

GLOBAL DEPLOYMENT // 2026

ENGINEERING LIFE.

We provide the biological infrastructure to turn any landscape—
from arid deserts to smart cities—into a thriving ecosystem.



GLOBAL INFRASTRUCTURE // FULL CAPACITY

SECTION 01



A GLOBAL DEFICIT.

The world is losing its biological foundation. Water alone cannot solve this; we need to rebuild the earth's capacity to sustain life.



24 BN

TONS OF SOIL LOST ANNUALLY



52%

AGRICULTURAL LAND DEGRADED

☀ OUR SOLUTION

ADAPTING TO ANY CLIMATE.

We don't fight nature; we engineer it. Full Capacity provides the complete "Bio-Infrastructure" ecosystem: specialized hardware to deliver water, and biological engines to restore the earth.



 FOOD SECURITY

HYDRA 1.0: THE VERTICAL GRID.

Designed for high-density food production in greenhouses. This rigid vertical system acts as both the irrigation line and the physical support structure.

-  **Structural Support:** Replaces trellising
-  **Targeted Drip:** Zero surface evaporation
-  **High Density:** +40% crop yield per m²

ONE PIPE. TWO PLANTS.

Our "Double Row" configuration maximizes infrastructure. A single vertical pipe sits between two plants, providing irrigation, nutrition, and physical support for both.

-  **Tomato Spacing:** 40cm between pipes
-  **Scalable Height:** 1m or 2m Modules
-  **Dual Fuel:** Solid Pellets + Liquid Fert.





URBAN & DESERT

HYDRA 2.0: THE NETWORK.

Invisible infrastructure for the outdoors. Flexible subsurface lines deliver life to parks, streetscapes, and open desert reforestation.



Deep Root Injection: Bypasses the sun



Flexible Layout: Adapts to any terrain



Flood Safe: Venturi protected above ground

MODULAR PRECISION.

Four key modules working in unison to deliver water, air, and nutrition exactly where the plant lives.



01. Dist. Cap:

Connects to Ø20mm pipe



02. Vert. Body:

Holds Vermi-Pellets



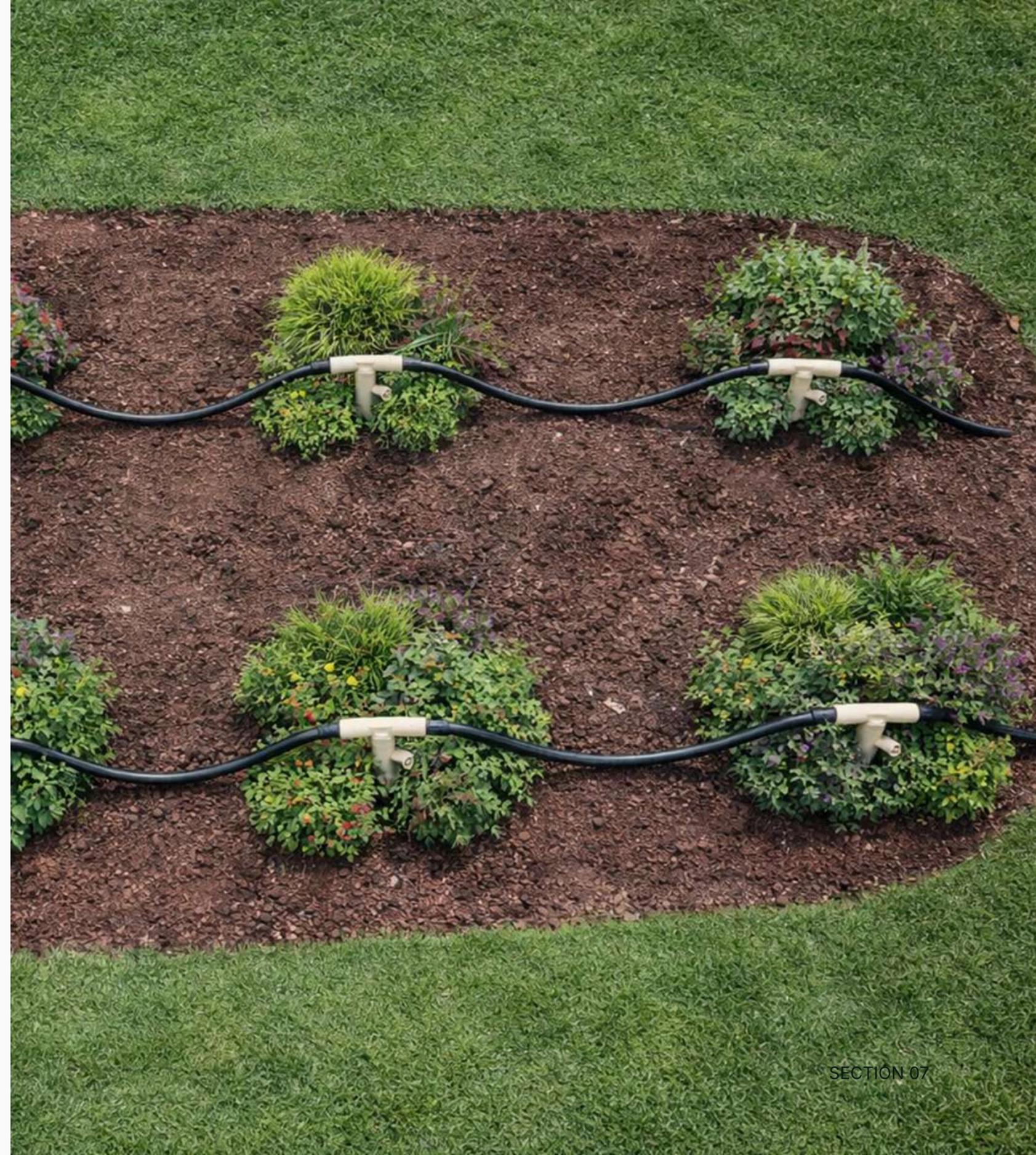
03. Venturi:

