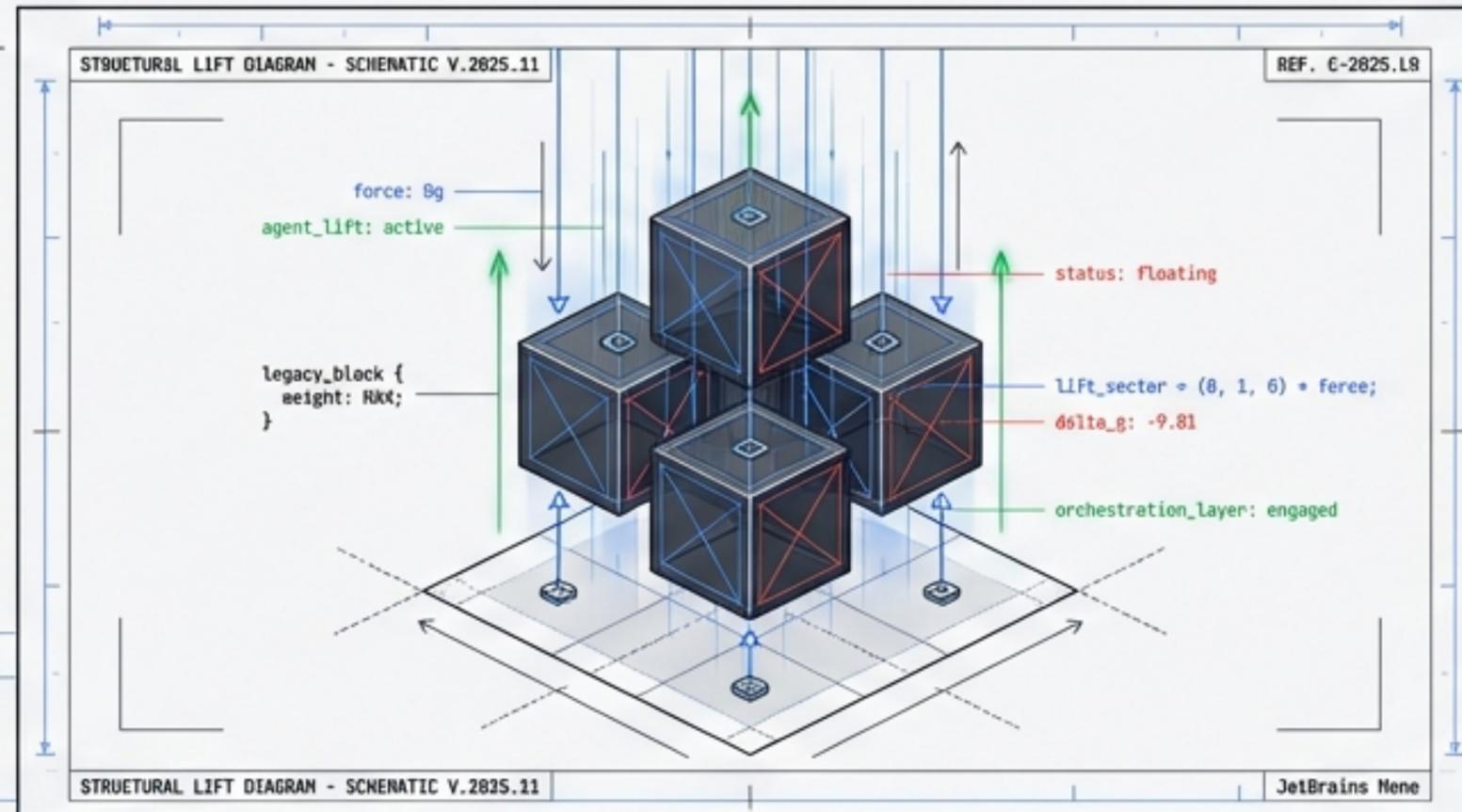# Google Antigravity: The Agentic Engineering Ecosystem

A Strategic Playbook for Architectural Foundations, Skill Orchestration, and Repository Selection.

STRUCTURAL LIFT DIAGRAM - SCHEMATIC V.2025.11   REF. C-2025.LR

force: 8g
agent_lift: active

status: floating

legacy_block {
  weight: Max;
}

lift_sector = (0, 1, 6) * force;

delta_g: -9.81

orchestration_layer: engaged

REF. C-2025.LR

Context: Late 2025 Release / Definitive Structural Shift.

SRC. 63-VSC.EVAL

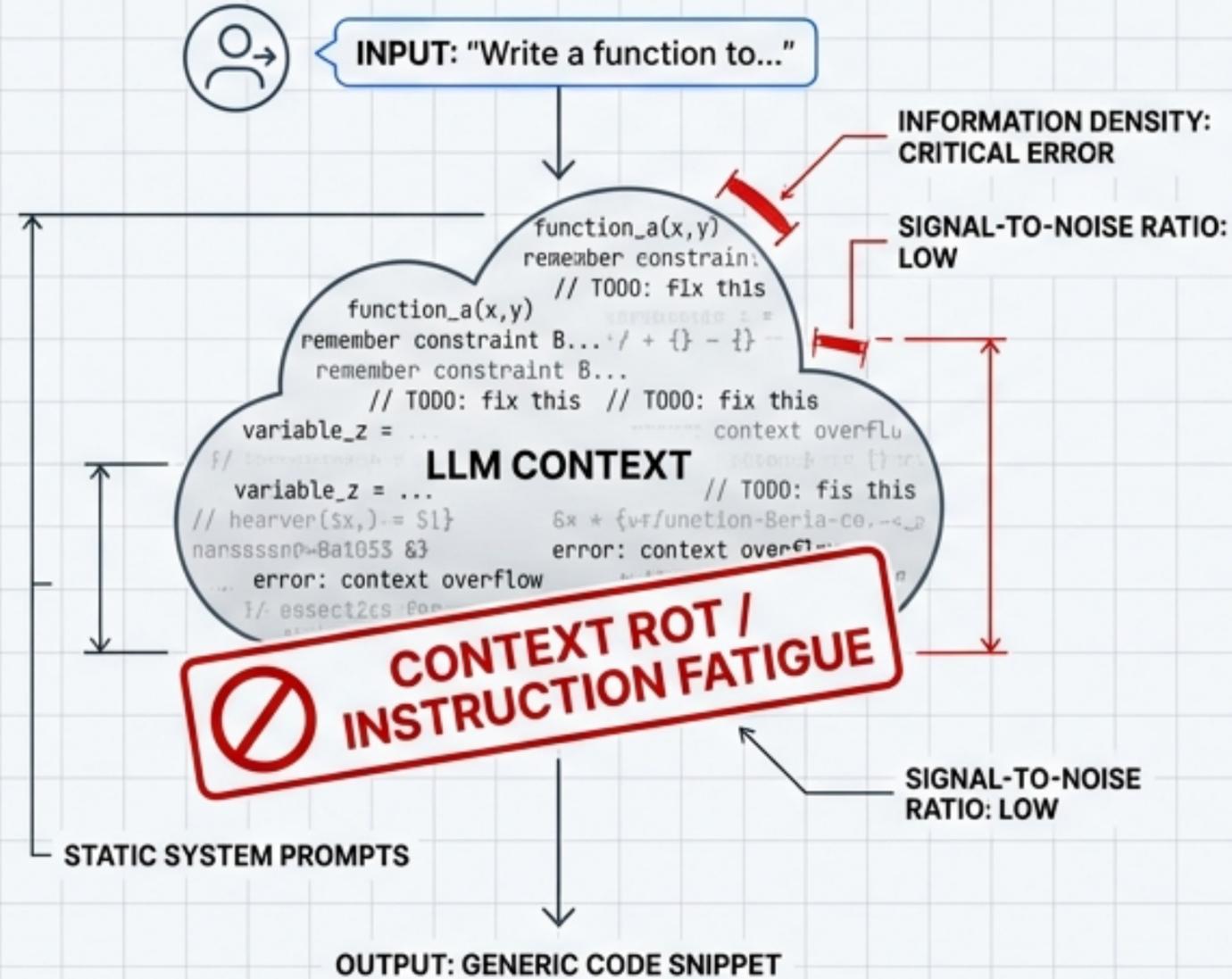**Source:** Comprehensive Evaluation of Gemini 3 & VS Code Fork.

