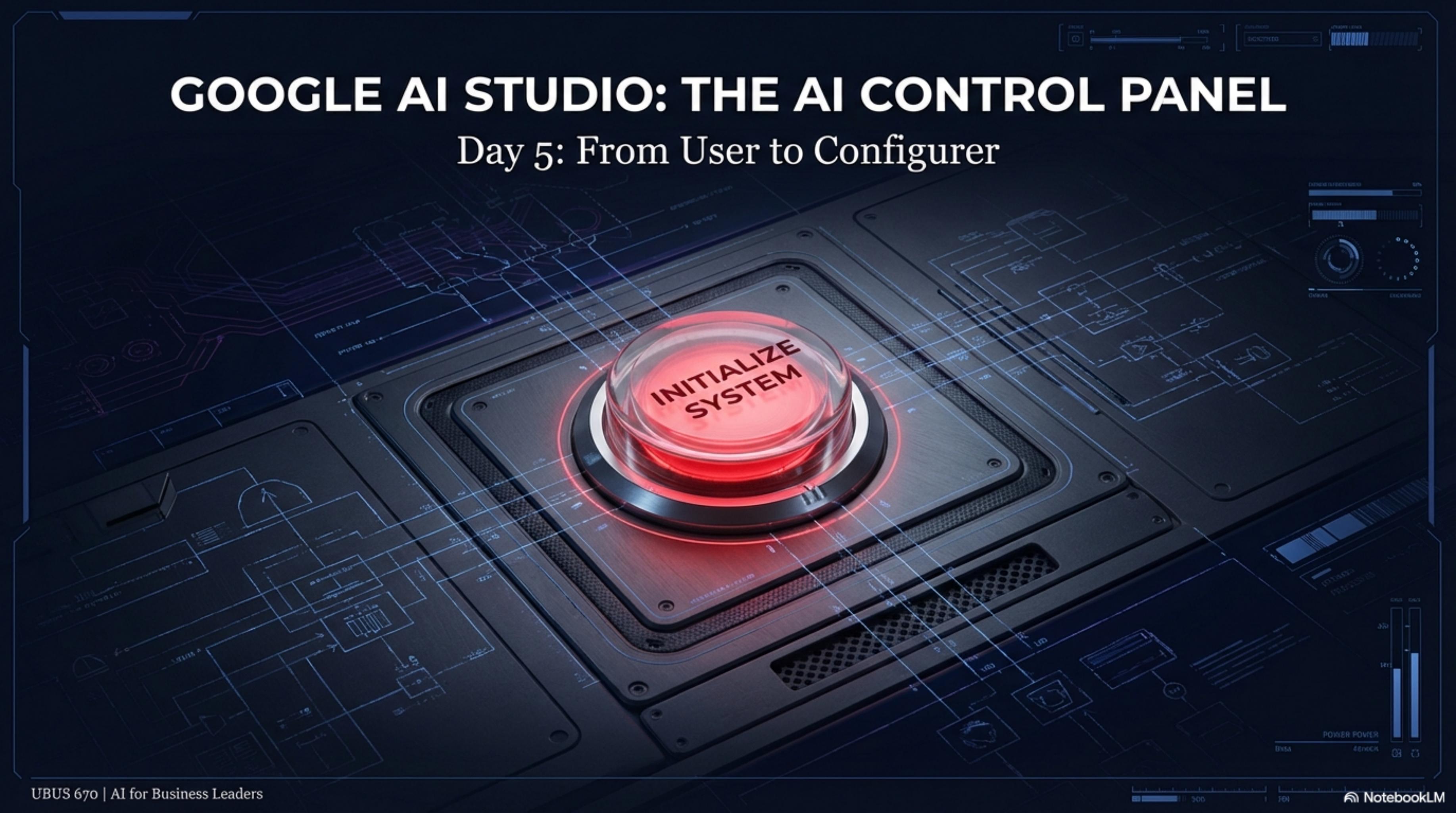


# GOOGLE AI STUDIO: THE AI CONTROL PANEL

Day 5: From User to Configurer

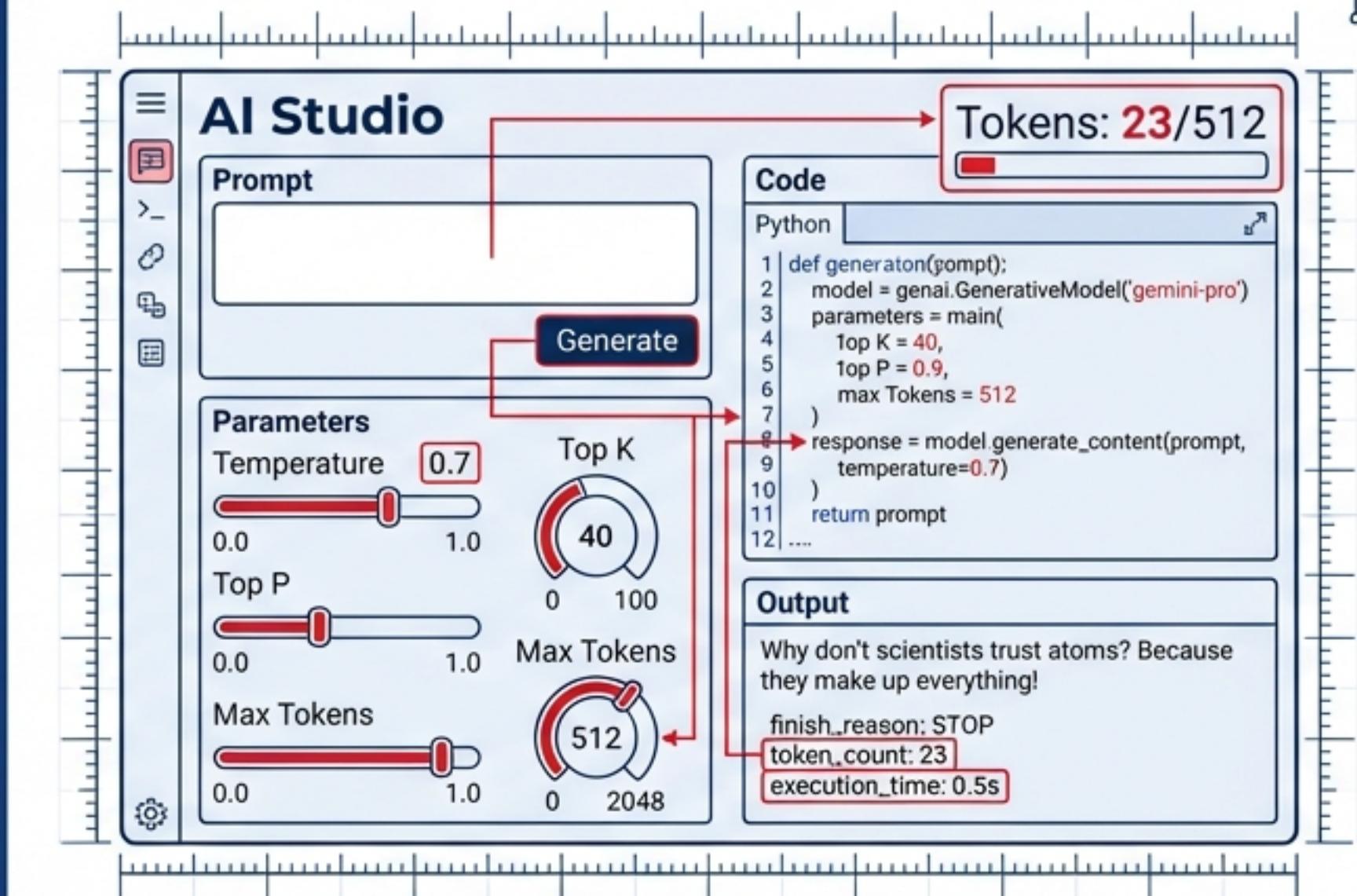


# THE SHOWROOM



- **Hidden Parameters**
- **Conversation Only**
- **No Cost Visibility**

# THE WORKSHOP



- **Full Control**
- **Prototyping**
- **Real-time Token Counter**
- **Export to Code**

You've been buying cars in the showroom. Today, we **open the hood**.

