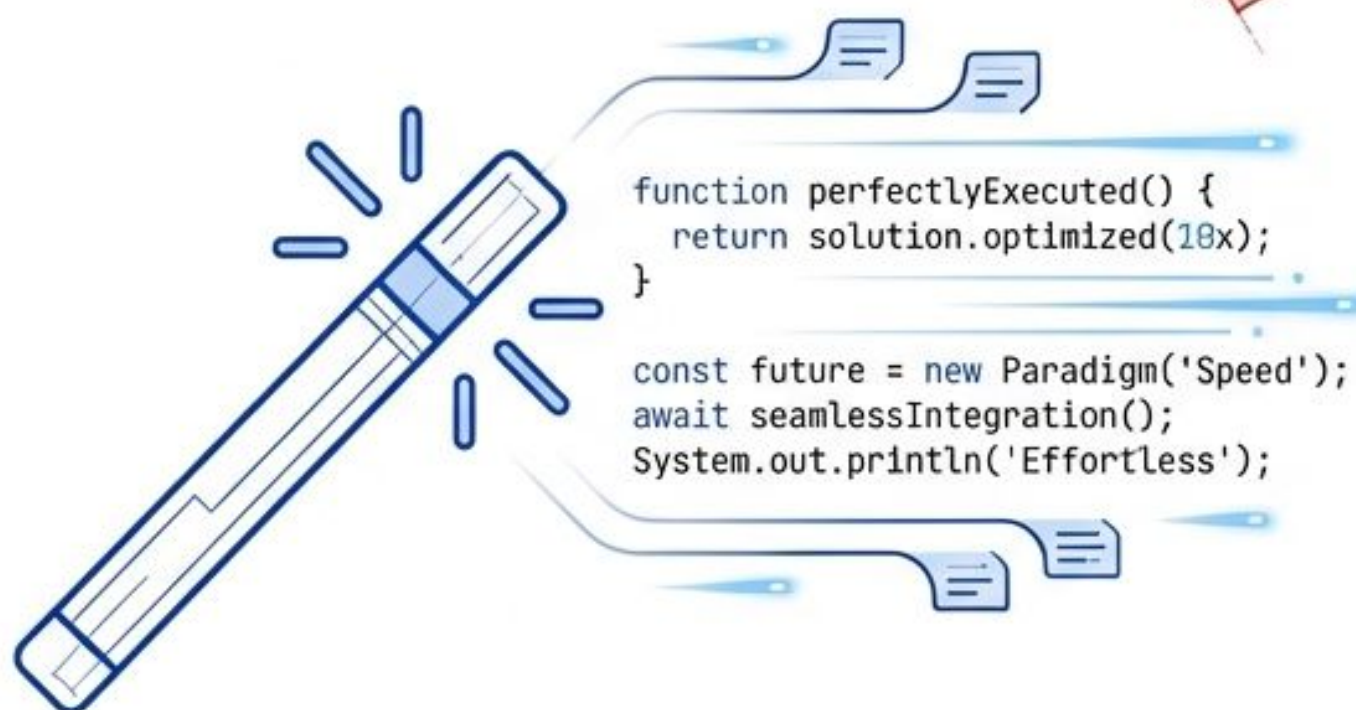


Architecture-as-Code

From Vibe Coding to Enterprise-Grade AI-Assisted Development

The Vibe Coding Hangover

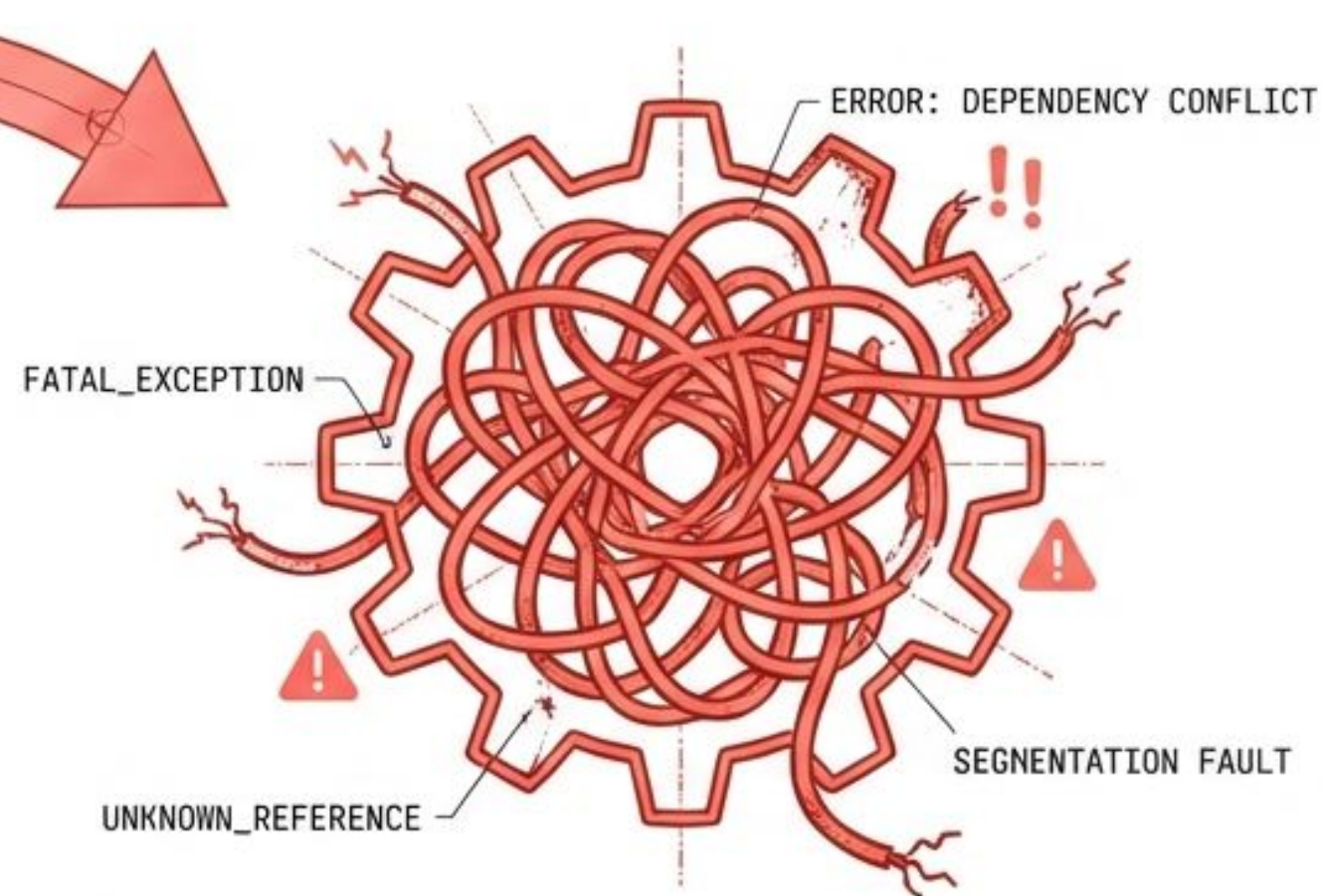
THE PROMISE



- Speed of Thought
- 10x Developer Feeling

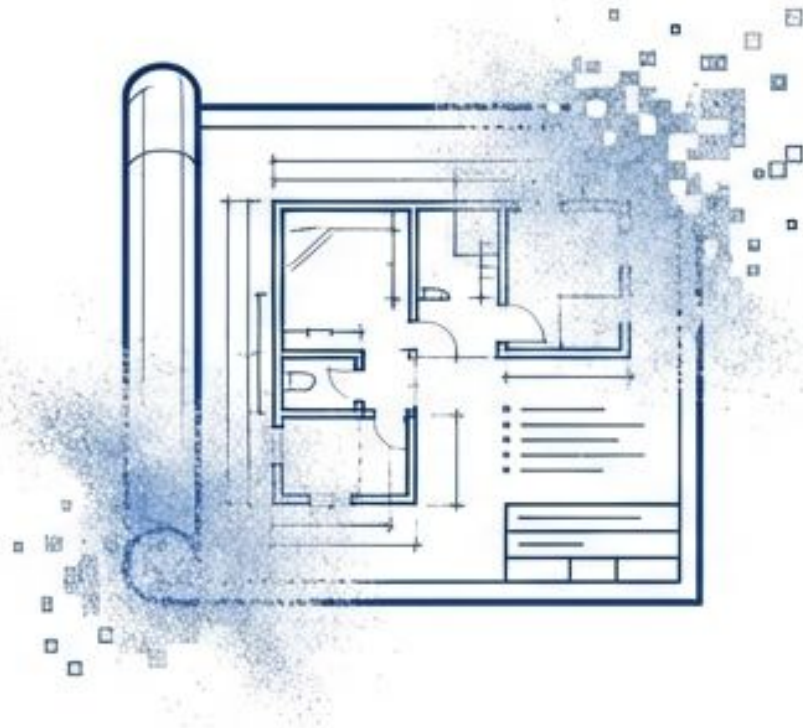
