

ARCHITECTURAL AGRICULTURE

*The Synergy of Architecture and Agriculture — Reimagining Food, Cities,
and the Future*

An Academic Article

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Keywords

*Architectural Agriculture | Vertical Farming | Urban Food
Systems | Agroecology | Nigeria | Sustainable Design | Post-
Harvest Infrastructure | Controlled Environment Agriculture*

April 15, 2026

Abstract

This article examines the emerging discipline of Architectural Agriculture, the intentional fusion of architectural design with food production systems, and its transformative potential for global food security, urban resilience, and sustainable development. Drawing on peer-reviewed literature, global case studies, and contextual analysis of Nigeria's agricultural crisis, the paper argues that architecture is not merely a backdrop for food systems but an active participant in shaping how, where, and for whom food is grown. Key typologies explored include vertical farms, agri-integrated high-rises, controlled environment agriculture (CEA), post-harvest storage infrastructure, and agritourism architecture. The study gives particular attention to Nigeria, where compounding crises of food insecurity, post-harvest losses, climate vulnerability, and urbanisation present both urgent challenges and compelling opportunities for architectural intervention. The paper concludes with a roadmap for integration, calling on architects, planners, policymakers, and farmers to co-design the food-productive cities of tomorrow.

1. Introduction: The Forgotten Marriage

Urban space has never been neutral. Every square meter of a city is a decision, what gets built, what gets paved, and what gets planted. For centuries, food production was an integral part of those decisions. In 16th-century Istanbul, Ottoman city planners mandated fig, olive, and pomegranate trees in residential courtyards, embedding agriculture directly into the urban fabric. By the 19th century, 14% of Paris's total land area was dedicated to intensive market gardening, supplying over 100,000 tonnes of fresh produce to the city annually. Edo-period Japan saw Machiya townhouses extend into elongated gardens that sustained families with rice, vegetables, and medicinal plants.

Today, that figure in Paris has collapsed to less than 2%, a sharp reversal that mirrors a global pattern of urban planning systematically severing its relationship with food. As cities modernised, the farm was pushed to the periphery: rural, distant, and invisible to the everyday urban dweller. The consequences of this severance are now acutely felt, in food insecurity, inflated logistics

costs, catastrophic post-harvest losses, and a deepening disconnection between populations and their sustenance.

Architectural Agriculture, defined as the deliberate, design-led integration of food production systems into the built environment, seeks to restore that ancient and essential covenant. It is not a new idea; it is a forgotten one, urgently remembered. As Frank Lloyd Wright envisioned in his Broadacre City concept, 'architecture becomes landscape and landscape takes on the character of architecture by the simple process of cultivation.' This article builds on that vision, examining the theoretical foundations, global precedents, and specific application of Architectural Agriculture, with particular emphasis on Nigeria and the broader developing world.

2. Conceptual Framework: Defining Architectural Agriculture

Architectural Agriculture sits at the intersection of multiple disciplines: architecture, urban planning, agronomy, environmental science, and social equity. It encompasses a wide typological spectrum, from the micro-scale of a balcony greenhouse to the macro-scale of an urban food masterplan, united by a common design philosophy: that buildings, streets, and cities should actively participate in food production rather than merely consuming its outputs.

2.1 Theoretical Foundations

Several intellectual traditions converge in Architectural Agriculture. The Garden City Movement of Ebenezer Howard (1898) proposed that cities should be surrounded by green belts integrating food production. The Continuous Productive Urban Landscapes (CPUL) theory, developed by Viljoen and Bohn, promotes the integration of productive agriculture into public spaces and streets. American architect and urban planner Andrés Duany's Agrarian Urbanism concept argues that urban farming can be embedded in New Urbanist city design through a modular 'kit-of-parts' approach.

Most recently, Agroecology has emerged as the dominant counter-paradigm to industrial farming. As noted in ArchDaily's 2025 synthesis, agroecology 'reframes farming not as extraction, but as regeneration of ecosystems, communities, and the soil itself, treating soil, water, and seed as living commons, not commodities.' Architecture's alignment with this philosophy poses a profound question: how can space support not only production, but stewardship?