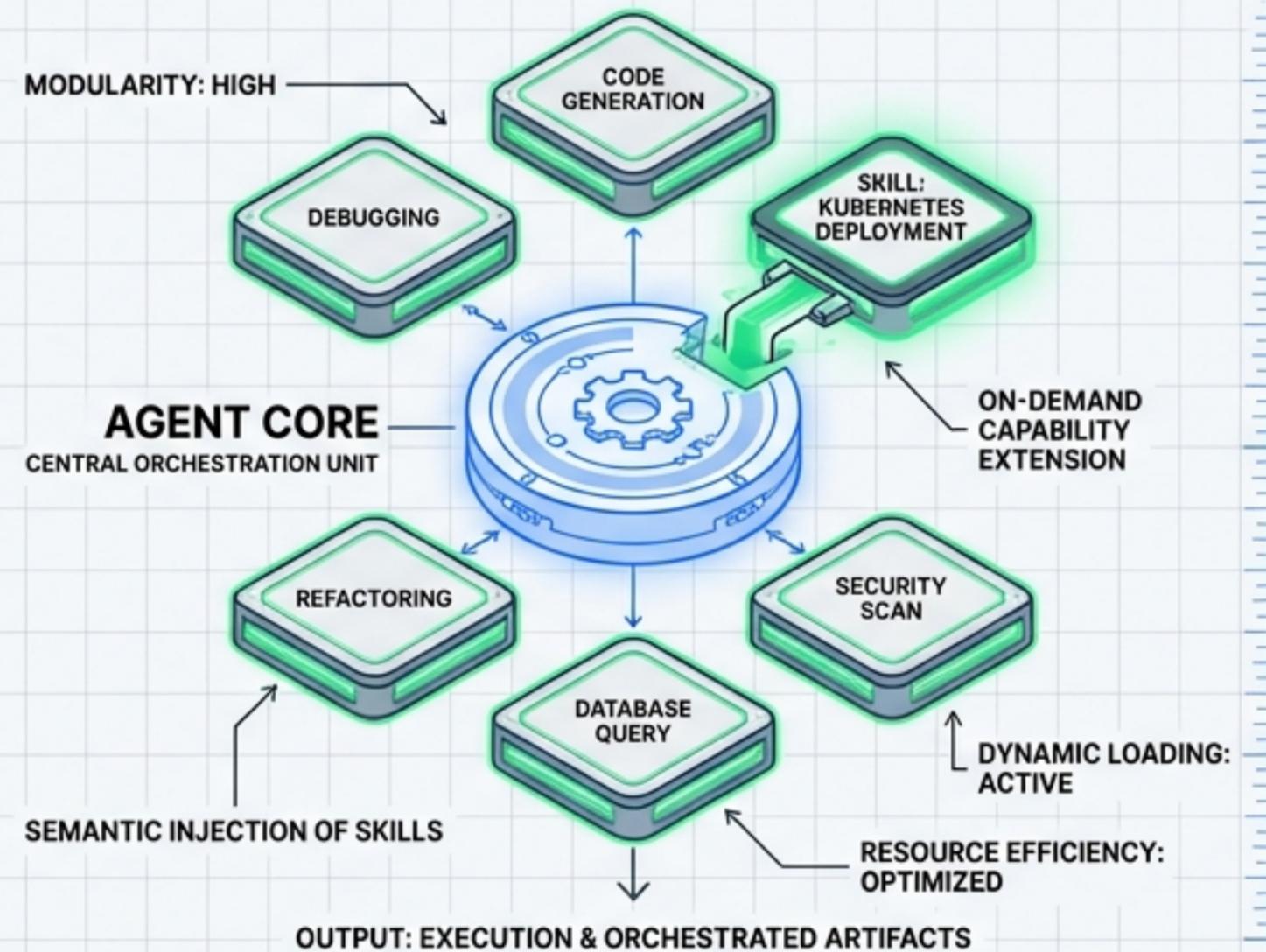NotebookLM

THE SHIFT: CODE COMPLETION VS. AGENTIC ORCHESTRATION

TECHNICAL ARCHITECTURAL SCHEMATIC // EDITION 01.26 // ANTIGRAVITY

FROM TEXT GENERATOR
TO TOOL USER.

THE OLD WAY - 2024

INPUT: "Write a function to..."

LLM CONTEXT

function_a(x,y)
remember constrain:
  // TODO: f1x th1s
function_a(x,y)
remember constraint B...'/ + {} - {}
  remember constraint B...
    // TODO: fix this // TODO: fix this
variable_z = ...
                              context overflu
variable_z = ...
                    // TODO: fis this
// hearver($x,)-= $1}   &x * {v·r/funetion-Beria-co-~<_g
nansssssn0~8a1053 &3
    error: context overflow
}/ essect2cs.fon

