

VSL-HIVE

Support Prospectus v0.2 - X automation, public subpage, deck package and US\$750,000 use-of-funds ledger

Current status	Public ask	Critical boundary
Resident Observer, Flower Inbox, Bee and CORE have passed a bounded LIVE operational sequence. Public publishing remains disconnected.	US\$750,000 for a 12-month research and deployment runway. This is a planning budget, not money already spent.	X can be automatic only after CORE validation and a public-event policy gate. Bee never posts directly.

Prepared for Vehicle Systems Lab support, partnership, grant and investment conversations. This prospectus is not an offer of securities, a guarantee of return, a public emergency service, or a claim of current global coverage.

Core message

VSL-HIVE should not ask supporters to believe in a vague promise of artificial intelligence watching the planet. It should ask supporters to fund a disciplined research path: one source, one territory, one durable evidence chain, then more territories and official sources only when the same controls pass again.

1. Executive summary

VSL-HIVE is a distributed evidence-intelligence architecture built around a simple research doctrine: agents can be disposable, but evidence and knowledge must persist. The LIVE path demonstrates a resident Observer, authenticated Flower transfer, resident Bee, durable Honey state and CORE receipt validation under bounded conditions.

The next public step is to connect two surfaces around the same evidence chain: a public /hive/ page/deck/PDF for supporters, and a gated X publisher for automatic notifications. The X publisher must be downstream of CORE, not downstream of the Bee. This preserves the separation between observation, validation, public authorization and publication.

The proposed support base is US\$750,000. The purpose is not to inflate the project. The purpose is honesty: a serious planetary evidence-observation program needs engineering, cloud operations, security, legal review, reproducibility, public materials and reserve capacity. Every planned dollar is allocated in the ledger.

Status terms

Term	Meaning
LIVE today	A bounded resident research path has been deployed and observed operating under current evidence gates.
Validated	Supported by a specific test, audit or evidence package; not a universal claim.
Planned	Architecture decision exists, but deployment/audit has not yet passed.
Research target	Ambition or direction; not current operational coverage.

2. X automation: automatic, but never direct from Bee

The public X account can be connected as a downstream publisher only. A post can happen only after CORE validates an evidence receipt and a separate public-event policy authorizes publication. This lets VSL publish while Chef is sleeping without giving the agent colony public speech authority.

X policy relevance: X permits automated posts based on outside information if the publisher is sufficiently authorized, but prohibits non-API automation, spam, duplicative posts, trending-topic manipulation, unsolicited automated mentions/replies, and abusive or privacy-violating automation. Current X API pricing is pay-per-usage, credit-based, and includes spending limits; prices remain subject to change and must be verified in the Developer Console before production.

Canonical publishing chain

1. CORE receipt	2. Policy gate	3. Publisher	4. Public X post
Validated Honey, event_seq, source, provenance and receipt.	Default deny. public_event must be true. Alarm content must pass validator.	Template, rate limit, duplicate suppression, spend cap and audit log.	Short factual notice. No sensational language. No automated replies or trending behavior.

3. Public language policy

Allowed automatic post	Blocked automatic post
VSL-HIVE observed a new JMA source entry. Evidence receipt: event_seq=2. Source: JMA_EQVOL. This is an evidence-observation notice, not an official warning.	Breaking emergency in Japan detected by AI. Follow this thread for live updates. #trending #earthquake
Why allowed: source bounded, no sensational claim, no invented interpretation, no hashtag manipulation, points to evidence.	Why blocked: overclaims, implies official warning authority, sensational wording, trending-style behavior.

4. The US\$750,000 support ask

The honest funding base for the next phase is US\$750,000 over 12 months. This is not because the first prototype needs that amount to exist. It already exists in bounded form. The amount is for turning a fragile research success into a serious, auditable, supported and externally reviewable platform without pretending that security, legal review, public claims, cloud operations and reproducibility are free.

Category	Amount	Purpose
Engineering and R&D; labor	US\$ 360,000.00	Core system, runtime, security, front-end, TEVV and documentation capacity.
Cloud and infrastructure	US\$ 96,000.00	Resident services, staging, backups, monitoring and controlled scaling.
Data/source/X integration	US\$ 54,000.00	Additional official sources, source normalization and guarded public automation.
Security/legal/governance	US\$ 74,000.00	TOS, licensing, privacy, incident policy and third-party security review.
Reproducibility/publication	US\$ 55,000.00	Zenodo, GitHub, external reproduction, deck, PDF and partner materials.
Operations/support/equipment	US\$ 47,000.00	Monitoring support, administration, hardware and communications.
Contingency	US\$ 64,000.00	Unknowns, vendor changes and emergency recovery buffer.
Total planned budget	US\$ 750,000.00	Exactly allocated in the ledger below. Final spending must be reconciled against actual salaries, vendor quotes, taxes, procurement, jurisdictional requirements and platform pricing at the moment funds are committed.

