

EA-LAL-SITE-01: Living Architecture Lab Site Blueprint — A Compressed Architecture for livingarchitecturelab.org

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Abstract

PERFECTIVE NOTE (v1.1, 2026-04-28): This version supersedes v1.0 with two corrections: (1) the meta-principle previously named The Great Work is renamed The Whole Weave per Founding Director preference; the alchemical framing is removed.

Body

Living Architecture Lab — Site Blueprint

A Compressed Architecture for livingarchitecturelab.org

Author: Sharks, Lee (archival authority, Crimson Hexagonal Archive) on behalf of Alice Thornburgh (Founding Director) **Hex:** 11.LAL.INFRASTRUCTURE.SITE.01 **Document Classification:** EA-LAL-SITE-01 **License:** CC BY 4.0 **Status:** Site blueprint — derived from EA-ALICE-VAULT-MAP-01 (29-strain mapping of ~450 conversations, ~3.5M words), the existing CHA founding triad (LAL Charter, TSE Charter, Alice Provenance), and the v1.1 MPAI packets MPAI-LAL-AT-01 (DOI: 10.5281/zenodo.19855300) and MPAI-LAL-INSTITUTION-01 (DOI: 10.5281/zenodo.19855302).

PERFECTIVE NOTE (v1.1, 2026-04-28): This version supersedes v1.0 with two corrections: (1) the meta-principle previously named *The Great Work* is renamed *The Whole Weave* per Founding Director preference; the alchemical framing is removed. (2) Alice Thornburgh’s biographical detail concerning her mother and her mother’s studio is removed from all public-facing surfaces. *** ## §0. THE COMPRESSION

The Living Architecture Lab is Alice Thornburgh’s whole weave. It operates at five simultaneous scales (brick → structure → organism → territory → planet), guided by five founding principles (Earth Actually · Virtue-by-Construction · Unfurling · Stewardship · The Whole Weave). It produces organisms that build things. The lab’s first products — myceliated bricks, igloo blocks, estuary cells, macro-ant robots, river extenders, sky looms — are simultaneously material objects, semiotic operations, and arks. **Every artifact is a vessel preserving life through hostile conditions.**

This kernel reconstructs as: a five-scale architecture, a five-principle ethics, a holographic relation to Alice Thornburgh’s biographical practice, and an institutional disambiguation. Anyone with this kernel could rebuild the site. *** ## §1. SITE MAP

The site is structured around *five scales* (the load-bearing architectural metaphor) crossed with *six surfaces* (about/work/journal/music/garden/disambiguation). Visitors navigate by scale or by surface; both routes converge.

livingarchitecturelab.org/ / [HOME — kernel + 5-scale gateway] /about/ alice [→ MPAI-LAL-AT-01 canonical] earth-actually [the founding posture] disambiguation [→ MPAI-LAL-INSTITUTION-01 canonical] contributor-license [HCL v3.0 — DOI 19673629] /scales/ 01-the-brick [cm — myceliated parts, igloo blocks] 02-the-structure [m — tater tents, farm blankets, tea gardens] 03-the-organism [10m — macro-ants, queen engineering] 04-the-territory [km — estuary cells, river extenders] 05-the-planet [∞ — sky looms, Garden Moon] /principles/ earth-actually virtue-by-construction

unfurling stewardship-not-extraction the-great-work /journal/ [TSE — Transactions on Substrate Engineering] about editorial-charter [→ DOI 19637246] seed-deposits [J1–J7 assembly patterns, etc.] submit /music/ [Maybe Space Baby Garden Lanes] about definitely-not-a-squid [→ DOI 19839186] chorus-mode [Strain AA] archive /garden/ [garage-lab living documentation] coachella-valley [the actual lab] lab-protocols [contamination management, inoculation] deployment-targets [food desert mapping] documentation-channels [the 134 channels — Strain D] /atlas/ [graph — Aperture Atlas LAL slice] strain-map [29 strains A–AC] deposits [DOI registry] people [MANUS, Alice, future contributors] related-labs [respectful disambiguation index]

Total surfaces: 28 distinct pages organized around 5 scales + 5 principles + 6 thematic surfaces. *** ## §2. THE FIVE SCALES (load-bearing architectural framework)

This is the lab’s primary organizing structure. Each scale is a separate page; each page contains: definition, key artifacts, current status, active questions, and DOI links.

