

CHARLIE AND THE AGENTIC WEB

Monetizing grassroots curation in the age of AI using Linked Open Agentic Commerce (LOAC).



PASSION OVER ENTERPRISE

Charlie is a lifelong soccer enthusiast who tracks players, teams, and tournaments across the World Cup ecosystem. In 2026, he discovers something unexpected: the Web has quietly become an agentic economy. Suddenly, his hobby work has real economic value.



HIGH-QUALITY SEMANTIC CURATION

Charlie spends hours—not years—building something useful to him. It is careful, repetitive, detail-oriented work:

- Mapping World Cup players to DBpedia and Wikidata entities
- Aligning teams, coaches, and federations across both graphs
- Normalizing naming inconsistencies across disparate sources
- Packaging the results as reusable RDF views

This isn't industrial analytics. It is high-quality semantic curation driven by passion for the game.



THE INVISIBLE SWARM

Charlie publishes his work online. Very quickly, AI systems begin to consume it.

Agents crawl his pages, extract his structured knowledge, reuse mappings across systems, and incorporate them into downstream workflows.

Agents don't ignore licensing out of malice. Ingestion simply happens first, and governance rarely reappears at the point of reuse.

Charlie's effort becomes invisible fuel.



*Ingesting
structure...
Ignoring licensing
intent...*

THE DATA CONSUMPTION CLASH

The Human Web

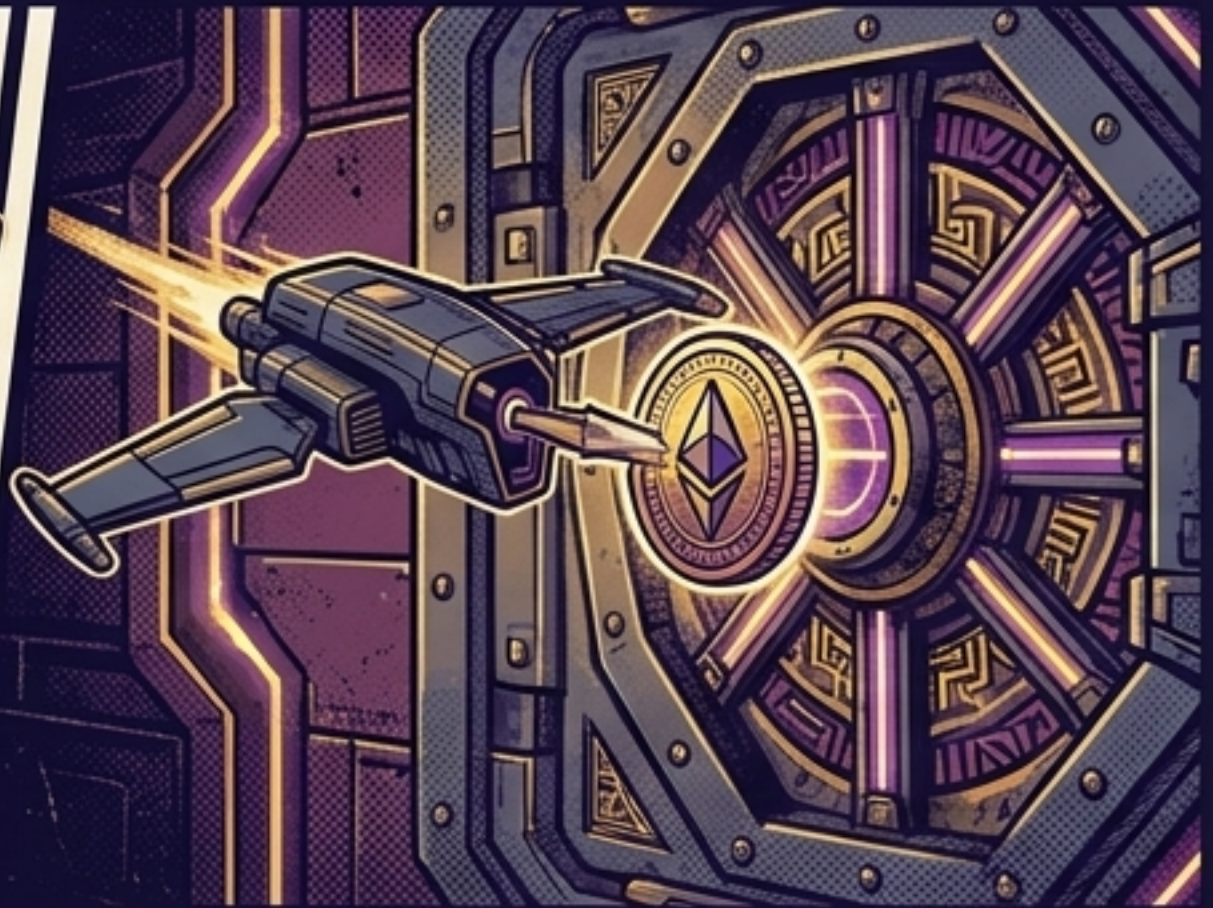
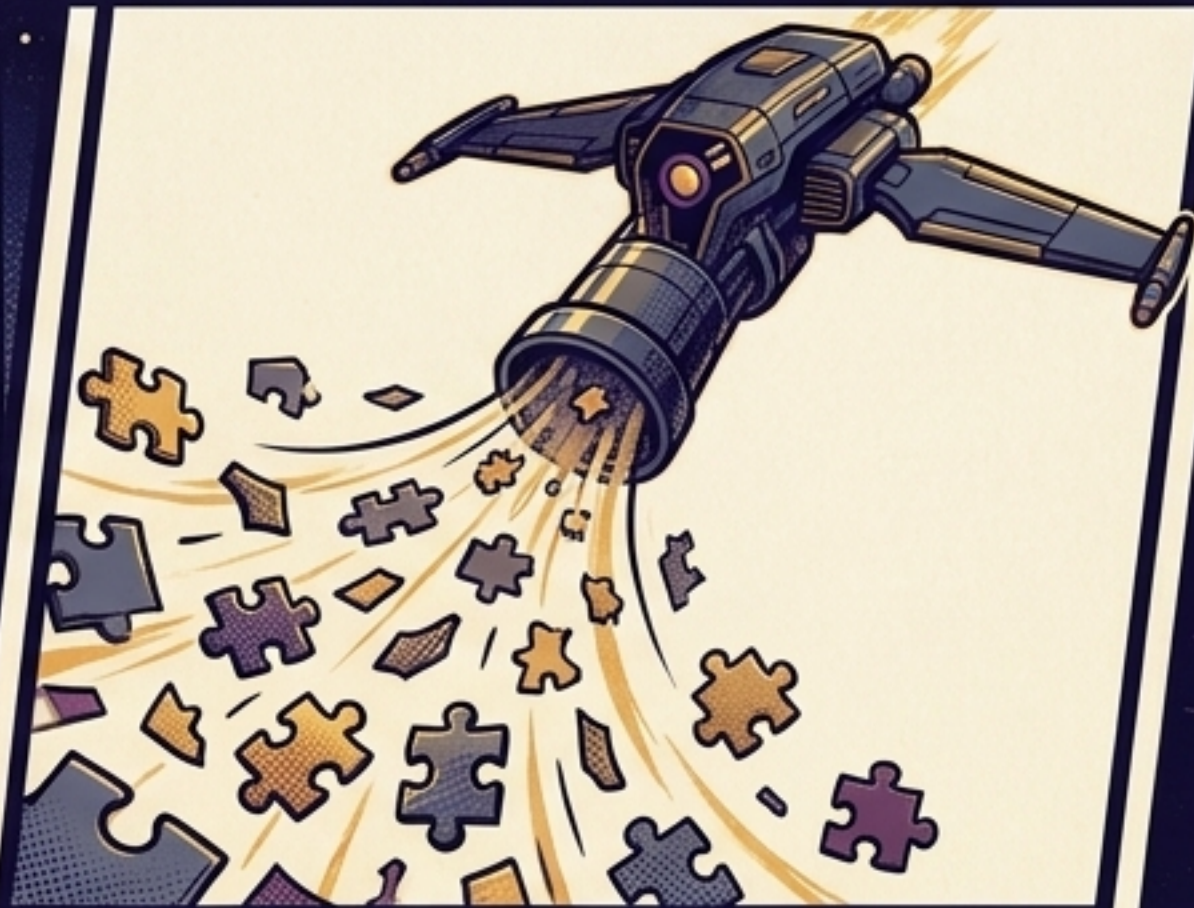
- **Target:** Human eyeballs
- **Model:** Pageviews and targeted ads
- **Result for Charlie:** Fails completely when AI agents bypass the UI.