INFORMATION DENSITY:
CRITICAL ERROR

SIGNAL-TO-NOISE RATIO:
LOW

🚫 **CONTEXT ROT / INSTRUCTION FATIGUE**

STATIC SYSTEM PROMPTS

SIGNAL-TO-NOISE
RATIO: LOW

OUTPUT: GENERIC CODE SNIPPET

THE ANTIGRAVITY WAY - 2026

MODULARITY: HIGH

CODE GENERATION

DEBUGGING

SKILL: KUBERNETES DEPLOYMENT

AGENT CORE
CENTRAL ORCHESTRATION UNIT

ON-DEMAND CAPABILITY EXTENSION

REFACTORING

DATABASE QUERY

SECURITY SCAN

SEMANTIC INJECTION OF SKILLS

DYNAMIC LOADING: ACTIVE

RESOURCE EFFICIENCY: OPTIMIZED

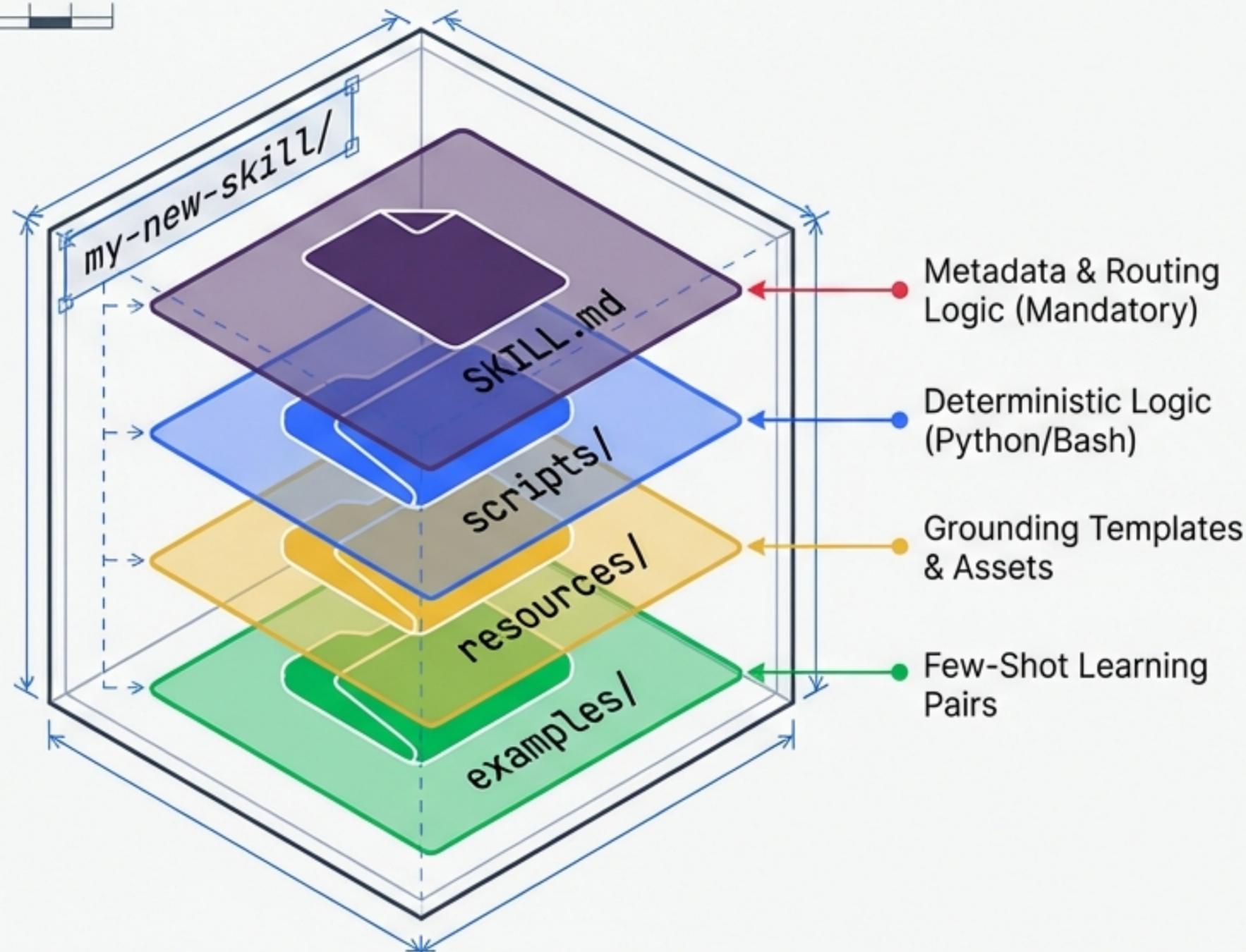OUTPUT: EXECUTION & ORCHESTRATED ARTIFACTS

GEMINI 3 ARCHITECTURE: DYNAMIC CONTEXT LOADING

PRECISION ENGINEERING // NEURAL-SYMBOLIC INTEGRATION

ANATOMY OF A SKILL: THE ATOMIC UNIT

TECHNICAL ARCHITECTURAL SCHEMATIC // EDITION 01.26 // ANTIGRAVITY
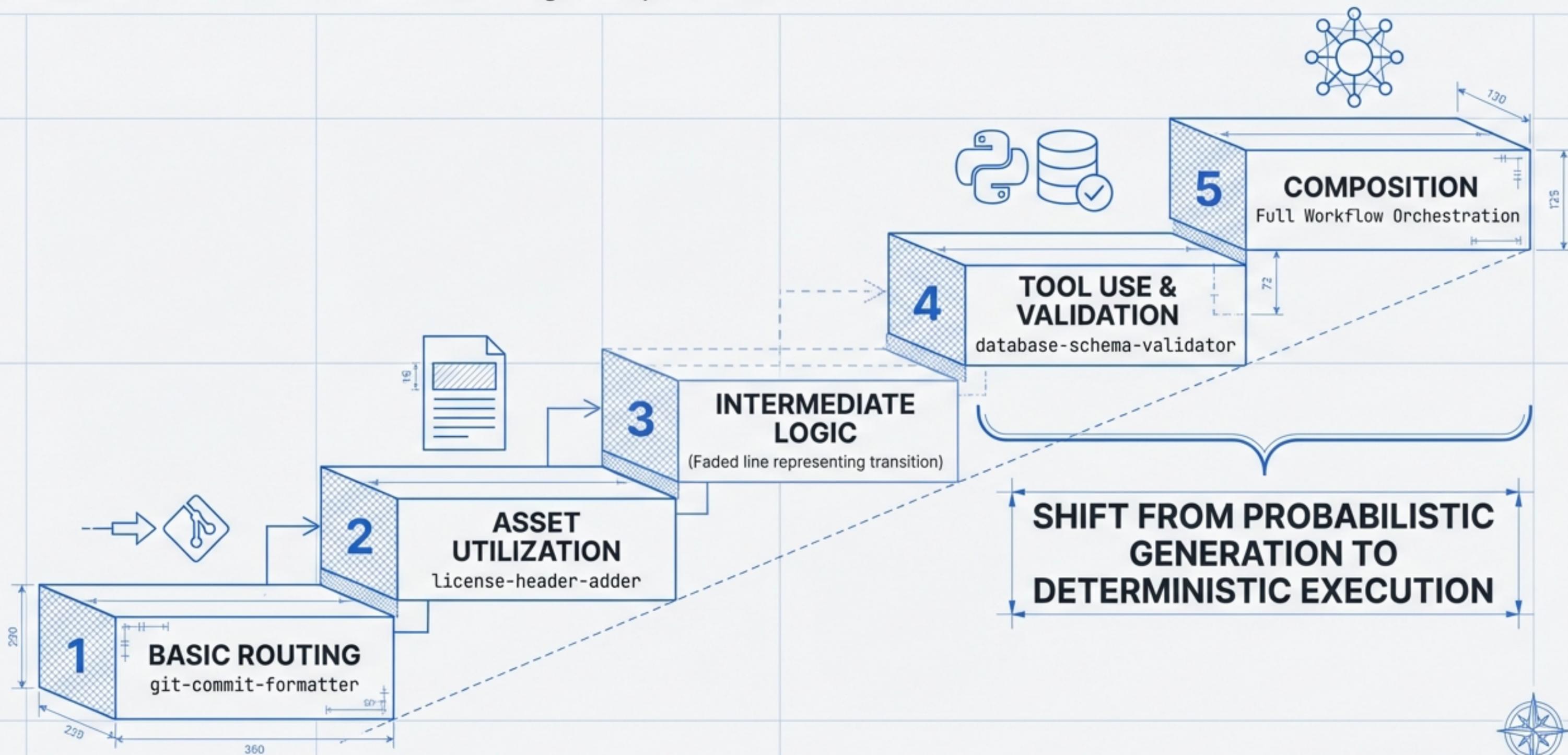
my-new-skill/

