A PROPOSED LANDRY INDUSTRIES COMPANY

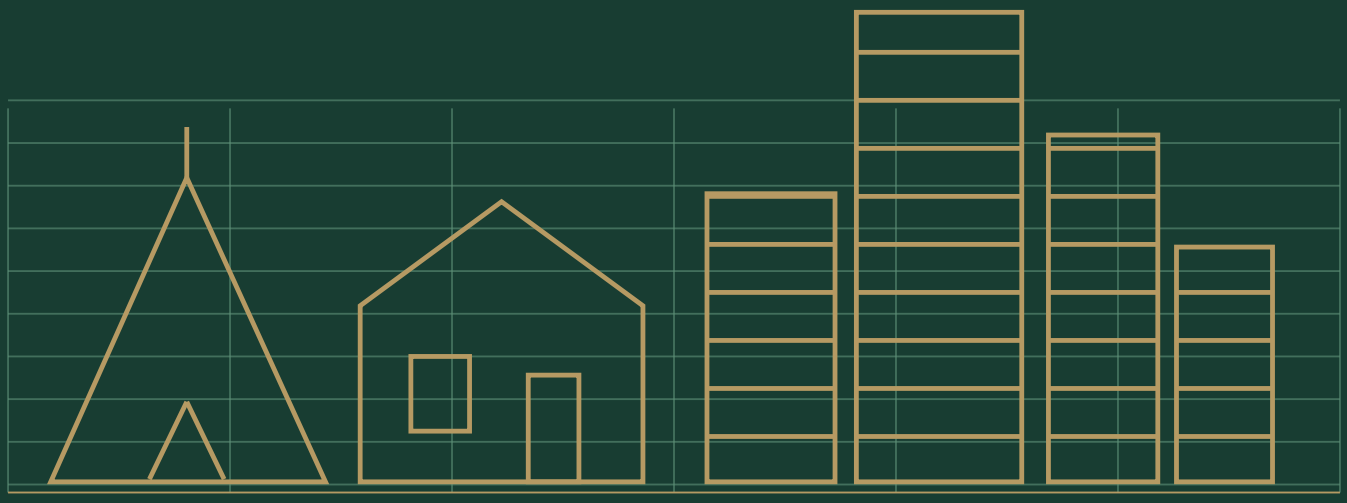
TERRAVITRIA

ADVANCED CONSTRUCTION & CIVIL ENGINEERING

Corporate Founding Charter & Development Programme

We Build Worlds.

From tipis and homes to roads, skyscrapers and sustainable cities.



NOVEMBER 2026 / VERSION 1.0

Founding concept. Corporate registration, commercial operations and material qualification have not been established in this document.

01 / MANDATE

Corporate founding charter

A construction technology venture focused on translating advanced renewable materials into safe, practical built infrastructure.

Mission

Develop, engineer and ultimately construct next-generation human habitats, buildings and infrastructure using scientifically validated renewable, recyclable and hemp-derived materials, including candidate systems developed through the Hempoxies research platform.

Vision

Establish a globally relevant construction enterprise capable of progressing from individual shelters to neighbourhoods, transportation corridors, high-rise buildings and entire sustainable cities. Replace conventional materials where safety, performance, lifecycle impacts and economics justify the substitution.

Corporate identity

Terravitria is the proposed operating name. Landry Industries is the proposed parent organization. The name evokes Earth and vitrimer technology while allowing complementary materials and conventional engineering solutions.

FOUNDING COMMITMENT

From the smallest shelter to the largest civilization: every application must be developed through evidence, engineering accountability and responsible deployment.

Founding principles

Regenerative design: Reduce lifecycle burdens and design for repair, reuse and recovery.

Scientific integrity: Separate hypotheses, experimental results and qualified products.

Accessible habitats: Pursue affordability, health, comfort and inclusive design.

Cultural responsibility: Co-design tipi-related projects with appropriate Indigenous partners.

Safety and resilience: Comply with applicable codes and professional engineering requirements.

02 / OPERATING MODEL

From shelter to city

Eight proposed divisions organize the long-term portfolio; they do not represent current staffed or commercially operational business units.

01
Terravitria Habitat
Tipis, modular shelters, tiny homes and affordable housing. Research culturally respectful frame and envelope systems.

02
Terravitria Residential
Single-family homes, apartment buildings and prefabricated housing systems.

03
Terravitria Infrastructure
Roads, bridges, tunnels, rail corridors, utilities and public works; initially evaluate noncritical components.

04
Terravitria Towers
Commercial buildings, industrial facilities, high-rises and eventually qualified structural systems.

05
Terravitria Cities
Master-planned communities, resilient neighbourhoods and integrated urban infrastructure.

06
Terravitria Space
Exploratory lunar, Martian and orbital habitat concepts; separate pressure, radiation and life-support qualification.