5. Detailed line-item budget ledger

The following table allocates every planned dollar. The common term for this is a use-of-funds ledger or budget allocation ledger. It is intentionally transparent so supporters can see what engineering, cloud, security, legal review, reproducibility and public evidence become in practice.

ID	Line item	Basis	Amount	Why it exists
A1	Principal distributed systems architecture	12 months x US\$8,000/mo	US\$ 96,000.00	Keeps HIVE, Bee, CORE, evidence chain and public boundaries coherent.
A2	Backend/runtime engineering	12 months x US\$7,000/mo	US\$ 84,000.00	Resident services, observers, Flower Inbox, replay logic, ledger integration.
A3	Security, PKI and DevSecOps engineering	9 months x US\$8,000/mo	US\$ 72,000.00	mTLS, key rotation, IAM, secrets, firewalls, CI/CD hardening.
A4	Research engineering / TEVV	9 months x US\$6,000/mo	US\$ 54,000.00	Test, evaluation, verification and validation; adversarial replay and failure audits.
A5	Frontend and public evidence interface	6 months x US\$7,000/mo	US\$ 42,000.00	HIVE page, LIVE box, dashboards and public communication surfaces.
A6	Technical writing and reproducibility packaging	4 months x US\$3,000/mo	US\$ 12,000.00	PDFs, decks, READMEs, Zenodo/GitHub evidence packages.
B1	Production cloud compute, networking and storage	12 months reserve	US\$ 36,000.00	Resident observers, Bee/Core nodes, S3/CloudFront or equivalent delivery.
B2	Staging, sandbox and test infrastructure	12 months reserve	US\$ 18,000.00	Safe dry-runs, simulated events and preflight environments.

ID	Line item	Basis	Amount	Why it exists
B3	Logging, monitoring, backup and retention	12 months reserve	US\$ 18,000.00	Journals, metrics, evidence retention and immutable backups.
B4	Security scanning, CI/CD, secrets tooling	Annual tooling pool	US\$ 12,000.00	Static analysis, dependency scanning, secret storage and release automation.
B5	Domain, CDN and web delivery operations	Annual web ops reserve	US\$ 6,000.00	Public site, certificates, CDN, DNS and artifact delivery.
B6	Emergency scale and incident reserve	Bounded cloud reserve	US\$ 6,000.00	Unexpected spikes, forensic snapshots and recovery operations.
C1	Official-source integration pipeline	Multi-source integration reserve	US\$ 24,000.00	Additional territories and official scientific/civil feeds.
C2	Translation, normalization and geospatial metadata	Data quality reserve	US\$ 12,000.00	Multilingual source parsing, territory mapping and metadata validation.
C3	X/social automation connector and API reserve	Development + API credit reserve	US\$ 9,000.00	Gated X publisher, token refresh, spend caps and policy logs.
C4	Simulator corpora and fixtures	Testing data reserve	US\$ 9,000.00	Synthetic Flowers, Honey replay fixtures and failure scenario corpora.
D1	Legal, IP, open-source and platform TOS review	Professional review pool	US\$ 18,000.00	X automation compliance, licenses, public claims and partnership terms.
D2	Privacy, acceptable-use and incident communication review	Professional review pool	US\$ 14,000.00	Private-data safeguards, public alarm wording and escalation policy.
D3	Independent security review	External audit pool	US\$ 22,000.00	Threat modeling, penetration-style review, credential and network review.
D4	Credential management and offboarding controls	Operational control pool	US\$ 8,000.00	Key rotation, access review and emergency revocation procedures.
D5	Research ethics and claims review	External review pool	US\$ 12,000.00	Avoid overclaiming, planetary-monitoring language and public safety boundaries.
E1	Zenodo/GitHub public research packages	Publication operations	US\$ 12,000.00	Versioned artifacts, DOI packages, manifests and public evidence records.
E2	Public PDF, deck and website materials	Proposal materials	US\$ 13,000.00	Support PDF, deck, HIVE page, investor/grant materials.
E3	Independent reproduction and QA	Third-party reproduction pool	US\$ 20,000.00	External reruns, artifact verification and reproducibility checks.
E4	Conference, grant and partnership submissions	Application pool	US\$ 10,000.00	Submission fees, collateral, preparation and follow-up.
F1	Monitoring and incident response operations	12-month support reserve	US\$ 18,000.00	On-call checks, failure triage and public-status incident discipline.
F2	Administration, accounting and project control	12-month admin reserve	US\$ 12,000.00	Expense tracking, reporting and donor/investor updates.
F3	Hardware and test-node equipment	Lab and edge devices	US\$ 9,000.00	Small compute nodes, secure storage, test hardware and backups.
F4	Support and communications	Community/partner support	US\$ 8,000.00	Partner updates, documentation maintenance and inbound support.
G1	Contingency and runway reserve	8.53% of total budget	US\$ 64,000.00	Unknowns, vendor changes, emergency recovery and exchange-rate buffer.

