OPENAI ARCHITECTURE READOUT

Performance Factory

From Performance Alert to Verified Recovery

A visual implementation readout of the workflow, evidence, handoffs, and authority surrounding OpenAI's performance agents.

OFFICIAL OPENAI SOURCE / INDEPENDENT LUMINITY SYNTHESIS



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Performance Factory in One View

OpenAI turned a recurring investigation into a persistent workflow that ends with production recovery evidence.

THE OPERATING SHIFT

01
Manual Investigation
engineer steers tools

02
Codex Partner
agent assists diagnosis

03
Automated Run
alert starts a session

04
Factory Workflow
state carries the work

More Than 1,700
OPENAI

Investigations tracked by the Regression Workflow in just over three months.

Over 600
OPENAI

Cases root-caused during the same reported period. This is not a count of deployed fixes.

OpenAI reports 17 automated investigations per day. The article does not establish a universal performance benchmark.

IN THIS READOUT

Key Points

01 ### Task state carries the work

Findings and status live outside any one agent context.

02 ### Ready work gets assigned

A dispatcher starts the next Codex turn when the task is ready.

03 ### Recovery closes the loop

After deployment, an agent checks whether performance returned to baseline.

Reported figures and system behavior come from OpenAI. The workflow-boundary reading is Luminity synthesis.

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The Performance Factory Architecture

Four components move ready work through explicit states while evidence persists across agents and engineers.

01

Durable Task State

- state
- allowed transitions
- findings
- engineer steps
- subscriptions
- task report

02

Four System Components

1 **Task Service** — config + Markdown instructions

2 **Dispatch Loop** — assigns ready work

3 **Cloud Codex** — internal API + engineering tools

4 **Subscriptions** — wake after external events

03

Execution and Handoff Boundary

Scoped Identity — IDENTITY

Agents run under a service identity so permissions and actions can be scoped and distinguished.

Engineering Tools — TOOLS

Repositories, metrics, logs, traces, CPU profiles, and memory snapshots support the work.

Wait Without Running — EVENT

Review comments, CI results, or deployment completion can make a waiting task ready again.

Human Visibility — REVIEW

Engineers follow work, add context, share tasks, and review proposed changes.

SOURCE BOUNDARY

Internal cloud Codex API | OpenAI engineering implementation | Not Background Mode

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Regression Workflow From Alert to Recovery

Agents advance the task, independent turns challenge conclusions, and an engineer decides what ships.

01

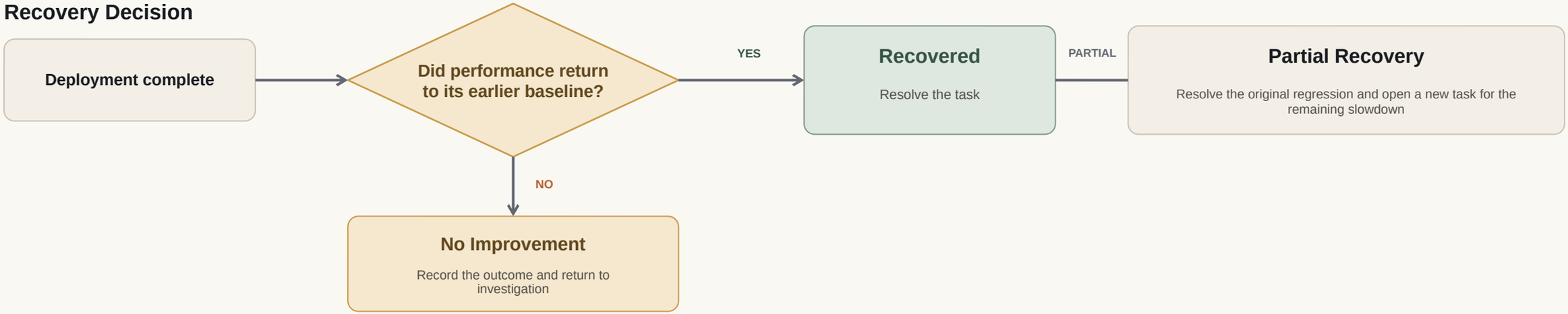
Implemented Alert-Driven Path



The proposed fix receives its own adversarial review before the engineer handoff.

