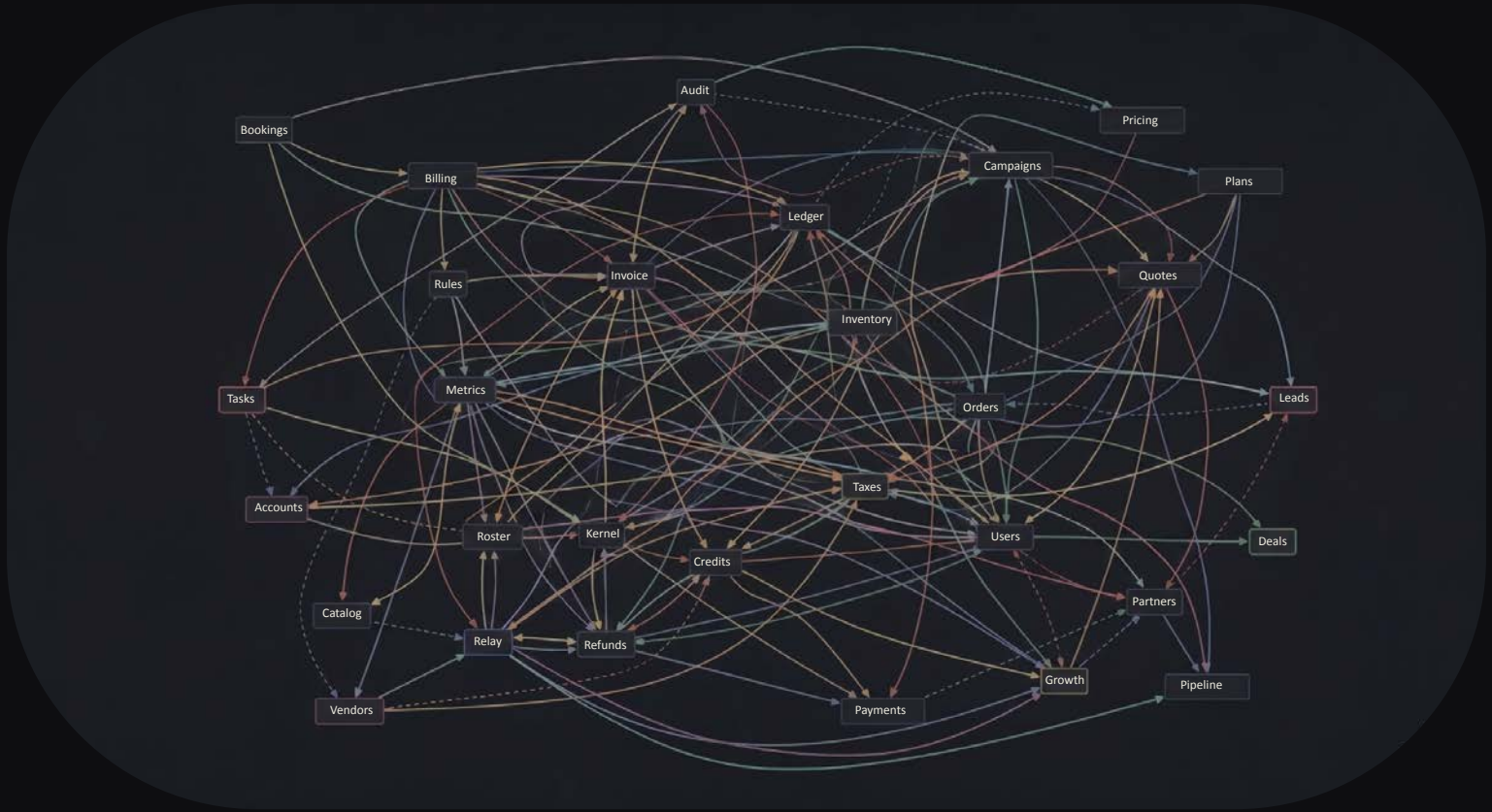
The Architecture Hub

Teaching AI to Understand Your System (Before It Codes It)

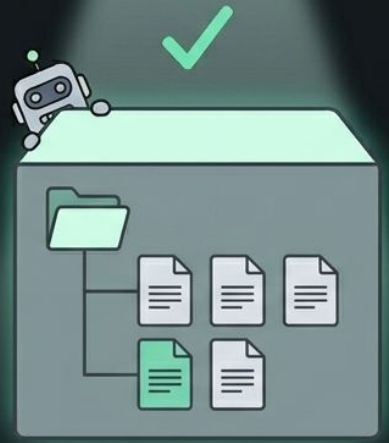
Lior Schejter | May 2026

How well does your AI agent understand your system?

Not just one repo, but how 100+ services fit together?

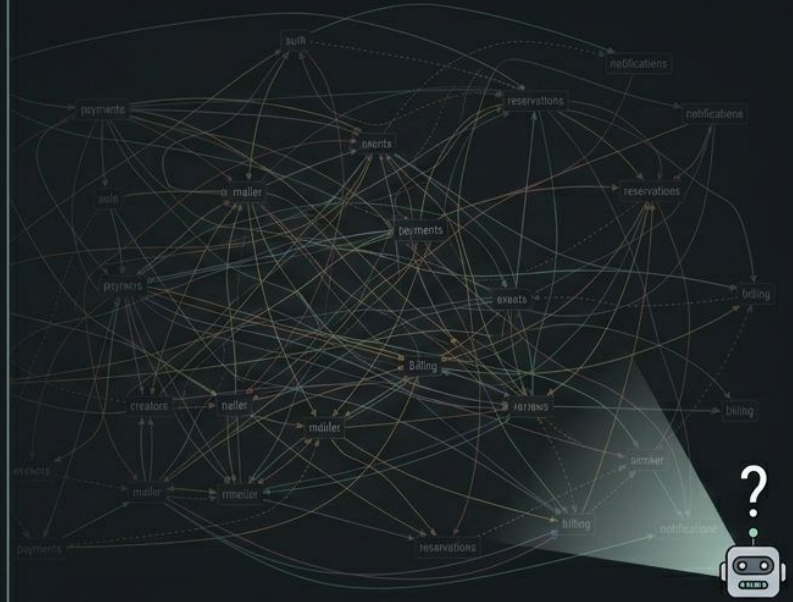

Audit
Bookings
Pricing
Billing
Campaigns
Plans
Ledger
Rules
Invoice
Quotes
Inventory
Tasks
Metrics
Orders
Leads
Taxes
Accounts
Roster
Kernel
Users
Deals
Credits
Partners
Catalog
Relay
Refunds
Growth
Pipeline
Vendors
Payments

What AI Sees



One Repository

What AI Needs to See



Human Documentation

Entropy wins.