THE REALITY

The Hangover



- The 20-Minute Wall
- Hallucinated Libraries
- Context Amnesia
- Broken Builds

Why Naive Vibe Coding Fails at Scale



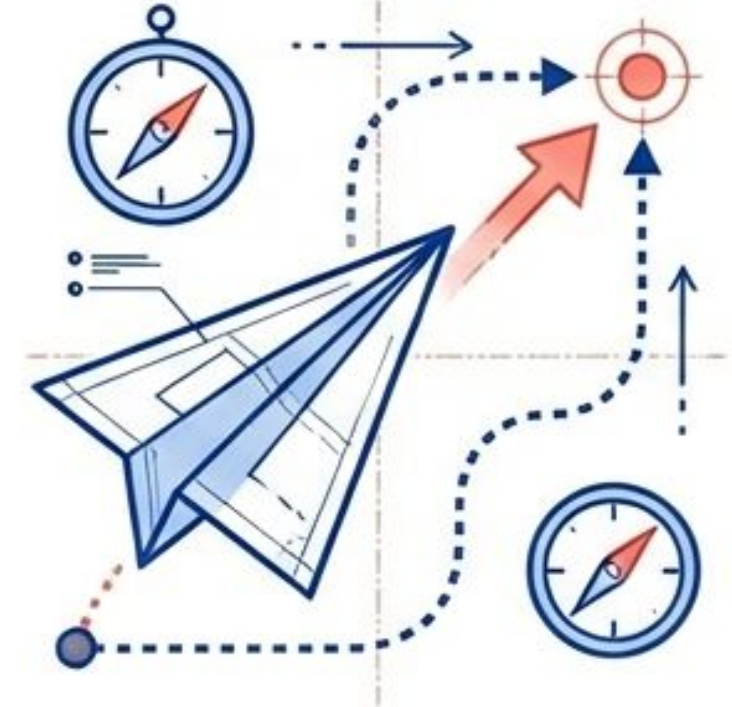
Hallucinated Structure

Invents APIs & schemas that don't exist.



