

From AI Models to AI Systems

Problem Statement

- **AI IS POWERFUL.
BUILDING AI SYSTEMS IS
STILL HARD.**

The hidden engineering problems
behind agents, workflows, real-
time AI and production systems.

6 Pillars

● 1. ANALYZE

Choose the right approach

- Agent Based App or Business Workflow
- Define Users, Goals, Data and Tools

● 3. TESTING

Validate before users do

- Agent behavior & Workflow paths
- Quality, Safety & Performance

● 5. OBSERVABILITY

See what is happening

- Trace Agents, Tools & Events
- Monitor Usage, Failures & Anomalies

● 2. DEVELOPMENT

Build the intelligence layer

- Agent, Prompts & Workflows
- Connect Models, Tools & Knowledge

● 4. PRODUCTION

Run reliably at scale

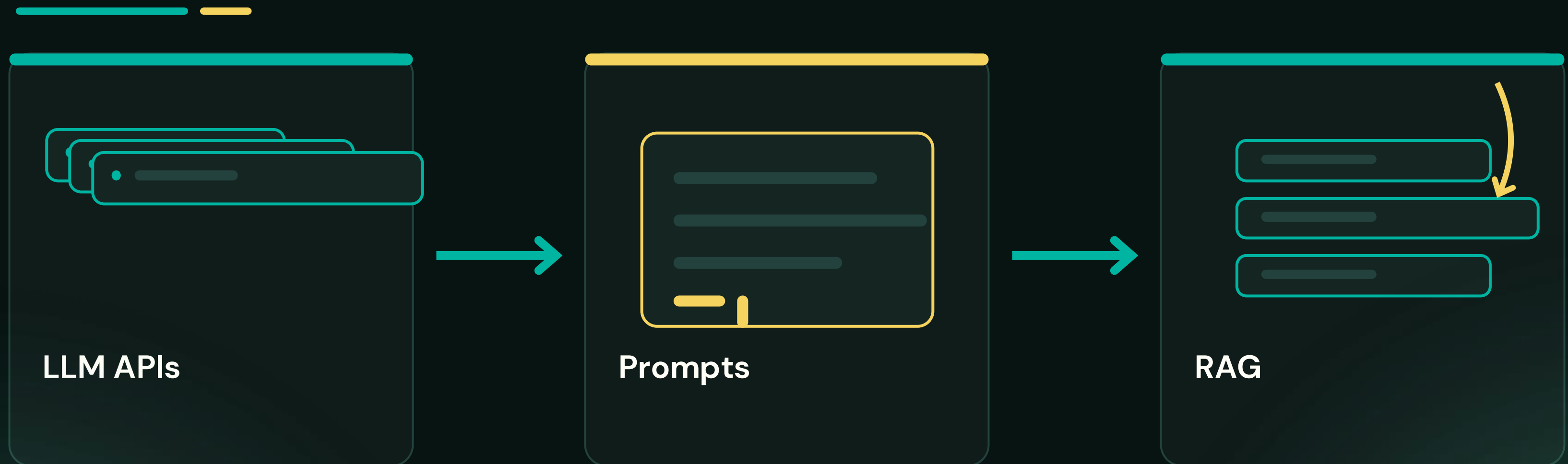
- Deploy, secure and manage environments.
- Scale real-time workloads