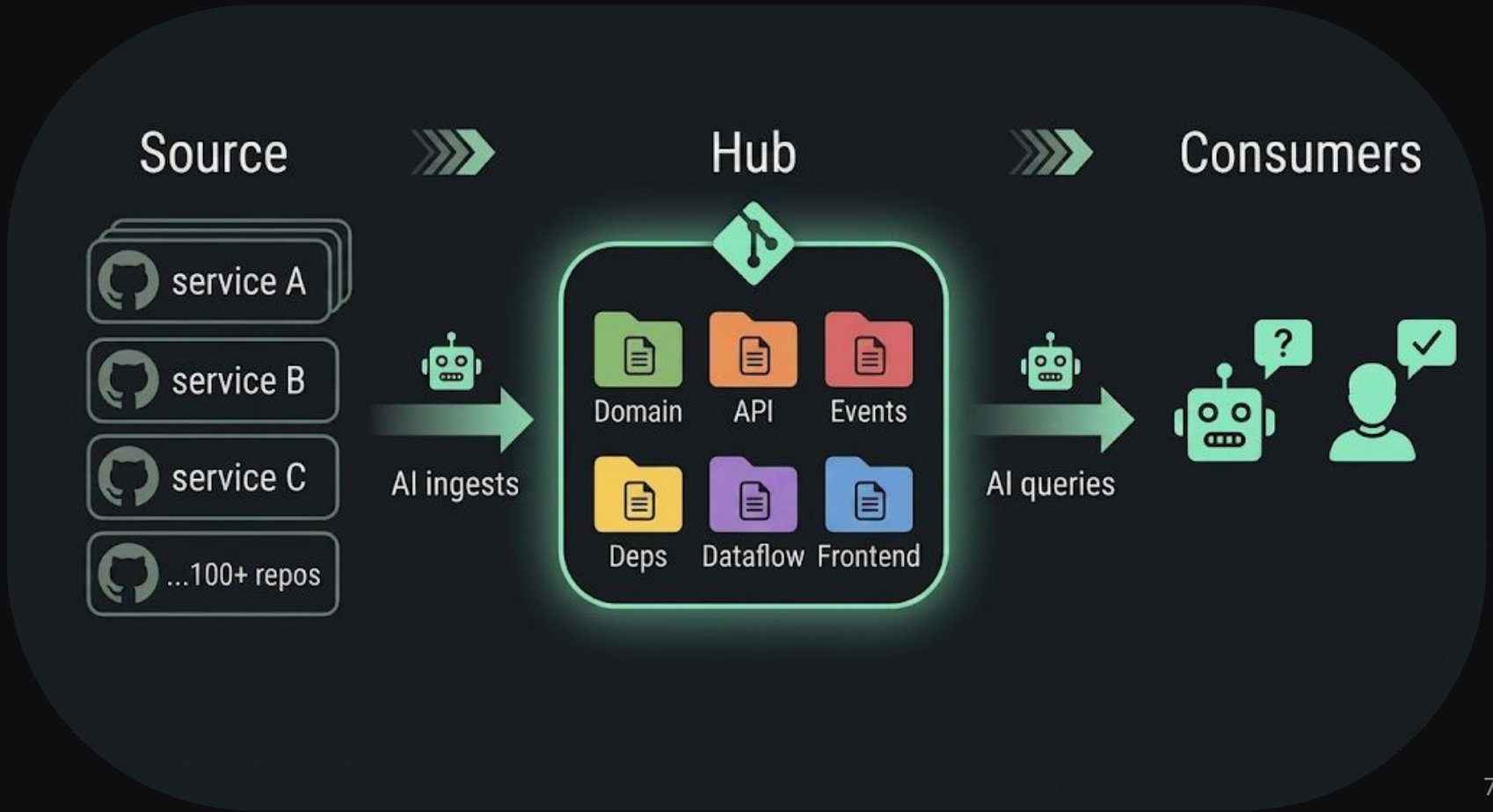
Code Indexing

Single-repo vision.

AI is Smart Enough

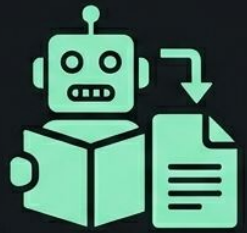
… and Tireless

The Architecture Hub



Core Design Principles/Constraints

Zero infrastructure



AI-native I/O

Diffable & reviewable

Humans in the loop

Scales to 100+ repos

Files Beat Databases

Graph DB

Wiki

Embedded docs

vs.

