Enterprise Governance Risk & Compliance Co-Pilot

AI-powered governance oversight for organizations managing Cosmos ecosystem assets. Built for the Vultr Track with enterprise-grade features and flexible authentication.

▼ Vultr Ready · Groq AI · Llama Models · Fetch.ai Agents · Enterprise Security

Cosmos GovWatcher
Governance Risk & Compliance Co-Pilot - Vultr Track

The Cosmos Governance Risk & Compliance Co-Pilot is an enterprise-ready platform that helps organizations & individuals alike monitor, analyze, and manage governance participation across multiple Cosmos SDK chains. Built specifically for the **Vultr Track**, it combines autonomous agent technology with modern web interfaces and hybrid AI analysis.

🎯 Problem Statement

Enterprise organizations holding Cosmos assets face significant challenges:

- **Governance Complexity**: Tracking proposals across 50+ Cosmos chains
- **Risk Management**: Ensuring votes align with organizational policies
- **Compliance Requirements**: Maintaining audit trails and transparency
- **Resource Constraints**: Limited staff to monitor governance 24/7
- **Decision Quality**: Need for expert analysis of technical proposals
- most importantly, **Poor Decentralization**: POS Blockchains can sometimes be effectively managed only by a dozen stakeholders (core dev team(s), most delegated to validators...) breaking the ethos on Distribution of power.

💡 Solution

Our GRC Co-Pilot provides a comprehensive enterprise solution:

- **Multi-Agent Monitoring**: Autonomous agents track governance across chains
- **AI-Powered Analysis**: Groq + Llama hybrid system analyzes proposals
- **Enterprise Dashboard**: Web-based interface for policy management
- **Compliance Integration**: Audit trails, reporting, and export capabilities
- **Flexible Deployment**: Vultr VPS, AWS CloudFormation, or hybrid options

Experience the platform with live proposal data from 48+ Cosmos chains

Work in Progress (WIP) Demo:
This is a live demo showcasing the core AI analysis capabilities. Many features are still under development or integration/deployment.

What's Working Now:
- **Live Data:** Real governance proposals from 48+ Cosmos chains
- **AI Analysis:** Automated proposal analysis using OpenAI/Groq
- **Risk Assessment:** Basic risk scoring and recommendations
- **Multi-Chain Monitoring:** Osmosis, Akash, Dymension, Regen Network, and more

Future Vision - Fetch.ai uAgents:
This demo will evolve into a full autonomous agent ecosystem powered by Fetch.ai uAgents, enabling:
- Autonomous governance participation
- Cross-chain coordination
- Advanced multi-agent analysis
- Decentralized decision making

A governance dashboard showcasing all latest proposals on Cosmos-SDK chains

With detailed aggregated data & AI analysis per active proposal & a dashboard to pilot votes

Active Proposals with AI Analysis

6 proposals

Restructuring Liquidity - 15% Emissions to Liquidity DAO

APPROVE

`Regen Network` `OPENAI`

This proposal outlines the technical changes to be implemented if passed. Whereas, the REGEN Liquidity DAO (LP DAO) is an unincorporated entity with...

Confidence: 85%

MEDIUM

🧠 AI Analysis

The proposal to restructure liquidity and increase community tax parameter to support the LP DAO could significantly enhance the Regen Network's governance and economic model. It could lead to a more decentralized and community-driven ecosystem, which aligns with the network's ethos. However, it also introduces a risk of power concentration within the LP DAO and potential community backlash. The technical feasibility of the proposal is high, but it requires careful implementation and risk management.

📈 Economic: POSITIVE   🛡 Security: MINIMAL

⚙ Implementation: MEDIUM   🌐 Ecosystem: NEUTRAL

📅 Submitted: 2025-07-07T20:46:52.884687853Z
🕐 Voting ends: 2025-07-14T22:56:57.012142117Z

update desmos ibc client

APPROVE

`Dymension` `OPENAI`

update up or down ibc client

Confidence: 85%

MEDIUM

🧠 AI Analysis

The proposal to update the Desmos IBC client aligns with Dymension's focus on interoperability and cross-chain functionality. It strengthens Dymension's position in the Cosmos ecosystem and enhances its IBC compatibility. However, the proposal carries some implementation risks and potential security vulnerabilities. The economic impact is expected to be positive, with potential for increased network activity and token value. The proposal aligns well with the organization's policy framework, with a medium risk tolerance and a focus on security and governance.

📈 Economic: POSITIVE   🛡 Security: MODERATE

⚙ Implementation: MEDIUM   🌐 Ecosystem: NEUTRAL

📅 Submitted: 2025-07-03T17:22:57.886112846Z
🕐 Voting ends: 2025-07-08T17:55:01.139599349Z

Allowing users to select personal governance policies to guide AI analysis

📄 Basic Policy Configuration

Policy Name

Conservative Strategy

A descriptive name for your governance policy

Risk Tolerance

Medium - Balanced risk/reward approach ⌄

Auto-Vote Confidence Threshold: 80%

Minimum confidence level required for automatic voting (recommendations above this threshold will be auto-executed)

⚖️ Analysis Weight Configuration

Configure how much weight each factor has in the AI analysis decision-making process. Total must equal 100%.