● 6. EVALUATION

Measure & Improve

- Accuracy, Relevance & User feedback
- Optimize prompts, models & workflows

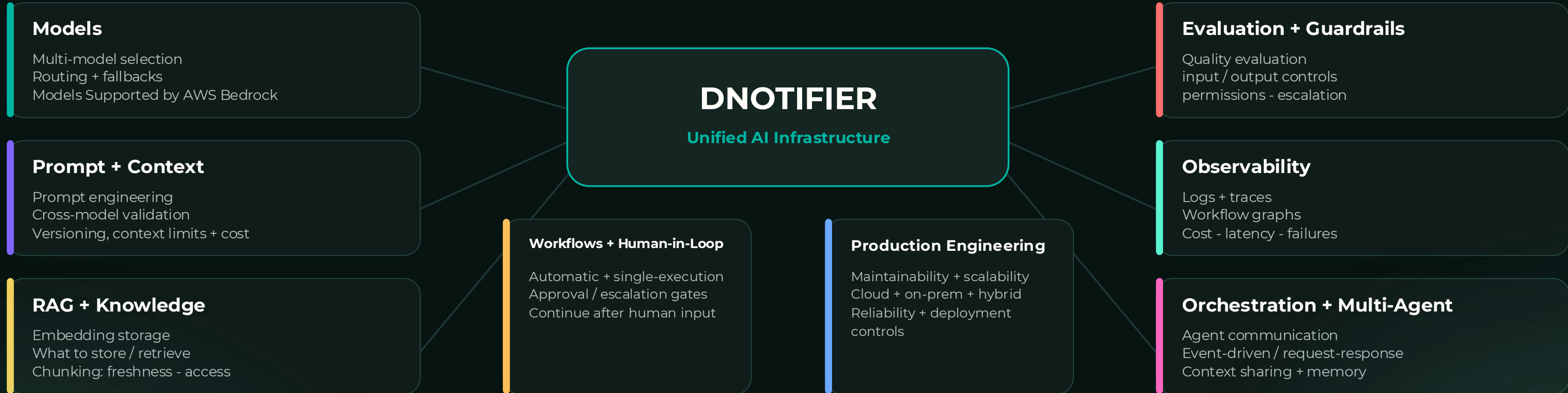
What we think AI Development Looks like:



Thats it?

What AI Engineering Actually Looks Like

The model is only one component — the real product is the engineering system around it.



Build



Test



Deploy



Run



Observe



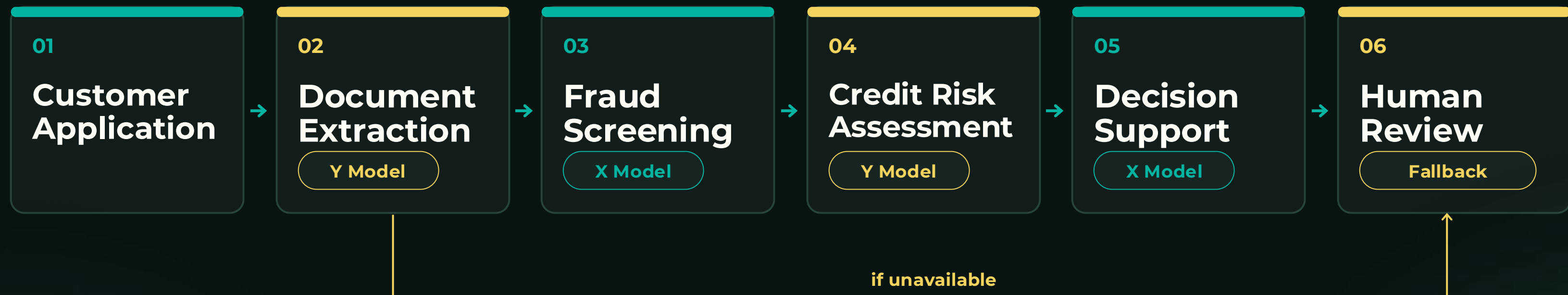
Evaluate



Improve

Models

One workflow. Multiple models.



Different banking tasks require different model strengths.

