

```
if(vibes.good) {
    ship_it();
}
// deprecated but works
function makeItPop() {
    ...
var spaghetti = true;
...
}
compilator("bacon", try {
    if (meatless || !spaghetti)
        maybeWorks();
} catch(e) {
    ignore(e)
})
// TODO: fix this later
console.log("yolo");

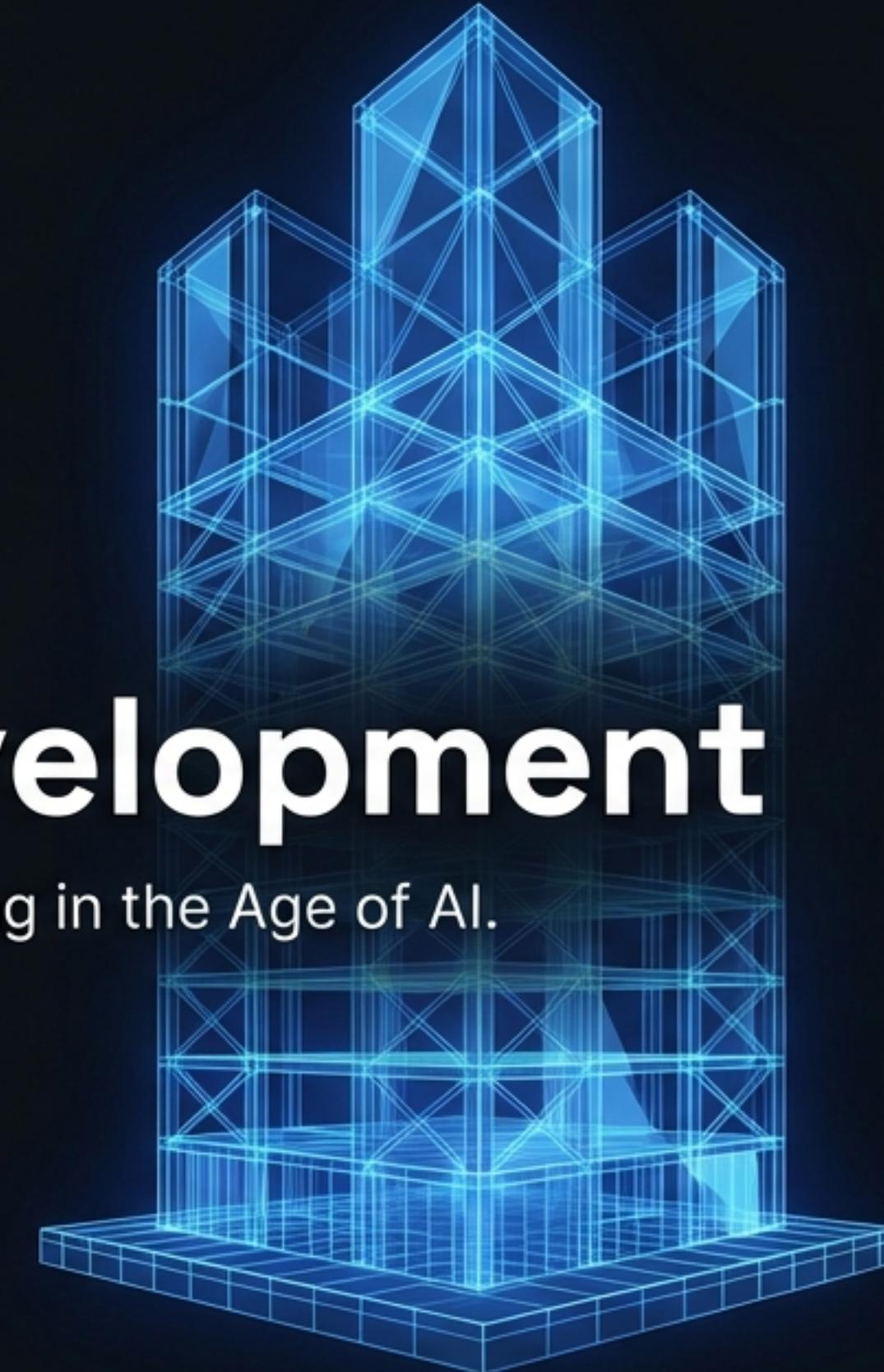
try {
    maybeWorks()
} catch(e) { ignore(e)
}
let randomStuff = [1, "two", {a: 3}];
/* just trying things out */
api.call_with_hope()
/*just trying things out */
api.call_with_hope()
data = data ? data.transform() : null;
```