Security Weight: 40%

Economic Weight: 30%

Governance Weight: 20%

Community Weight: 10%

Total Weight:	100%

Weights should total 100% for optimal analysis

👁 Policy Preview & Analysis

Current Policy Summary

Policy Name: Conservative Strategy

Risk Tolerance: MEDIUM

Auto-Vote Threshold: 80%

Security Focus: 40%

Economic Focus: 30%

Governance Focus: 20%
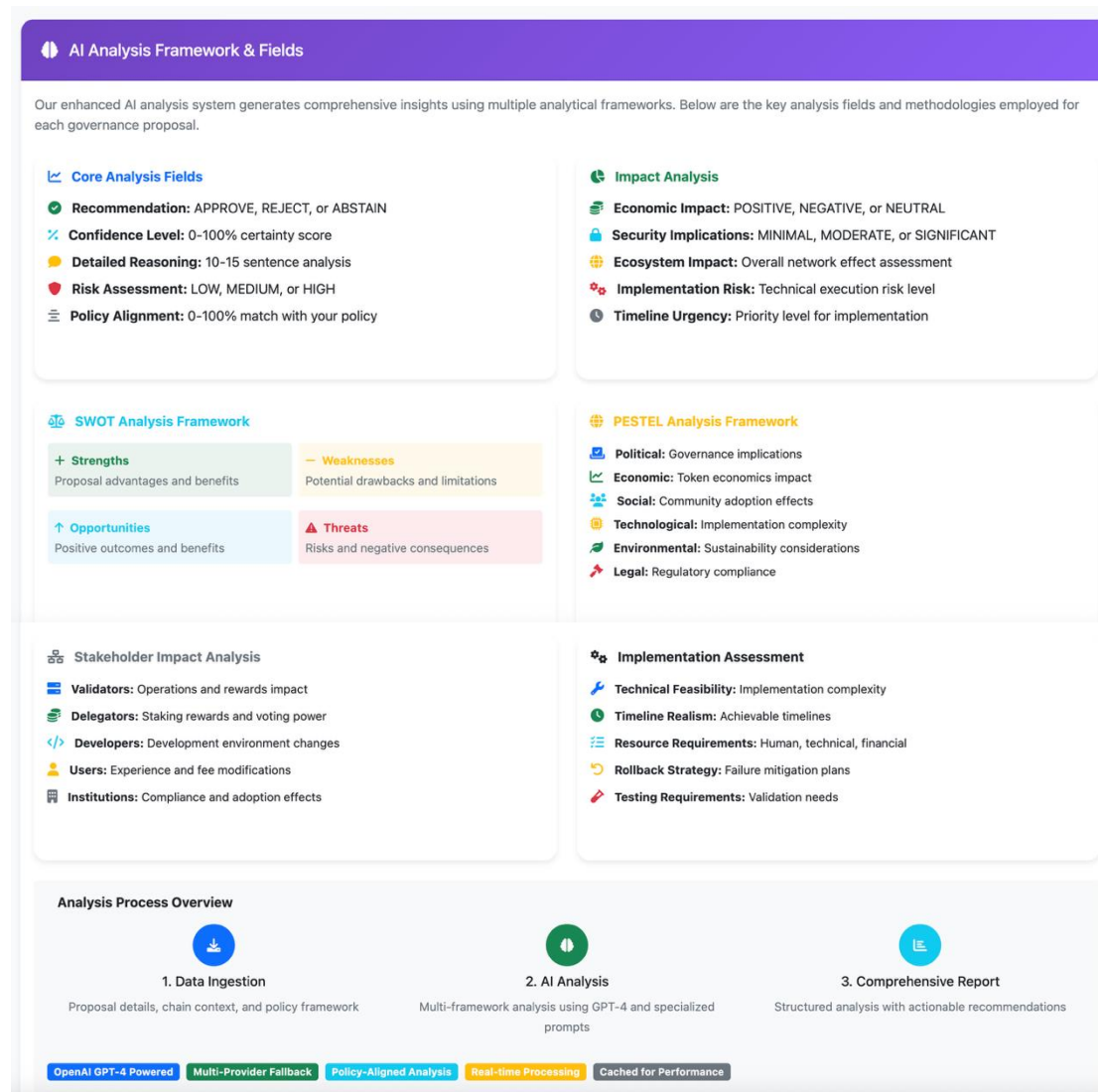
Community Focus: 10%

Policy Interpretation

This medium risk policy "Conservative Strategy" prioritizes security considerations above all else. The 80% auto-vote threshold allows for moderate automation while maintaining oversight on uncertain decisions.

← Cancel | 💾 Save Policy Settings

AI analysis is professional grade and can be further customized tailored to key aspects

AI Analysis Framework & Fields

Our enhanced AI analysis system generates comprehensive insights using multiple analytical frameworks. Below are the key analysis fields and methodologies employed for each governance proposal.

