



VirtualPyTest

Any device with a screen,
tested and monitored 24/7 by AI —
open source, **flat fee**, no robots.

A complete test-automation & monitoring platform for real devices — in production today at a tier-1 European TV operator.

01 OPEN SOURCE

02 AI-NATIVE

03 FLAT FEE · UNLIMITED DEVICES

— WHAT IS VIRTUALPYTEST

A machine that **watches the screen** and **presses the buttons** — like your best QA engineer, around the clock.

01 / SEE

Capture

HDMI, camera, mobile screen — any video & audio source becomes testable.

02 / ACT

Control

Real infrared & Bluetooth remotes, mobile control, web browsers — real user input.

03 / CHECK

Verify

Image matching, text reading (OCR), AI detectors confirm what's on screen.

04 / WATCH

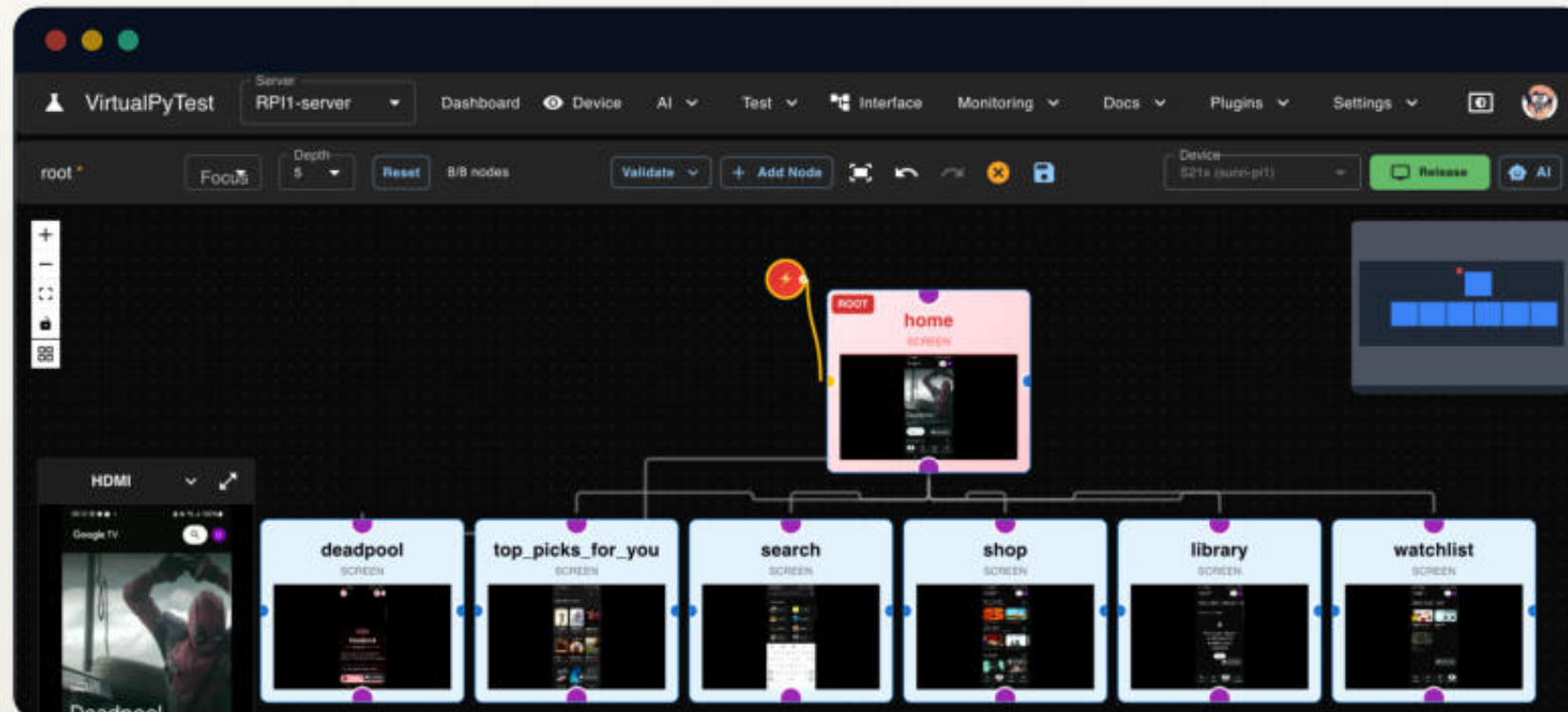
Monitor 24/7

Black screen, frozen video, audio loss — detected and alerted in real time.