2.2 Core Design Principles

The following principles undergird effective Architectural Agriculture:

- Integration over Addition, Agriculture must be designed into structures from inception, not bolted on as an afterthought.
 - Climate Responsiveness, Designs must respond to local climate, water availability, and solar orientation to maximise crop yield.
 - Circularity, Buildings should close loops: greywater recycling for irrigation, composting organic waste, solar energy for artificial lighting.
 - Social Equity, Access to food-productive space must be democratised, not reserved for premium developments.
 - Vernacular Sensitivity, In contexts like sub-Saharan Africa, designs should draw on local materials, knowledge, and cultural practices.
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3. Typologies of Architectural Agriculture

3.1 Vertical Farming & Farmscrapers

Vertical farming integrates crop production into multi-storey structures using controlled lighting (LED grow lights), hydroponic or aeroponic nutrient delivery, and automated climate management. Greenhouses produce 6 to 10 times more crop yield compared to equivalent open fields, making these structures not only sustainable agricultural tools but transformative architectural typologies.

The world's first farmscraper, currently under development in Shenzhen, China, stands at 218 metres and is engineered to produce crops feeding approximately 40,000 people per year, demonstrating that food production at an urban, vertical scale is no longer speculative but commercially viable.

Design Insight

Vertical farms demand that architects master plant science: light spectrum requirements, humidity tolerances, root zone temperatures, and pest management, all within a structural envelope designed for human habitation. The best vertical farm designs do not merely 'add plants' but reorganise the entire building programme around the biological needs of crops.

3.2 Living Facades & Biophilic Envelopes

Building skins are being reimagined as productive surfaces. Projects featuring over 80,000 plants spanning their facades and terraces push the limits of how much nature a high-rise can hold, rethinking urban food production by integrating agriculture directly into the built envelope. These facades serve dual roles, as productive green infrastructure and as passive climate moderators, reducing solar heat gain and improving air quality.

3.3 Rooftop and Balcony Micro-Farms

Urban balconies and rooftops represent a vast, underutilized agricultural frontier. Projects like Ørsted Gardens transform enclosed balcony spaces into year-round greenhouse micro-farms, improving the building's microclimate while enabling residents to grow herbs, vegetables, and small fruiting plants. For high-density cities in the Global South, this typology is especially viable requiring minimal structural modification and offering immediate food security benefits to individual households.

3.4 Circular Agrarian Villages

At the masterplan scale, Architectural Agriculture can underpin entire community models. The Taisugar Circular Village in Taiwan exemplifies this: built around a closed-loop system where food production, waste management, and energy use function as an integrated whole. Edible landscapes supply fresh produce while composting and rainwater harvesting support agricultural cycles, making food production a core urban infrastructure rather than a peripheral amenity.

3.5 Post-Harvest Storage Architecture

In the Global South, post-harvest loss is one of the most devastating structural failures in food systems. Architectural responses include solar-passive cold storage facilities, hermetically sealed grain warehouses built from compressed earth blocks (CEB), and distributed agro-processing hubs designed for climate resilience. Research from the African Journal of Agricultural Science and Food Research (2025) confirms that sustainable building materials such as CEB and bamboo, combined with solar-powered cooling, can dramatically reduce food spoilage in tropical agricultural environments at low cost.

3.6 Agritourism Architecture

A growing segment of Architectural Agriculture merges the agricultural with the experiential. Architects are designing farm estates, distilleries, wineries, and food production facilities where

the built environment creates an immersive encounter with the land. As architect Caitlin Taylor of MASS Design Group has articulated, 'architecture is a way of making invisible forces visible, and making them worth the trip.' This typology also offers significant economic development potential for rural communities in Nigeria and across Africa.

3.7 Smart Agricultural Buildings

The convergence of architecture with IoT, renewable energy, and precision agriculture is producing a new generation of intelligent farm buildings. Research published in 2025 proposes holistic design frameworks that bridge sustainable building design principles with precision agriculture tools, including automated sensors, solar-powered cooling, and smart irrigation, in ways that are affordable and adaptable to local contexts, including Nigeria's rural farming communities.

4. Global Case Studies

The following case studies illustrate the diversity of Architectural Agriculture in practice, from high-tech urban towers to vernacular-informed rural interventions.

CASE STUDY: The Plant, Chicago | United States

Overview

A former meatpacking facility transformed into a net-zero food business incubator. The building houses aquaponic farms, kombucha breweries, a bakery, and a mushroom cultivation operation — all connected in a closed-loop system where the waste output of one tenant becomes the input of another. The architecture reuses the industrial building's thermal mass and repurposes its spatial organisation for circular food production.