**DAY 5 GOAL**

**BUILDER**  
(Writes Code /  
Deploys)

**CONFIGURER**

**USER**  
(Prompts Chatbot)

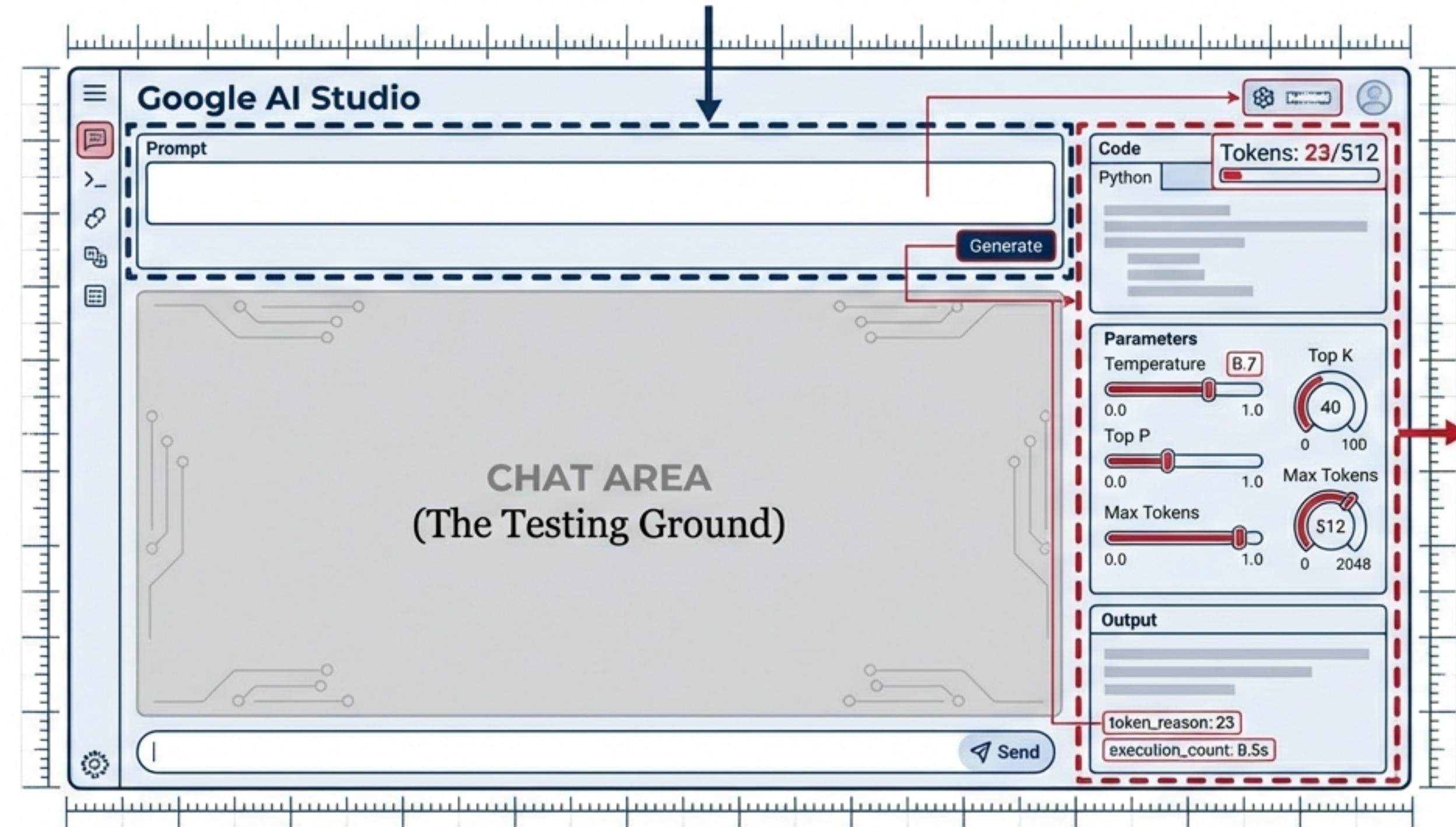
## THE CONFIGURER'S ROLE

To lead in an AI-enabled org, you must be more than a User.