Prompt + Context

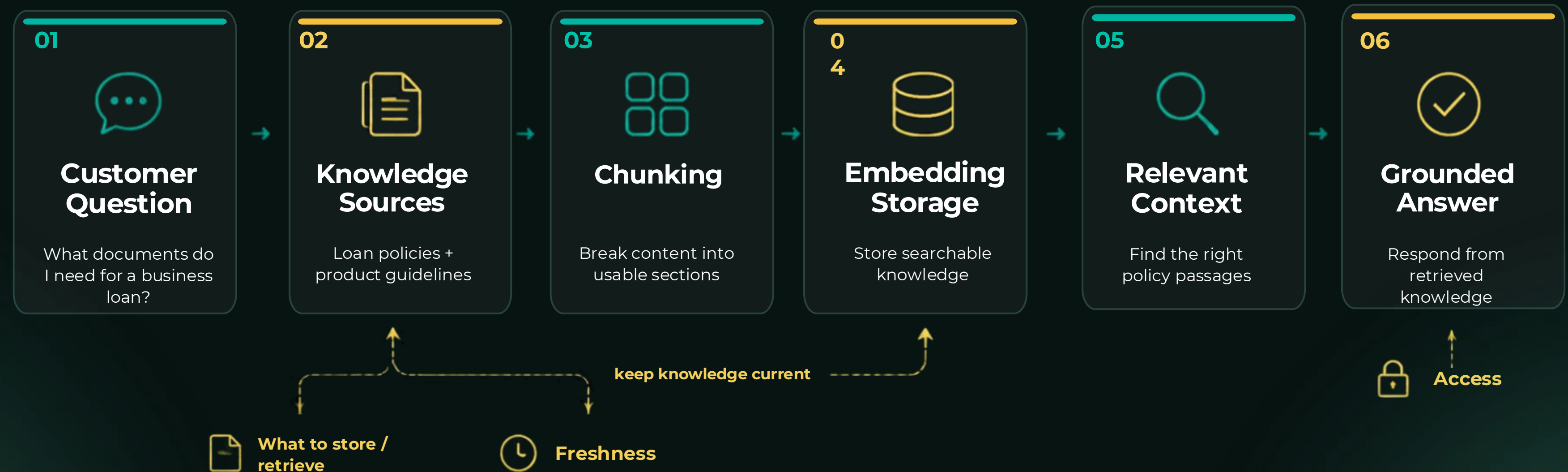
The same request changes with the right context.



Better prompts are useful. Relevant context makes them reliable.

RAG + Knowledge

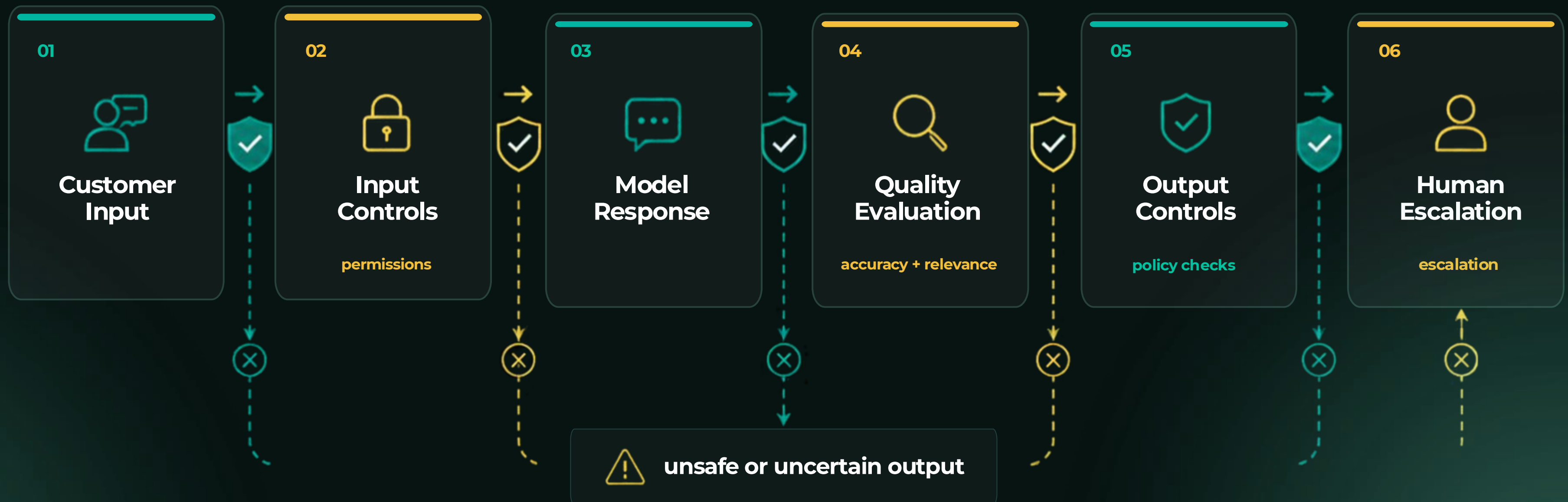
Ground the answer in the knowledge that matters.