Key Outcomes

- Net-zero energy food production facility
- Zero waste through closed-loop resource cycling
- Adaptive reuse of industrial heritage
- Multiple food enterprises cohoused
- Model for post-industrial urban regeneration

CASE STUDY: Plantagon Vertical Farm | Linköping, Sweden**Overview**

A hybrid high-rise integrating a spiralling vertical farm within an office tower. The helical growing structure wraps around the building's interior, enabling crops to move upward on a slow conveyor from planting zone to harvest zone as they grow. The building supplies fresh produce to the surrounding urban district while generating significant research data on integrated urban food systems.

Key Outcomes

- First commercially integrated office-farm hybrid
- Reduces urban food miles to near zero
- Generates year-round fresh produce in sub-Arctic climate
- Architectural innovation in spiralling farm geometry
- Peer-reviewed productivity data for urban farms

CASE STUDY: Taisugar Circular Village | Tainan, Taiwan**Overview**

A master plan for a self-sufficient urban village built on the site of a former sugar factory. The entire community is designed around a circular metabolism: food production, energy generation, waste processing, and water management are integrated into a cohesive spatial system. Edible landscapes surround residential clusters, and all food waste is composted and returned to soil as part of the community's operational rhythm.

Key Outcomes

- Closed-loop urban metabolism by design
- Former industrial brownfield regenerated
- Fully operational edible landscape infrastructure
- Community food sovereignty by design
- Replicable masterplan model for the Global South

CASE STUDY: Paani Farm Community Centre | Rajasthan, India**Overview**

An architect-designed community agricultural centre built entirely from local compressed earth blocks and passive solar principles. The building harvests rainwater for irrigation, uses its roof as a community vegetable garden, and integrates grain storage with passive cooling chambers. Designed for low-income smallholder farmers, it demonstrates that sophisticated Architectural Agriculture does not require advanced technology — only intelligent, climate-responsive design.

Key Outcomes

- Zero external energy inputs
- Integrated rainwater harvesting
- Passive solar grain storage
- Built with local unskilled labour
- Fully replicable in sub-Saharan Africa

CASE STUDY: Ørsted Gardens Balcony Greenhouse | Copenhagen, Denmark

Overview

A residential tower where every balcony has been redesigned as a fully enclosed greenhouse micro-farm. The building's facade integrates photovoltaic panels alongside the growing chambers, making each greenhouse energy self-sufficient for lighting and climate control. Residents grow herbs, vegetables, and fruiting plants year-round, even through the Nordic winter.

Key Outcomes

- Year-round food production in cold climate
- Transforms underused balconies into productive space
- Solar-integrated greenhouse technology
- Measurable microclimate improvement per unit
- Resident wellbeing benefits documented

CASE STUDY: Vertical Farming in High-Rise Estates — Research Project | Lagos & Abuja, Nigeria**Overview**

A 2025 peer-reviewed study (Abayomi et al., Science Publishing Group) assessed the feasibility of integrating vertical farming systems into Nigeria's existing and planned high-rise housing estates. The research evaluated hydroponic and aeroponic systems, renewable energy integration, and community governance models for urban agricultural spaces. The study confirmed both technical and social feasibility, identifying solar energy, community co-management, and locally procured growing media as critical success factors.

Key Outcomes

- Confirmed technical feasibility for Nigerian high-rises
- Solar-powered systems viable for unstable grid
- Community co-management found to increase yield
- Employment generation through local management
- Policy recommendations submitted to Ministry of Works

5. Nigeria: Urgency, Opportunity, and Architecture as Response

5.1 The Crisis in Numbers

Nigeria's food security situation is among the most pressing in sub-Saharan Africa. Nigeria's Ministry of Agriculture has reported that at least 31.5 million citizens are at risk of experiencing a food and nutrition crisis in any given lean season. In May 2024, food inflation reached 40.53 percent, the highest in nearly three decades, driven by currency depreciation, fuel subsidy removal, and rising transportation costs.

The country's agricultural infrastructure depends almost exclusively on haulage trucks for moving produce from farming communities to urban centers. With the removal of government subsidies on petroleum products, logistics costs have risen astronomically, and a significant percentage of perishable produce, including tomatoes, leafy vegetables, and fruits, rots before reaching consumers, contributing to Nigeria's staggering annual post-harvest losses. Agricultural imports reached 3.35 trillion Naira between 2019 and 2023, representing a structural dependence on foreign food that Architectural Agriculture is uniquely positioned to address.