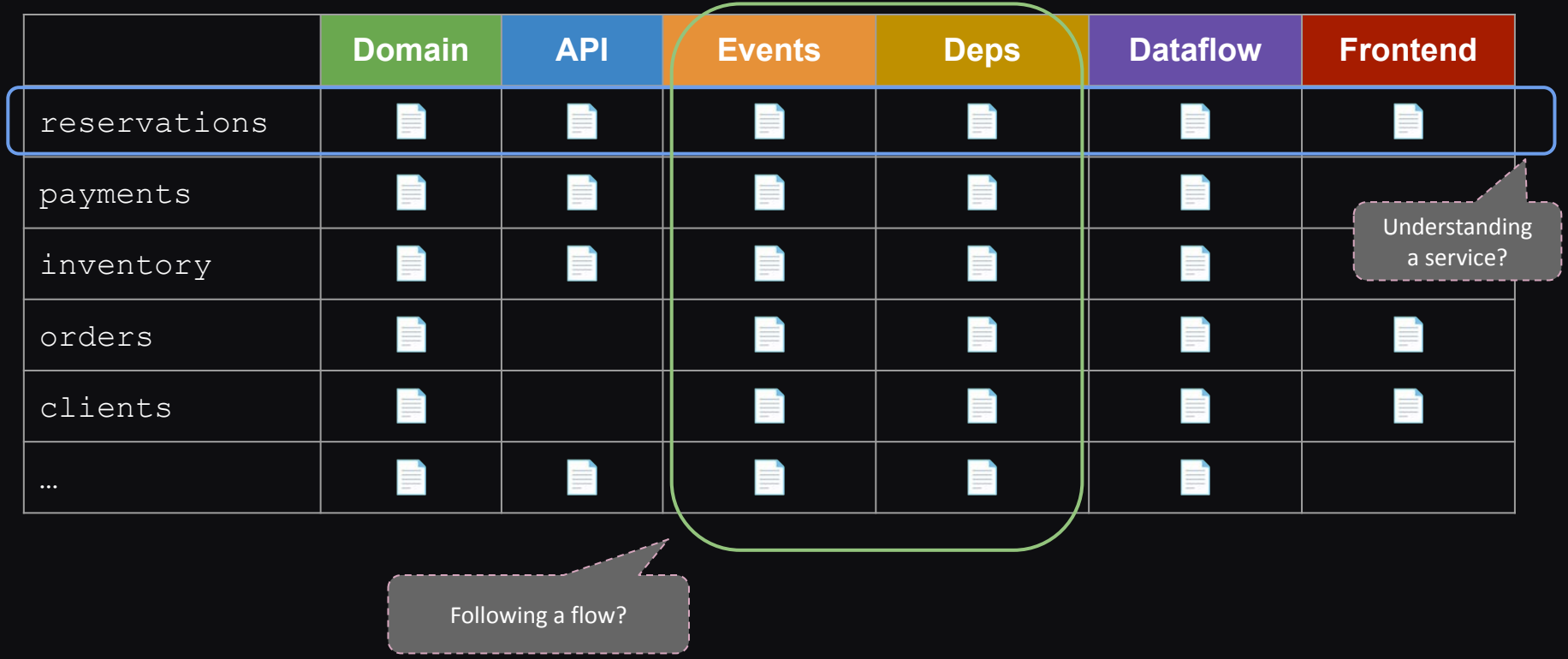
Git + Markdown

Versioned for free

Zero-ops

LLM-friendly format

Decompose by Perspective, Not Service

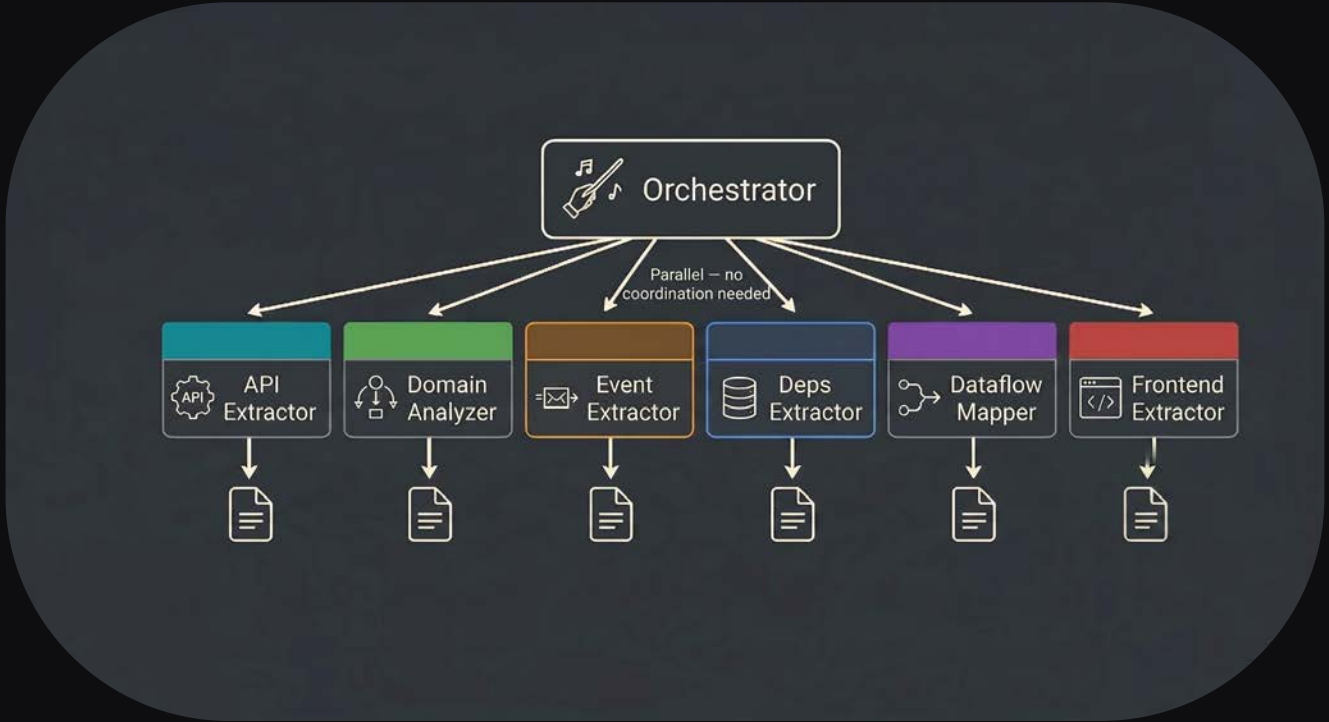


Path are Computable, Not Discoverable

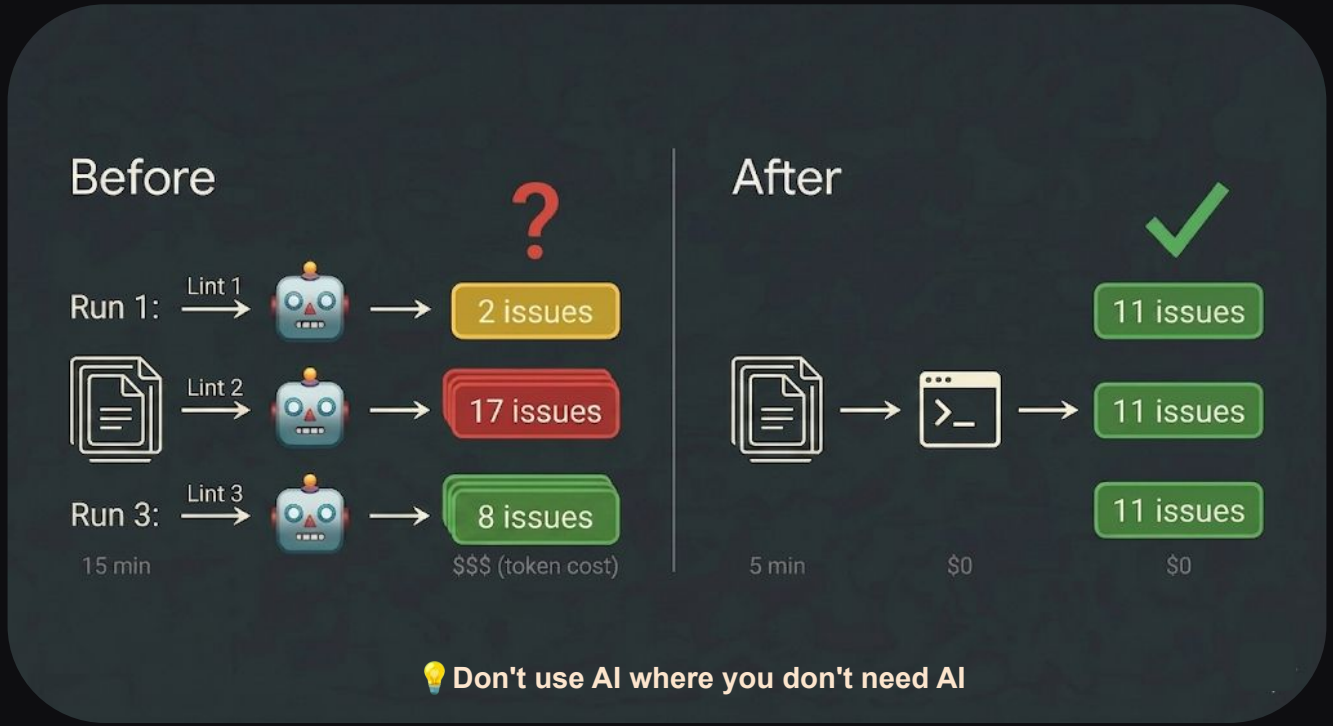
$$f(\texttt{facet},\texttt{repo}) \rightarrow \{\texttt{facet}\}/\{\texttt{repo}\}.\texttt{md}$$

