



HOLD YOUR WATER

The Architectural Evolution of Integrated Storage Fences,
Foundations, and Facades.



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The Imperative of Urban Hydrology

Due to the vast "hard coverage" of soil areas by roofs, concrete driveways, and paths, natural water absorption is severely limited.

90%



of rainwater flows directly to the sea without providing any local benefit.

This creates a dual crisis: unprecedented pressure on municipal drainage systems contributing to local flooding, alongside an immense missed opportunity for localized water resilience.





The Spatial Paradox.

Changing climate conditions demand an increase in residential water capture, but shrinking urban lot sizes leave no room for traditional, bulky storage tanks.

We must stop placing water storage on our properties, and start building properties out of water storage.



The Integration Matrix



A modern outdoor patio area featuring a white, slatted privacy wall. In the foreground, there is a dark metal chair with a black cushion. To the left, a potted plant is visible. The patio is paved with light-colored tiles. The background shows a clear blue sky and some greenery.

I. PERIMETERS.

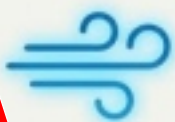
From simple property lines
to high-utility party walls.





Passive Capture, Active Utility.

Core Message – Narrow-profile 'walls' are actively replacing traditional timber fences. Through passive capture of roof runoff, they become highly functional property boundaries.



Windbreaks & Dividers:

Providing structural privacy between residential allotments.




Fire Mitigation:

A literal wall of water acting as a barrier for fire-prone regions.



Micro-Climates:

Assisting in reducing local temperature fluctuations through thermal mass.

The image shows a high-quality garden retaining wall system. A dark green, multi-tiered planter box is built into a stone-paved patio. The planter is filled with a variety of plants, including green leafy herbs and a bush with pinkish-red flowers. The patio is paved with large, light-colored stone tiles. In the background, there's a white building with a dark roof and some tall grasses. The overall aesthetic is clean, modern, and integrated with the surrounding landscape.

Erasing the Manufactured Aesthetic.

High-volume storage does not have to look industrial. Through clever integration of attached accessories, planters, and faux-rock surfaces, the infrastructure disappears entirely into the surrounding landscape architecture.

The storage becomes indistinguishable from premium garden retaining walls.