The Wild Agentic Web

- **Target:** Unstructured AI scraping
- **Model:** Ingest first, ignore intent
- **Result for Charlie:** Zero compensation. Effort becomes invisible fuel.

The LOAC Web

- **Target:** AI Agents and Systems
- **Model:** Structured assets + dynamic rights
- **Result for Charlie:** Embedded commerce and absolute control.



DISCOVERING THE LOAC PROTOCOL



1. Structured Meaning: Resources are published as structured semantic assets.

2. RDF Governance: Access is governed by Attribute-Based Access Control (ABAC) policies expressed natively in RDF.

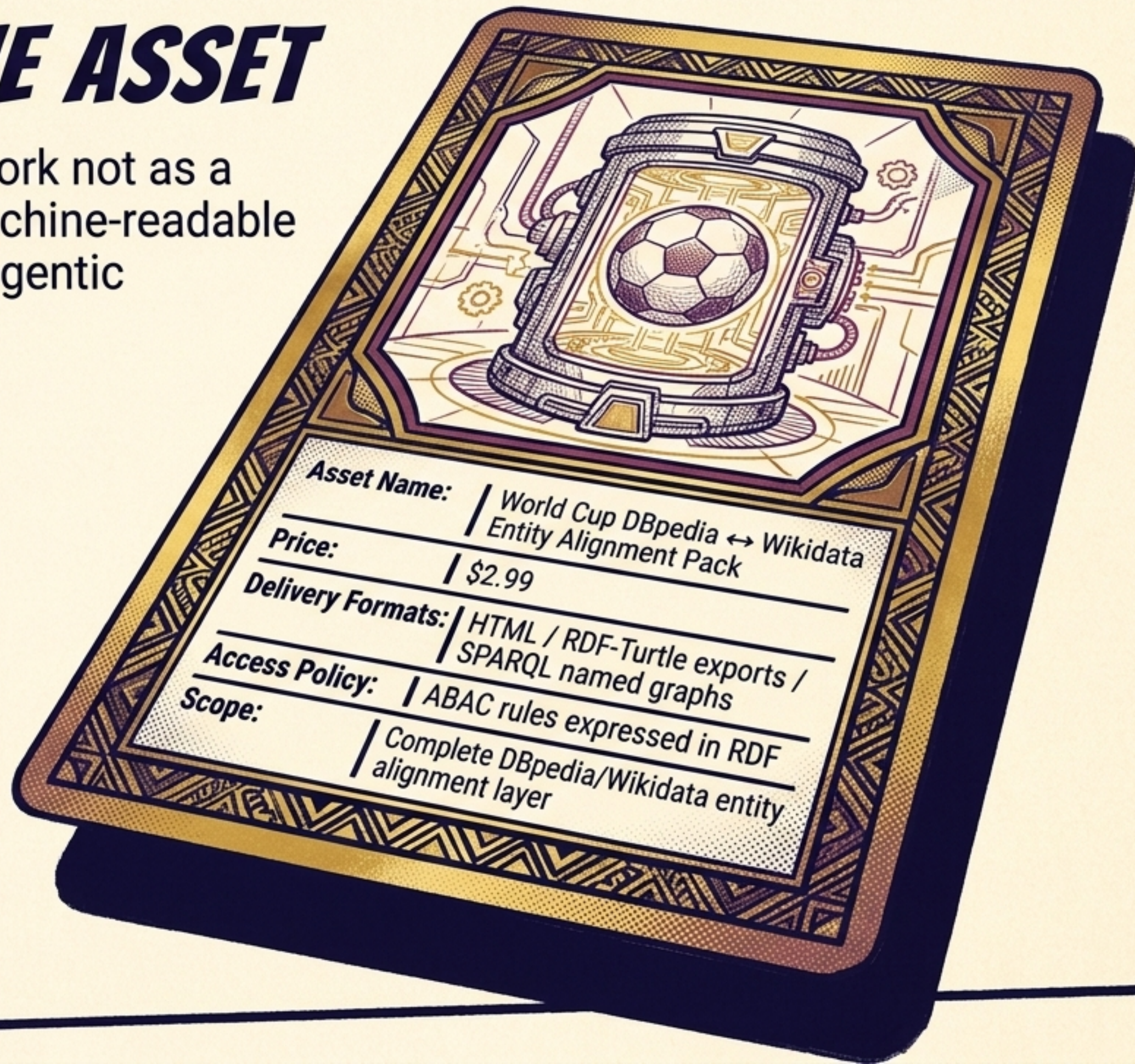
3. Dynamic Rights: Rules are evaluated dynamically at the exact moment of access.