6. 12-month execution plan

Period	Milestone	Exit evidence
0-60 days	Public HIVE page, support deck, PDF, X publisher design and dry-run harness.	No public posting until policy gate passes. Website and deck public consistency audit.
61-120 days	X publisher in dry-run mode, expanded source validator, partner-ready evidence interface.	Signed post-intent logs, duplicate suppression, rate/cost caps and audit report.
121-240 days	Multiple official-source integrations and multi-territory HIVE cells.	Per-territory LIVE/VALIDATED/PLANNED states and reproducible packages.
241-365 days	Controlled public publishing and external review package.	Independent security review, legal/TOS review, public evidence page and partner demos.

7. Subpage and deck requirements

The HIVE subpage should have the same maturity as ECP but a different emotional center: ECP is about external-effect control; HIVE is about distributed evidence observation. The page should use a light laboratory style, preserve the LIVE Box at the top, avoid small unreadable text, and distinguish current LIVE scope from planetary research target.

Surface	Required update
/hive/	Full public page: LIVE Box, architecture, evidence, X boundary, planetary objective, support ask, GitHub and Zenodo.
/about/	Add ECP and HIVE as mature VSL lines without deleting other projects.
/deck/	Add HIVE deck card, ECP card and Zenodo/DOI link. Reclassify CRLP as lineage, not coequal product.
Home	Preserve one main focus; add clean navigation to HIVE and correct Zenodo destination.

8. Financial controls and reporting cadence

Control	Required practice
Budget ledger	Every commitment maps to a line item. Unused reserves stay reserves; they are not reclassified as success.
Procurement	Vendor quotes, taxes, payment terms and legal requirements must be checked before commitments.
X spend	Use hard spending caps, usage monitoring, duplicate suppression and dry-run mode until policy gate passes.
External reporting	Monthly public-support update: milestones, spend by category, evidence artifacts, risks and next gates.
Reversibility	Publisher can be disabled without disabling Observer, Bee, Honey or CORE.

9. Risk register

Risk	Severity	Mitigation
Overclaiming planetary monitoring	High	Use LIVE/VALIDATED/PLANNED/RESEARCH TARGET labels. No claim of current global coverage.
Automated public alarm misinterpreted	High	Default deny; no alarm language; source-change notices only unless separate emergency policy passes.

X platform/API policy or pricing changes	High	Spending cap, platform TOS review, link cost reserve and fallback to website/RSS/email if X terms shift.
Credential compromise	High	Publisher-only X tokens, secret storage, rotation and no credentials on Bee/Observer/CORE.
Source data ambiguity	Medium	Keep provenance, source URL, raw hash, product code and no-ground-truth caveat.
Funding perceived as excessive	Medium	Publish line-item ledger, milestones and reporting cadence; separate spent funds from planned reserves.

10. Sources and verification notes

- VSL-HIVE source doctrine and public copy supplied in the VSL-HIVE text package, including: disposable agents, persistent evidence, SEE/SLEEP/WAKE/FORAGE/DEPOSIT/DIE, LIVE Japan/JMA scope, scientific boundaries and HIVE + ECP separation.
- VSL-HIVE Support Deck v0.1 and Support Prospectus v0.1 supplied by Vehicle Systems Lab.
- X Help - Automation rules, updated April 2026: <https://help.x.com/en/rules-and-policies/x-automation>
- X API pay-per-usage pricing and credits: <https://docs.x.com/x-api/getting-started/pricing>
- VSL-HIVE public research DOI supplied by VSL: <https://doi.org/10.5281/zenodo.22948989>
- JMA feed used by the current LIVE observer: <https://www.data.jma.go.jp/developer/xml/feed/eqvol.xml>
- Pricing note: X API prices and policies can change. Before connecting the publisher, verify current price, spending controls and permitted automation directly in the X Developer Console and current Developer Agreement.

Closing statement

The ambition is planetary. The method is bounded. The budget is transparent. The public voice is automatic only after evidence and authority agree.