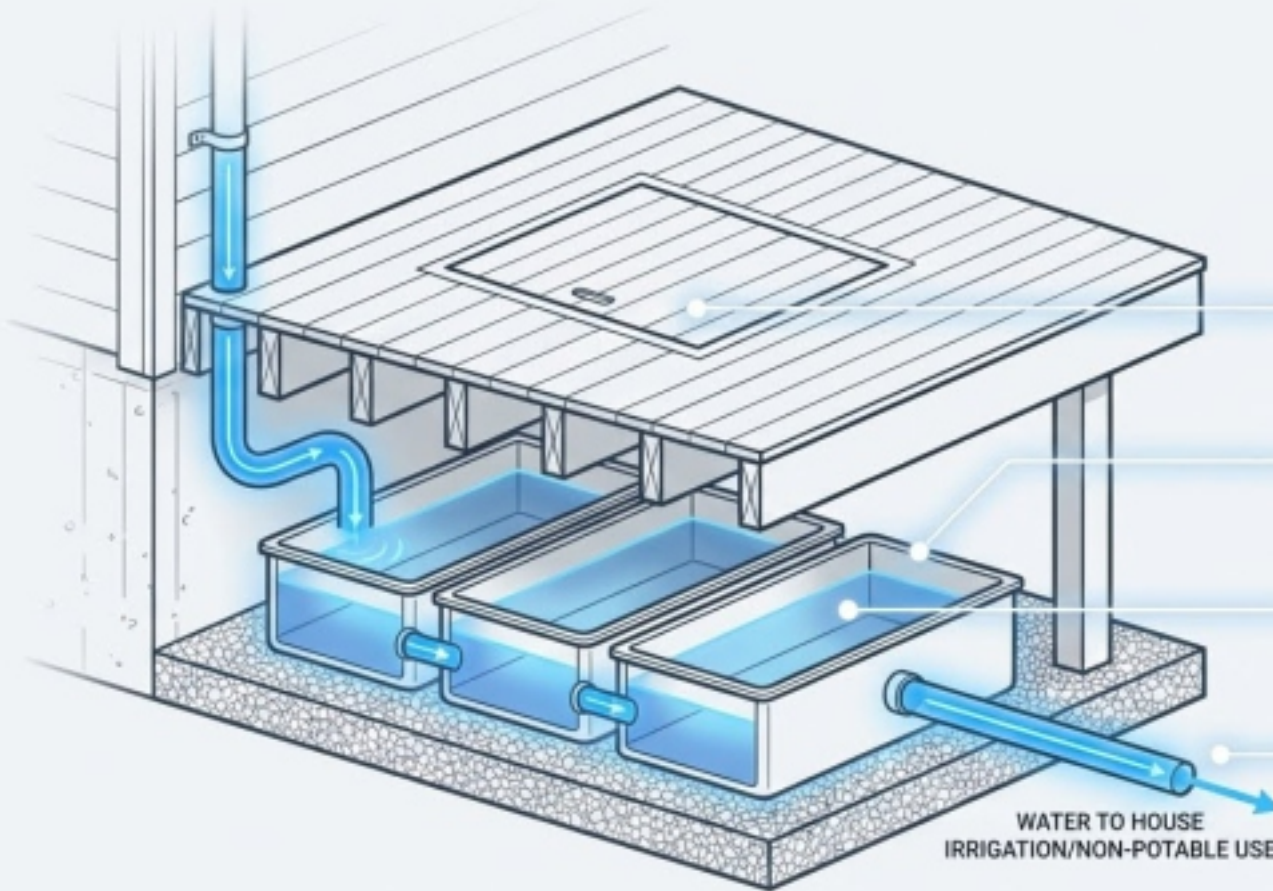


II. GROUNDPLANES.

Reclaiming the foundational footprint.



Anatomy of a Sub-Surface Reservoir



- 1. Rainwater Inlet:**
Directing flow from the roof to the sub-deck space.
- 2. Low-Profile Interconnected Tanks:**
Maximizing horizontal volume within a minimal vertical footprint.
- 3. Access Panel:**
Trapdoor system ensuring routine inspection access.
- 4. Distribution:**
Plumbed directly to the house for irrigation and non-potable domestic use.



Load-Bearing Utility



Step 1: Foundation Prep: Soil is compacted and tanks are laid in grid formation.



Step 2: Structural Integration: Foundation joists are placed directly over the load-bearing tanks, allowing the deck to float effortlessly above a hidden, massive-capacity reservoir.