$$(\texttt{api},\texttt{payments}) \rightarrow \texttt{api/payments.md}$$
$$(*,\texttt{inventory}) \rightarrow */\texttt{inventory.md}$$
$$(\texttt{events},*) \rightarrow \texttt{events/}*\texttt{.md}$$

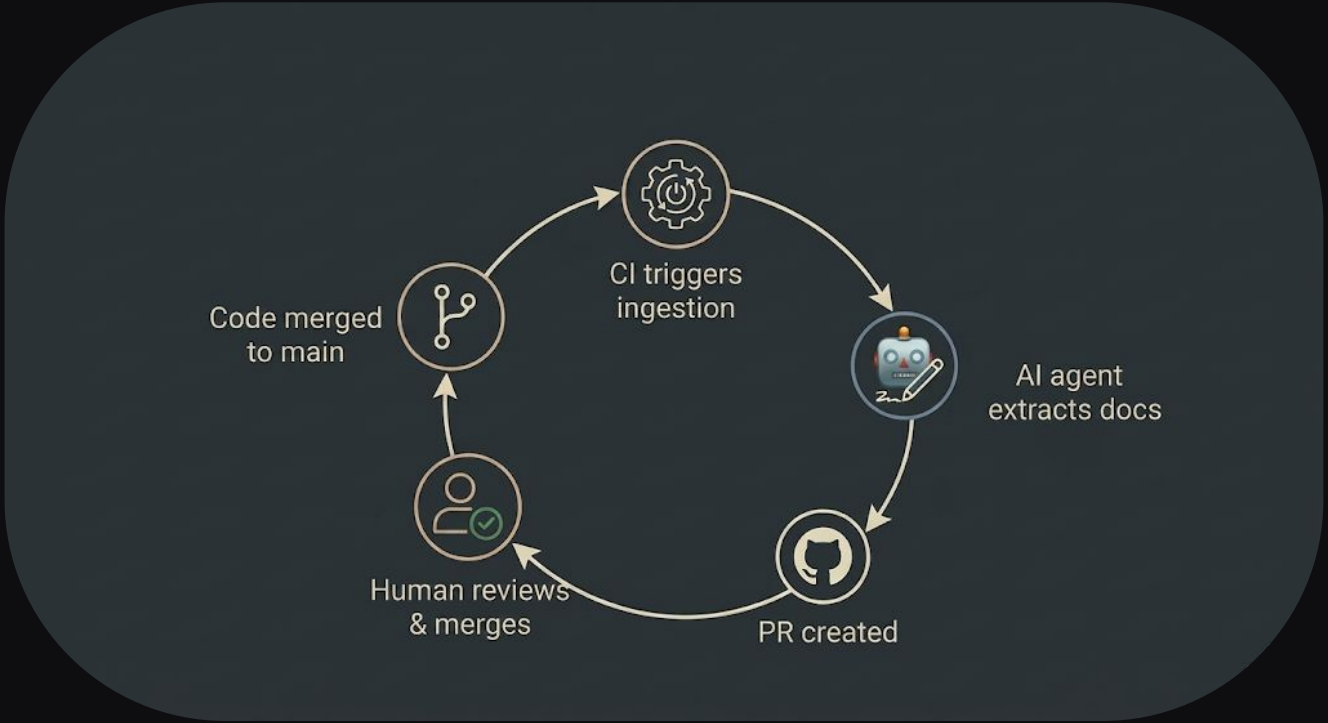
Ingestion by Orchestrator + Subagents



Reasoning → AI
Verification → Deterministic Code



Automate the Loop, Keep Humans Reviewing



Querying: Two Audiences, Same Substrate

```
/query-hub-auto

What is the payment
refund flow?
```

