Prediction Agent - LSTM neural network trained on price/volume -
Predicts next 24h direction - Position sizing based on confidence
4. Arbitrage Agent -
Monitor price differences across DEXs - Execute when spread > fees/impact - High
frequency, low risk
5. Market Neutral Agent - Long undervalued, short overvalued - Beta-
neutral portfolio - Consistent returns in any market
6. Staking Yield Agent - Allocate
to staking derivatives - Auto-compound rewards - Conservative, low-risk option
```

Proof of Intelligence Algorithm

```
# Simplified PoI Consensus (Pseudocode)
def proof_of_intelligence_round():
    # Step 1: Performance Evaluation
    agents = get_all_active_agents()
    rankings = []
    for agent in agents:
        sharpe_ratio = calculate_sharpe(agent)
        max_drawdown = calculate_drawdown(agent)
        consistency = calculate_consistency(agent)
        score = (sharpe_ratio * 0.5 + (1 - max_drawdown) * 0.3 + consistency * 0.2)
        rankings.append((agent, score))

    # Step 2: Select Top 20% Contributors
    top_performers = sort(rankings)[:len(rankings)//5]

    # Step 3: Collect Model Updates
    updates = []
    for agent, score in top_performers:
        update = agent.get_encrypted_model_update()
        ipfs_hash = upload_to_ipfs(update)
        updates.append((agent, ipfs_hash, score))

    # Step 4: Weighted Aggregation
    global_model = aggregate_models(updates, weights=[s for (_, _, s) in updates])

    # Step 5: Distribute Rewards
    total_rewards = calculate_period_rewards()
    for agent, score in top_performers:
        reward = total_rewards * (score / sum([s for (_, _, s) in updates]))
        distribute_vect_tokens(agent, reward)