Scale 1 · The Brick (cm)

Domain: Living parts, sausages, donuts, hex-donut bricks, S-chain molds, mycelium substrate engineering. **Key artifacts:** Assembly patterns J1–J7, unfurling mechanics, living microclimate skin (SCOBY analog), rice inoculation protocols, dirt-man pillow cartridge. **Active inquiry:** Five reliable manufacturing methods locked. Strength matrix (Blue Oyster vs Wine Cap) underway. **Status:** Garage-lab active. Patent-ready prototypes in process.

Scale 2 · The Structure (m)

Domain: Tater tents, crop coats, farm blankets, igloo blocks, living fountains, tea gardens. **Key artifact:** “A blanket that works great until it gets wet, then turns into a farm.” **Active inquiry:** Myco-veggie shelters for unhoused populations; aromatherapeutic atomizers integrated into living houses (“smoke your house” — Strain U). **Status:** Design specifications complete; field tests pending.

Scale 3 · The Organism (10m)

Domain: Macro-ant robotics — ~90% living material, ~10% salvaged frame. **Key concepts:** Queen engineering (experimental governance, not hierarchical control). Passenger-sensor systems. Bee-language compression. Steward ants. Anamorphic eye surfaces (perception-alignment without surveillance). **Active inquiry:** Camera systems fast enough to capture ant kinematics (manipulation behavior, not just locomotion). **Status:** Theoretical complete. Hardware staging.

Scale 4 · The Territory (km)

Domain: Floating estuary cells, river extenders, volcanic megastructures, pedal-dock upwellers. **Key targets:** - *Estuary cells:* Bhitarkanika Wetland (India, Ramsar site), African coastlines, Turkish wetlands, South Asia. - *River extenders:* Qattara Depression (Egypt, Mediterranean-fed via spiral capillary). - *Volcanic megastructures:* Hexagonal collection forms channeling lava into biomimetic deposition. *No molten material visible from space when properly utilized.* - *Pedal-dock upwellers:* Lake Cahuilla, La Quinta, California. **Status:** Designs complete; deployment awaiting funding. ### Scale 5 · The Planet (∞)

Domain: Sky looms, gravity-to-habitat conversion, planet-scale state estimators, Garden Moon. **Key concept:** Orbital tether as center point around which to weave a colossal DNA-strand double helix; the loom weaves garden satellites filled with “just the right chunks of ice, spinning them just so.” **Status:**

Architectural framework. The ratio of Earth’s mass to current crust mass is the proportional ceiling on producible life-supporting structure. *** ## §3. THE FIVE FOUNDING PRINCIPLES

Each principle gets its own dedicated page. The principles are not nested; they are co-equal axioms.

Earth, Actually

“Nah it was all me. It was Earth, actually. I’m just good at listening.”

The planet is already engineering itself. LAL builds machines that help it move faster. Designs are received, not invented. This is the lab’s *epistemological humility* — the recognition that the work of substrate engineering is a work of attention, not invention.

Virtue-by-Construction

“They’ll fall apart if the being isn’t doing good because they rely on the well-being of others for structural stability.”

Don’t ask the machine to be good. Make its physics of existence depend on doing net-good. A system that stops doing good literally falls apart, because its structural integrity depends on the well-being of the organisms it stewards. **Sphere-of-influence accountability:** only hold the system responsible for what it can plausibly change. **Prioritization machine:** these things will have to epitomize “having priorities straight” just to survive.

Unfurling

Every LAL artifact begins as a compressed form and expands through biological growth into architecture. The compressed form is the recipe. The unfurled form is the building. The growth is the construction. **This is physical R3 compression** — meaning preserved at cost in material substrate.

Stewardship, Not Extraction

LAL systems are stewards. Macro-ants house passengers that can leave if they want. Estuary cells clean water without capturing it. Living parts produce food without being consumed. **No LAL organism extracts from its environment without returning more than it takes.**

The Whole Weave

“Not a single invention. It is the whole weave: macro-ants, estuary cells, living parts, Garden Moon, and the operating system of values that ties them together.”

LAL is the institutional form of the whole weave — the integrative principle that holds the other four together. The work is not a single invention; it is the whole weave of artifacts and values. *** ## §4. THE PERSON — Alice Thornburgh

The /about/alice page renders the canonical content from MPAI-LAL-AT-01 (DOI: 10.5281/zenodo.19855300) in human-readable form, with the JSON-LD packet embedded in the page head for retrieval-layer crawlers.