5.2 Structural Vulnerabilities Demanding Architectural Solutions

Climate change has severely disrupted Nigeria's primarily rain-fed agriculture. Irregular rainfall patterns have produced the twin extremes of drought in the north and flooding in the south. The drying of Lake Chad has reduced irrigated dry-season farming across the breadbasket north, while violent farmer-herder conflicts, exacerbated by resource scarcity, have caused significant numbers of farmers to abandon productive land. In over 70% of cases, farming remains dependent on rainfall, with no climate-adaptive architectural infrastructure in place.

The Nigerian Institute of Architects (NIA), in collaboration with the Society of Landscape Architects of Nigeria (SLAN) and the Nigerian Institute of Town Planners (NITP), has been identified as a critical institutional vehicle for developing the national guidelines and advocacy needed to embed agricultural design into urban planning frameworks across Nigeria's 36 states.

5.3 Priority Architectural Interventions for Nigeria

Based on the evidence reviewed, the following architectural interventions represent the highest-impact opportunities for Nigeria:

Priority 1: Solar-Passive Cold Storage Hubs

Design and construct distributed, off-grid, solar-powered cold chain facilities within 20km of major farming communities in Kano, Kaduna, Benue, and Oyo states. Passive cooling architecture using CEB walls and earth berming can maintain temperatures 15–20°C below ambient without electrical power, dramatically reducing perishable crop losses.

Priority 2: Vertical Farm Integration in Lagos & Abuja High-Rises

Mandate agricultural terrace space in all new high-rise residential approvals above 12 floors in Lagos, Abuja, and Port Harcourt. Integrate hydroponic vertical farming systems powered by mandatory rooftop solar installations, producing leafy vegetables and herbs for building residents.

Priority 3: Agro-Processing Architecture in the Middle Belt

Design climate-responsive agro-processing buildings in Nigeria's food-producing Middle Belt, integrating grain drying, milling, and packaging within single architectural envelopes powered by solar and biogas from farm waste — eliminating the need for long-distance transport of raw produce.

Priority 4: Controlled Environment Agriculture Campuses

Develop CEA campuses — architecturally designed enclosed farming complexes — adjacent to Nigeria's major university towns, combining agricultural research, demonstration farming, and commercial production. Kenya's solar-powered vertical farms and South Africa's public-private partnership models offer directly transferable blueprints.

6. Academic Literature Review

The scholarship underpinning Architectural Agriculture is distributed across several disciplines. The following synthesis maps the key intellectual contributions informing this field.

6.1 Urban Agriculture and Built Environment

Viljoen & Bohn's foundational work on Continuous Productive Urban Landscapes (CPULs) established the theoretical basis for embedding productive agriculture into urban spatial frameworks. Their 2005 text 'Continuous Productive Urban Landscapes: Designing Urban Agriculture for Sustainable Cities' remains a canonical reference. Subsequent scholarship by Duany (2011) formalised Agrarian Urbanism as a design methodology within the New Urbanism tradition, providing architects with a practical toolkit for agricultural integration.

More recent contributions from ArchDaily's 2025 synthesis on 'Architecture as Agroecology' argue that architecture must engage with the cultural, relational, and metabolic dimensions of food systems, not merely their spatial footprint. This positions the architect as a steward of ecological systems, not merely a designer of physical structures.

6.2 Controlled Environment Agriculture (CEA) in Sub-Saharan Africa

The 2025 study published in the journal Agriculture (MDPI), 'Impact of Controlled Environment Agriculture (CEA) in Nigeria' provides the most comprehensive peer-reviewed analysis of CEA's

feasibility in a Nigerian context. The authors identify hydroponics, vertical farming, automation, and greenhouse systems as technologies capable of addressing Nigeria's food security gaps, while acknowledging that high initial costs, technical knowledge deficits, and unstable energy infrastructure remain significant barriers. The paper draws direct comparisons with Kenya's solar-powered vertical farm model and South Africa's public-private partnership structures as applicable African precedents.