Query Skills
Remote, Local, Auto

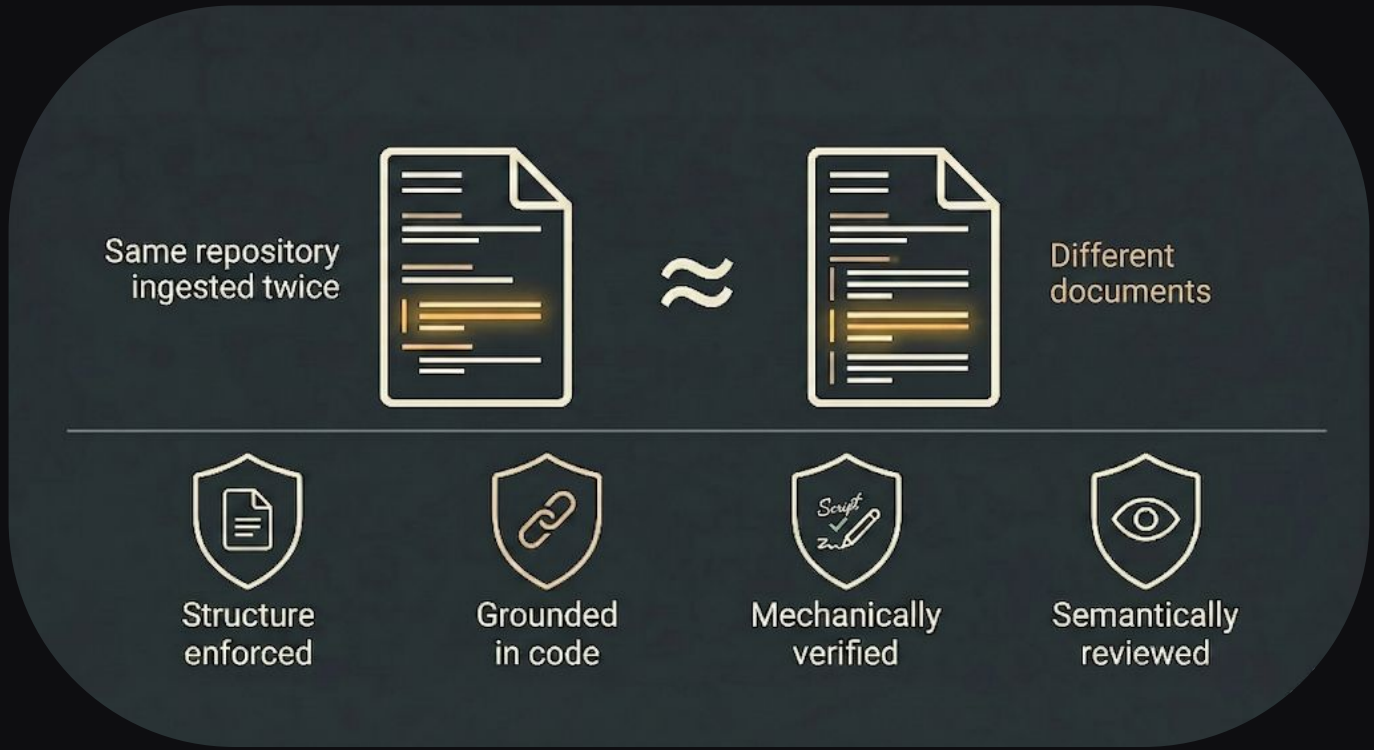
```
/query-hub-auto

Which services
consume inventory
events?
```

Routing: **`llms.txt`**

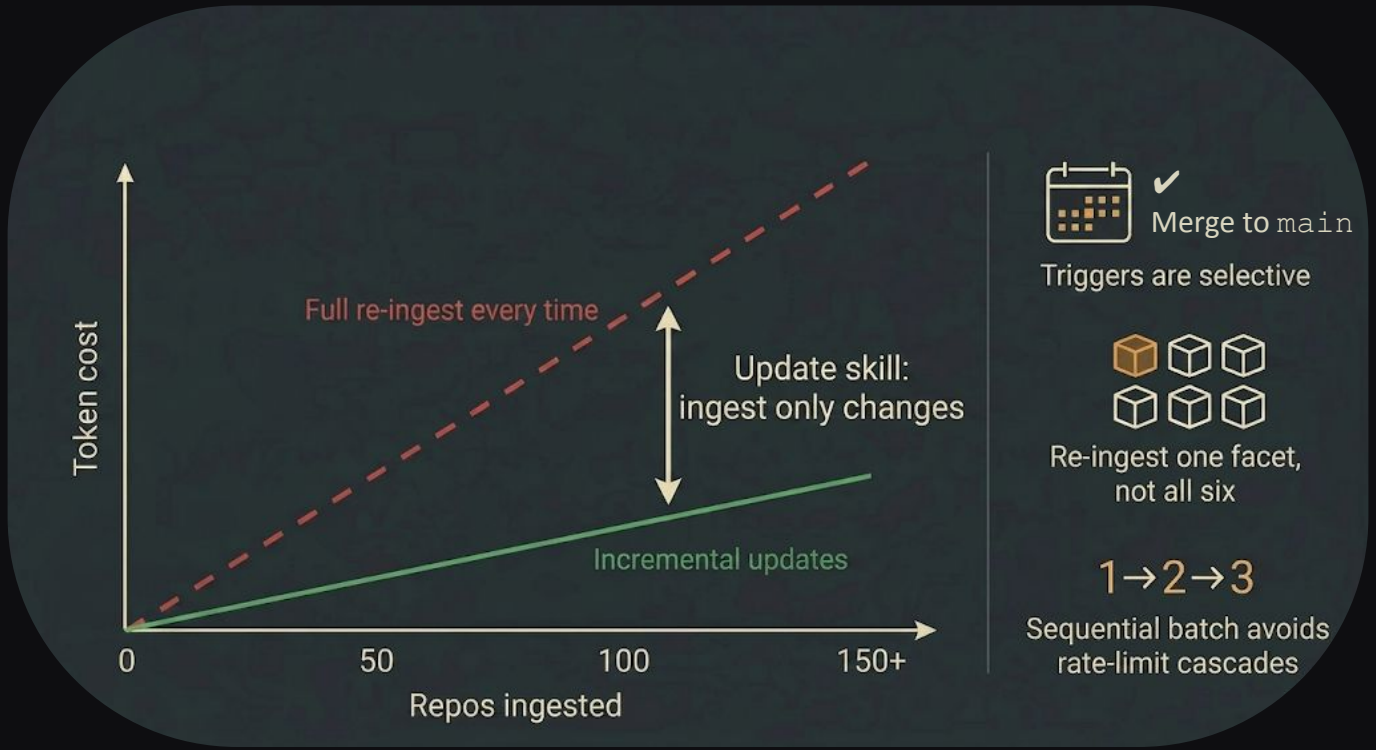
Answer:
A calls B …
Source citations: 🔗, 🔗