You are the Configurer—controlling the settings that determine behavior.

# THE COCKPIT LAYOUT

## SYSTEM INSTRUCTIONS (The Rules)



# TEMPERATURE: THE CREATIVITY DIAL

Controls how random (stochastic) or deterministic the model's output is.



# THE THREE TEMPERATURE ZONES

## FOCUSED

Use for:  
Classification,  
Data Extraction,  
Triage.

## CREATIVE

Use for:  
Brainstorming,  
Marketing Copy.

## BALANCED

Use for:  
Summaries,  
Professional  
Writing.

0.0      PREDICTABLE / FOCUSED

1.0

CREATIVE / CHAOS



# QUIZ: WHAT'S THE TEMPERATURE?

Extracting invoice numbers and dates from PDF.

LOW (0.0 - 0.2)

Drafting a polite response to a frustrated customer.

MEDIUM (0.5)

Brainstorming names for a new sneaker line.

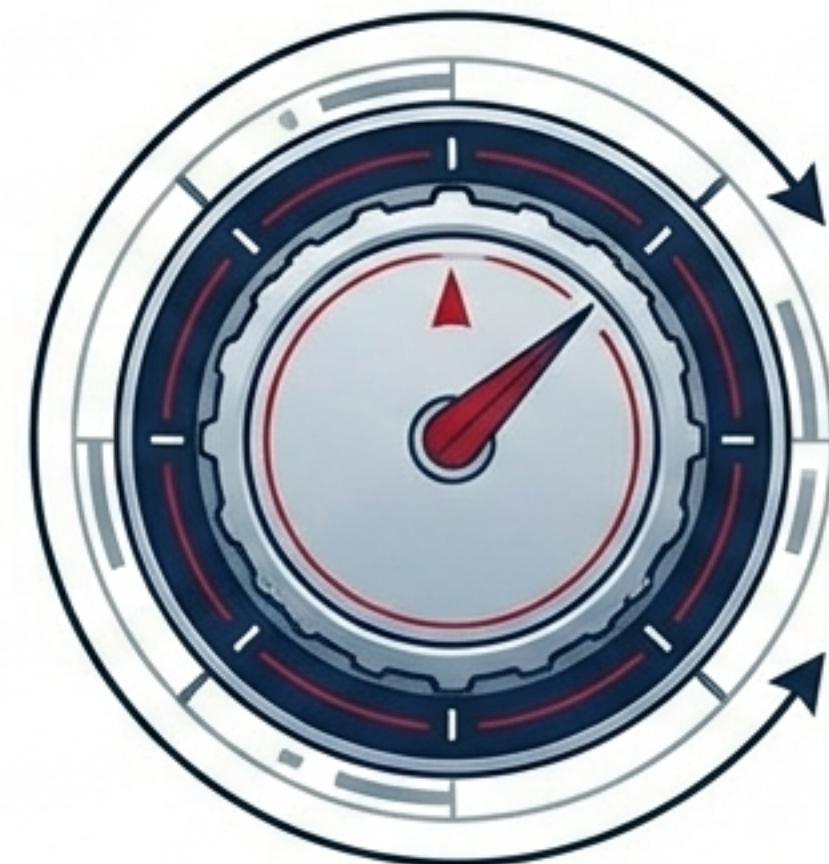
HIGH (0.9)



# FINE TUNING

Temperature is the big knob. These are the fine adjustments.

## TOP-P (Nucleus Sampling)



## TOP-P (Nucleus Sampling)

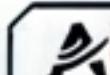
The Width of the Net.  
Limits the pool of token choices.

