UMBRELLISH

Manifesto

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An Intent-Centric Standard for Agentic Blockchain Interaction

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Abstract: A New Interaction Paradigm

**Other products help users do things in DeFi.
Umbrellish defines how anything is done on blockchain.**

The blockchain ecosystem is paralyzed by interface fragmentation. Users confront a disjointed landscape of isolated protocols, each with unique interfaces, security models, and operational risks. Current "AI-powered" solutions merely add a conversational layer atop this broken paradigm - they are adapters to chaos, not a cure for it.

Umbrellish is not another AI helper. It is a foundational standard.

Umbrellish introduces a protocol-like standard for intent-based communication between users and on-chain systems. It decouples user intent ("what") from transactional execution ("how") and embeds knowledge, validation, and continuous monitoring into the interaction layer itself. By providing a universal interface for secure, intelligent, and agentic interaction, Umbrellish enables a future where protocols can be **headless**, and users operate through a single, coherent lens of intelligence and safety.

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1. Introduction

Despite technological progress, crypto products remain difficult for ordinary users to navigate. Managing private keys, understanding gas fees, bridging assets across chains, and interacting with unfamiliar wallet interfaces create significant friction.

Many products were designed primarily by engineers for technically sophisticated users. For mainstream audiences, the experience remains fragile and confusing. Until usability improves dramatically, the full potential of blockchain technology will remain inaccessible to most people.

1.1. The Fragmentation & Usability Crisis

Blockchain's potential remains constrained not by infrastructure shortages, but by a profound crisis of interaction and usability. Designed largely by engineers for technically sophisticated early adopters, these systems leave mainstream audiences with confusing, fragile experiences that deter widespread adoption.

The proliferation of chains and protocols has imposed heavy burdens on users and developers alike:

- **For Users:** Mastering countless UIs, persistent friction from managing private keys, unpredictable gas fees, manual cross-chain bridging, and inconsistent wallet interfaces - all while bearing significant operational risk.
- **For Developers:** Constant reinvention of frontends, accommodation of chain-specific quirks, and rebuilding of basic safety tooling instead of advancing core innovation.

This fragmentation is the primary barrier to mainstream adoption. The solution is not more interfaces, but a **new standard for communication** with the blockchains: user focused, intent-centric, chain-abstracted, and as invisible as HTTP is in the modern web.

1.2. The Emerging Intent Landscape

The industry is already shifting toward intent-based paradigms. Protocols like CoW Swap, UniswapX, and 1inch have pioneered intent-centric architectures for specific use cases (primarily trading). LI.FI's "Open Intent Framework" (ERC-7683) represents a significant step toward standardizing cross-chain intent execution.

However, these implementations remain **domain-specific** (focused on swaps/bridging) and **architecturally narrow**. They solve "HOW" for specific actions but don't establish a universal standard for "WHAT" across all on-chain interactions.

Umbrellish builds upon this momentum but generalizes it: we treat **Intent as the universal primitive** for all blockchain interaction, not just trading. Just as automated maps route planning replaced manual point-to-point navigation, Umbrellish abstracts away protocol-specific complexity, allowing users to focus solely on their destination.

2. Core Thesis: The Umbrellish Standard

Umbrellish proposes a standard comprising four pillars:

1. **Intent as the Primitive:** Interaction begins with a declarative goal (e.g., "Optimize yield across ETH mainnet and Arbitrum"), not a transaction.
2. **Knowledge as the Engine:** A continuously updated, credible knowledge layer of on-chain data, protocol intel used to feed agentic reasoning.
3. **Validation as a Service:** Integrated, pre-execution protocol verification and real-time health monitoring are mandatory, not optional.
4. **Communication as a Layer:** A native messaging fabric connects users with agents and protocols, enabling contextual coordination without external platforms.

This standard transforms the relationship between users and chains from **manual navigation** to **managed conversation**.

3. Architectural Components

3.1. The Intent Interpreter & Agentic Core

- **Semantic Parsing:** Translates natural language into actionable objectives.
- **Plan Generation:** Agents construct execution pathways using the Knowledge Layer, evaluating for optimality, cost, and safety.
- **Execution Safety:** The AI **plans but does not execute**. Execution is approved by users, validated by the backend security engine, and in the future can be optionally delegated to deterministic, auditable modules executing in TEE (Trusted Execution Environment).