Constraint Violation

Ignores Security, Compliance, & Performance.

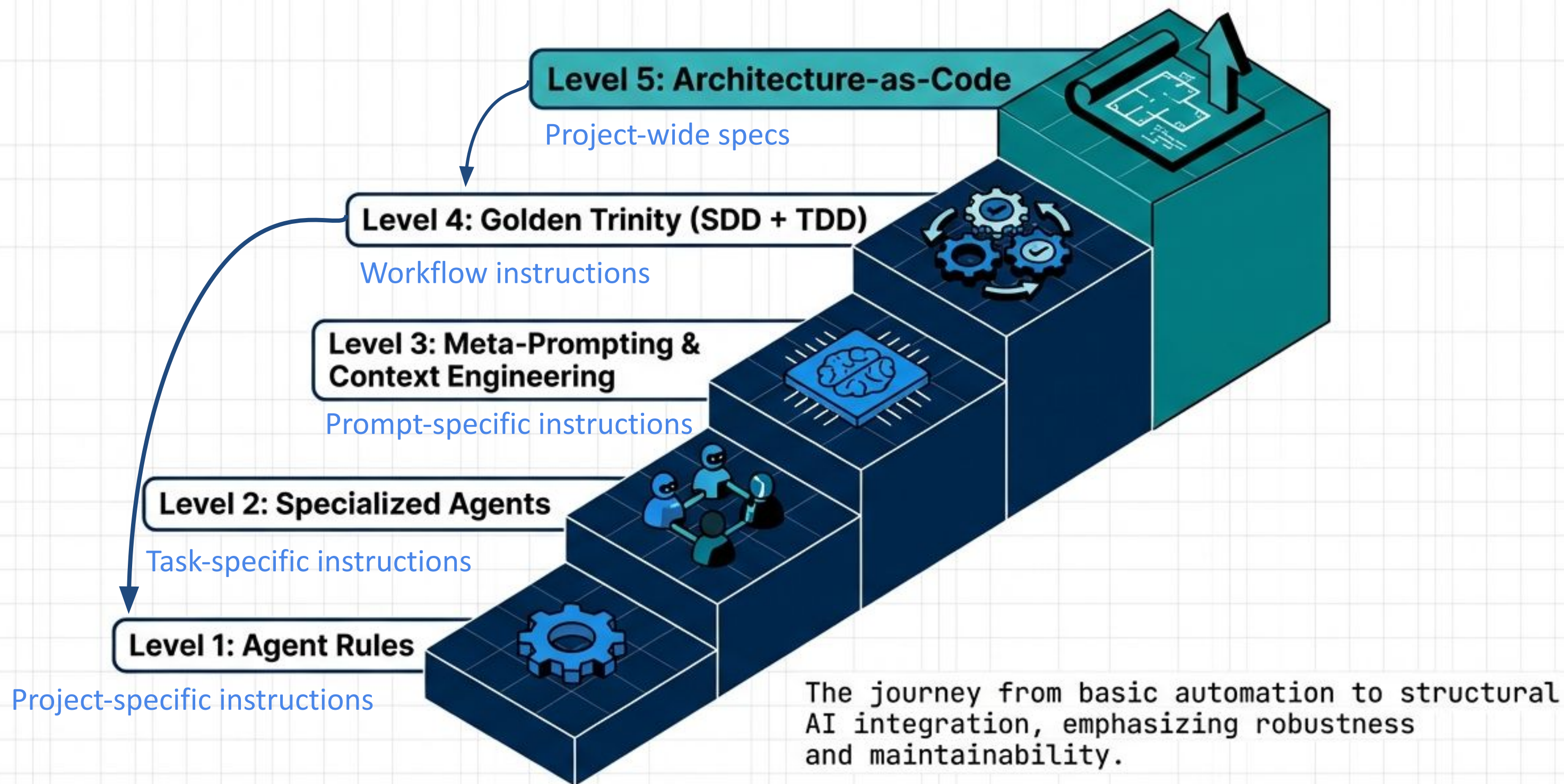


Semantic Drift

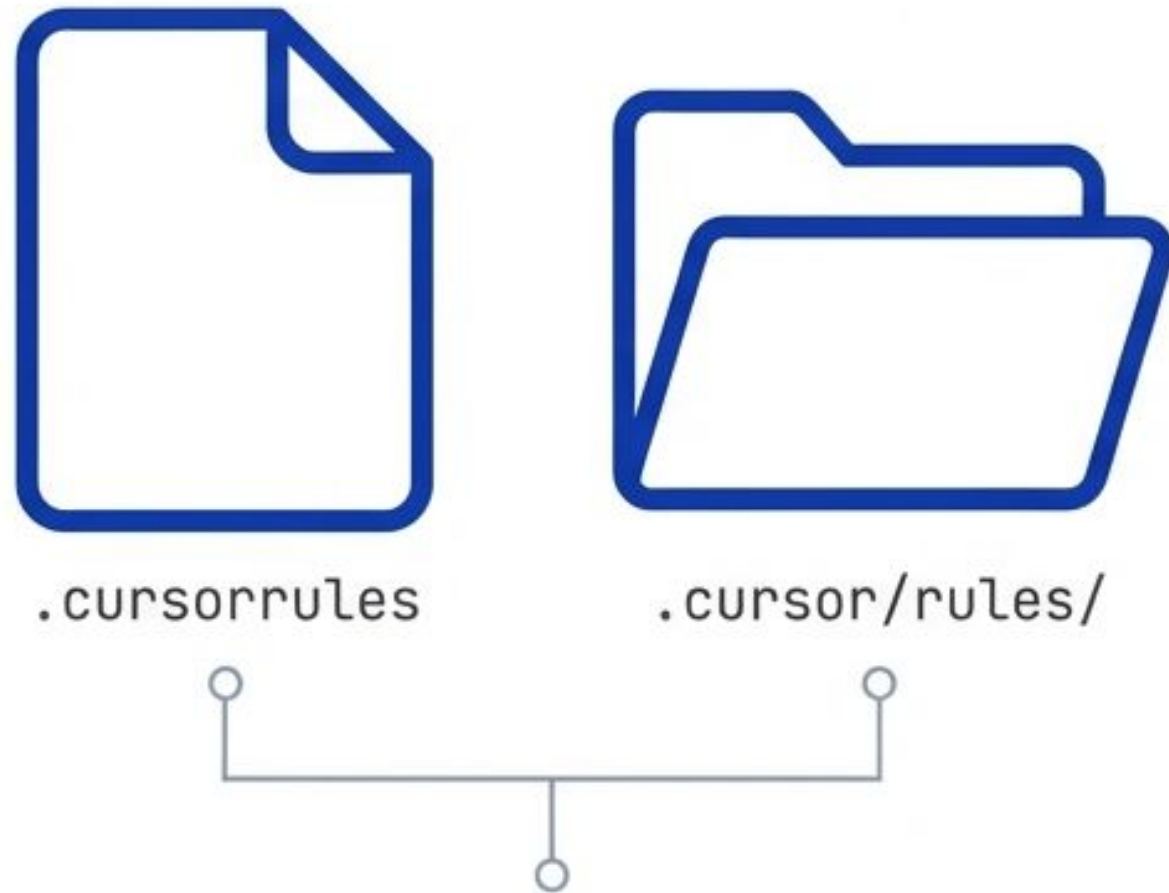
Forgets architectural decisions over time.

Enterprise Context: Multi-developer • Legacy Systems • Compliance

THE AI-ASSISTED DEVELOPMENT MATURITY LADDER



Level 1: Agent Rules



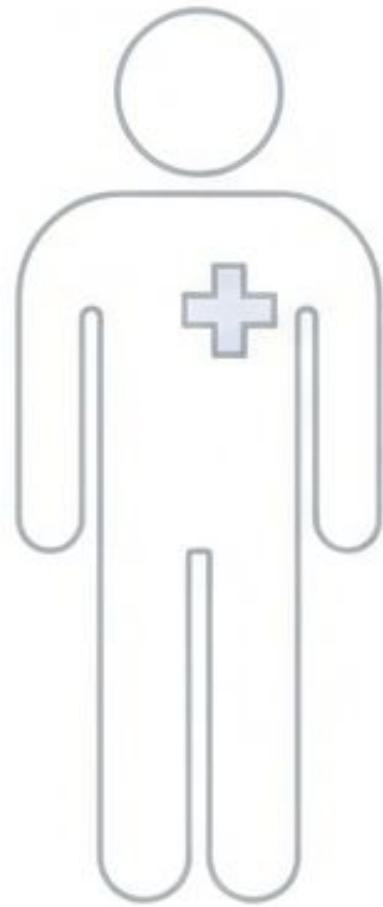
- System prompts injected into every interaction
- Enforce Tech Stack & Patterns
- 1 Hour Investment = Immediate Consistency

```
1 # Global Constitution for Agents
2 tech_stack:
3   language: "Python 3.9+"
4   framework: "Django 4.2"
5   database: "PostgreSQL"
6
7 security_rules:
8   - "No eval() execution"
9   - "Strict mode enabled"
10  - "Input validation required"
11
12 code_style:
13   - "PEP 8 compliance"
14   - "Docstrings mandatory"
```

A large green stamp with the word "SUCCESS" is overlaid on the code block.

- System prompts injected into every interaction
- Enforce Tech Stack & Patterns
- 1 Hour Investment = Immediate Consistency

Level 2: Specialized Agents



Stop using a General Practitioner
for heart surgery.