## MAX OUTPUT TOKENS



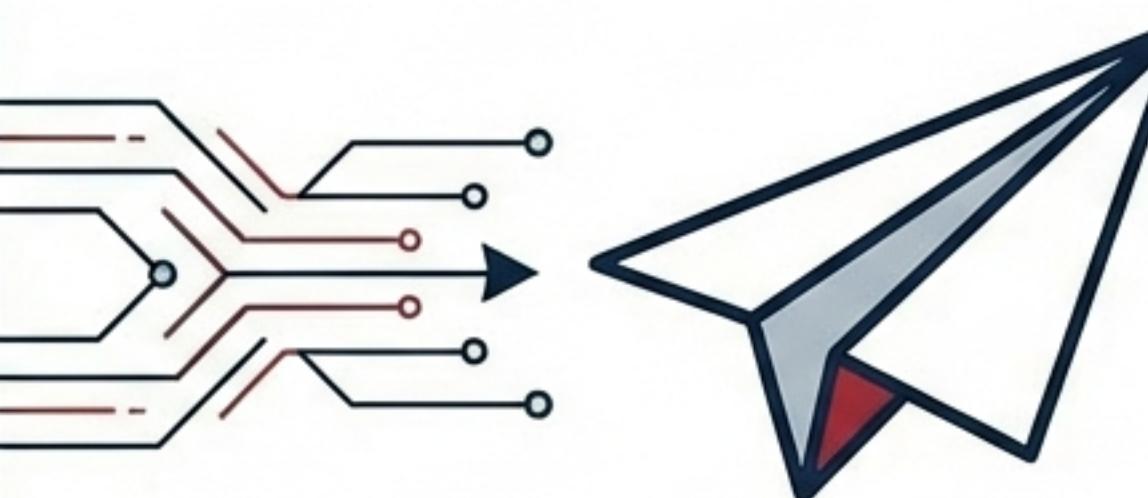
## MAX OUTPUT TOKENS

The Cost & Length Ceiling.  
Longer is not always better.



# SYSTEM PROMPTS: THE JOB DESCRIPTION

**USER PROMPT (Request)**



Fleeting, One-time.