Spec-Drive

The Technical Control

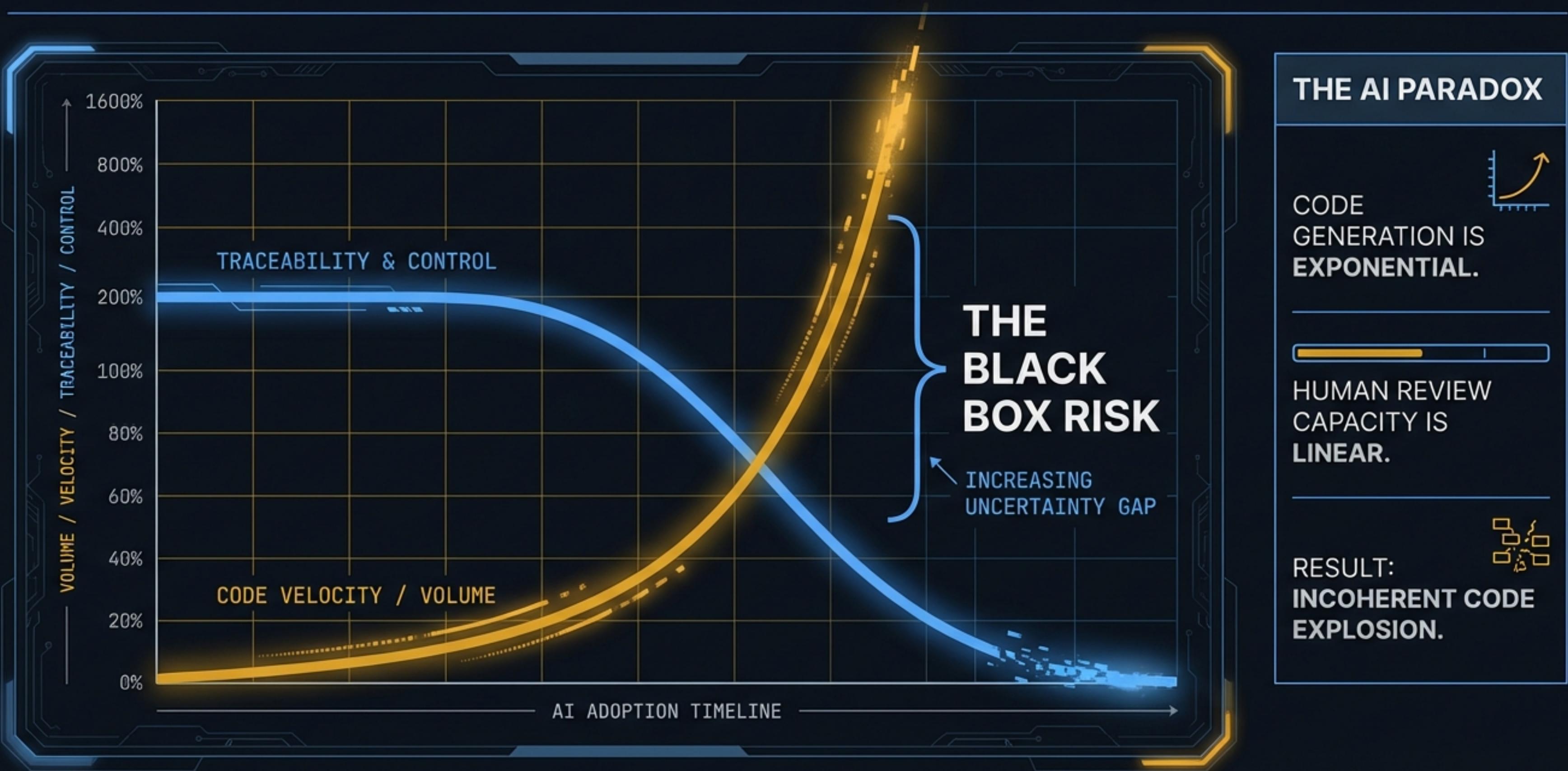
Spec-Driven Development

The Technical Contract for Engineering in the Age of AI.