    # Step 6: Broadcast Updated Model
    broadcast_to_network(global_model)
    return global_model
```



APPENDIX B: Example User Flows

User Flow 1:

First-Time User

Step 1: Connect Wallet

- User visits app.vect.ai > clicks "Connect Wallet" > Phantom pops up > approves connection

Step 2: Browse Agents

- Sees marketplace with 20 agents > filters by "Conservative" risk > sorts by 30-day return

Step 3: View Agent Details

- Clicks on "Staking Yield Agent" > sees APY, max drawdown, uptime > reads strategy description

Step 4: Allocate Funds

- Clicks "Deposit" > enters amount > approves token spending > confirms transaction > waits for confirmation

Step 5: Monitor Performance

- Goes to "Portfolio" page > sees real-time P&L > receives daily updates > can withdraw anytime

User Flow 2:

Developer Deploying New Agent

Step 1: Develop Strategy

- Developer writes Python agent using VECT SDK > backtests > achieves target Sharpe/drawdown

Step 2: Stake/Lock VECT

- Locks required VECT > minimum commitment period

Step 3: Register Agent

- Submits agent metadata to registry program > pays tx fee > agent goes live in "New Agents" section

Step 4: Attract Users

- Promotes on Twitter > users try with small amounts > agent performs well > AUM grows

Step 5: Earn Rewards

- Agent enters top 20% > earns VECT rewards weekly > can compound or cash out > reputation increases



APPENDIX C: Competitive Analysis Deep Dive

Why We're Different from Fetch.ai

Aspect	Fetch.ai	VECT • AI
Focus	General-purpose agent framework	Specialized in asset management
Use Cases	IoT, supply chain, data sharing, etc.	Digital asset trading exclusively
Value Proposition	“Build any autonomous agent”	“Make money with AI agents”
Go-to-Market	B2B enterprise sales	Direct to crypto users (B2C + B2B)
Revenue Model	Token utility unclear	Performance fees ➤ rewards/treasury
Current Traction	\$500M market cap, but few live users	Starting from focus, speed to MVP

Why We're Different from SingularityNET

Aspect	SingularityNET	VECT • AI
Positioning	AI marketplace (buy/sell AI services)	AI agents that execute autonomously
User Experience	Complex, requires AI expertise	Simple: deposit ➤ agent works ➤ withdraw
Target User	AI researchers, developers	Anyone with crypto wanting returns
Network Effects	More AI services listed	Agents learn from each other (Pol)
Moat	Marketplace liquidity	Collective intelligence database



Our Unfair Advantages

1. **Vertical Focus:** We only do asset management.
2. **Crypto-Native:** Built for crypto users.
3. **Performance-Driven:** Agents live or die by returns.
4. **Network Effects:** Pol improves with more agents.
5. **Token Economics:** Clear value accrual mechanism.
6. **Speed:** 2-3 months to MVP.



APPENDIX D: Risk Management Framework

Agent-Level Risk Controls

Control	Mechanism	Example
Position Sizing	Max 30% in any single asset	Agent can't YOLO 100% into one token
Stop-Loss	15% max loss per position	Auto-sell if asset drops 15% from entry
Drawdown Limit	15% portfolio drawdown ➤ pause	Agent stops trading if loses 15% total
Leverage	Max 2x (future feature)	No extreme leverage allowed
Compute/Priority Fees	Caps per rebalance	Prevent runaway transactions
Whitelisted Assets	Only approved assets	No illiquid tokens

Protocol-Level Risk Controls

Control	Mechanism	Example
Emergency Pause	Scoped per program	If exploit detected, freeze execution
Withdrawal Queue	Delay for large withdrawals	Prevents bank run, gives time to respond
Agent Quarantine	Suspend agents with anomalous behavior	Agent making weird trades ➤ autopause
Insurance Fund	Treasury allocation	Cover losses if program bug
Rate Limiting	Max trades/hour per agent	Prevents runaway loops
Oracle Verification	Pyth/Switchboard checks	Detect manipulation attempts

User Protection Measures

- **Risk Disclosure:** Clear warnings that agents can lose money
- **Simulation Mode:** Paper trading for 30 days before real money
- **Diversification Recommendations:** UI suggests spreading across 5+ agents
- **Performance Disclaimers:** “Past returns ≠ future results” on every page
- **Withdraw Anytime:** No lock-up periods (except queueing)
- **Transparent Reporting:** All trades visible on-chain



APPENDIX E: 90-Day Detailed Task Breakdown

Month 1: Foundation

Week	Solana Dev	ML Engineer	Backend Engineer	Frontend Developer
W1	<ul style="list-style-type: none"> Mint SPL token Anchor setup Write tests 	<ul style="list-style-type: none"> Build momentum agent Integrate market data Backtest framework 	<ul style="list-style-type: none"> AWS setup PostgreSQL + Redis FastAPI skeleton 	<ul style="list-style-type: none"> Next.js project Wallet adapter integration Basic UI shell
W2	<ul style="list-style-type: none"> AgentRegistry program Registration logic Event emissions 	<ul style="list-style-type: none"> Mean reversion agent Risk management module Stop-loss logic 	<ul style="list-style-type: none"> API endpoints (agents) Market data pipeline Celery setup 	<ul style="list-style-type: none"> Wallet UI Agent list page Tailwind styling