**SYSTEM PROMPT (Law)**

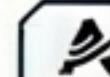
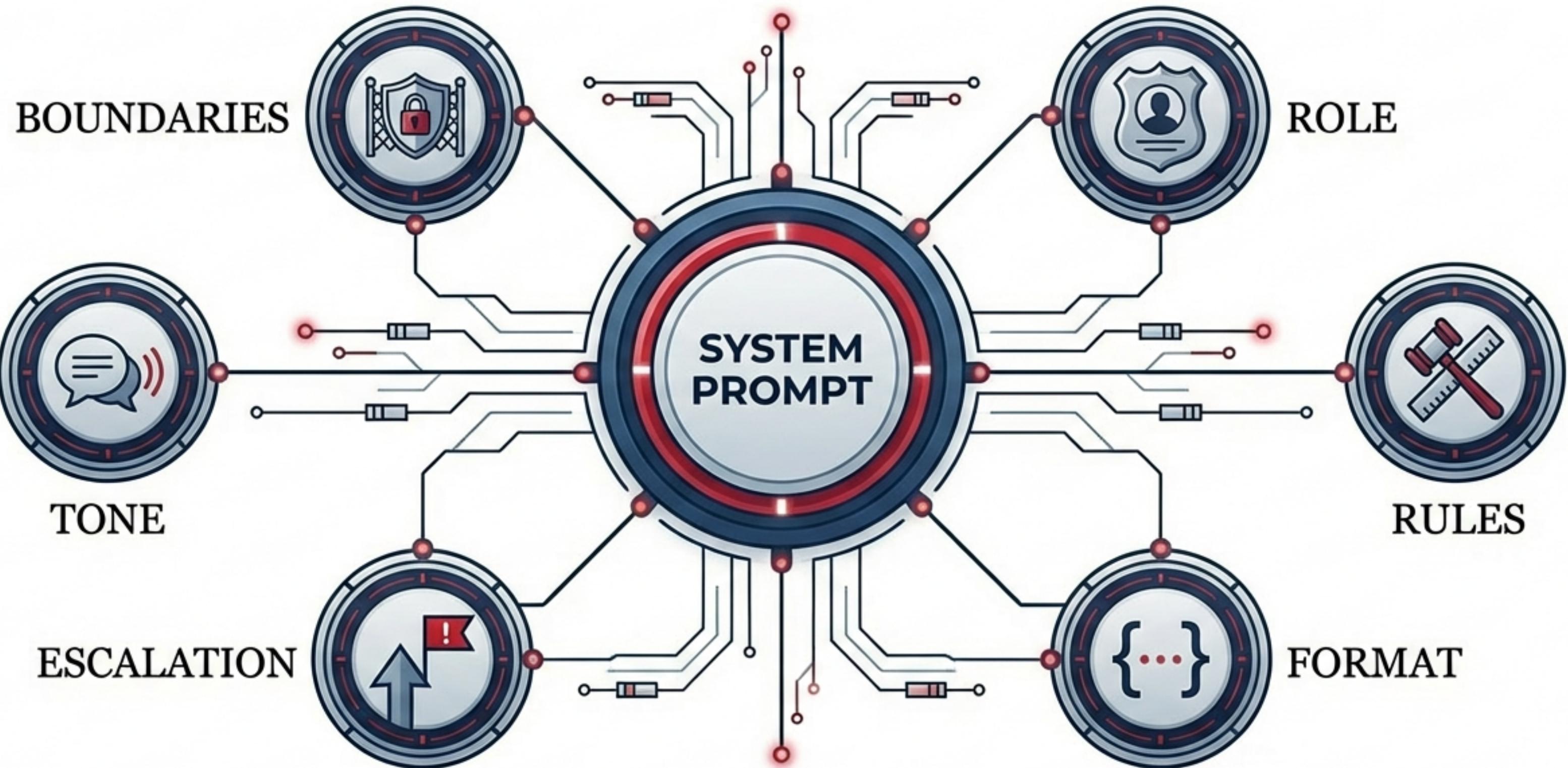


Persistent, Permanent.

**System Prompts = The RCTFC Framework made Persistent**



# ANATOMY OF A SYSTEM PROMPT



# CASE STUDY: BEACON EMAIL TRIAGE

**ROLE:** You are **Beacon Retail Group's** email triage specialist.

**RULES:** Classify every email into ONE category:  
[Complaint, Product Question, Order Status...]

**FORMAT:** Always respond with **JSON**: {Category,  
Priority, Summary}

**ESCALATION:** Legal threats -> Flag for **Legal Team**.

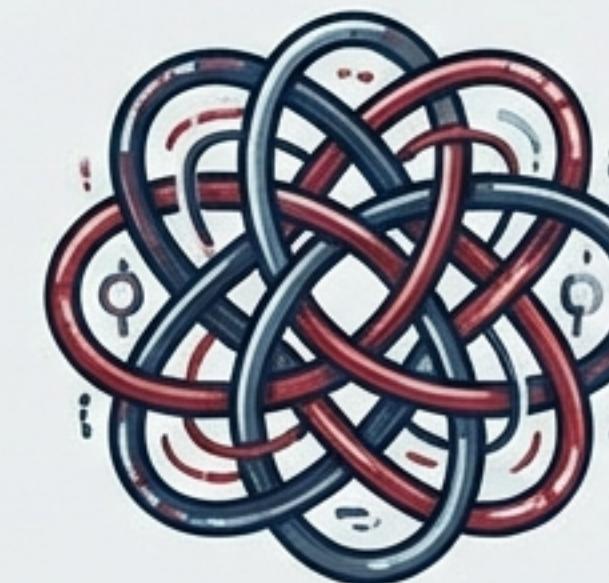
**BOUNDARIES:** Never share internal pricing margins.