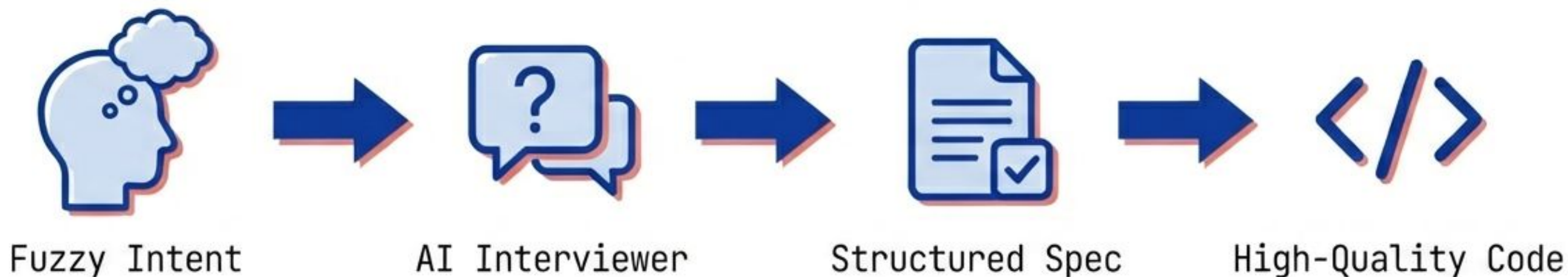
`<> /refactor`

`<> /audit-security`

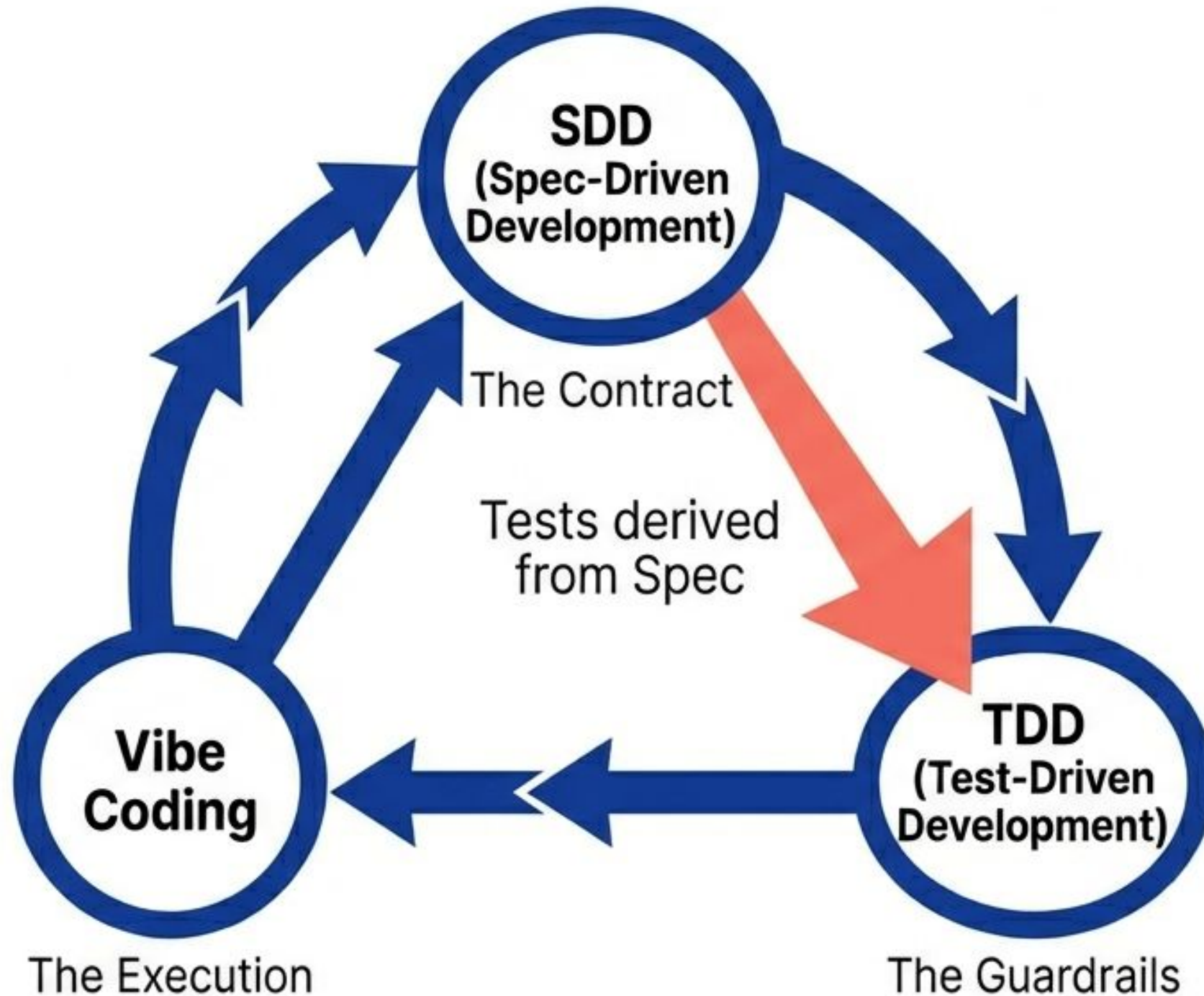
`<> /doc-check`

- Slash Commands inject domain-specific constraints.
- **Refactor Agent:** Enforces **DRY** and **Solidity**.
- **Security Agent:** Checks **OWASP Top 10**.