6.3 Sustainable Building Materials for Agricultural Infrastructure

Research from the African Journal of Agricultural Science and Food Research (Vol. 20, No. 1, 2025), 'Smart Agriculture, Food Loss Reduction, Livestock Housing, and Sustainable Building Technology', presents the most current framework for integrating sustainable building design with Nigeria's agricultural infrastructure needs. The study bridges compressed earth block (CEB) construction, solar-powered cooling, IoT environmental monitoring, and passive livestock housing design within a Nigerian socio-economic context. It identifies bamboo and Hydraform interlocking blocks as locally appropriate structural materials with thermal performance comparable to conventional concrete.

6.4 Vertical Farming in Nigerian High-Rise Housing

Abayomi et al.'s 2025 study (Science Publishing Group, Landscape Architecture and Regional Planning) on 'Application of Vertical Farming Design Strategies in High-rise Housing Estates in Nigeria' is the first empirical study to directly assess the architectural integration of vertical farming into Nigeria's residential building stock. The qualitative research found strong resident preference for renewable-energy-driven growing systems and identified community co-management as a critical success factor. The study benchmarks Nigerian possibilities against established urban farming models in Singapore and New York.

6.5 Architecture, Agribusiness, and Postcolonial Landscapes

Michele Tenzon's 2024 fellowship research for the Society of Architectural Historians, 'Architecture, Agriculture, and What Was Left Behind', offers a critical historical lens on the relationship between architecture and agriculture in postcolonial Africa. Studying the spatial legacy of palm oil and groundnut agribusiness in West and Central Africa, Tenzon argues that 'agribusiness creates a spatial continuity that binds seemingly disparate regions into a shared, though uneven, economic landscape.' His work challenges architects to engage with the power

dynamics embedded in agricultural infrastructure rather than treating food production as a neutral technical challenge.

6.6 Living Materials and Regenerative Architecture

ArchDaily's 2025 convergence report on architectural trends documents the mainstreaming of living building materials, mycelium, algae, agricultural by-products, and bio-based composites, from speculative research into early building systems. Experiments such as the 'Hybrid Habitats' pavilion, which reimagines date palm by-products as responsive architectural systems combining low-tech construction with microbial pigments and parametric design, signal a future in which buildings and farms share not only space but material substance.

7. A Roadmap for Architectural Agriculture

7.1 For Nigeria

- Integrate rooftop farms and vertical growing systems into all new public housing projects above 8 floors in Lagos, Abuja, Kano, and Port Harcourt, with incentive structures for private developers.
- Develop a national Agro-Architecture Building Code annex, drafted jointly by the Nigerian Institute of Architects, Ministry of Agriculture, and Ministry of Works, specifying minimum agricultural space standards for different building typologies.
- Design and fund a network of solar-passive post-harvest storage hubs, strategically positioned in the Middle Belt farming zone, using local CEB construction with passive cooling chambers.
- Establish Controlled Environment Agriculture campuses adjacent to agricultural universities in Makurdi, Abeokuta, and Umudike, serving as living laboratories for Architectural Agriculture research and demonstration.
- Train a new generation of Nigerian architects in agroecological design, integrating food systems modules into all accredited architecture programmes at NIA-recognised universities.
- Leverage the Nigerian Institute of Architects' collaboration with SLAN, NITP, and NIESV to create a national think tank dedicated to guidelines for urban farming within estate planning and building approval processes.

7.2 For the World

- Mandate agricultural integration thresholds in urban masterplans, establishing minimum productive green space standards in all new urban developments above a defined scale.
- Create policy incentives, tax relief, expedited approvals, green bond eligibility, for developers who embed food production systems into commercial and residential buildings.

- Design Continuous Productive Urban Landscape (CPUL) corridors through all major cities, threading productive farms through public parks, street margins, and underutilized urban land.
 - Establish international knowledge-sharing platforms connecting architects, agronomists, food system planners, and community organizations to co-develop context-sensitive Architectural Agriculture typologies.
 - Invest in living building materials research, mycelium, agricultural waste composites, bamboo, as mainstream structural and insulation materials for agricultural and residential buildings alike.
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8. Conclusion: The Architect as Farmer

The architect of the future must think like a farmer, understanding seasons, soil, water cycles, and yield, while the farmer of the future will increasingly benefit from thinking like an architect, designing for resilience, efficiency, and beauty. Architectural Agriculture is not a utopian projection; it is a return. A return to the logic of cities that grew food, to the intelligence of buildings that worked with their climate, and to the fundamental human truth that food and shelter are not separate needs but a single integrated condition of life.