# SPECIFICITY IS GOVERNANCE

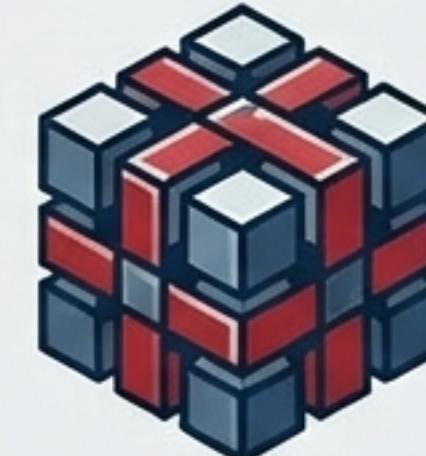
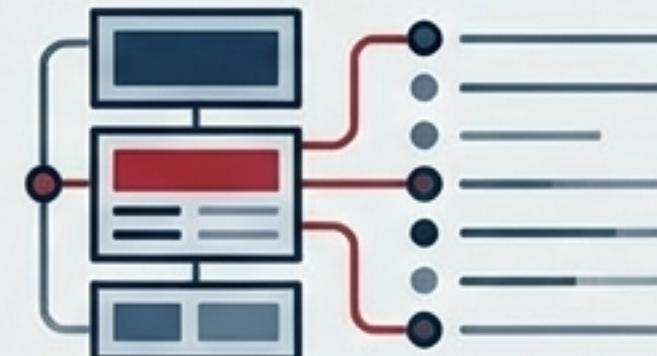
## THE BAD PROMPT

You are a helpful assistant.  
Answer emails.



**Risk:** Hallucinations &  
Safety Issues

## THE BEACON PROMPT



**Result:** Structured,  
Safe, Enforced



# TOKEN ECONOMICS: CHOOSING YOUR VEHICLE

**GEMINI 3 FLASH**



Reliable, Efficient.  
~\$0.50 Input / \$3.00 Output  
per 1M tokens.