02

Recovery Decision



AUTHORITY	Agent proposes	Engineer reviews	Engineer decides what ships	Agent verifies

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How the Workflow Earns Trust

OpenAI combines independent challenge, backtesting, operational monitoring, and a concise engineer handoff.

01

Checks and Balances

Challenge the Diagnosis

REVIEW

A separate Codex session rechecks assumptions and tests counterfactuals. It can reopen the investigation.

Challenge the Fix

REVIEW

A separate review asks whether the proposed change addresses the cause and introduces new problems.

Evaluate Changes

EVAL

Historical incidents test investigation behavior. Saved task snapshots test the engineer summary.

Monitor the Agents

OPS

A daily check looks for tool failures and access errors. Recurring failures can create repair tasks.

02

What the Reported Review Establishes

100 root-cause suggestions reviewed manually

70% graded accurate

Keep the Qualification

SCOPE

The other 30% needed refinement or did not fully establish causality. This review covers root-cause suggestions, not proposed fixes or production-wide performance.

Protect Engineer Attention

HANDOFF

The task report summarizes impact, root cause, proposed fix, metrics, flame graphs, and traces so an engineer can inspect the evidence and decide.

TRUST BOUNDARY

Independent challenge | Evidence-backed handoff | Human judgment remains

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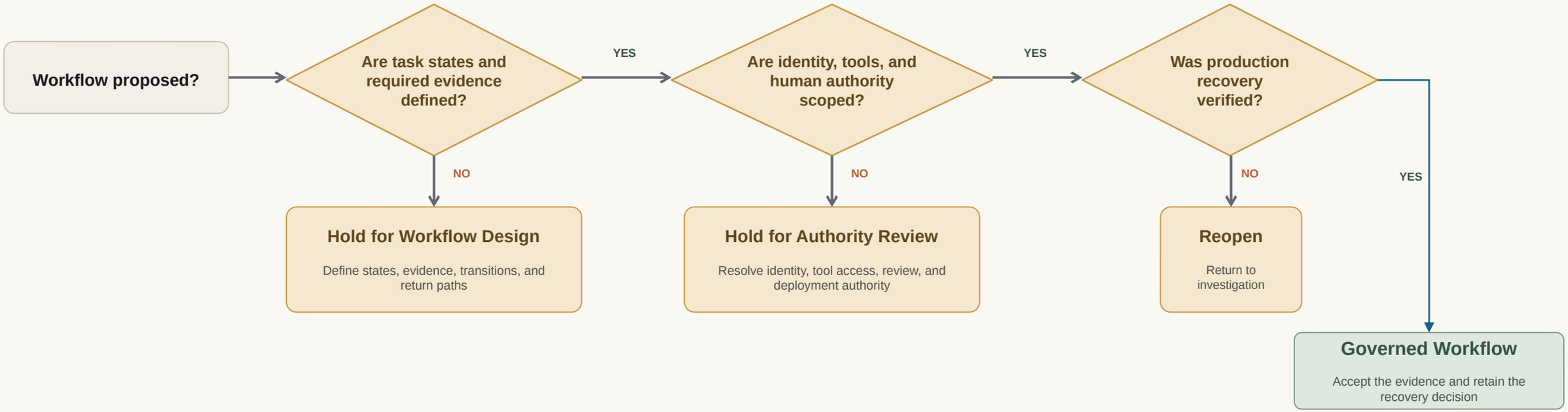
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Enterprise Control From Evidence to Recovery

An agent can propose a fix. A governed workflow carries it from evidence to verified recovery.



BOUNDARY	Current: alert driven	Engineer decides what ships	Future autonomy remains exploratory

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