SKILL.md — Metadata & Routing Logic (Mandatory)

scripts/ — Deterministic Logic (Python/Bash)

resources/ — Grounding Templates & Assets

examples/ — Few-Shot Learning Pairs

SCOPE LOGIC

Workspace Scope

`.agent/skills/`

(Project Specific)

Global Scope

`~/.gemini/antigravity/skills/`

(Universal Utilities)

NotebookLM

EDUCATIONAL FOUNDATIONS: THE PATH TO MASTERY

FOCUS REPOSITORY: rominirani/antigravity-skills

5 **COMPOSITION**
Full Workflow Orchestration

4 **TOOL USE & VALIDATION**
database-schema-validator

3 **INTERMEDIATE LOGIC**
(Faded line representing transition)

2 **ASSET UTILIZATION**
license-header-adder

1 **BASIC ROUTING**
git-commit-formatter

SHIFT FROM PROBABILISTIC GENERATION TO DETERMINISTIC EXECUTION

THE COGNITIVE WORKSPACE: SCAFFOLDING INTENT

FOCUS REPOSITORY: study8677/antigravity-workspace-template

SOLVES THE "EMPTY PROJECT" PROBLEM.

TREATS THE IDE AS AN ACTIVE TEAMMATE THAT UNDERSTANDS CONSTRAINTS FROM DAY ONE.

EXPLORER

ARTIFACTS

A INFINITE MEMORY

Recursive summarization of history.

INFINITE MEMORY

C ARTIFACTS

C ARTIFACTS

Evidence logs in /artifacts/.

D

D .cursorrules

Pre-embedded architectural constraints.

B DEEP THINK MODE

Forces reasoning before coding.
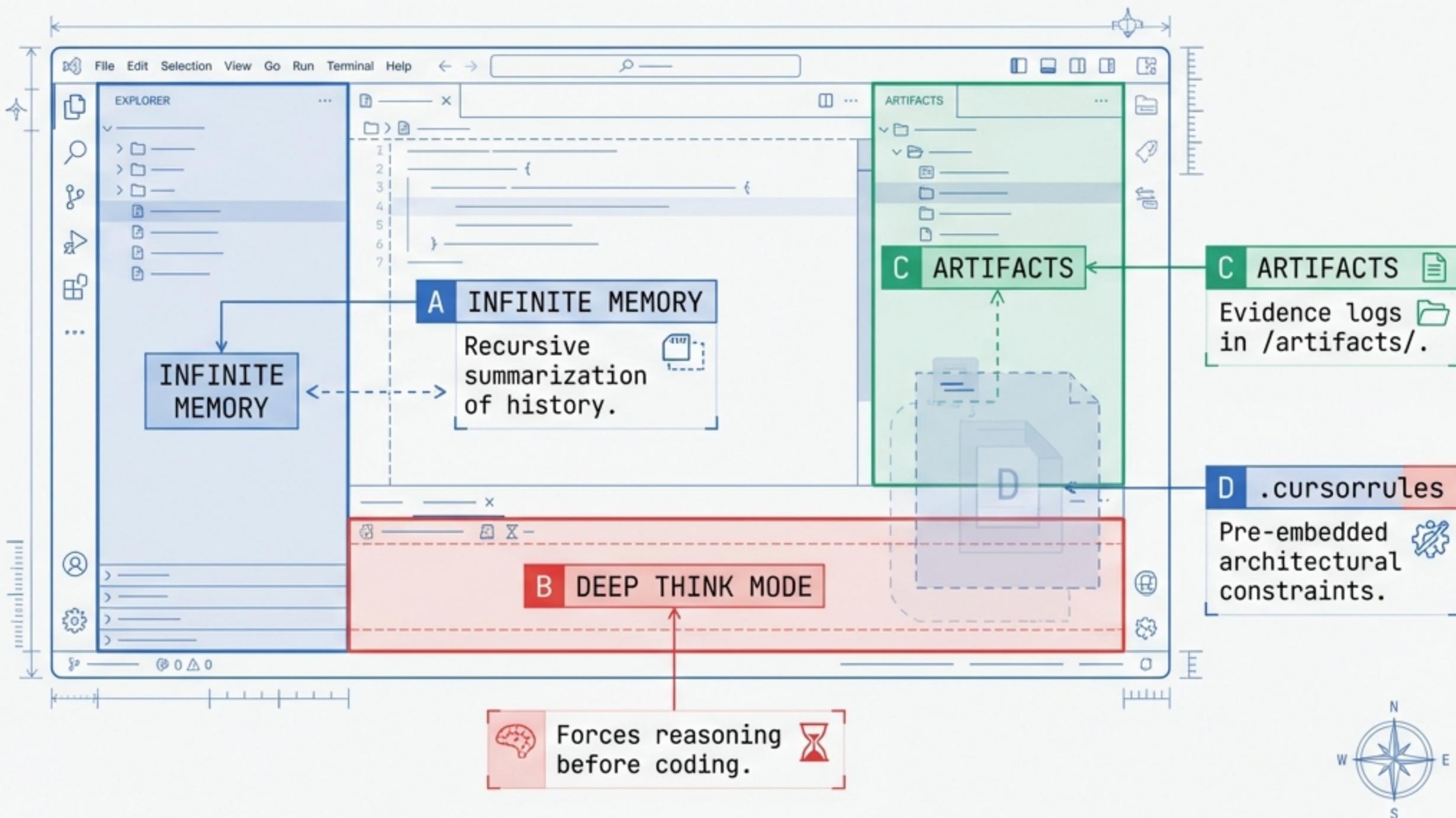
MANAGING CAPABILITY AT SCALE: SKILL VAULTS