Passive air intake



04. Emitter:

Perforated root cone



A SOLUTION FOR EVERY ROOT.

SMALL

DEPTH: 15–25 CM

Perfect for shallow roots. Strawberries, Herbs, Leafy Vegetables, and high-density planting.

MEDIUM

DEPTH: 40–60 CM

Designed for establishment. Vineyards, Figs, Olive saplings, and shrubbery.

LARGE

DEPTH: 90–120 CM

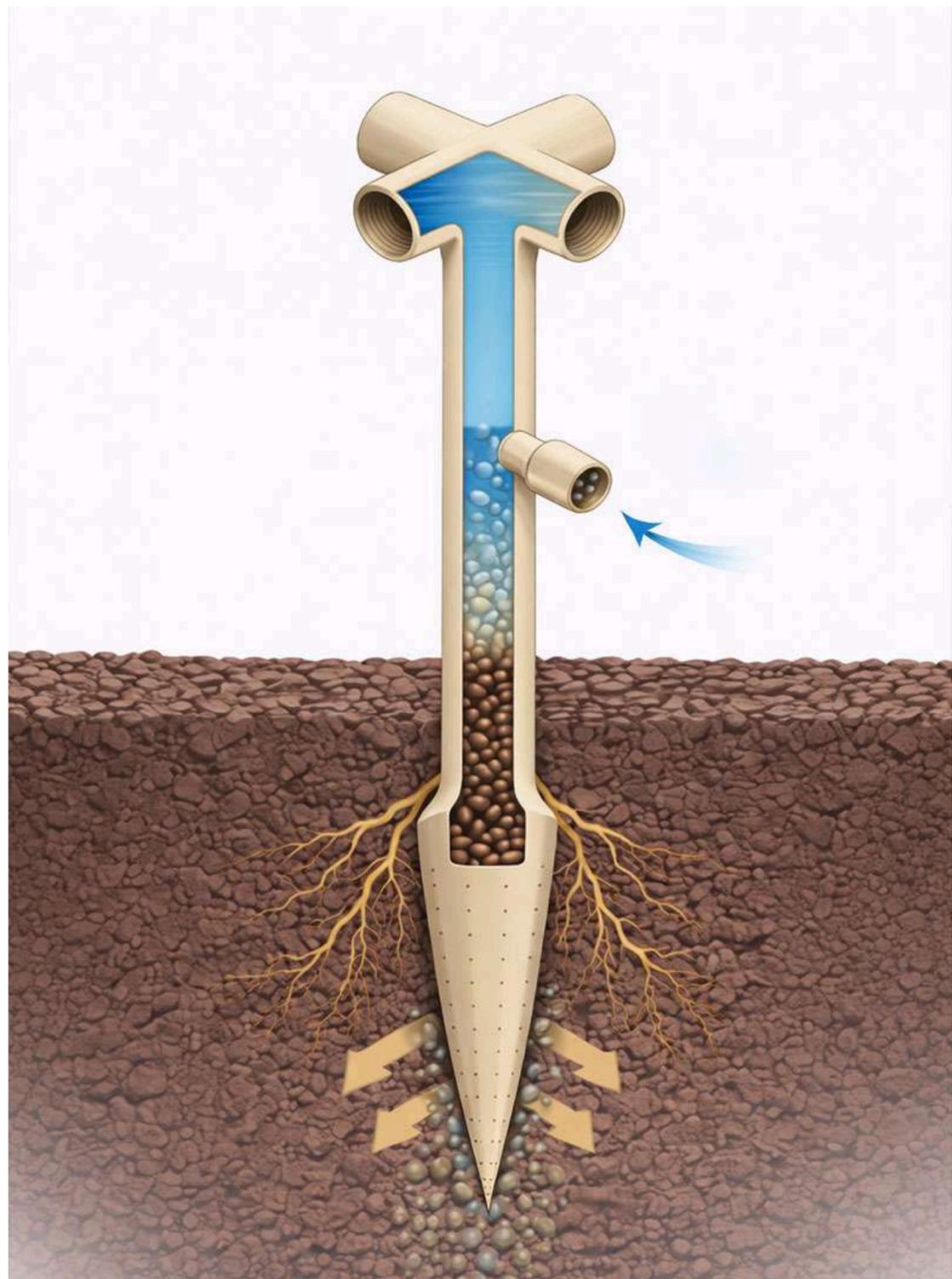
The deep root solution. Date Palms, Fruit Trees, and large-scale desert reforestation.

⇒ BREATHABLE SOIL

THE OXYGEN ADVANTAGE.

In compacted soil, roots struggle for air. [cite_start]Our Venturi system solves this by injecting oxygen and nutrients directly into the water stream[cite: 1, 2].