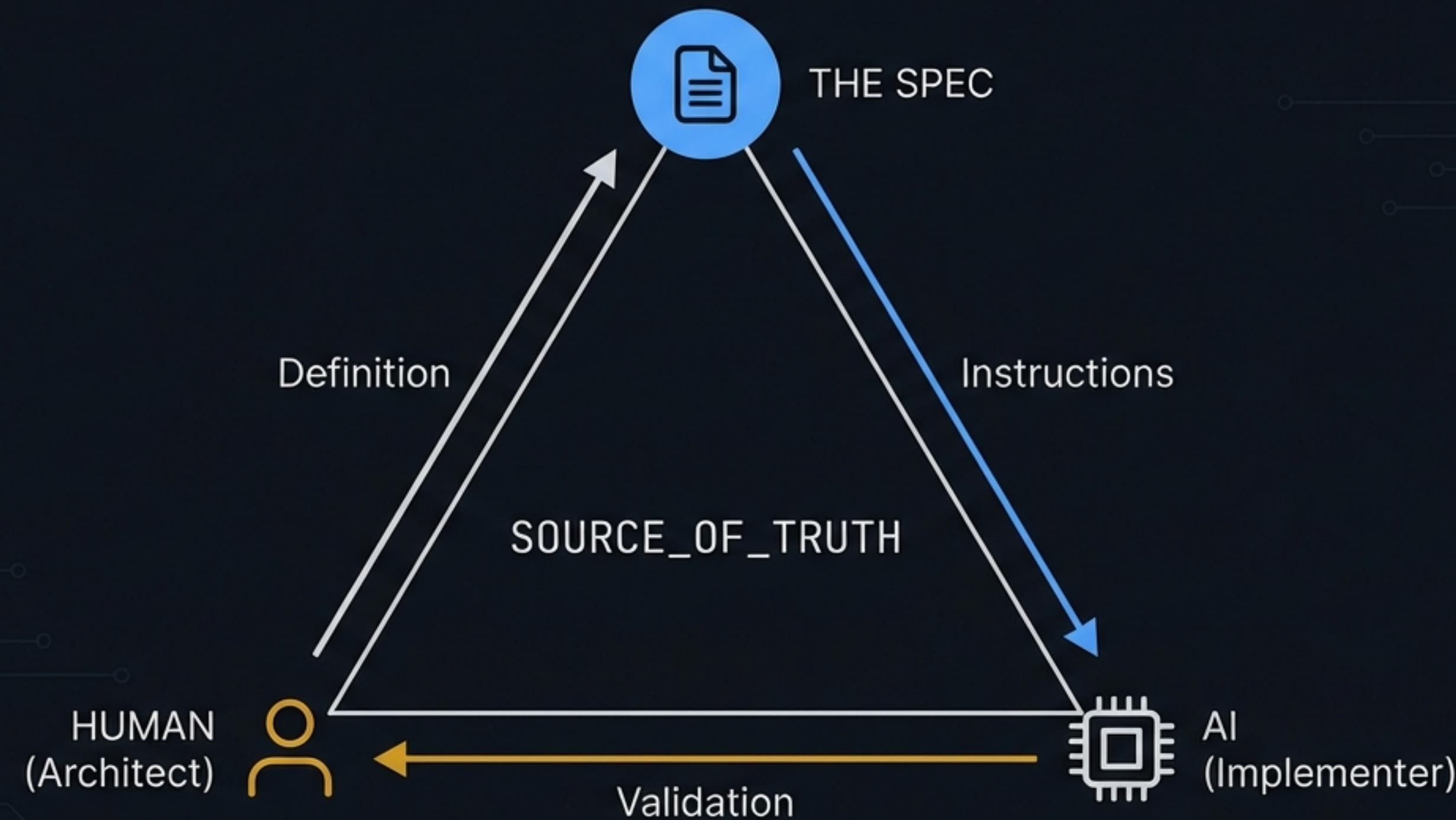


```
func transformation(vibecoding) -> systematic_engineering
```

SPEED WITHOUT DIRECTION IS CHAOS



THE SPEC IS THE TECHNICAL CONTRACT



A binding agreement that dictates design, implementation, and validation before execution.