3.2. The Canonical Knowledge Layer

- **Sources:** On-chain state, contract ABIs, audit reports, documentation, governance history, etc.
- **Structure:** Contextual embeddings organized for low-latency Retrieval-Augmented Generation (RAG), ensuring responses are grounded, verifiable, and free of hallucination.

3.3. The Validation & Security Layer

This layer distinguishes Umbrellish from passive AI tools.

- **Pre-Integration Vetting:** Protocols undergo assessment (contract provenance, audit quality, economic design) before being eligible for agent use.
- **Real-Time Health Monitoring:** Continuous surveillance for liquidity shocks, contract upgrades, governance attacks, and exploit signatures.
- **Proactive User Defense:** Automated alerts and mitigation recommendations are pushed to users when associated protocols are at risk.

3.4. The Native Communication Layer

- **User ⇔ Agent**

  Interaction with Umbrellish

- **User ⇔ Protocol**

  Protocols can broadcast status updates, requirement changes, or warnings directly into a user's Umbrellish context.

- **Agent ⇔ Agent**

  Enables complex, multi-step operations coordinated across specialized agents.

4. The Headless Protocol Future

The Umbrellish standard unlocks a new design space: **headless protocols.**

- Protocols can focus exclusively on robust, efficient on-chain logic, relying on the Umbrellish standard as their default interface.
- New protocols can be integrated **semantically** via adapters, even before custom UIs exist.
- This reduces protocol development overhead and ensures every protocol is instantly accessible through a secure, intelligent agentic layer.

5. The Umbrellish Ecosystem: Embeddable and Universal

The Umbrellish standard is implemented as an embeddable layer, not a monolithic app.

- **Integration Points:** Wallets, browser extensions, mobile apps, and existing crypto analytics tools.
- **Universal Interface:** This positions Umbrellish as the TCP/IP for on-chain interaction - a foundational standard upon which specialized experiences are built.

6. Roadmap

1. **MVP**
   A prototype/MVP dApp (mobile friendly) with basic intent parsing, knowledge data driven and validation integrated with one or two protocols.

2. **Foundation**
   Incorporation of major blockchain protocols, introducing paid services/revenue flow. Introduction of a unique Knowledge and Analysis Layer.

3. **Expansion**
   Umbrellish SDK with intent parsing and validation for incorporated protocols, developer tools for seamless protocol integration. Extend to multi-client UIs (Telegram, Discord etc.).

4. **Ecosystem Growth**
   Expansion beyond DeFi into governance, NFTs, and broader on-chain systems.

7. Conclusion: Towards a Coherent Ecosystem

Umbrellish moves beyond building yet another tool for a fragmented blockchain landscape. It proposes a **cohesive standard** that realigns the ecosystem around the user. By settling a new protocol for users' interaction with blockchain - one built on intent, knowledge, and embedded security - Umbrellish provides the missing layer that makes blockchain systems truly usable, safe, and universally accessible.

It is not an alternative to the current paradigm - it is the necessary foundation for the new one.

Appendix A: Key Differentiators from Current "AI Agents"

Most current solutions are narrow "copilots" or transaction automators. Umbrellish is architecturally distinct:

Feature	Typical "AI Agent" / Copilot	Umbrellish Standard
Primary Function	Transaction automation & simple query response for a specific protocol or wallet.	Universal intent resolution & agentic planning across *any* integrated protocol.
Knowledge Layer	Often limited to static documentation or a single protocol's state. Dynamic but narrow.	**Canonical, cross-protocol knowledge graph** built from live data, audits, outcomes, and research. Compounding intelligence.
Security Model	Reactive or user-delegated. Assumes the frontend and contracts are safe.	**Proactive, integrated validation layer**. Vets protocols pre-integration and monitors health in real-time. Security is a core service.
Architectural Goal	Improve UX for an existing product (wallet, DEX).	**Replace the need for protocol-specific UX.** Establish a new interaction standard for the entire ecosystem: User Tells - Umbrellish Does.
Protocol Relationship	Consumer. Built to interact with protocols as they exist.	**Symbiotic.** Enables "headless protocols" and defines the interface through which they are accessed, introducing a communication layer.
Output	A suggested transaction or answer.	A validated **execution plan**, context-aware alerts, and a record in the communication layer.

Summary: Existing agents are **tools within the old paradigm**.
Umbrellish is the **infrastructure for a new one.**