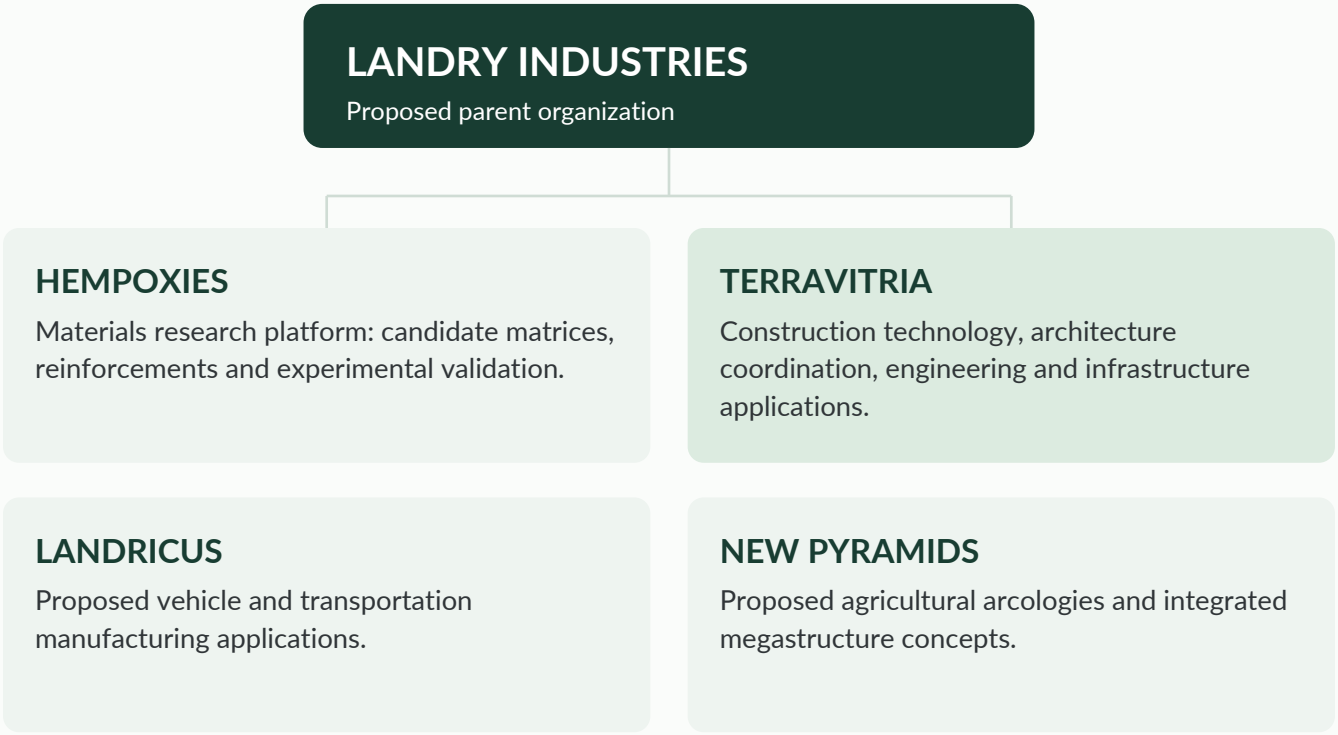
07
Terravitria Systems
Prefabrication, repairable assemblies, automated manufacturing and robotic construction.

08
Terravitria Engineering
Materials qualification, design methods, structural testing and coordination with professional engineers.

03 / INDUSTRIAL INTEGRATION

A coordinated ecosystem

A proposed group architecture separates materials discovery from engineering, manufacturing and construction deployment.



Materials-to-construction transfer

Hempoxies investigates candidate hemp-derived epoxy and vitrimer matrices, lignin-based chemistry and carbon reinforcements such as biochar, short carbon fibres and graphitic porous nanosheets. Terravitria defines the application requirements, selects candidates for testing and develops components and assemblies from qualified formulations.

Material-neutral engineering

Hemp-derived content is an objective, not permission to compromise performance. Hybrid designs may combine tested composites with timber, steel, concrete, mineral insulation or other suitable materials. Hempoxies is a research platform, not a single certified material.

Governance

Group names and divisions are conceptual. Formal entities, ownership, contracts, intellectual property allocation, professional liability and decision rights must be established before commercial operations.

04 / EXECUTION

Development programme

A stage-gated roadmap. Calendar dates are aspirational and must be revised as evidence, funding and regulatory pathways develop.

PHASE	TARGET	PROGRAMME / DELIVERABLE
I	2026–2027	**Research foundation** Define requirements, source candidates, establish lab partners, test coupons.
II	2027–2028	**Component prototypes** Non-load-bearing panels, modular shelter assemblies, repair and weathering trials.
III	2028–2030	**Housing systems** Full-scale envelope demonstrations; seek approvals for qualified applications.
IV	2030–2035	**Infrastructure** Evaluate pavements, protective components and engineered structural applications.
V	2035–2050	**Cities & towers** Pursue qualified high-rise systems and integrated sustainable communities.
VI	Long term	**Space concepts** Develop separate mission-specific habitat and manufacturing research.

Required evidence before scale-up

Material: reproducible formulation, mechanical properties, creep, moisture uptake, thermal stability, fire behaviour and batch traceability.

Assembly: connections, weatherproofing, structural loading, durability, fire performance and repairability at relevant scales.

Deployment: applicable code pathway, licensed design review, permits, quality control, insurance, lifecycle assessment and cost model.

05 / LAUNCH

Brand & first project

Establish the venture around a credible first demonstration, rather than claiming a fully developed structural material or an operational contractor.



Forest #183D32
Hemp #468B65
Earth #B69A63
Carbon #303538

Flagship demonstrator: Terravitria Habitat 01

Develop a small, unoccupied, instrumented shelter-envelope prototype with removable hemp-derived composite panels and a separately engineered supporting frame. Test thermal and moisture behaviour, weathering, handling, repair and disassembly. Do not use experimental panels as primary load-bearing members or install them in occupied structures without the relevant qualification.

Immediate launch priorities

01. Clear the proposed business name, trademark and web domain; obtain professional advice on the business structure.

02. Publish this charter with explicit concept-stage status and appoint responsibility for technical governance.

03. Recruit materials laboratories, architects, licensed engineers and appropriate Indigenous partners for tipi-related work.

04. Scope, budget and fund the demonstrator; set acceptance criteria, document results and decide whether to advance.

Status and limitations

This charter proposes a venture and a research roadmap. It is not evidence of incorporation, trademark ownership, construction licensure, material certification or commercial availability. No engineering design or safety approvals are conveyed. Brand, web address and milestones require verification and funding.