Level 3: Meta-Prompting & Context

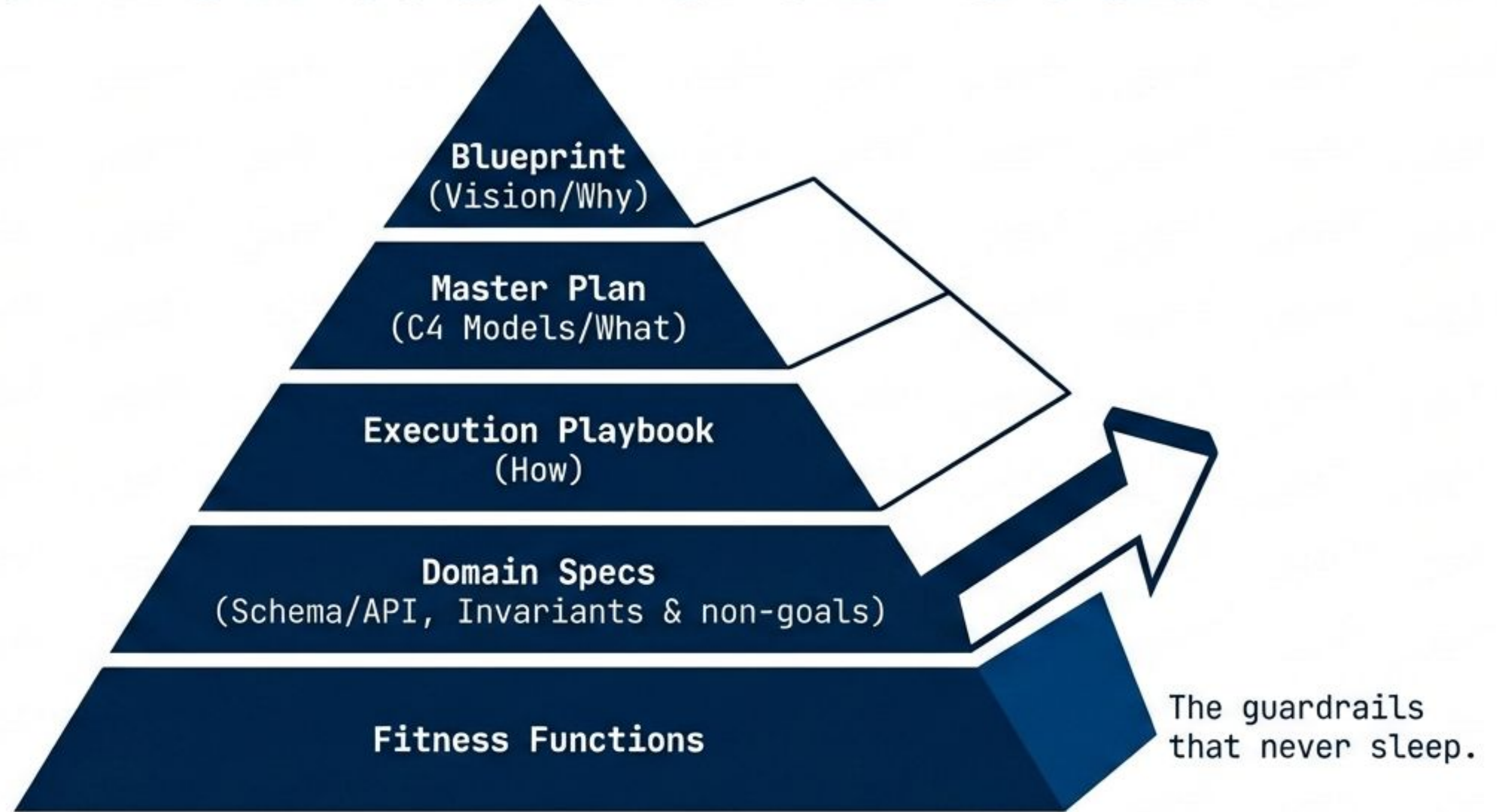


Level 4: The Golden Trinity

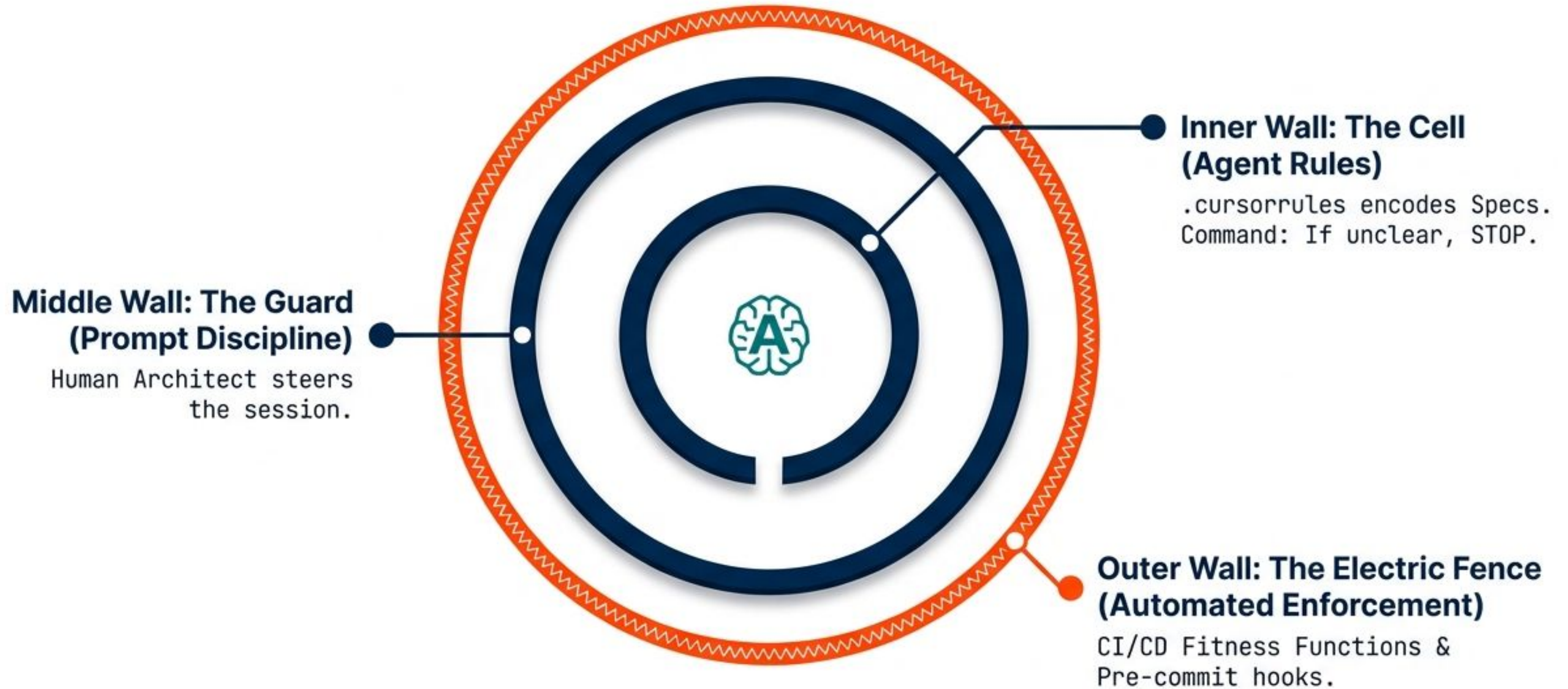


- The Spec is the immutable contract.
- Tests are generated from the spec, not the implementation.
- All implements to pass the tests.
- **Rule: Spec → Tests → Code.**