FOCUS REPOS: rmyndharis/antigravity-skills & guanyang/antigravity-skills

THE RISK vs. THE BLOAT vs. THE STRATEGY

FULL INSTALL
TOKEN BLOAT &
IRRELEVANT
AUTO-ACTIVATION
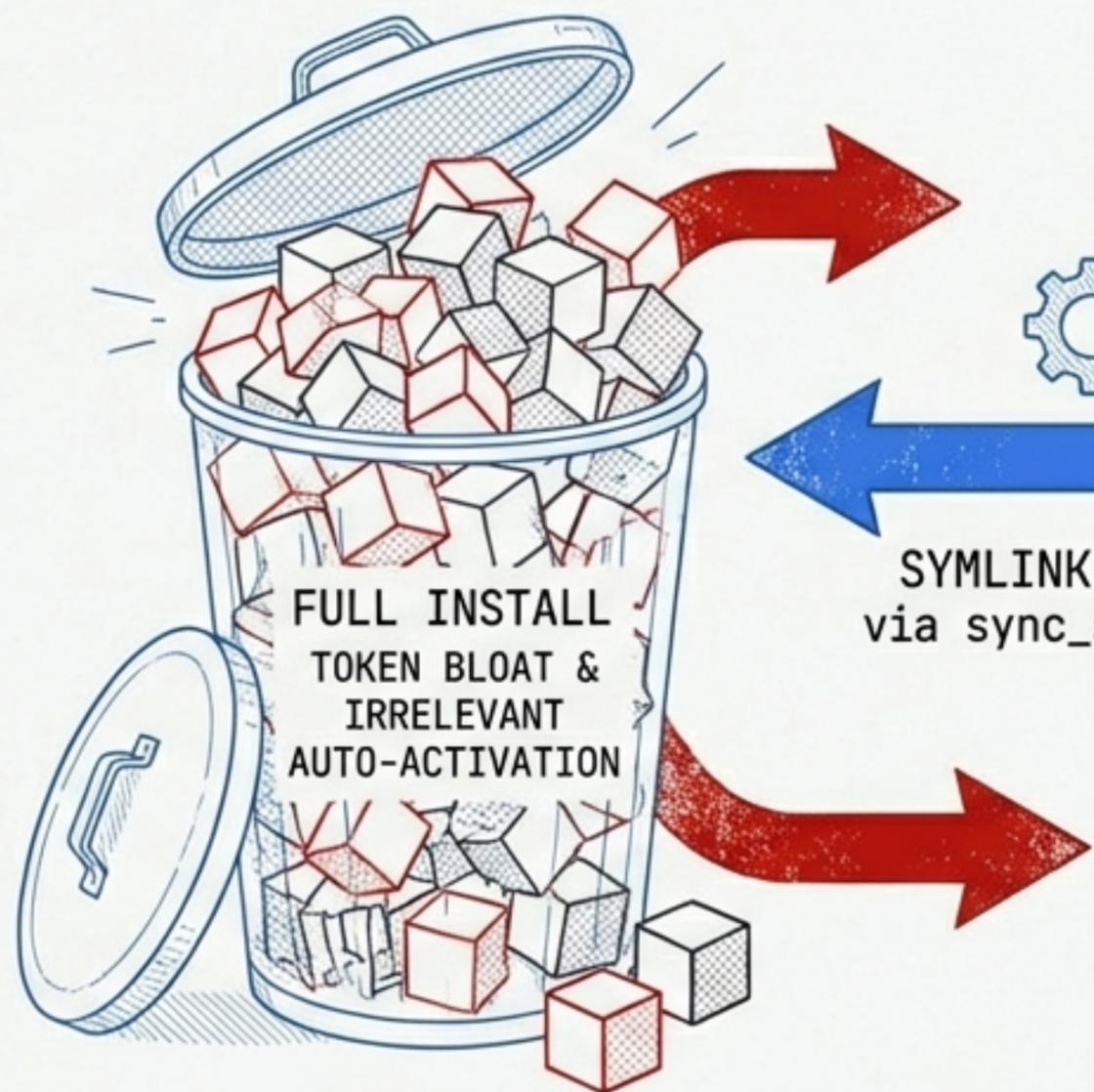
SYMLINK METHOD
via sync_skills.sh