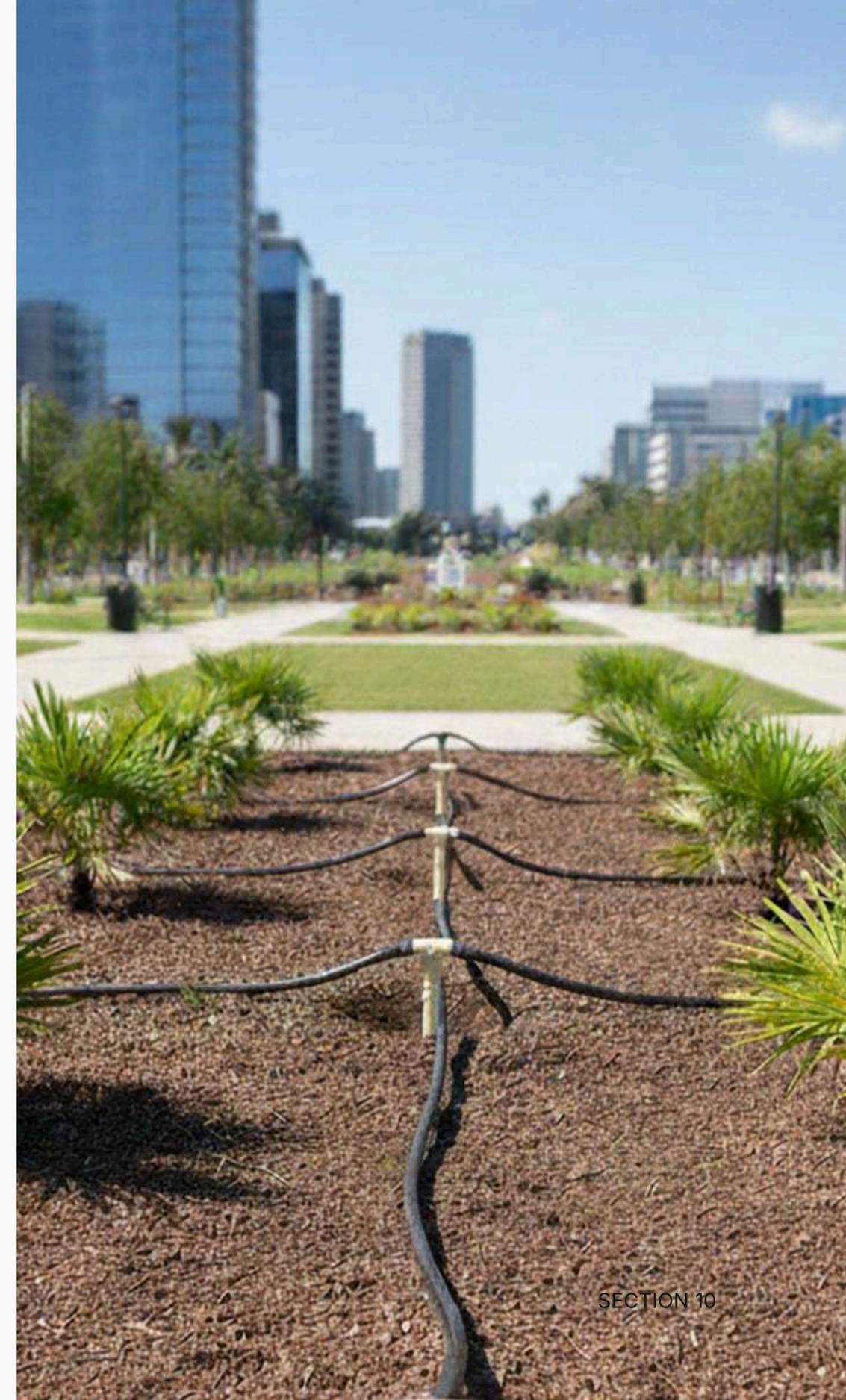
-  **Water Intake:** Precision hydration flow
-  **Air Injection:** Root zone oxygenation
-  **Nutrient Mix:** Vermi-pellet integration



INVISIBLE INFRASTRUCTURE.

For modern cities and hotels, aesthetics matter. Hydra 2.0 can be completely buried, leaving clean architecture and thriving green spaces.

-  **Hidden Tech:** No visible pipes
-  **Low Maintenance:** No surface weeds
-  **Efficient:** No runoff on pavements





 ENGINEERED BREEDING

BREEDING LIFE.

This is advanced biotechnology. We operate **Earthworm Breeding Reactors** to engineer specific biological agents. These high-potency soil amendments are designed to wake up the soil.