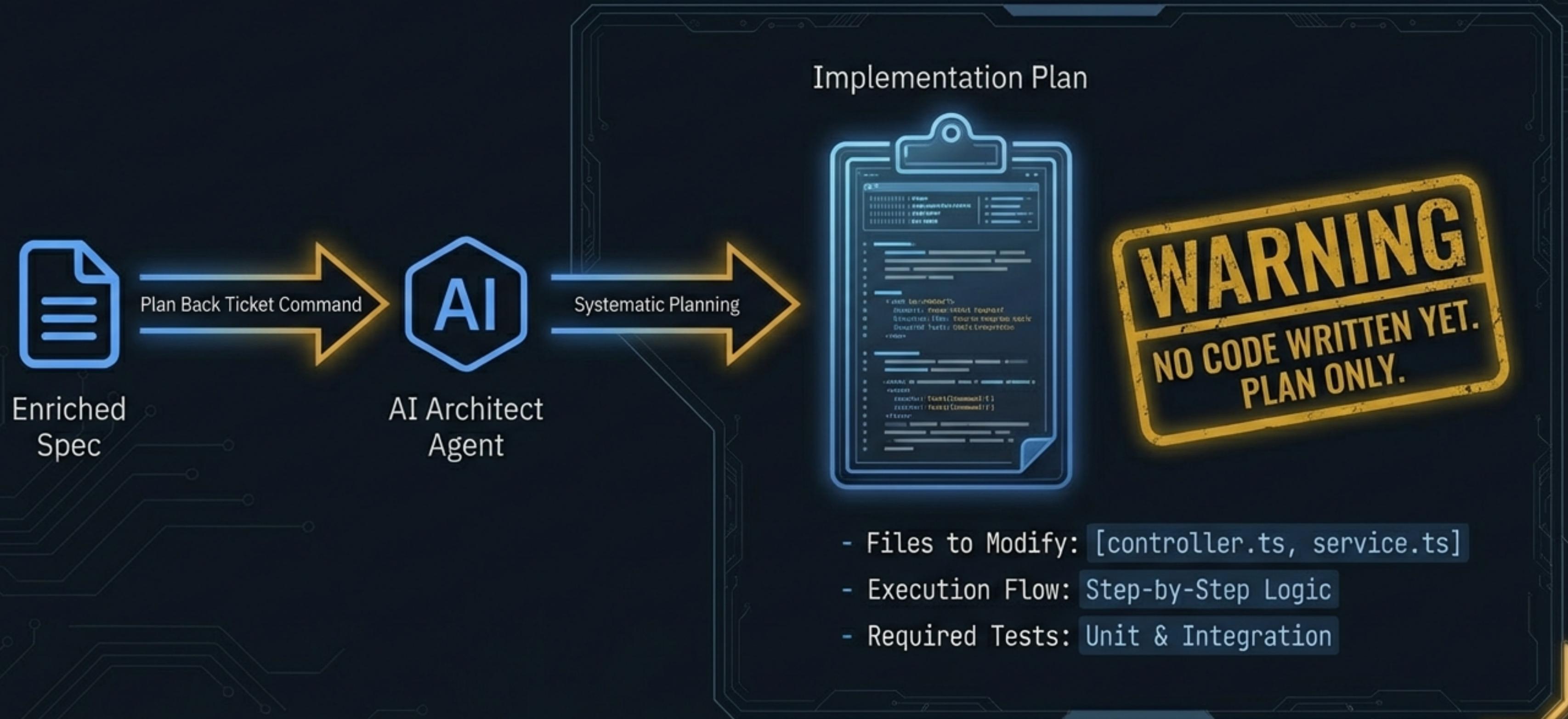
FROM FOUR LINES TO ONE THOUSAND

As a user,
I want to
edit job
positions.