STRATEGIC INSTALLATION

360
270
290
73
150
260

KUBERNETES   REACT   RUST
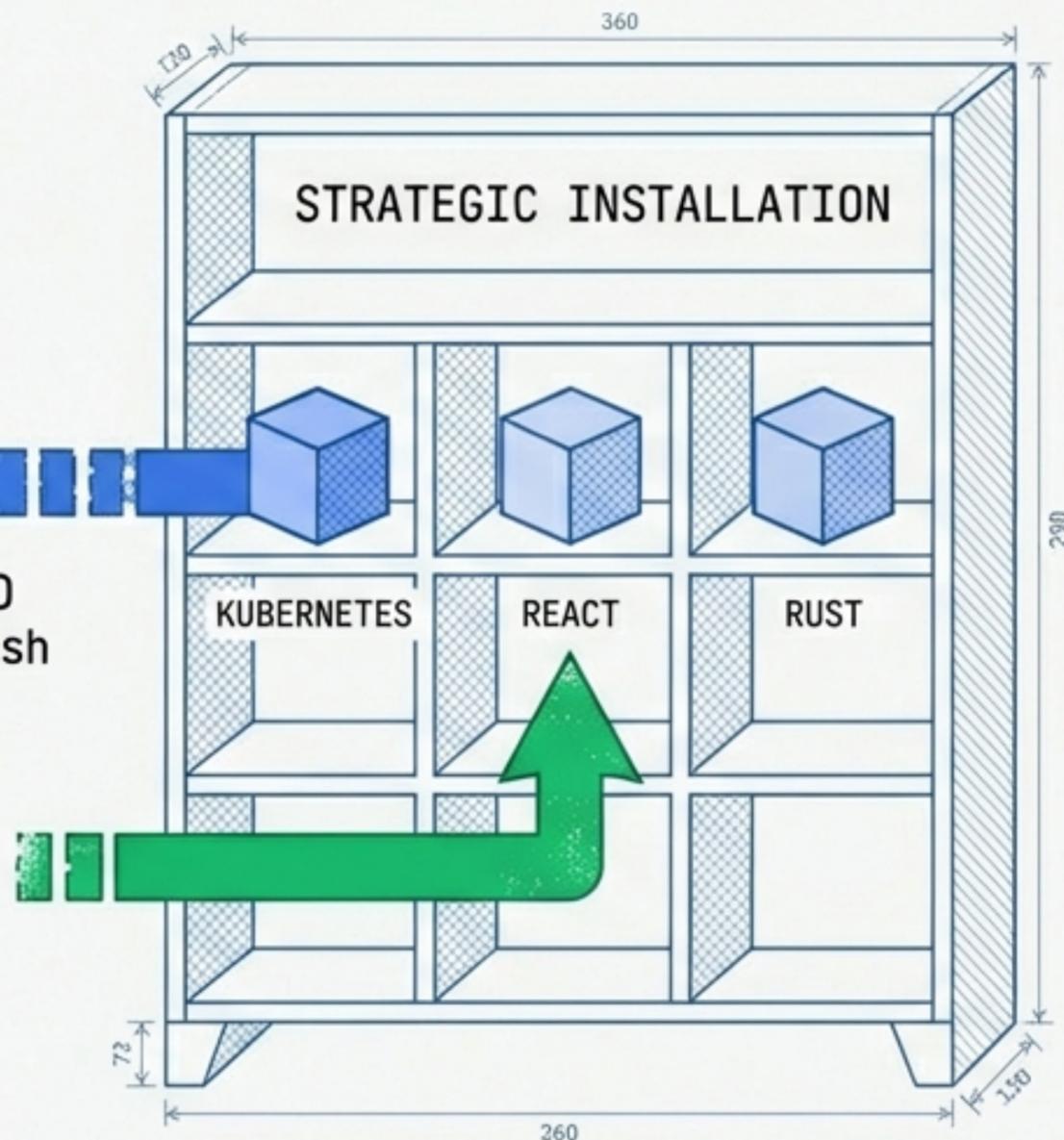
KEY DATA

- ACCESS TO 300+ SPECIALIZED PACKAGES

- DOMAINS: CLOUD, FRONTEND, SYSTEMS, SECURITY

- MECHANISM: catalog.json FOR TARGETED LOADING

COMMUNITY INTELLIGENCE & MISSION CONTROL
FOCUS REPOSITORY: ZhangYu-zjut/awesome-Antigravity

MISSION CONTROL TEMPLATES

Commander's Intent scripts for multi-surface tasks.

INTENT DEFINITION → SCRIPT EXECUTION

TROUBLESHOOTING

AGENT STUCK? → Protocol for frozen UI.

REBOOT PROTOCOL
CLEAR CACHE
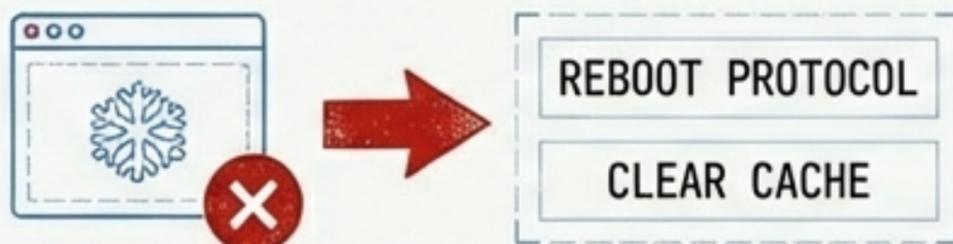
RATE LIMITED? → Context window optimization.

PRUNE HISTORY
COMPRESS PROMPT

EXTENSION COMPATIBILITY

VS CODE FORK
LIMITATIONS: Navigated

CORE EXTENSIONS: [✓] LOADED
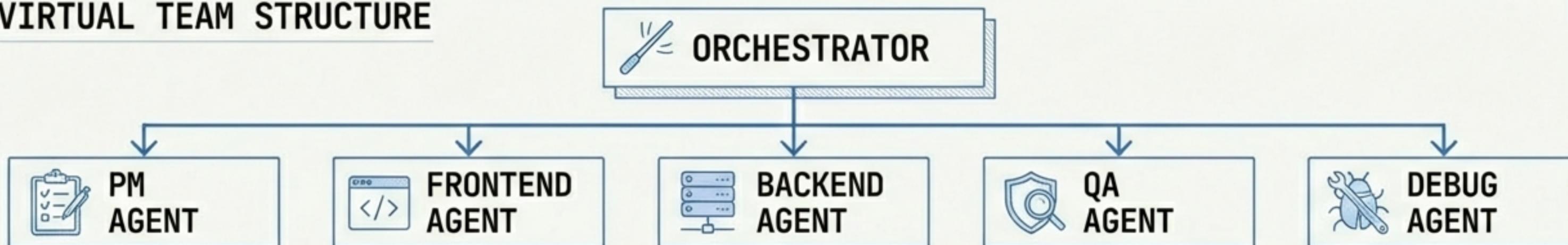THEMES: [✓] COMPATIBLE
PROPRIETARY TOOLS: [✗] RESTRICTED

FORK LIMIT   COMPATIBLE PATH
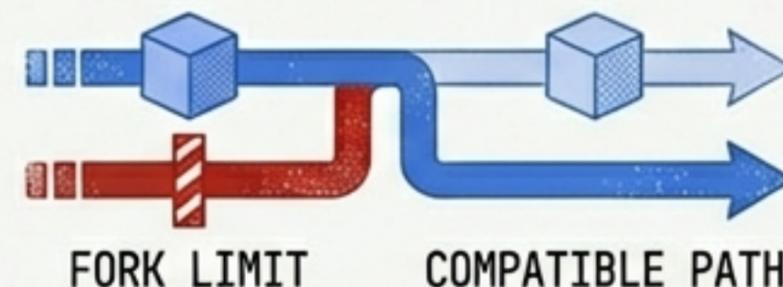
"Equipping the developer to command, not just code."

SWARM DYNAMICS: PARALLEL SUB-AGENTS

Focus Repository: wjgoarxiv/antigravity-swarm

The Manus Protocol

MAIN AGENT

SHARED MEMORY

task_plan.md
(Master Checklist)

findings.md
(Scratchpad)