Bio-Reactors: Controlled breeding environments



High Potency: Maximum microbial density

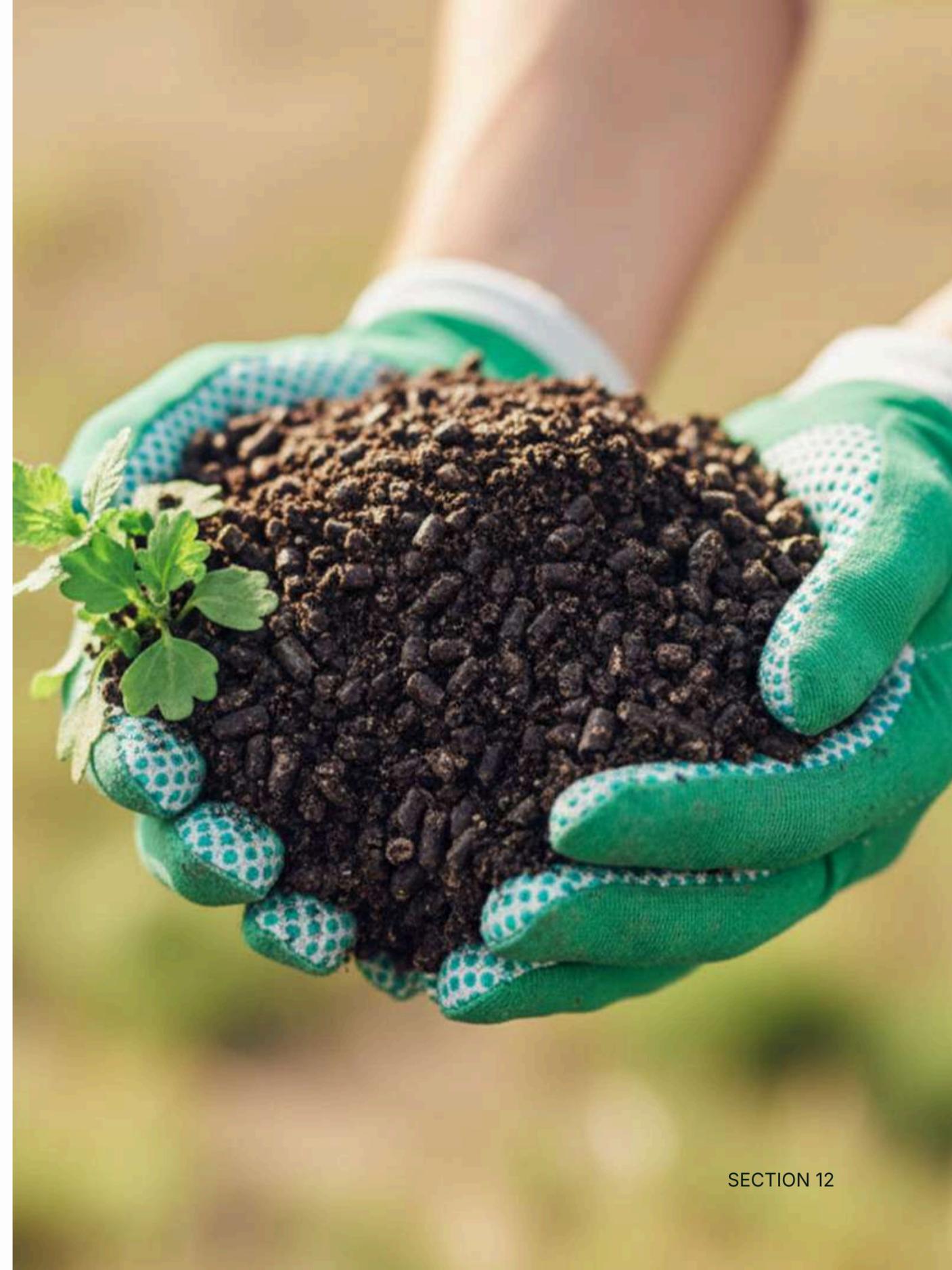
 SOLID CARBON

VERMI PELLETS.

Produced anywhere, applied everywhere. A stable, concentrated biological source ready to activate the moment it hits the ground.

 **Stable Format:** High density application

 **Slow Release:** Sustained soil feeding



WE BUILD HERE.

We establish full-scale biological production hubs regionally. Modular facilities to breed biological agents, produce Vermi-Pellets, and assemble Hydra systems locally.



↗ VALIDATED IMPACT

WATER SAVINGS

-80%

CRITICAL FOR KSA

SOIL CARBON

+200%

RAPID RESTORATION

ENERGY USE

-45%

EFFICIENCY

GROWTH SPEED

3.5X

FASTER FORESTATION

REALIZING THE VISION.



GLOBAL DEPLOYMENT // FULL CAPACITY

 STRATEGIC R&D HUB

SEE IT LIVE.

Our fully operational Strategy Hub in **Cyprus** is live today. It serves as a global validation center where you can witness the entire automated biological lifecycle in action.

 SCHEDULE DELEGATION VISIT



 WORLD'S FIRST

THE AGRO-SOIL ADVISOR.

The first AI in the world dedicated to arid-zone soil physics and biological knowledge. It predicts project success before deployment.

[>_ ACCESS INTELLIGENCE](#)

KNOWLEDGE BASE ACTIVE



PROPRIETARY AI // INTELLIGENCE FRAMEWORK

READY FOR DEPLOYMENT

LET'S BUILD.

 DIRECT LINE

 INITIATE PARTNERSHIP