



Background

Liquid Agent builds agent wallets that schedule and execute automated payments. Their smart contracts ship frequently and touch high-risk surfaces: automation (recurring execution), permissions (roles/admin/upgrades), and funds movement. They were using Slither plus periodic manual review, but the workflow was noisy, reactive, and slow to remediate.

Challenge

- Static tools surfaced many generic findings but lacked context (what changed, why it matters to their payment flows)
- Point-in-time reviews/audits were thorough but episodic, leading to last-minute fixes and release friction
- Team needed security that stayed “on” during PRs—not just before release

Solution

Kairo was integrated into Liquid Agent's CI/CD pipeline to deliver:

- Risk-diff per pull request (what changed, what risk increased, why)
- Context-aware prioritization (permissions + value movement + automation first)
- Merge-ready remediation (recommended fixes + regression test prompts)
- Continuous monitoring between audits and releases

Direct Impact



2.1x

more critical/high-severity issues caught pre-merge vs. Slither + periodic review alone

40%

faster PR → mainnet lead time (4.8d → 2.9d)



- **44% fewer “noise” findings** requiring manual triage (less alert fatigue, more signal)
- **35% fewer audit-cycle delays** caused by late discovery of exploitable issues
- **100% of PRs got a security verdict in <10 minutes** in CI/CD (fast enough to stay in the dev flow)

Why Kairo beat the alternatives for Liquid Agent

Compared to Slither:

Slither is great for fast pattern checks, but it's rule-based and often noisy for nuanced role + automation logic. Kairo adds context and prioritization, plus a risk delta per PR—so developers know what matters now.

Compared to security audit competitors (point-in-time reviews):

Audits are deep but not continuous—risk creeps back in between engagements. Kairo keeps security always-on so audits become validation, not discovery.

Compared to heavier tooling (formal/symbolic/fuzzing stacks):

Tools like Certora, Mythril, and Echidna are powerful but require more setup/maintenance. Kairo complements them by making day-to-day PR security fast, actionable, and consistent.

“Kairo caught the issues we actually worry about—auth, upgrades, and fund-flow edge cases—before merge. We ship to mainnet faster with fewer late surprises.” - Chris