AI Enrichment

```
markdown.md x
1 ## Technical Specification
2
3 ### Data Models
4 - Field: Salary (Min < Max validation required)
5 - Type: Decimal (Precision 2)
6
7 ### API Schema
8 - POST /api/v1/positions
9 - Error Handling: 400 (Bad Request), 401 (Unauthorized)
10
11 ### Security
12 - Input Sanitization: SQL Injection prevention active.
13 - Role Based Access: Manager_Level_Only
14
15 ### Gherkin Acceptance Criteria
16 Scenario: Successful Update
17 Given the user has permission
18 When they submit valid payload
19 Then the database commits...
```

THE BLUEPRINT BEFORE THE BUILD



THE SHIFT FROM WRITER TO REVIEWER

```
// OLD CODE - MANUAL IMPLEMENTATION
function calculateTax(amount) {
    return amount * 0.07;
}

// OLD CODE - MANUAL IMPLEMENTATION
function calculateTax(amount, region) {
    if (region === 'US') {
        return amount * 0.07;
    } else if (region === 'EU') {
        return amount * 0.21;
    } else {
        return amount * 0.05;
    }
}

// OLD CODE - MANUAL IMPLEMENTATION
function calculateTax(amount, region) {
    if (region === 'US') {
        return amount * 0.07;
    } else if (region === 'EU') {
        return amount * 0.21;
    } else {
        return amount * 0.05;
    }
}

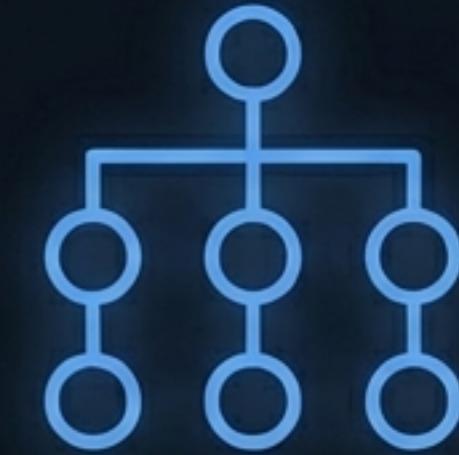
// NEW AI CODE - DYNAMIC RATE LOOKUP
function calculateTax(amount, region) {
    const rates = {'US': 0.07, 'EU': 0.21, 'DEFAULT': 0.05};
    const rate = rates[region] || rates['DEFAULT'];
    return amount * rate; // Optimized and extensible
}
```

Character-by-Character Validation.

The AI lifts the heavy weight. You supply the judgment.

Ratio: 5 mins generation / 20 mins review.

Engineering Standards, Automated



Architecture

Domain-Driven Design (DDD) enforced.
Separation of Services, Repositories, and Controllers.



Testing

Mandatory 90%+ Coverage.
Unit Tests + Happy Path & Edge Case validation.



Gatekeepers

Automated Bots (CodeRabbit / Cursor).
Rejects PRs with smells or bugs.

STATUS: PASSED // QUALITY GATES ACTIVE

SELECTING THE RIGHT SDD FRAMEWORK

SPEC KIT (GITHUB)

Greenfield (0 to 1)

Complexity

30%

Best for starting
from scratch.

BMAT

Enterprise / Complex

Complexity

100%

7+ Agents.
High Overhead.

OPEN SPEC

Brownfield
(Existing Projects)

Complexity

50%

The Pragmatic Balance.
Manages Deltas.

The Brownfield Reality: Why Open Spec?



99% of development is iteration, not creation.

Open Spec is optimized for the Brownfield workflow.

STATUS: BROWNFIELD // OPEN SPEC ACTIVE

Breaking the Silos Between Product and Tech

Business Requirements (PM)

Technical Execution (Dev)



- Shared Understanding: The Definition of Done.
- Visible Contract: Stakeholders see the complexity; Engineers see the goal.

**AI will write the code.
You must write
the contract.**



Adopt the Architecture of Trust.