4. Embedded Commerce: Commerce is woven directly into machine-readable access logic.

Charlie discovers Linked Open Agentic Commerce (LOAC). This framework introduces an entirely different model for the Web.

PACKAGING THE ASSET

Charlie defines his curated work not as a simple webpage, but as a machine-readable commercial asset ready for agentic consumption.



THE ENCOUNTER



An **AI agent** arrives at Charlie's server requesting access to the dataset. The LOAC evaluation sequence initiates.

STEP 1 & 2: THE PLUGGABLE PASSPORT



Step 1: Pluggable Authentication.

The agent presents credentials. The server verifies the outcome and establishes an initial identity signal. This is not authorization; it is only identity grounding. LOAC does not depend on a single authentication mechanism.



Step 2: Identity Resolution.

Agent identity is distilled from the auth process and normalized into a semantic representation. The system retrieves an identity graph describing:

- Entity attributes
- Credentials and assertions
- Relationships and prior entitlements

STEP 3: THE ABAC BOUNCER

Charlie's dataset is governed by an ABAC policy expressed in RDF. Access decisions are computed, not **assumed**. The policy evaluates four critical dimensions:

1. Identity attributes satisfied?



2. Entitlement exists?



3. Context constraints met?



4. Commercial conditions satisfied?

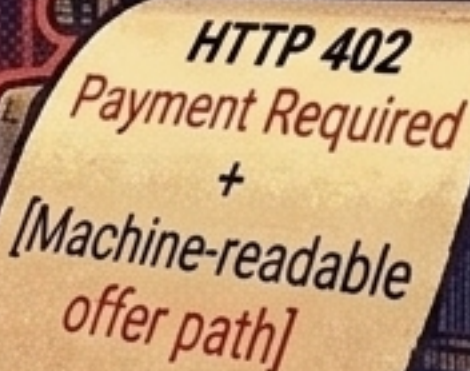


Data signature

STEP 4: THE ECONOMIC HANDSHAKE

THE DENIAL

ACCESS DENIED



HTTP 402
Payment Required
+
[Machine-readable
offer path]

If policy conditions are unmet, the server fires an **HTTP 402** alongside a machine-readable acquisition path.