Core Analysis Fields

- **Recommendation:** APPROVE, REJECT, or ABSTAIN
- **Confidence Level:** 0-100% certainty score
- **Detailed Reasoning:** 10-15 sentence analysis
- **Risk Assessment:** LOW, MEDIUM, or HIGH
- **Policy Alignment:** 0-100% match with your policy

Impact Analysis

- **Economic Impact:** POSITIVE, NEGATIVE, or NEUTRAL
- **Security Implications:** MINIMAL, MODERATE, or SIGNIFICANT
- **Ecosystem Impact:** Overall network effect assessment
- **Implementation Risk:** Technical execution risk level
- **Timeline Urgency:** Priority level for implementation

SWOT Analysis Framework

+ Strengths	— Weaknesses
Proposal advantages and benefits	Potential drawbacks and limitations
↑ Opportunities	⚠ Threats
Positive outcomes and benefits	Risks and negative consequences

PESTEL Analysis Framework

- **Political:** Governance implications
- **Economic:** Token economics impact
- **Social:** Community adoption effects
- **Technological:** Implementation complexity
- **Environmental:** Sustainability considerations
- **Legal:** Regulatory compliance

Stakeholder Impact Analysis

- **Validators:** Operations and rewards impact
- **Delegators:** Staking rewards and voting power
- **Developers:** Development environment changes
- **Users:** Experience and fee modifications
- **Institutions:** Compliance and adoption effects

Implementation Assessment

- **Technical Feasibility:** Implementation complexity
- **Timeline Realism:** Achievable timelines
- **Resource Requirements:** Human, technical, financial
- **Rollback Strategy:** Failure mitigation plans
- **Testing Requirements:** Validation needs

Analysis Process Overview

1. Data Ingestion
Proposal details, chain context, and policy framework

2. AI Analysis
Multi-framework analysis using GPT-4 and specialized prompts

3. Comprehensive Report
Structured analysis with actionable recommendations

`OpenAI GPT-4 Powered` `Multi-Provider Fallback` `Policy-Aligned Analysis` `Real-time Processing` `Cached for Performance`

Recap of envisioned full features

🖼️ Enterprise-Ready Features

- **Multi-Tenant Architecture**: Organization-level isolation and management
- **Policy Template System**: Configurable governance policies per organization
- **Compliance Dashboard**: Real-time compliance scoring and reporting
- **Audit Trail**: Complete vote history and decision tracking
- **Role-Based Access**: Admin, user, and super-admin permissions
- **JWT Authentication**: Secure, token-based authentication system

🌐 Web-Based Interface

- **Modern Dashboard**: Responsive Bootstrap UI with real-time updates
- **Proposal Management**: Live feeds with AI recommendations
- **One-Click Actions**: Approve/Reject/Abstain with reasoning capture
- **JSON/CSV Export**: Compliance-ready export functionality
- **Health Monitoring**: System status and service health checks

🤖 Hybrid AI Analysis

- **Openai & Groq Integration**: gpt-4o & llama3-70b-8192 model for fast analysis
- **Llama Support**: Local model inference with transformers
- **Fallback Systems**: High availability with graceful degradation
- **Preference Learning**: AI learns from admin approvals/overrides
- **Confidence Scoring**: Risk assessment and policy alignment

🚀 Flexible Deployment

- **Vultr VPS**: Cost-effective containerized deployment
- **AWS CloudFormation**: Enterprise cloud infrastructure
- **On-Chain Agents**: Fetch.ai blockchain integration
- **Hybrid Architecture**: Best of cloud and blockchain worlds

Call to action !

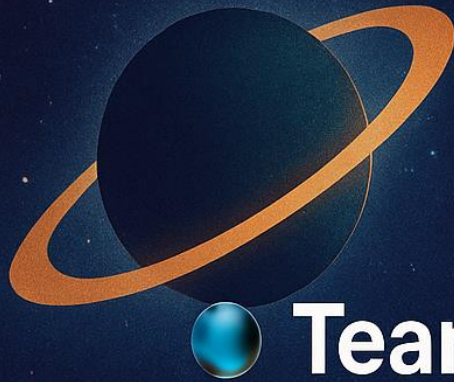|	
Why It Matters	• Reduces governance "noise" for token-holding teams • Flags risky proposals early—no more last-minute scrambling • Creates a public, auditable voting record for transparency
What's Next (Open Roadmap)	**Post-Hackathon:** • Add more Cosmos chains (Axelar, Kujira, Sei…) • Plug-in kit for DAO front-ends (Snapshot-style) • Port agents to Fetch.ai main-net with uAgents • Experiment with vector DB policy matching
Get Involved!	**Hack with Us** → Fork the repo, open an issue, suggest features 🛠 **DAO Builders** → Adapt the dashboard for your community vote flow 📦 **Agent Enthusiasts** → Help migrate agents on-chain (Fetch grants available) 🤖 **Test Flight** → Spin up the Vultr demo & send feedback in Discord 🚀 **Contact:** github.com/zmazz