ARCHITECT
SUB-AGENT

ENGINEER
SUB-AGENT

QUALITY
VALIDATOR

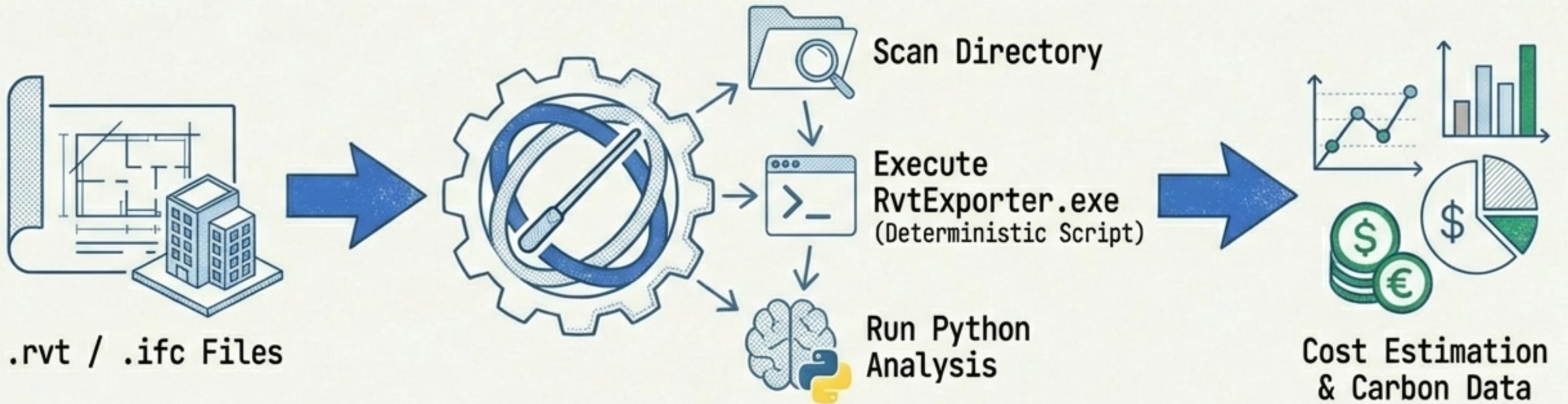SAFETY LOOP:
Prevent Hallucinations
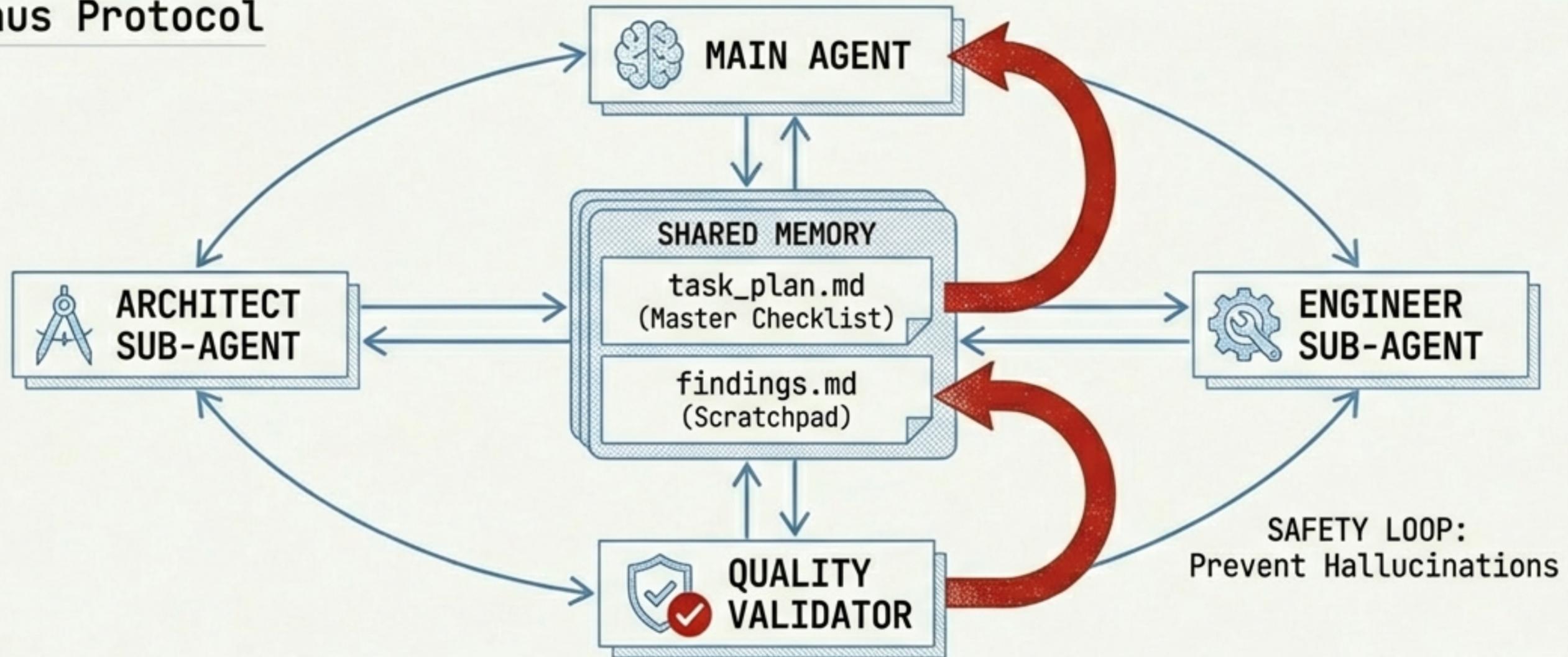
Overcoming linear limitations through parallel execution.

INDUSTRIAL ORCHESTRATION: Beyond Code

Focus: CAD/BIM to Data Pipeline

Antigravity Orchestrator

.rvt / .ifc Files

Scan Directory

Execute RvtExporter.exe (Deterministic Script)

Run Python Analysis

Cost Estimation & Carbon Data

Bridging specialized desktop software with modern data science.

SECURITY, QUOTAS, AND GOVERNANCE GUARDRAILS
Focus: Systemic Constraints & Economic Models

The JetBrains Exclusion

VS Code Fork
(Supported)

IntelliJ/PyCharm
(Excluded)

Binary choice for polyglot teams.

Strong Gravity

Focus Repo: Shiritai/sanity-gravity
Guardrails against system compromise.
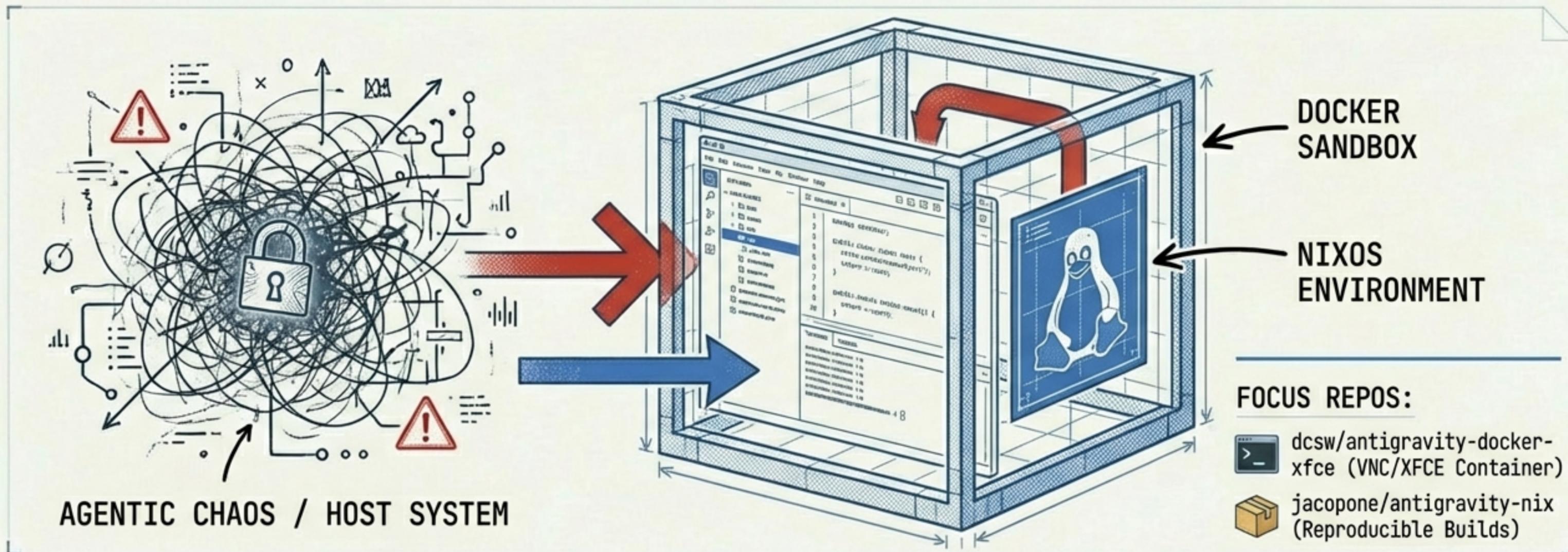
Quota Economics

Tokens

Tools: Altimeter Extension.
Strategy: Progressive Disclosure.