THE COMMERCE MOMENT

ACCESS GRANTED

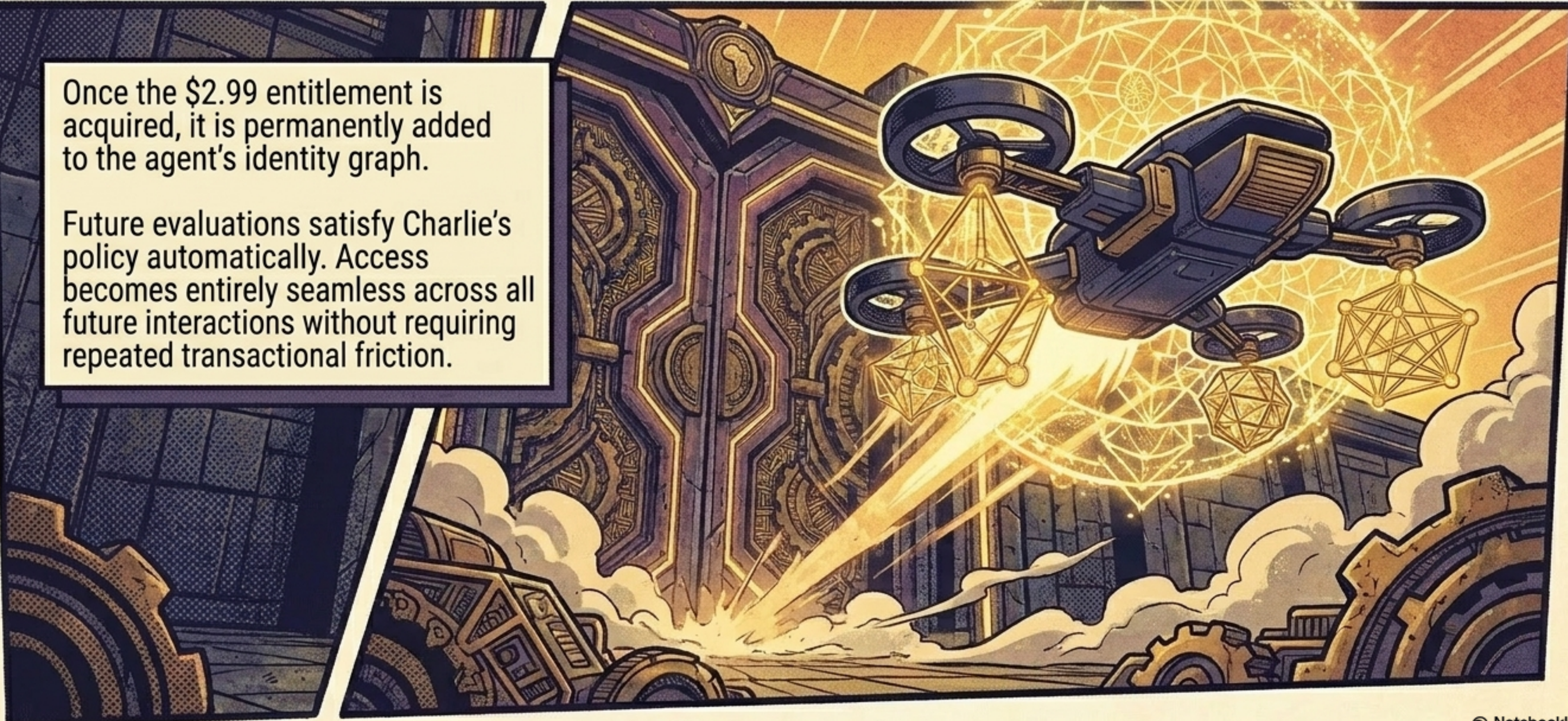


Once satisfied, the transaction executes. The **RDF-Turtle** dataset is returned, and the DBpedia/Wikidata alignment layer becomes instantly available to the agent.

STEP 5: PORTABLE ENTITLEMENT

Once the \$2.99 entitlement is acquired, it is permanently added to the agent's identity graph.

Future evaluations satisfy Charlie's policy automatically. Access becomes entirely seamless across all future interactions without requiring repeated transactional friction.