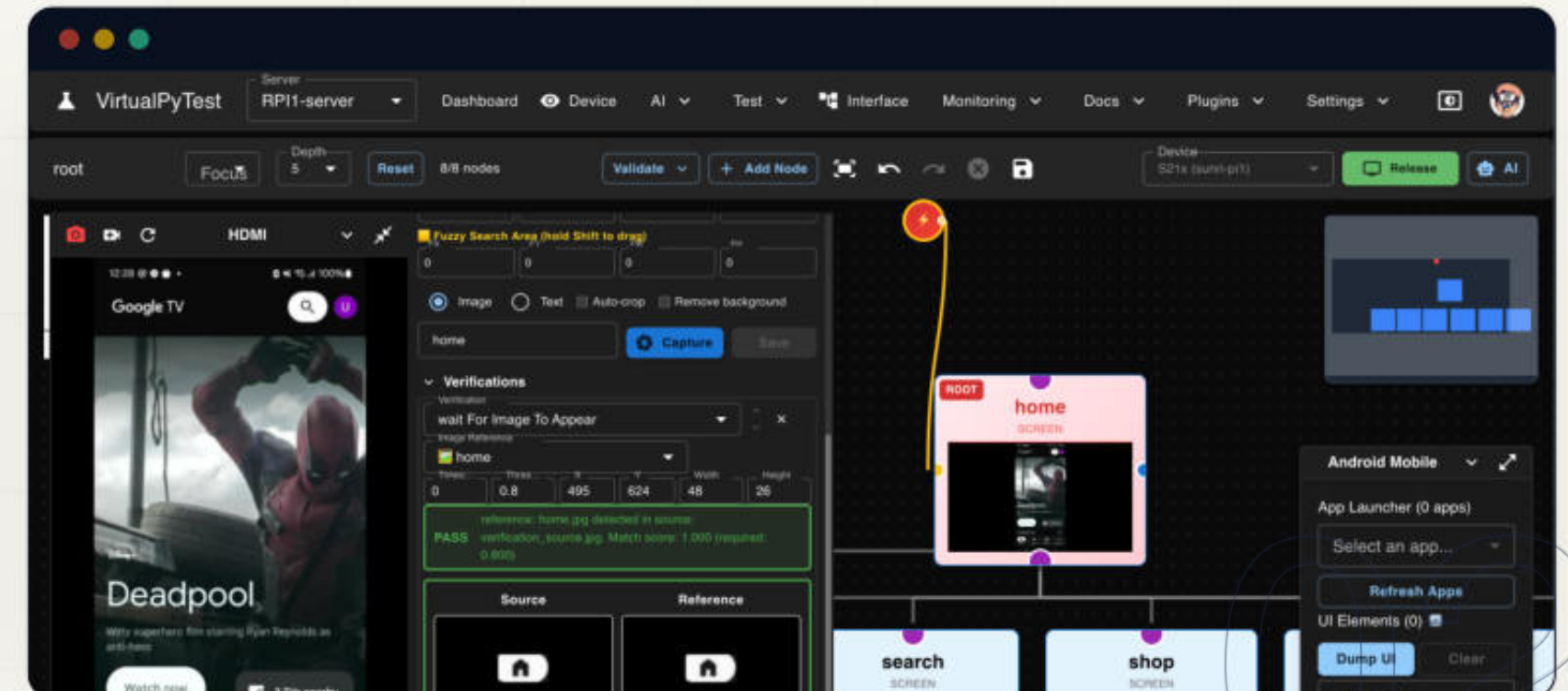
05 / PROVE

Measure

KPIs, trends and incident dashboards — quality you can show, not claim.



— THE APP, MAPPED: EVERY SCREEN & PATH BECOMES A REUSABLE TEST GRAPH



— VISUAL VERIFICATION: THE PLATFORM PROVES WHAT IS ACTUALLY ON SCREEN

Testing TV platforms today is **manual or captive**.

Humans holding remotes

Slow, expensive, can't run at 3 a.m., can't watch 100 devices at once.