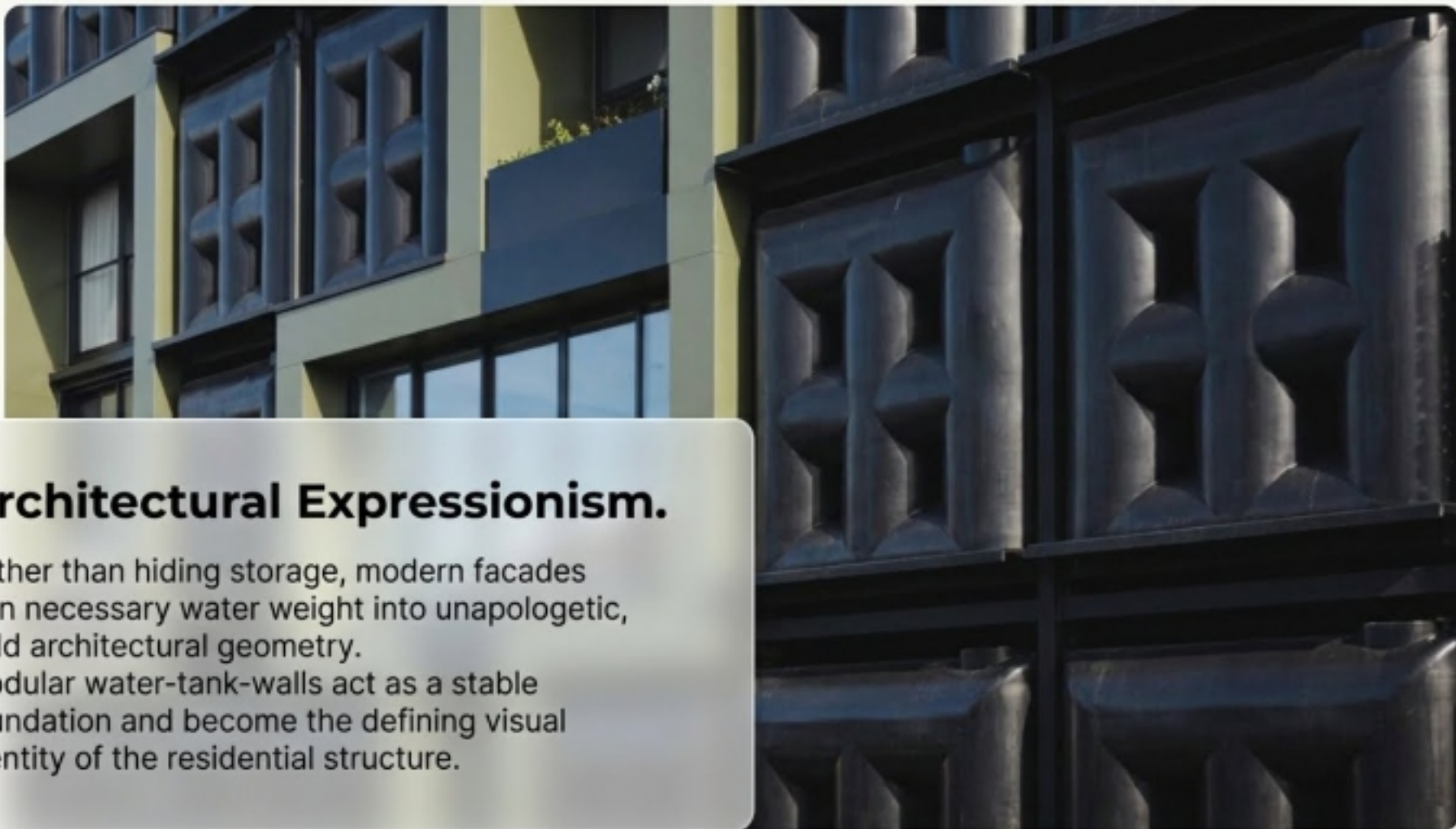




III. ENVELOPES.

When the building itself becomes the cistern.



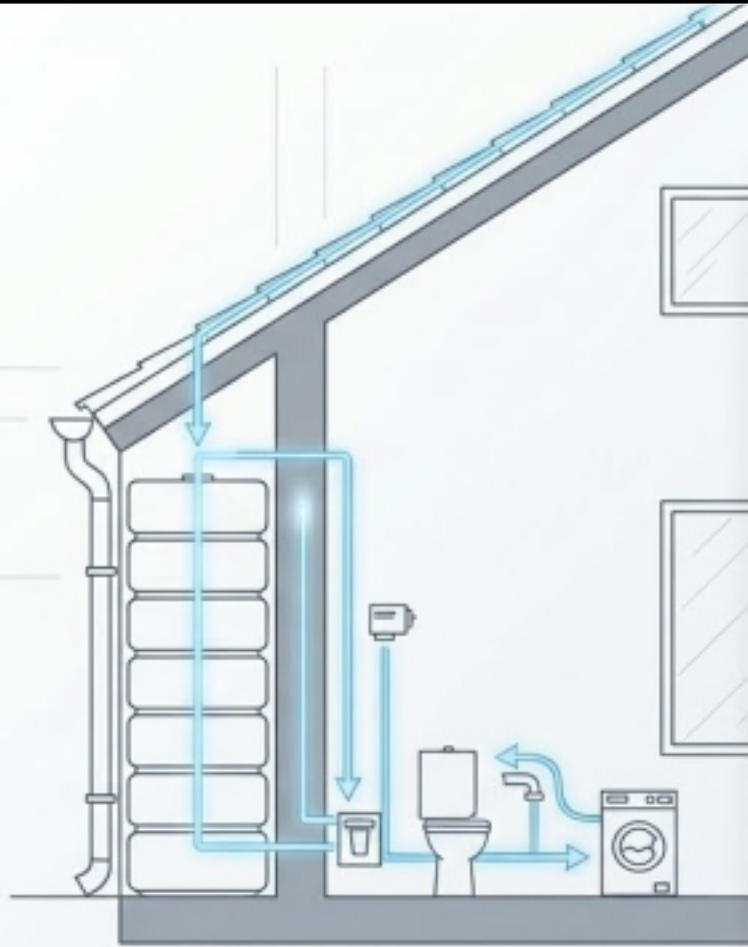


Architectural Expressionism.

Rather than hiding storage, modern facades turn necessary water weight into unapologetic, bold architectural geometry.

Modular water-tank-walls act as a stable foundation and become the defining visual identity of the residential structure.





Closing the Domestic Loop.

Capture:

- Water travels from the roofline into the stacked facade tanks.