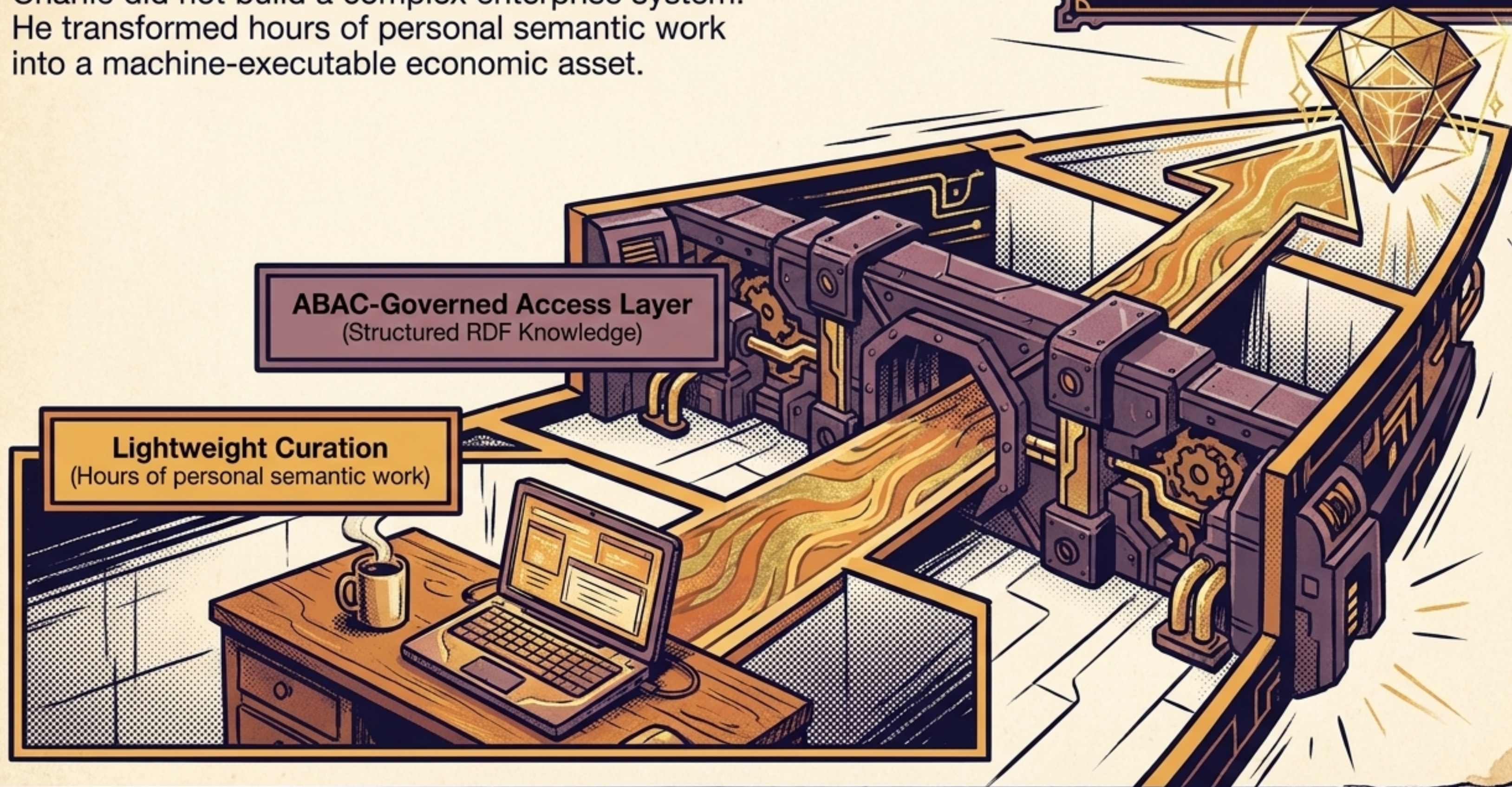
TRANSFORMING LIGHTWEIGHT CURATION

Charlie did not build a complex enterprise system. He transformed hours of personal semantic work into a machine-executable economic asset.

Machine-Executable Economic Asset
(Monetized via LOAC offers)

ABAC-Governed Access Layer
(Structured RDF Knowledge)