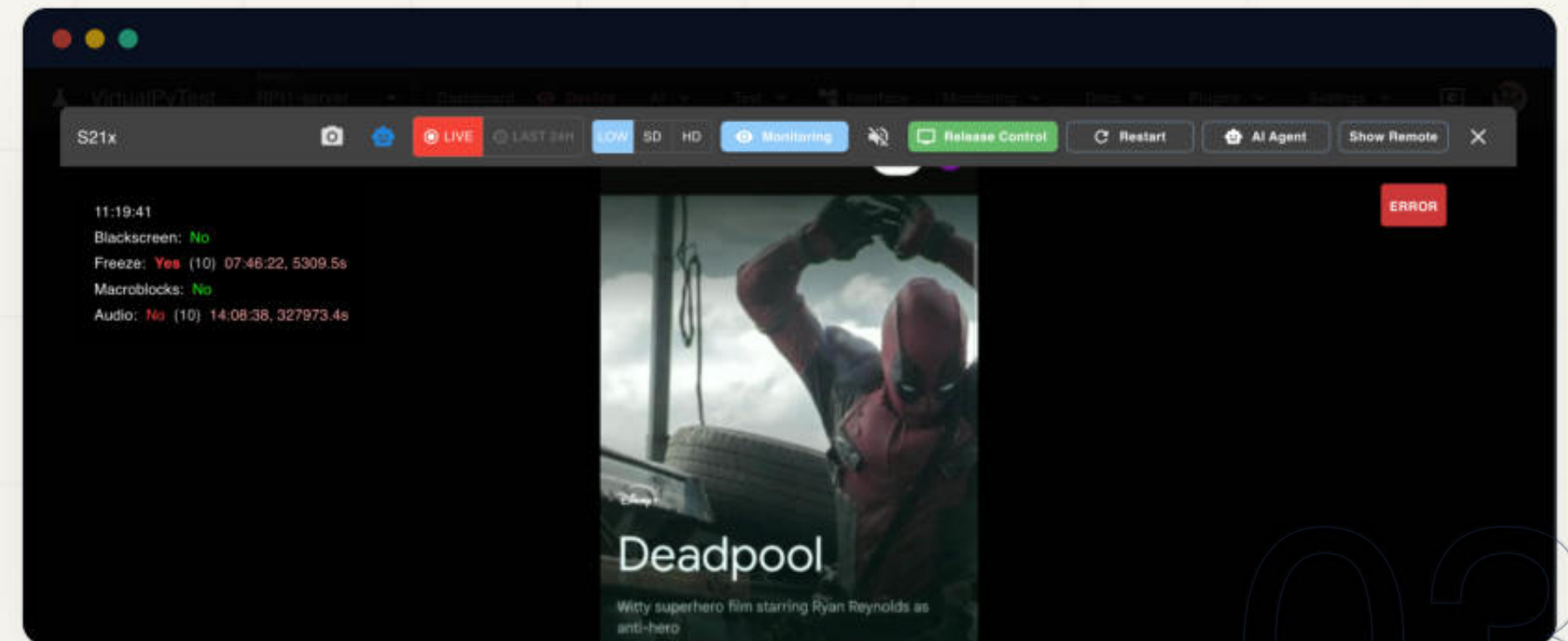
...or closed robot vendors

The robot looks affordable — then come **~€10k of software licenses per device**, maintenance that grows with the fleet and never flattens, and AI locked behind a cloud migration billed per device per month.

VirtualPyTest replaces both — **in weeks**.

- One €3k standard unit drives 4 devices + web tests simultaneously.
- Full loop covered: control → visual verification → 24/7 monitoring → alerts → KPI dashboards.
- Integrated into your lab in 4–8 weeks; your team owns everything, source code included.

THEIR COST CURVE — A SAWTOOTH, BY DESIGN



Telecom & TV platforms first — but anything with a screen works the same way: consoles, kiosks, cameras, car infotainment.

Four choices the incumbents **can't copy**.

01

Open source

The software is free, forever. You own the code, the tests, the data. Your team can take over at any time — zero vendor lock-in.

02

AI-native

AI agents see the screen and press the buttons. Tests are generated and maintained with AI — included, on-premise, never metered per device.