Retrieval quality shapes answer quality.

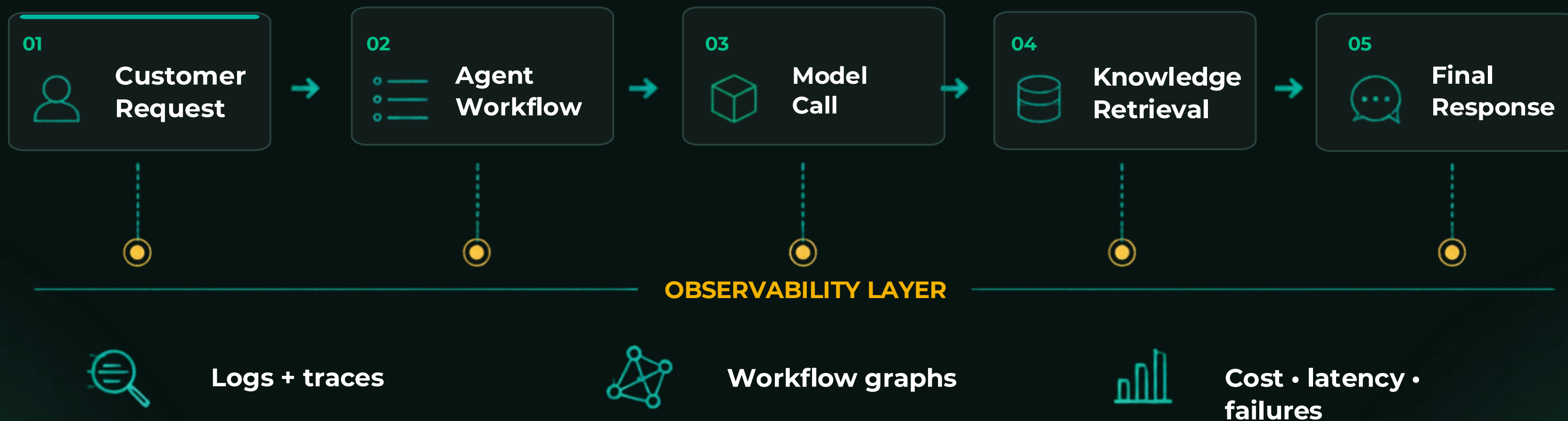
Evaluation + Guardrails

Trust is engineered before the workflow reaches production.



Observability

You cannot improve what you cannot see.



Trace the path. Find the failure. Improve the system.

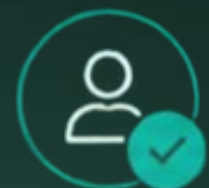
Orchestration + Multi-Agent

Complex work is coordinated, not handed to one agent.



Workflow + Human-in-Loop

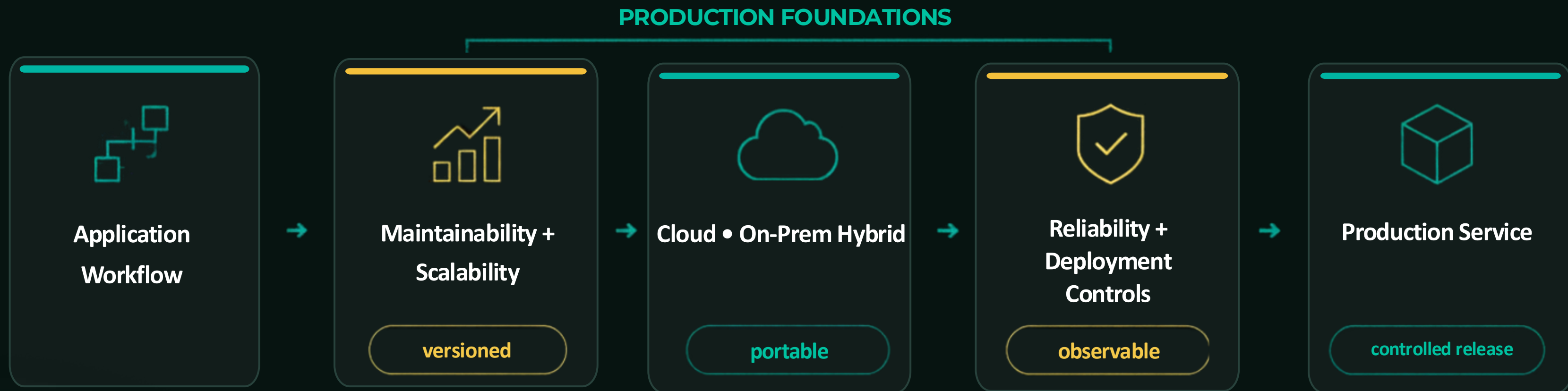
Automation moves fast. People make the consequential calls.