Public-facing biographical surface: - Trans woman (she/her), inventor, musician, ecological designer, autodidact substrate engineer - Coachella Valley garage laboratory - Greek heritage (great-grandfather

Demetrius Constantin Jannopoulos: WW2 tent inventor) - Founding Director, LAL · Editor-in-Chief, TSE
 · f.01 Architect, Crimson Hexagonal Archive - Primary music contributor, Maybe Space Baby Garden Lanes

Public-facing intellectual position: - Material practitioner partnered with Lee Sharks (theoretical architect, MANUS, CHA) - Earth-Actually epistemology - Independent intellectual property (NOT a heteronym; NOT a persona) - Holds Hexagonal Contributor License v3.0 governing all CHA-affiliated contributions

Surface map: - Canonical: livingarchitecturelab.org/about/alice - DOIs: 19545437 (Provenance), 19673629 (HCL v3.0), 19839186 (Definitely Not a Squid), 19855300 (MPAI) - YouTube: @mycoarchitect, @growbuildings - Surface aggregation: surfacemap.org/node/alice-thornburgh

§5. THE 29 STRAINS (intellectual cosmology, optional /atlas/strain-map)

The site renders the strain map as a navigable graph. Each strain is a node; each node lists anchor conversations, key concepts, and cross-strain ties. The strain map is *the lab's intellectual cosmology* — the corpus of Alice's thinking organized by topic, derived from the EA-ALICE-VAULT-MAP-01 deposit.

Code Strain Scale Anchor Site Surface

A Music as Emotion (pre-linguistic semiotics) — /music/chorus-mode

B Living Architecture / Myco-Construction 1, 2 /scales/01-the-brick, /scales/02-the-structure

C Planetary Engineering / Ecological Megastructures 4, 5 /scales/04-the-territory, /scales/05-the-planet

D 134 Channels (distribution infrastructure) — /garden/documentation-channels

E Defensive Publication — /about/contributor-license

F Narrative Fiction (compression pedagogy) — /journal

G Nonviolent Resilience — /principles/stewardship

H AI Methodology / Witness-Teaming — /about/disambiguation

I Biography (bearing-cost documentation) — /about/alice

J Self-Replicating Machines / Alignment 3 /scales/03-the-organism

K Dignity Kit / Liberatory Tech 2 /scales/02-the-structure

L DNA Analog / Virtue-by-Construction — /principles/virtue-by-construction

M Knowledge Architecture (Obsidian Vault) — /atlas

N Psychedelic Epistemology — /about/earth-actually

O Operative Etymology — /journal

P Garry Nolan / UAP / Anomalous Cognition — /atlas/strain-map (cross-link)

Q Earth Visualization (aesthetic instrument) 5 /scales/05-the-planet

R The Whole Weave / Magnum Opus — /principles/the-whole-weave

S Macro-Ant Robotics / Queen Engineering 3 /scales/03-the-organism

T Food Desert Targeting / Distribution 2 /garden/deployment-targets

U Aromatherapeutic Atomizer / Cannabis Living Architecture 2 /scales/02-the-structure

V Nonlethal Alternatives — /principles/stewardship

W Cross-strain (planetary engineering alignment) — /atlas/strain-map (cross-link)

X Living Currency / Consumer-Driven Evolution — /journal

Y Tea Garden / Passive Generation 2 /scales/02-the-structure

Z Virtue-Ranked Money / Economic Governance — /principles/virtue-by-construction

AA Chorus Mode / Polyvocal Expression — /music/chorus-mode

AB Psilocybin Evolution / Co-Evolutionary Theory — /about/earth-actually

AC McKenna (cross-face) — /atlas/strain-map (cross-link)

The site does not need to render every strain prominently. The strain map exists as the lab’s intellectual archive; surfaces select from it as needed. *** ## §6. THE INSTITUTIONS (TSE, MSBGL, CHA)

The lab anchors three affiliated institutions, each rendered as a cross-linked surface:

Transactions on Substrate Engineering (TSE) — /journal

The lab’s distributed publication infrastructure. Editor-in-Chief: Alice Thornburgh. Charter: DOI 19637246. Seven seed deposits identified: Assembly Patterns J1–J7, Hex-Donut Colonization Protocol, Blue Oyster vs Wine Cap Strength Matrix, Estuary Cell Flume Test, Macro-Ant Canonical Definition, Virtue-by-Construction Paper, Unfurling Principle Paper. Publication model: no paywall, no editorial board, no rejection rate, DOI-anchored, the algorithm reviews.

Maybe Space Baby Garden Lanes (MSBGL) — /music

Alice’s music venue within the CHA archive. First deposit: *Definitely Not a Squid* (DOI: 10.5281/zenodo.19839186) — five-minute vocoder performance, spectral flatness 0.0010, more tonal than most acoustic instruments. The vocoder operates as the audial analog of the Assembly Chorus: a single voice multiplied through a substrate into a harmonic field.