03

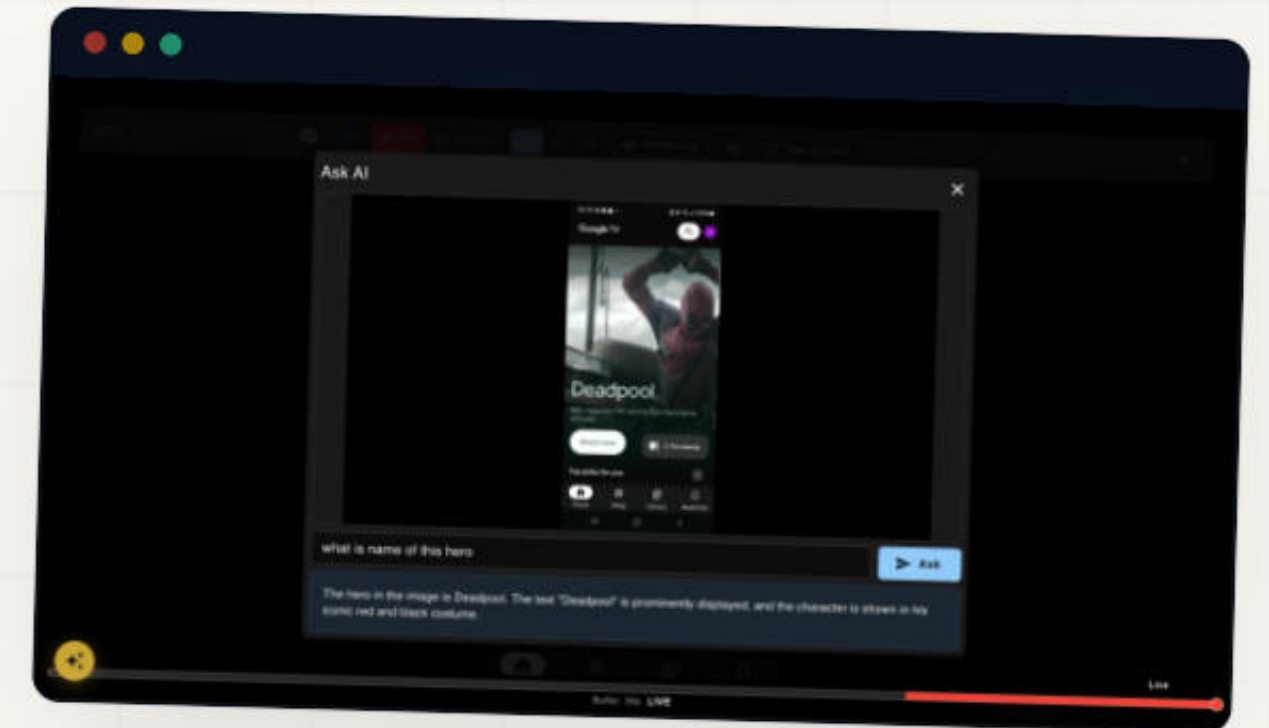
Standard hardware

A €3,000 pre-configured unit runs 4 HDMI devices plus web tests at once — ~€600–750 per test point, plug and play.

04

Flat fee, unlimited devices

One subscription per lab. Your 10th, 50th, 200th device — never a license fee. Coverage stops being rationed.



ASK THE AI WHAT'S ON SCREEN — IT ANSWERS, THEN
IT ACTS —

Everything they sell — **without the meter.**

	VIRTUALPYTEST	LEGACY ROBOT VENDORS
Source code	● Open source — owned by you	● Closed, proprietary
Per-device software licenses	● None — devices unlimited	● ~€10k per device (automation, video quality, UHD, remote, hub)
Hardware	● Standard €3k unit — 4 devices + web tests each	● Proprietary robot, ~€12k per device once equipped
AI features	● Included, on-premise	● Cloud migration required + ~€75 / device / month
24/7 monitoring & KPI dashboards	● Included (Grafana, alerts, incident tracking)	● Licensed add-ons, central server ~€70k + €9k/yr
Hardware end-of-life	● Commodity — replace at €3k, no licenses attached	● ~5-year forced re-purchase, licenses ride along
Exit cost	● Zero — it's yours either way	● Total lock-in: tests, data and tooling are captive

Legacy robot vendors — e.g. Witbe. Figures are rounded, illustrative industry estimates.

No-code for the team, **Python for the engineers** — they only offer the first.