Level 5: Architecture-as-Code

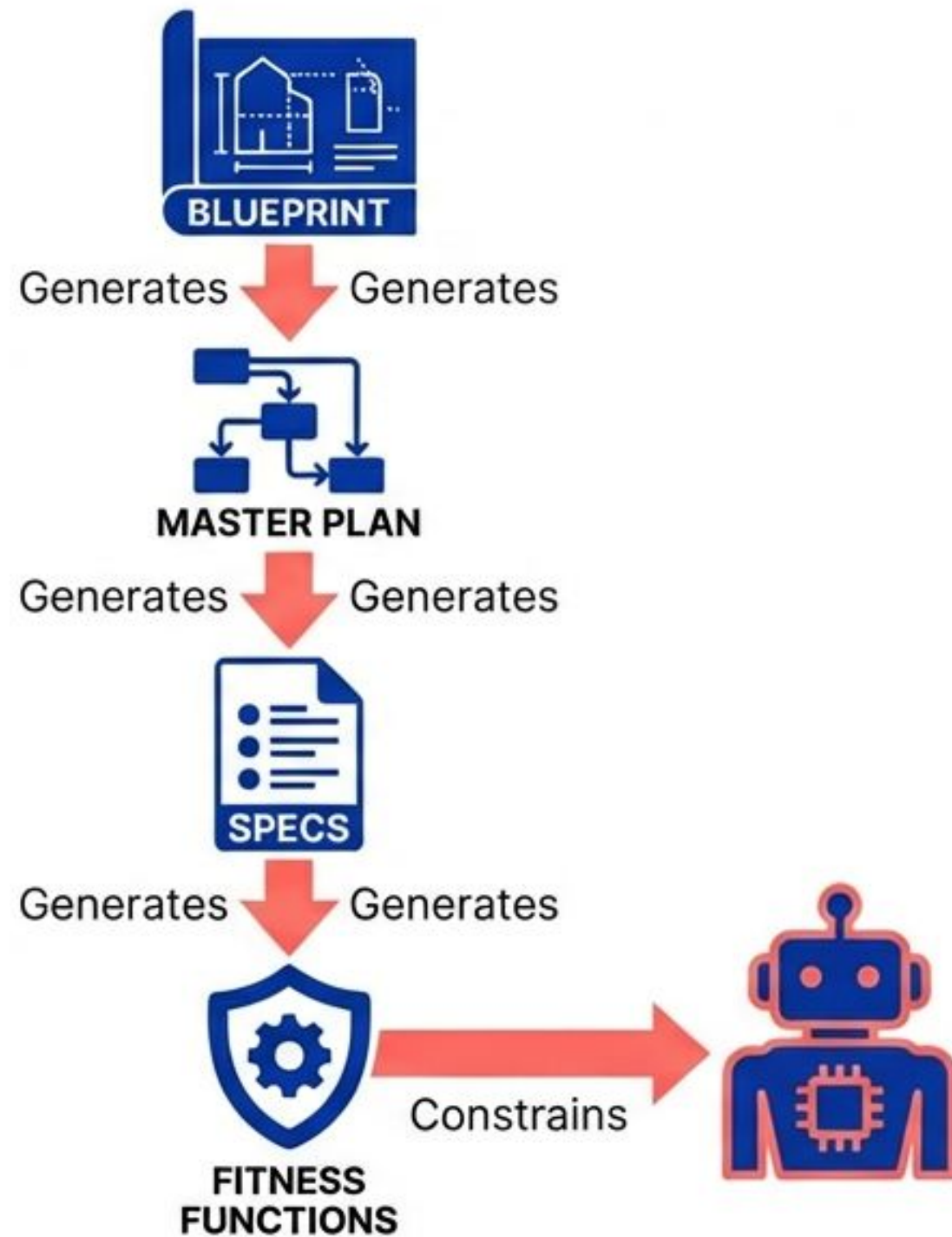


The AI Agent's Prison



Superhuman speed inside an inescapable prison.

AI Builds the Guardrails for AI



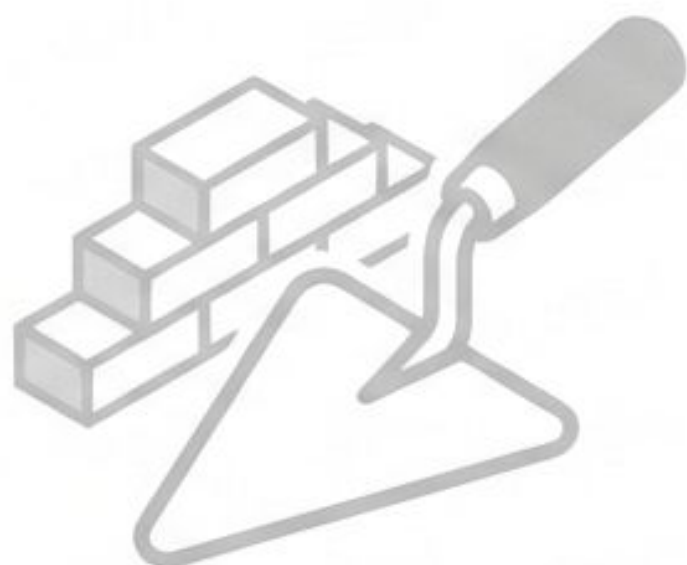
The Cascade Effect: Context flows downwards.

Acceleration: Weeks of scaffolding in days.

Self-Reinforcing: AI builds the prison, then works safely inside it.

Automated CI/CD pipelines & diagram updates.

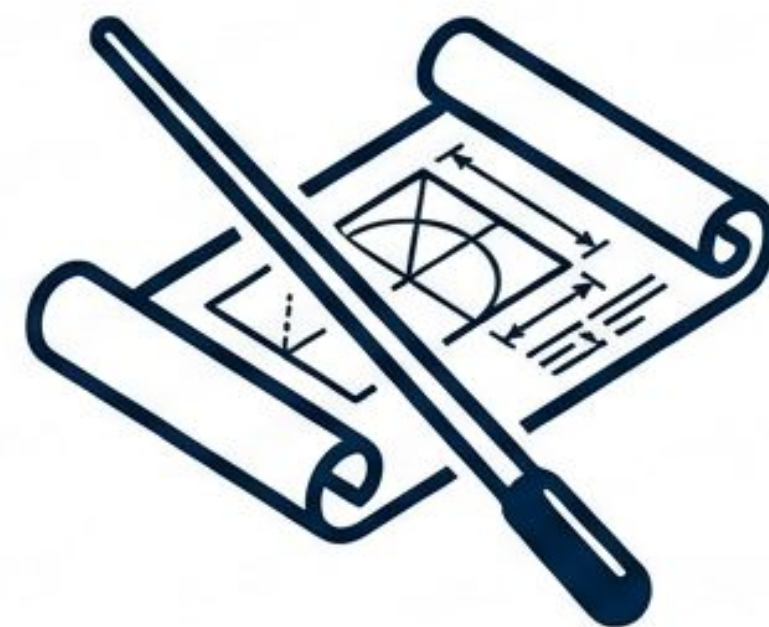
From Coder to Architect



Bricklayer

- **New Core Capabilities:**

1. Design (Visualizing Structure)
2. Constraints (Defining NFRs)
3. Orchestration (Guiding the Agent)



Orchestrator

**Humans define meaning. Specs define truth. Tests define correctness.
Fitness functions define enforcement. AI fills in the gaps.**

Summary



The Architect has never been more important.

In the age of AI the person who defines the constraints, the boundaries, and the quality criteria is the most valuable person in the room.



AI-chitect

<https://aichitect.eu>



Contact:

Rob Vugts | Equal Experts