Answer:
Services: …
Source citations: 🔗, 🔗

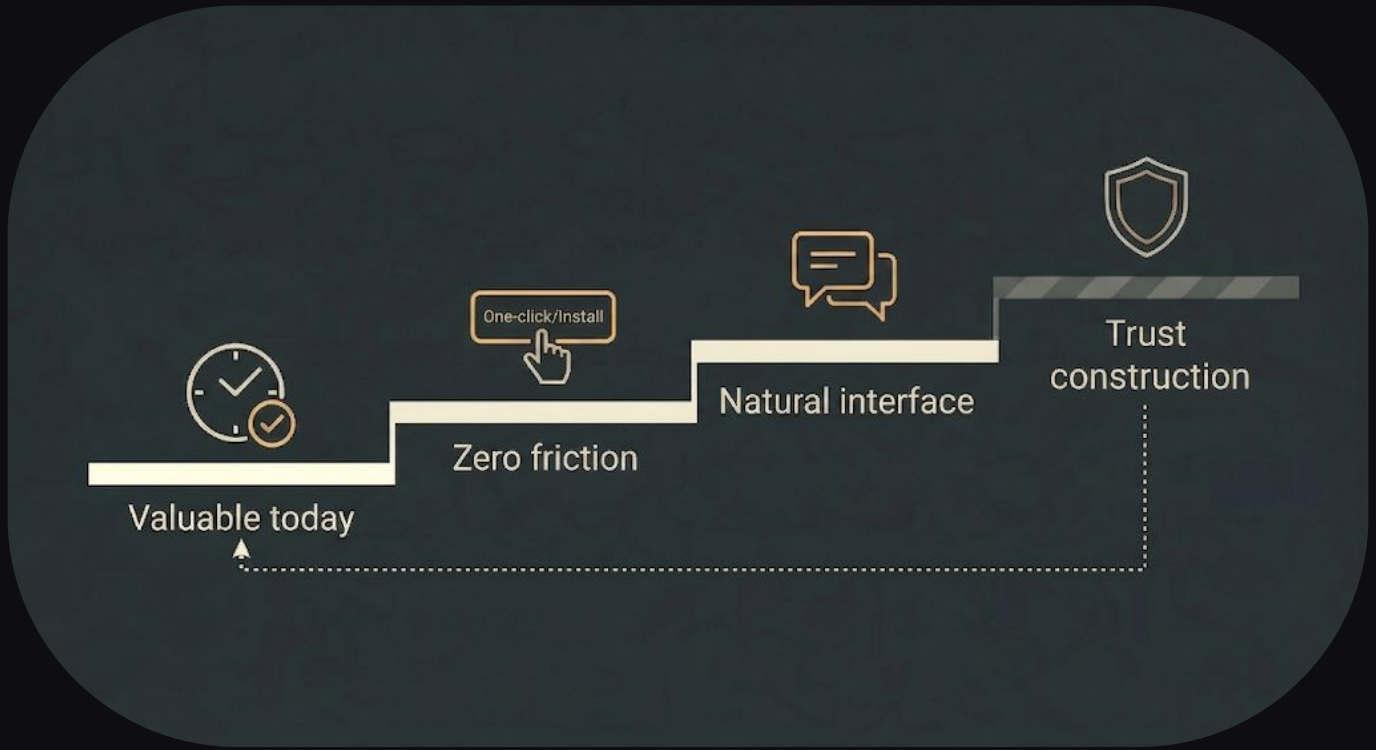
Challenge: Ingestion Variance



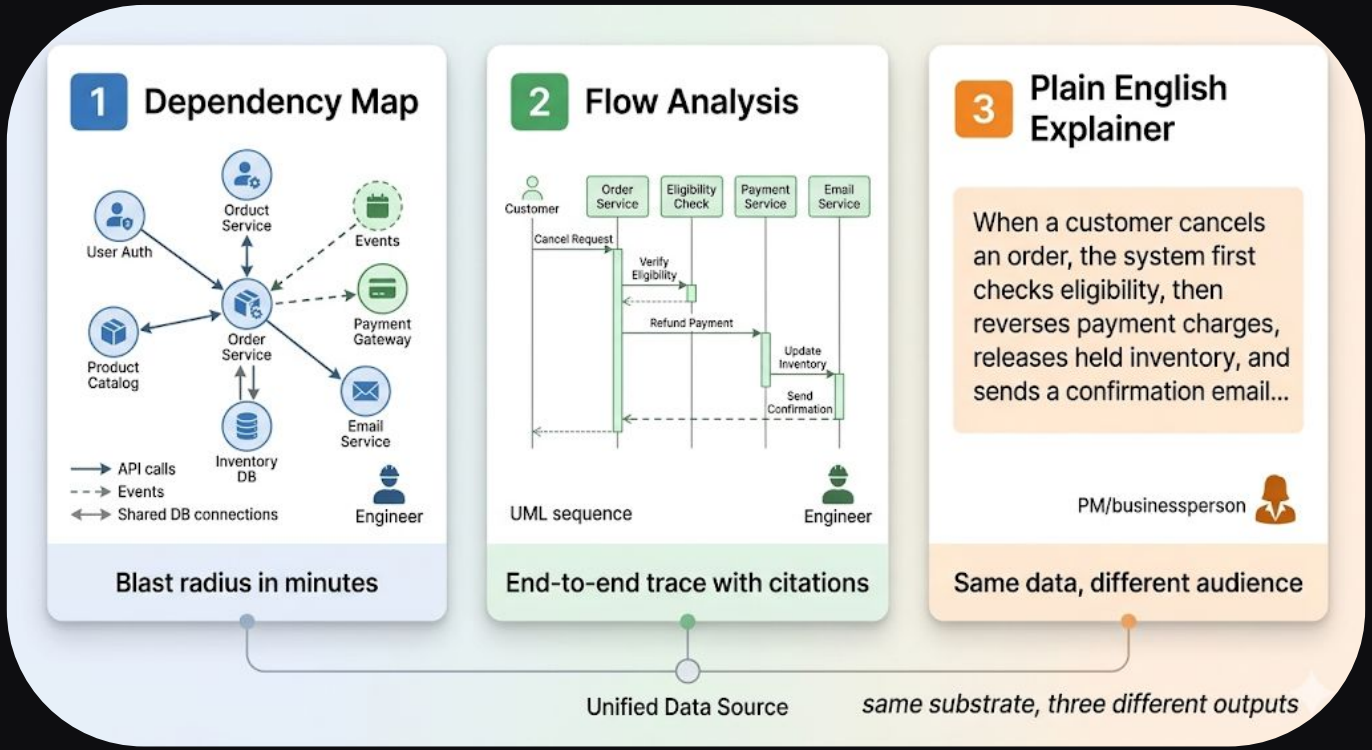
Challenge: Cost and Scale



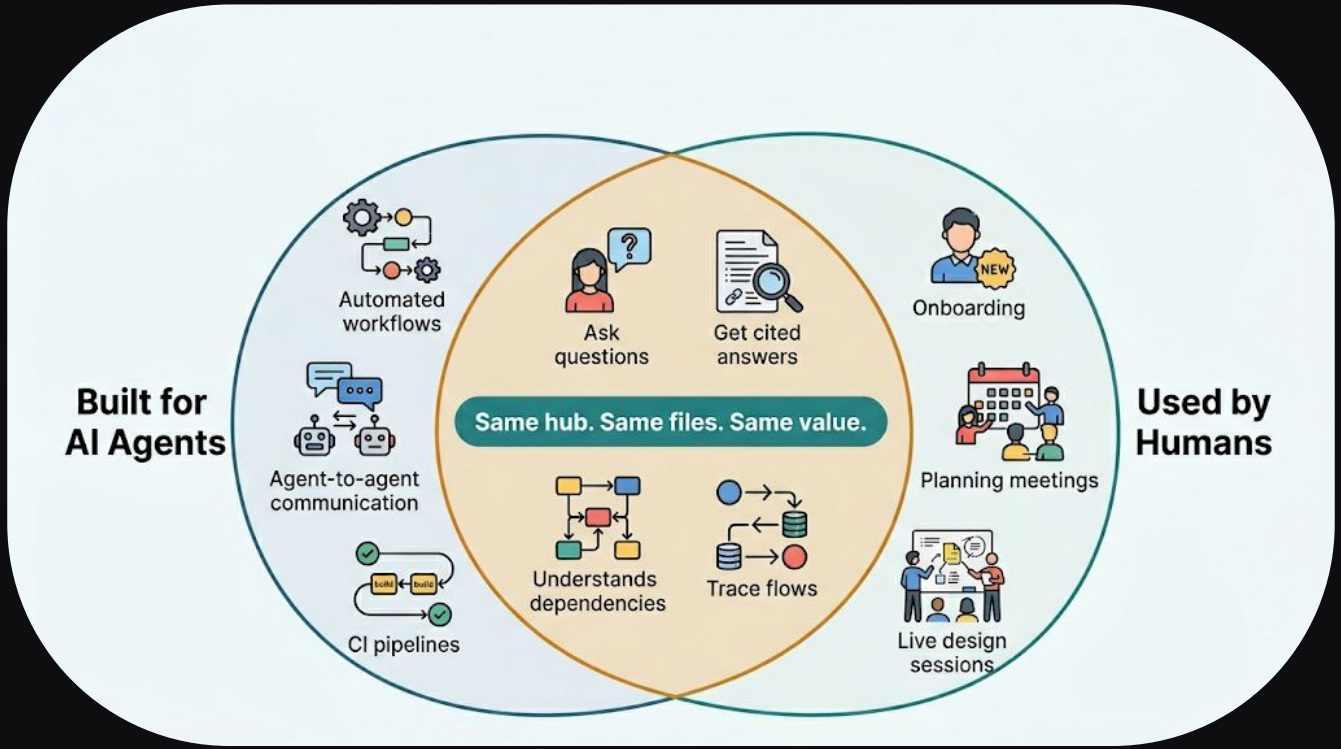