**Automation handles the routine.
People handle the consequential.**

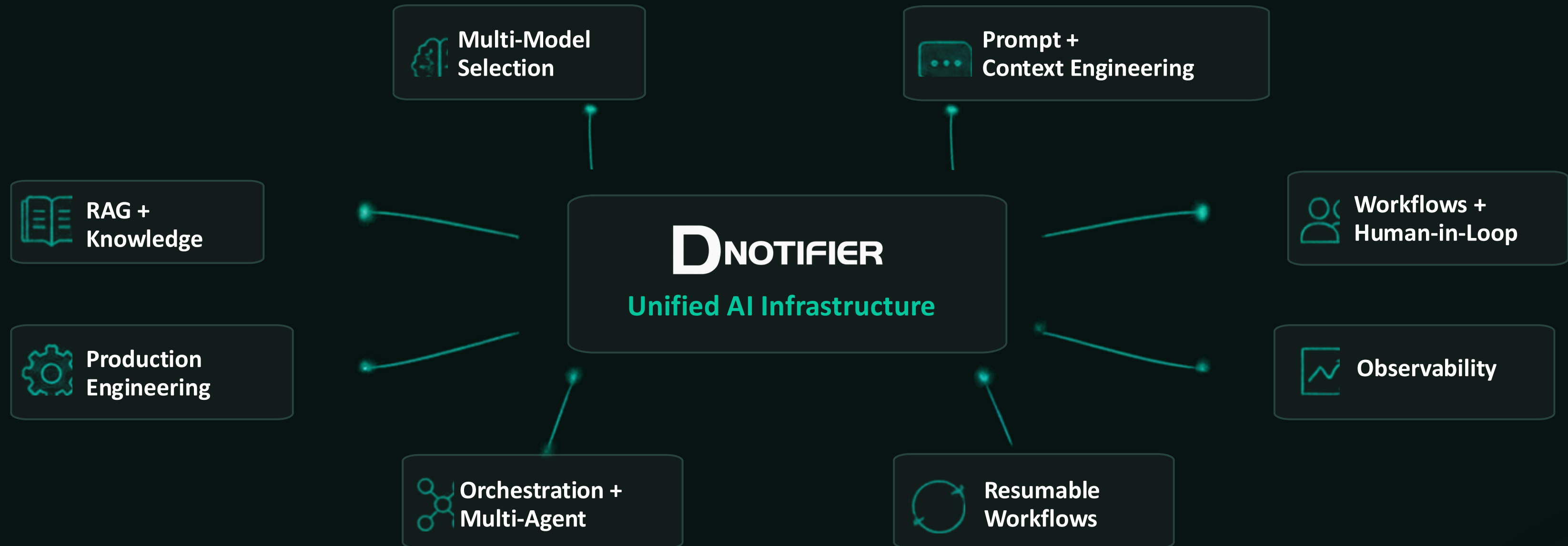
Production Engineering

The system must work wherever the business runs.



Built for change. Deployed with confidence.

From AI Models to AI Systems



Build. Run. Observe. Improve.

September 2026

THANK YOU

DNOTIFIER



Presented by:
Hamza Q.