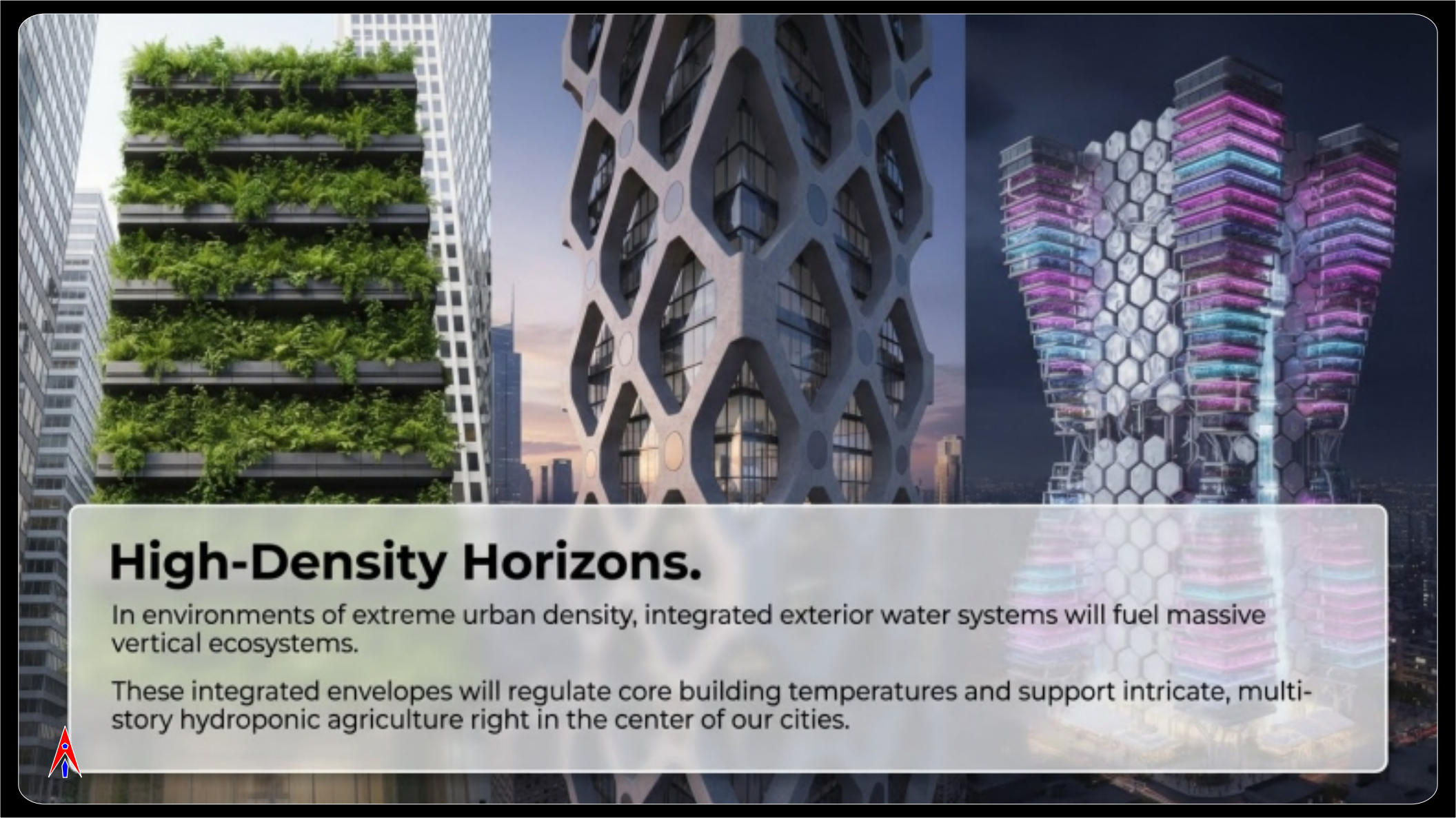
Filtration:

- Directed downward through an integrated filter system.

Application:

- Providing a ready, abundant supply for domestic non-potable use, including washing machines, toilet flushing, and integrated garden irrigation.





High-Density Horizons.

In environments of extreme urban density, integrated exterior water systems will fuel massive vertical ecosystems.

These integrated envelopes will regulate core building temperatures and support intricate, multi-story hydroponic agriculture right in the center of our cities.




The Trillion Gallon Impact.

**100 Million Properties.
x 10,000 Gallons.
= 1 Trillion Gallons.**

A trillion gallons saved from washing out to sea, actively captured on land. While it won't stop sea levels from rising, decentralized mass-storage ensures that the more water stored on land, the better equipped our urban centers will be.





Form, Function, and the Future of Resilience.

It is time to rethink the property line, reclaim the foundation, and reimagine the facade. Hold your water.