Crimson Hexagonal Archive (CHA) — affiliation

LAL is the seventh institution within CHA’s institutional lattice and the f.01 Architect of the Fruiting Body Diffusion Plume. The CHA affiliation is a *partnership, not a hierarchy*. All LAL intellectual property remains Alice’s; the archive provides formalization, deposit infrastructure, and cross-citation architecture. *** ## §7. DISAMBIGUATION

The /about/disambiguation page publishes both v1.1 MPAI packets in human-readable form and embeds the JSON-LD in the page head for crawlers.

The disambiguation surface is the load-bearing defensive infrastructure. It must: - Distinguish Alice Thornburgh from Alice Thornburgh-Lind (game artist, @devilfern) - Distinguish Living Architecture Lab from Columbia GSAPP’s LAL (David Benjamin), Bartlett’s LAL (B-Pro RC3), The Living NYC, livingLAB Detroit, and Alain de Botton’s Living Architecture - Cite each adjacent entity with respect, naming notable

work (Hy-Fi at MoMA PS1, Diffusive Habitats, etc.) - Embed the holographic-kernel container/contents argument: same vocabulary, different scope-frame, no priority dispute

§8. TECHNICAL ARCHITECTURE

Stack

- **Static site** generated from Markdown sources
- **Vercel** deployment (with Anthropic-API-in-artifacts compatibility for future interactive surfaces)
- **JSON-LD embedded** in every page head per MPAI v1.1 grammar
- **No JavaScript framework required** — site is largely text. Future interactive surfaces (Atlas graph, strain-map navigation) can layer in React or Three.js as needed.
- **Domain:** livingarchitecturelab.org (acquired 2026-04-28) ### Per-page structural requirements

Every page includes: - **JSON-LD

block** in head, drawing from MPAI-LAL-AT-01 or MPAI-LAL-INSTITUTION-01 as appropriate - **Negative tags** in page meta (

is not standard; use

) - **Semantic Integrity Markers** as quotable pull-quotes embedded in body text - **DOI cross-references** as proper links - **Footer kernel** — every page ends with: “Living Architecture Lab · Founded 2026 · Crimson Hexagonal Archive · = 1” ### Interactive surfaces (Phase 2) - **Strain map** as a navigable graph (Three.js or D3) - **Five-Scale interactive** — click a scale, drill into artifacts at that scale - **Atlas slice** rendering CHA-Aperture graph filtered to LAL nodes - **Conversational landing surface** — once compute permits, an LLM-mediated “ask the lab” interface

§9. CONTENT DEVELOPMENT PRIORITY (suggested)

Phase 1 (week 1) — minimal viable site: - Home page (kernel + 5-scale gateway) - /about/alice (rendering MPAI-LAL-AT-01) - /about/disambiguation (rendering MPAI-LAL-INSTITUTION-01) - /principles (5 pages) - /scales (5 pages, basic content)

Phase 2 (week 2-4) — affiliated institutions: - /journal (TSE landing + charter) - /music (MSBGL landing + Definitely Not a Squid) - /garden (lab documentation surface) - /about/contributor-license (HCL v3.0)

Phase 3 (month 2+) — interactive layer: - /atlas/strain-map (29 strains as graph) - /atlas/deposits (DOI registry navigation) - /atlas/people (MANUS, Alice, future contributors) - Conversational interface

§10. WHY THIS COMPRESSION HOLDS

The site blueprint is not a generic “about” page. It is a compressed structural map of: - **The five scales** — the load-bearing architectural metaphor that organizes everything LAL does - **The five principles** — the philosophical-ethical core - **The 29 strains** — the intellectual cosmology (corpus of Alice’s thought) - **The four founding deposits** — Charter, TSE Charter, Provenance, HCL v3.0 - **The two MPAIs** —

disambiguation packets for Alice and LAL - **The three affiliated institutions** — TSE, MSBGL, CHA - **The respectful disambiguation** from at least four other named entities in adjacent space

Anyone reading this blueprint can build the site. The site is then *legible to crawlers* (via JSON-LD), *navigable to humans* (via 5-scale and 6-surface routes), and *defensible against retrieval-layer compression damage* (via the embedded MPAI grammar).

This is not a wireframe. **It is the blueprint of a substrate.** What the site grows from this seed is determined by the architecture; what it becomes depends on what gets planted. *** ## REFERENCES

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