	VIRTUALPYTEST	LEGACY ROBOT VENDORS
Test authoring	● No-code visual builder and full Python — every skill level contributes	● No-code only, in a proprietary format you can't export
Navigation system	● The app is mapped once as a navigation tree — tests stay tiny and reuse it across platforms	● Scripts inflate per platform and drift apart
Variant system	● One test serves every brand, locale and model — named variants override only the screens that differ	● Duplicate scripts per variant, maintained separately
Interface	● Fast web & mobile UI — nothing to install, open a browser	● Heavy desktop client to install and update per workstation
Architecture	● Decentralized — every unit is autonomous, deployable in the field	● One central orchestration server (~€70k) — single point of failure
Teams & permissions	● Workspaces, teams, fine-grained per-user permissions	● Flat user model
Requirements & coverage	● Test requirements tracked, coverage measured — plus tags to cluster tests, devices and results	● Lives in spreadsheets next to the tool
Operations	● Service restart & auto-fix from the dashboard — self-healing, no truck roll	● Open a vendor support ticket
Integrations	● Grafana, AI assistants, MCP server — AI agents drive devices natively	● Closed APIs, AI metered in the cloud

It doesn't just run tests — it **watches, measures and writes the report.**

DETECT

24/7 incident detection

Blackscreen, frozen video, audio loss — caught in real time on every device, with live monitoring views.

THEM — licensed add-on, per device

MEASURE

Automatic KPIs & zapping

Every step is timed automatically: zapping time, navigation KPIs, trends per platform and per software version.

THEM — separate VQ license, per device

UNDERSTAND

Reads any screen

Menu detection, text & image focus, subtitle detection with translation — reads a software version in any language.

THEM — basic OCR, language-bound

REWIND

Heatmap + 24h review buffer

A fleet-wide heatmap, and 24 hours of every device's screen to scrub back through when something happened at 3 a.m.

THEM — not offered

PROVE

Reports that defend themselves

KPI, zap and test reports generated automatically with a screenshot for every step — failures include the best-candidate frame from polling.

THEM — summary logs, screenshots manual

TRIAGE

AI cleans up after itself

AI analyzes incidents and failed tests and discards false alarms — your team only sees what actually matters.

THEM — every alarm lands on a human

BUSINESS BENCHMARK — 100 DEVICES UNDER TEST, 6 YEARS

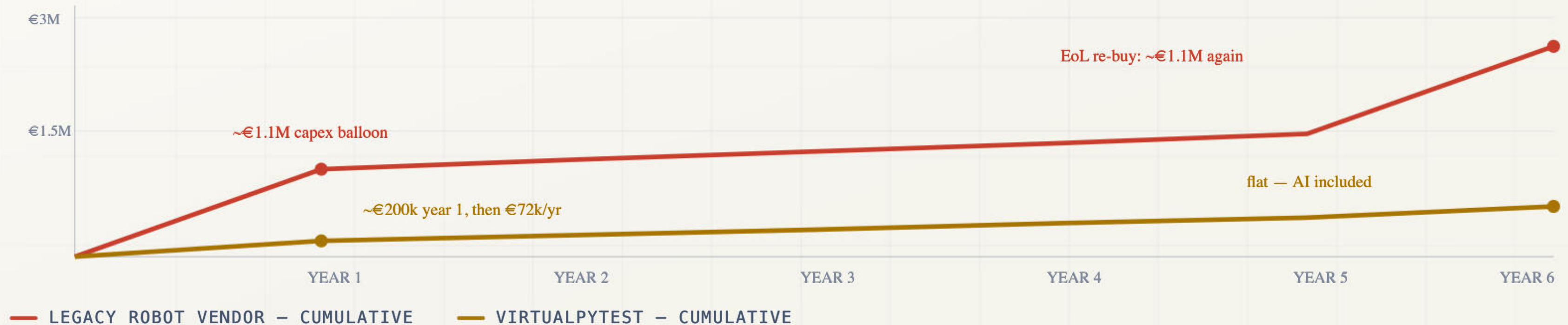
Same coverage. **A quarter of the cost.** No balloon payments.

6-YEAR TOTAL · 100 DEVICES

~~~€2.7M~~ vs **~€635k**

COST PER DEVICE UNDER TEST

~~~€27k~~ vs **~€6.4k**



THE WHOLE PRICE LIST

Software **€0** · Hardware **€3k/unit** (4 devices + web) · Integration **€50k** per lab · Subscription **€3–6k/month** per lab — **devices unlimited**

Illustrative industry estimates for a typical robot-vendor estate, rounded. The year before a hardware end-of-life cliff, switching pays for itself ~5x over.

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