Apivating and piocking shots thet army relann, economics.

INFRASTRUCTURE: ISOLATION AND REPRODUCIBILITY
Focus: Containerization & Deterministic Environments

DOCKER SANDBOX

NIXOS ENVIRONMENT

AGENTIC CHAOS / HOST SYSTEM

FOCUS REPOS:

dcsw/antigravity-docker-xfce (VNC/XFCE Container)

jacopone/antigravity-nix (Reproducible Builds)

Safe experimentation zone for high-level agent permissions.

THE TRUST MECHANISM: VERIFICATION VIA ARTIFACTS

Moving from Chatting to Auditing.

Evidence Log

Browser Recording.mp4
Login Flow Verified.

Screenshot_UI.png ✓
CSS Changes Applied.
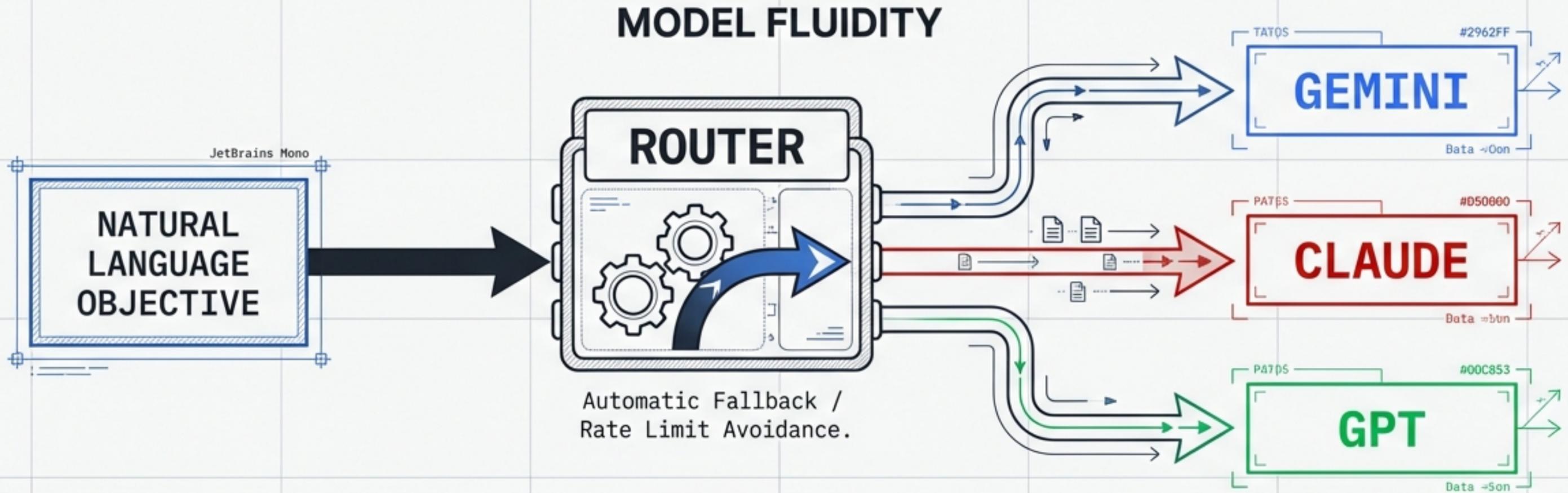
TRUSTED

build_log.txt
Tests Passed.

Agents provide **proof** of **granular execution**,
allowing humans to focus on **architecture**.

NotebookLM

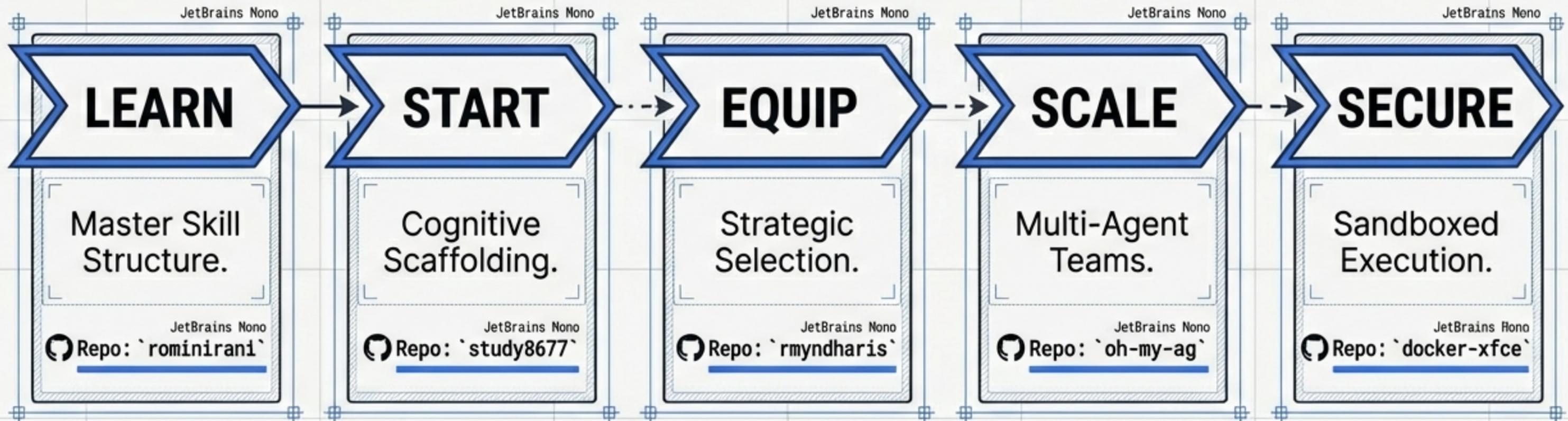# FUTURE OUTLOOK: VIBE CODING & INTER-AGENT COMMS
Focus: Model Fluidity & Human-AI Workflow

MODEL FLUIDITY

NATURAL LANGUAGE OBJECTIVE

JetBrains Mono

ROUTER

Automatic Fallback /
Rate Limit Avoidance.

GEMINI

TATOS #2962FF
Data →Oon

CLAUDE

PATES #D50600
Data →btn

GPT

PATES #00C853
Data →5on

VIBE CODING

Describe the "Vibe" -> Stitch AI implements Full Stack

Blurring the line between Editor and Mission Control.

NotebookLM

STRATEGIC IMPLEMENTATION ROADMAP

LEARN	START	EQUIP	SCALE	SECURE
Master Skill Structure.	Cognitive Scaffolding.	Strategic Selection.	Multi-Agent Teams.	Sandboxed Execution.
Repo: `rominirani`	Repo: `study8677`	Repo: `rmyndharis`	Repo: `oh-my-ag`	Repo: `docker-xfce`

ANTIGRAVITY IS NOT JUST AN IDE; IT IS A PLATFORM FOR AUTONOMOUS SOFTWARE DELIVERY.