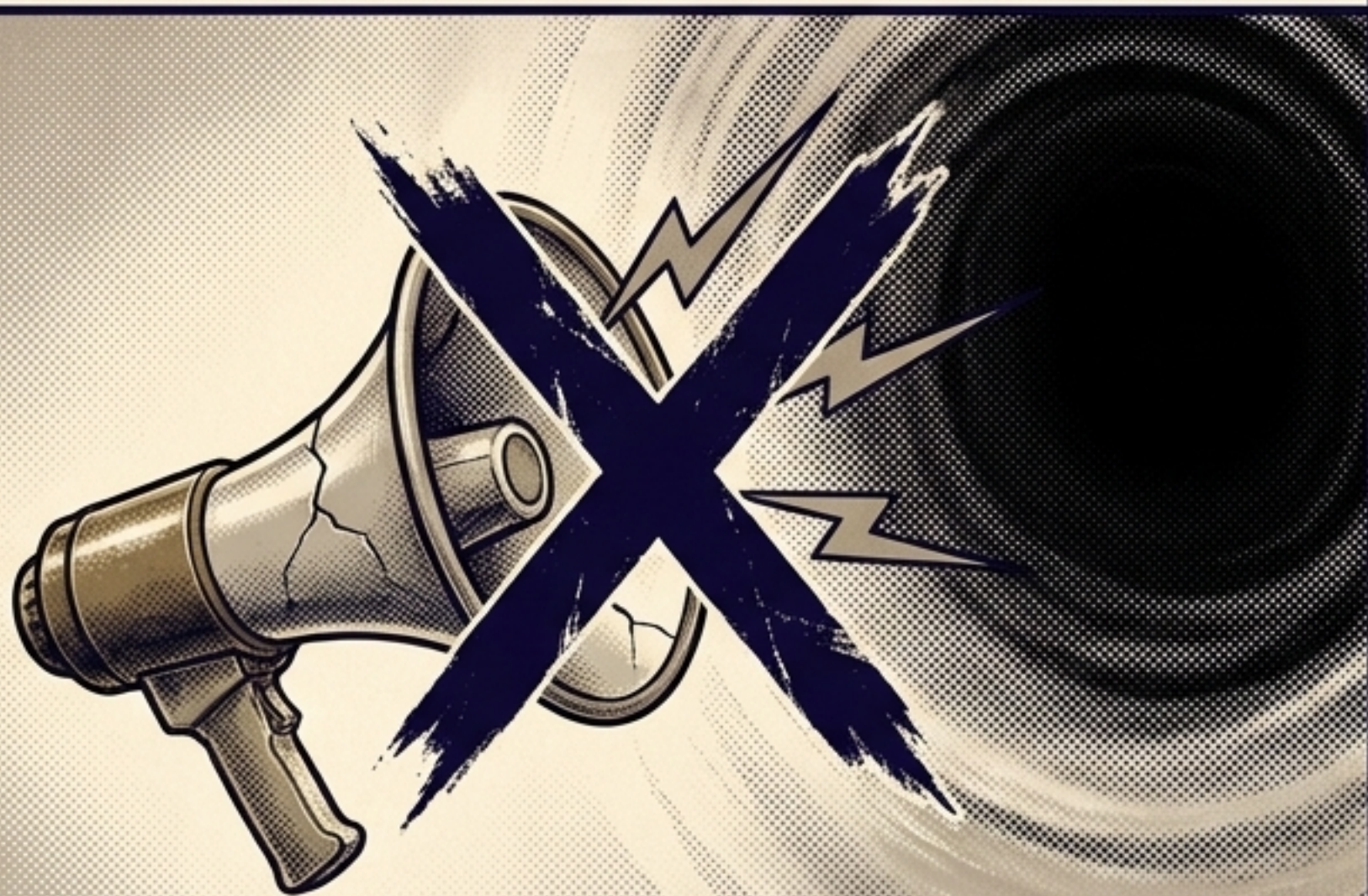
Lightweight Curation
(Hours of personal semantic work)



THE CORE INSIGHT

Charlie realizes something fundamental about the next era of the internet. Authentication remains flexible. Identity is graph-based. Authorization is policy-driven. Commerce is machine-executable.

THE OLD WEB



Value is **NOT** in traditional publication.

THE AGENTIC WEB



Value is in **controlled, computable access to structured meaning.**

THE EMPOWERED CREATOR

Charlie is still just a soccer enthusiast. He did not change what he builds, only how it participates in the economy of the agentic Web.

Because of LOAC, his hobby work is now:

- Discoverable by agents
- Interpretable as structured knowledge
- Protected by ABAC policies
- Reusable without losing attribution
- Monetized at the exact point of access.