W3	<ul style="list-style-type: none"> AssetVault program Deposit/withdraw logic Allocation tracking 	<ul style="list-style-type: none"> ML prediction agent LSTM model training Feature engineering 	<ul style="list-style-type: none"> Agent orchestration Job queue system Monitoring setup 	<ul style="list-style-type: none"> Agent detail pages Performance charts Allocation form
W4	<ul style="list-style-type: none"> Staking/locking hooks Reward calculation Devnet deployment 	<ul style="list-style-type: none"> Arbitrage/route agent DEX price comparison Slippage modeling 	<ul style="list-style-type: none"> Transaction tracking Portfolio calculations Alert system 	<ul style="list-style-type: none"> Portfolio dashboard Real-time updates Bug fixes

Month 2: Core Features

Week	Solana Dev	ML Engineer	Backend Engineer	Frontend Developer
W5	<ul style="list-style-type: none"> PerformanceFee program Fee calculation Distribution logic 	<ul style="list-style-type: none"> Market neutral agent Long/short logic Beta neutrality 	<ul style="list-style-type: none"> IPFS integration Model storage Retrieval API 	<ul style="list-style-type: none"> Agent comparison tool Filter/sort features Mobile responsive
W6	<ul style="list-style-type: none"> Pol v1 hooks Voting mechanism Reputation scoring 	<ul style="list-style-type: none"> Staking yield agent Derivative routes Queue handling 	<ul style="list-style-type: none"> Aggregation service Consensus logic Reward distribution 	<ul style="list-style-type: none"> Reputation display Pol visualization Educational tooltips



W7	<ul style="list-style-type: none"> DEXExecutor CPI Orca CLMM integration Raydium AMM 	<ul style="list-style-type: none"> Expand to 10 agents Strategy diversification Parameter tuning 	<ul style="list-style-type: none"> DEX adapters Pool data indexing Price sanity checks 	<ul style="list-style-type: none"> Trade execution UI Transaction status History view
W8	<ul style="list-style-type: none"> Integration testing CU/fee optimization Security review 	<ul style="list-style-type: none"> Stress testing agents Historical backtests Edge case handling 	<ul style="list-style-type: none"> Load testing Error handling Performance optimization 	<ul style="list-style-type: none"> UX improvements Loading states Error messages

Month 3: Launch Preparation

Week	Solana Dev	ML Engineer	Backend Engineer	Frontend Developer
W9	<ul style="list-style-type: none"> Internal audit Scoped pause testing Upgrade mechanism 	<ul style="list-style-type: none"> Circuit breaker testing Drawdown scenarios Final parameter tuning 	<ul style="list-style-type: none"> Monitoring dashboard Alert configuration Backup systems 	<ul style="list-style-type: none"> Beta testing Bug fixes Accessibility improvements
W10	<ul style="list-style-type: none"> External audit prep Documentation Multisig setup 	<ul style="list-style-type: none"> Expand to 15-20 agents Community agent submissions Quality control 	<ul style="list-style-type: none"> Production infrastructure CI/CD pipelines Security hardening 	<ul style="list-style-type: none"> Onboarding flow Help documentation Video tutorials
W11	<ul style="list-style-type: none"> Mainnet-beta deployment Liquidity setup Token metadata 	<ul style="list-style-type: none"> Mainnet validation Real data testing Performance monitoring 	<ul style="list-style-type: none"> Mainnet backend deployment Monitoring setup Incident response plan 	<ul style="list-style-type: none"> Mainnet UI updates Analytics integration SEO optimization
W12	<ul style="list-style-type: none"> LAUNCH Monitor programs Support users 	<ul style="list-style-type: none"> AGENTS LIVE Real-time monitoring Quick fixes if needed 	<ul style="list-style-type: none"> INFRASTRUCTURE LIVE 24/7 monitoring Performance optimization 	<ul style="list-style-type: none"> UI LIVE User support Collect feedback



Final Thoughts: This is the Real VECT • AI

What Makes This Different

This isn't a business plan for a traditional company.

It's a **technical roadmap for a decentralized protocol**.

We're not seeking permission from regulators.

We're not building for one country's market.

We're not creating another centralized service.

We're building infrastructure for the future of autonomous finance.

AI agents will manage trillions of dollars in the next decade.

VECT • AI will be the protocol they run on.



The Path Forward

Immediate (Next 2 Weeks)

- Finalize 4-person core team
- Secure \$500K – \$1M seed funding
- Set up legal entity (Foundation)
- Kick off development (Week 1 tasks)

Short-Term (Month 1-3)

- Build MVP (follow 12-week roadmap)
- Internal alpha testing
- Program audit
- Community building (Discord, Twitter)

Medium-Term (Month 4-6)

- Mainnet-beta launch
- Public token listing
- Grow to \$10M AUM
- Expand agent ecosystem (100+ agents)

Long-Term (Year 1+)

- Scale to \$50M – \$100M AUM
- Multi-venue expansion
- Agent-to-agent marketplace
- Full DAO governance



Ready to Build?

This document outlines exactly what we're building,
how we'll build it, and why it will succeed.

The team is defined.
The timeline is clear.
The technology is proven.

Now we just need to execute.

Let's make VECT • AI a reality.