**GEMINI 3 PRO**

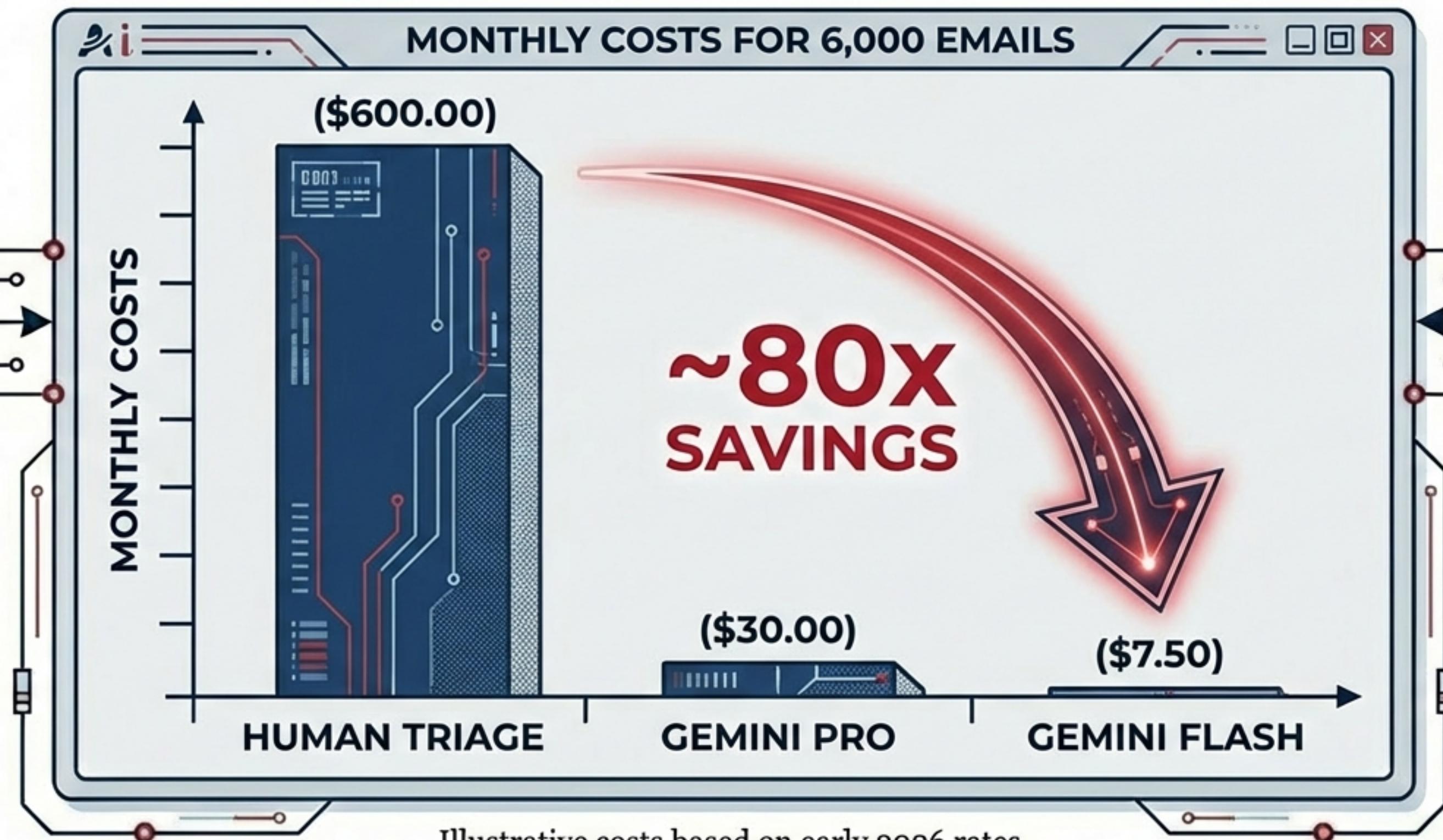


Complex, Powerful.  
~\$2.00 Input / \$12.00 Output  
per 1M tokens.

Don't drive the Mercedes to pick up groceries. Use Flash for high-volume tasks.



# THE ROI: PENNIES VS DOLLARS



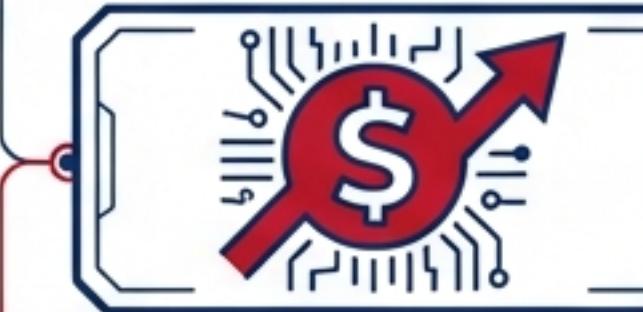
# KEY TAKEAWAYS & NEXT STEPS



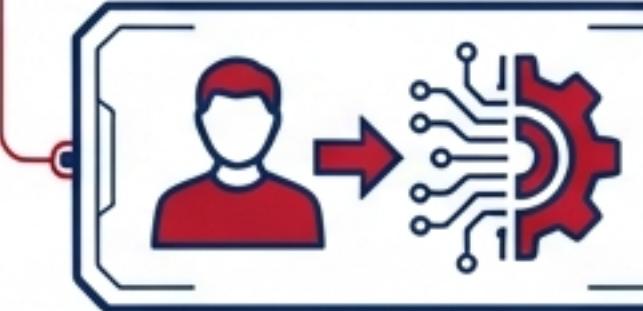
**DIALS:** Temperature controls creativity (Low = Consistent).



**RULES:** System Prompts are persistent laws.



**MONEY:** Flash (\$7.50) vs Human (\$600) = The Business Case.



**ROLE:** You are now a Configurer.

**NEXT: DAY 6 — RED TEAMING.** We break what we just built.