Challenge: Adoption



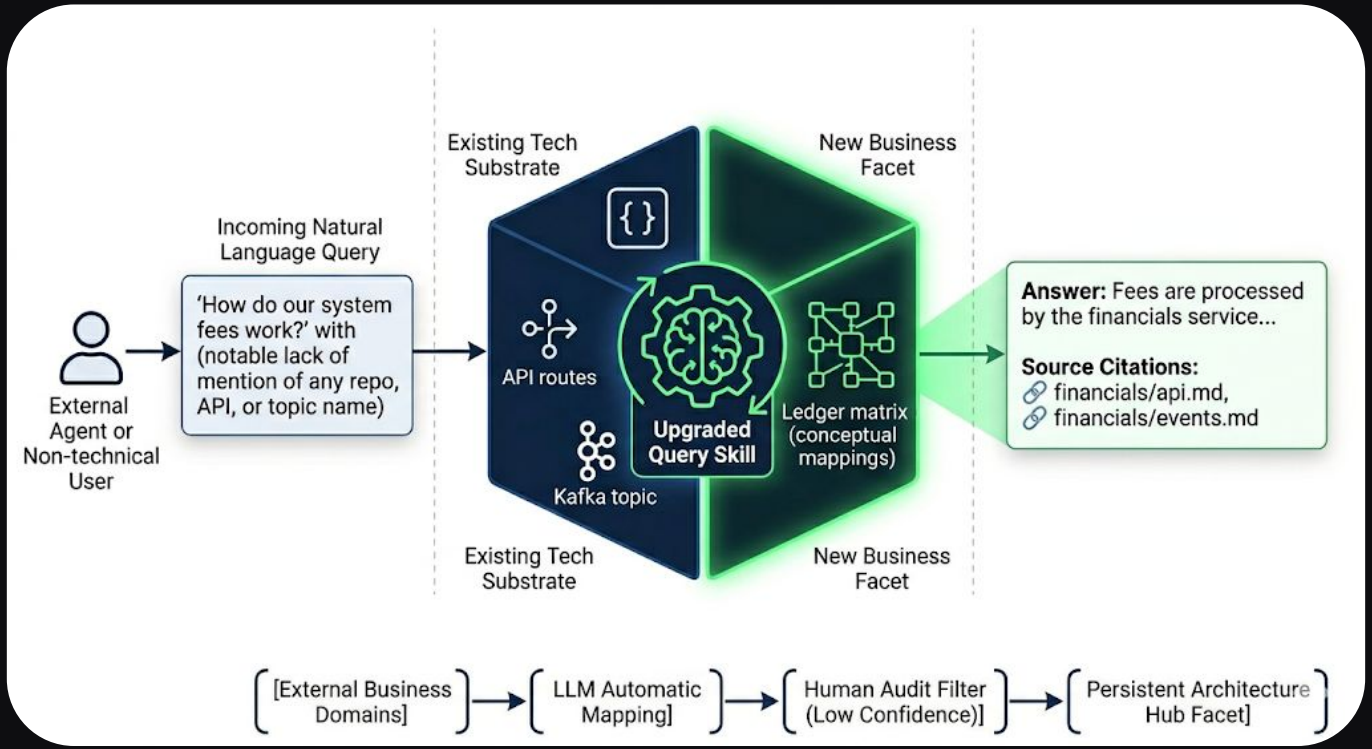
Structured Reports



Built For Humans and Agents



Mapping to Business Language



Key Takeaways

📄 Start with flat files. Git + Markdown.

🔲 Decompose by facets/aspects

🧮 Make indexing simple and paths computable

🤖 AI for reasoning, scripts for verification

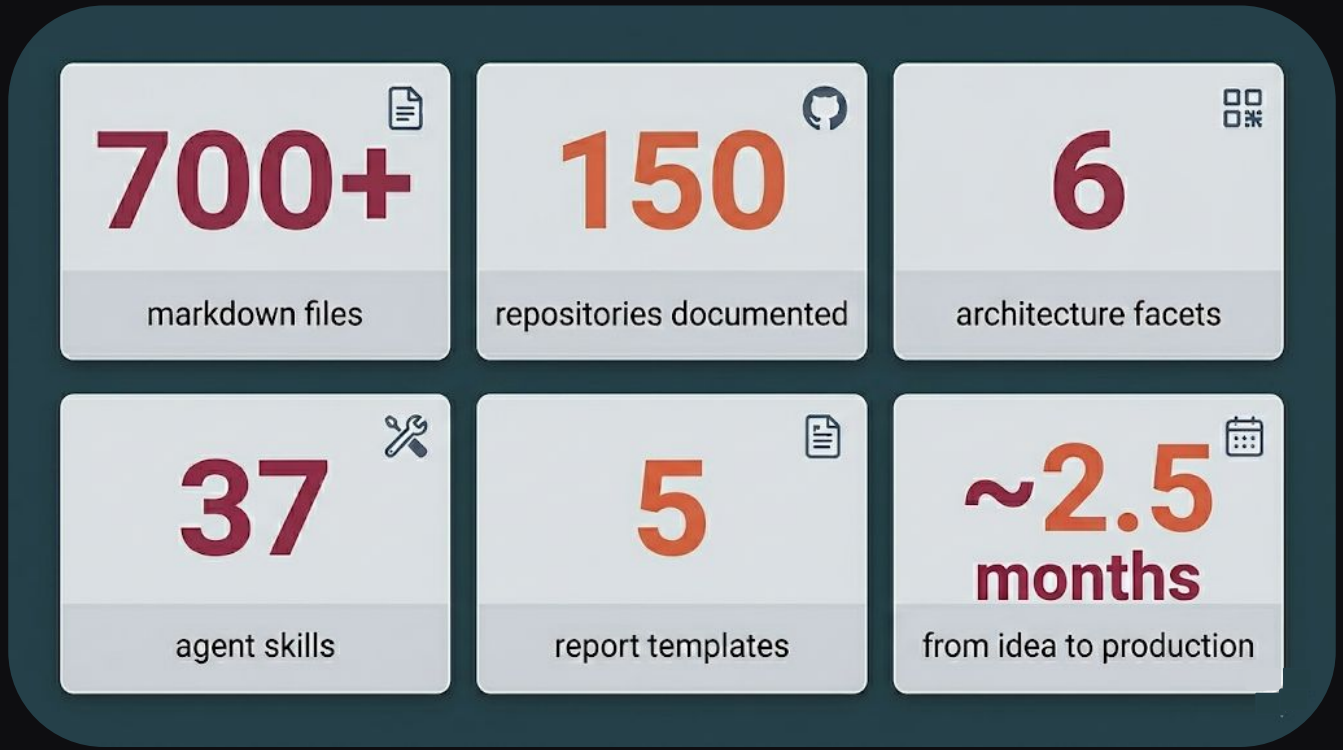
⚙️ Automate for production, gate with human review

🔗 Citations are architecture, not decoration

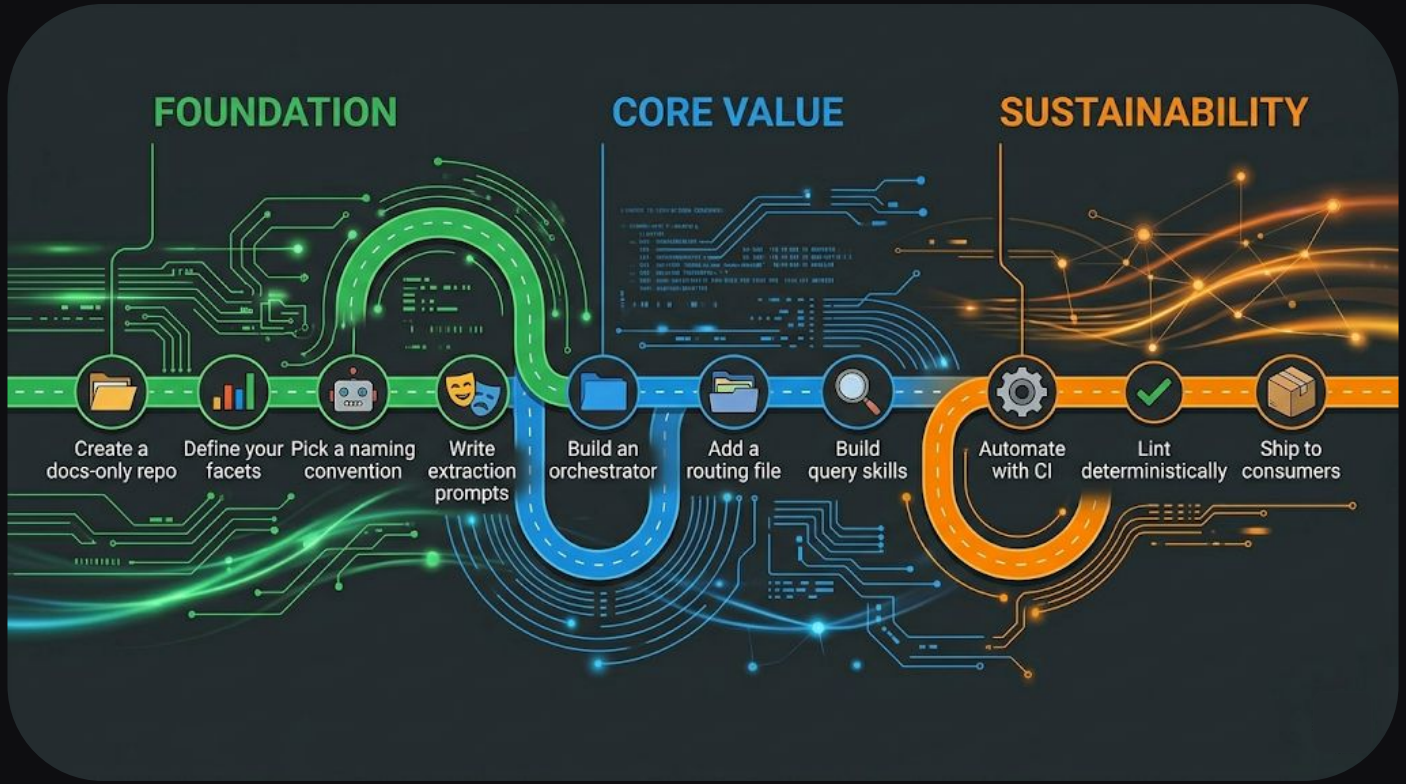
❓ The value is in the query, not the document

👤 Humans are important consumers as well

Scale So Far


700+
markdown files
150
repositories documented
6
architecture facets
37
agent skills
5
report templates
~2.5
months
from idea to production

Implementation Roadmap



Thank You!

Bits and Bytes

The Architecture Hub - Blog Post

Lior Schejter