For Nigeria, a nation blessed with some of the most fertile soil on earth, a young and growing urban population, and an architectural profession with deep roots and growing ambition, Architectural Agriculture is not merely a design trend. It is a strategic national imperative. The crisis of food insecurity, post-harvest loss, climate disruption, and import dependency demands an architectural response of equal ambition and scale.

The discipline will require architects to step beyond the drawing board and into the field, literally. It will require planners to hold soil science alongside zoning law. It will require farmers to welcome the designer's eye into their practice. And it will require governments to recognise that investing in Architectural Agriculture is simultaneously an investment in food security, climate adaptation, employment, public health, and the quality of urban life.

The seeds are planted. The question is whether we have the courage, and the creativity, to let them grow.

References

- [1] Viljoen, A., & Bohn, K. (2005). *Continuous Productive Urban Landscapes: Designing Urban Agriculture for Sustainable Cities*. Architectural Press, Oxford.
- [2] Duany, A. (2011). *Garden Cities: Theory & Practice of Agrarian Urbanism*. The Town Paper Publisher.
- [3] Abayomi, L.H., Olanusi, J.A., Adamu, M., & Adetoyese, A.K. (2025). Application of Vertical Farming Design Strategies in High-rise Housing Estates in Nigeria. *Landscape Architecture and Regional Planning*, Vol. 10, No. 2. Science Publishing Group. <https://doi.org/10.11648/j.larp.20251002.11>
- [4] Udo, T.O. et al. (2025). Smart Agriculture, Food Loss Reduction, Livestock Housing, and Sustainable Building Technology in Nigeria. *African Journal of Agricultural Science and Food Research*, Vol. 20, No. 1. <https://doi.org/10.62154/ajasfr.2025.020.01021>
- [5] Nwosu, C., Okafor, B., & Ibrahim, S. (2025). Impact of Controlled Environment Agriculture (CEA) in Nigeria: A Review of the Future of Farming in Africa. *Agriculture*, 15(2), 117. MDPI. <https://doi.org/10.3390/agriculture15020117>
- [6] Agbo, Jr., M. (2024). Urban Farming: A Sustainable Pathway Out of Nigeria's Unfolding Food Crisis. *ArchDaily*. <https://www.archdaily.com/1019622>
- [7] Ferreira, D.B. (2025). Rhythms of the Soil: Architecture as Agroecology. *ArchDaily*. <https://www.archdaily.com/1031867>
- [8] Tenzon, M. (2024). Architecture, Agriculture, and What Was Left Behind. *Society of Architectural Historians Blog*. <https://sah.org/2024/11/13>
- [9] Architizer Editorial. (2025). Architecture Meets Agriculture: Cultivating Change, Designing for Dinner. *Architizer Journal*. <https://architizer.com/blog/inspiration/collections/cultivating-change>
- [10] Agritecture Consulting. (2023). 3 Ways to Integrate Agriculture into Architectural Projects. *Agritecture.com*. <https://www.agritecture.com/blog/2023/4/13>
- [11] ArchDaily. (2025). Converging Architectural Trends in 2025: Circularity, Biomaterials, and Carbon-Conscious Design. <https://www.archdaily.com/1037027>
- [12] Kiribou, R., et al. (2024). Urban Farming System and Food Security in Sub-Saharan Africa: Analysis of Current Status and Challenges. *Urban Agriculture & Regional Food Systems*, Wiley Online Library. <https://doi.org/10.1002/uar2.70007>
- [13] FEWS NET. (2024). Nigeria Food Security Outlook: June 2024 – January 2025. ReliefWeb / Famine Early Warning Systems Network.
- [14] This Day Live. (2024). Priority Areas to Drive Nigeria's Agricultural Sector in 2024. <https://www.thisdaylive.com/index.php/2024/01/16>
- [15] Howard, E. (1898). *To-Morrow: A Peaceful Path to Real Reform [Garden Cities of To-morrow]*. Swan Sonnenschein, London.
- [16] Wright, F.L. (1932). *The Disappearing City*. William Farquhar Payson, New York.
- [17] Jonite Insights. (2025). Agriculture Architecture. <https://insights.jonite.com/agriculture-architecture>
- [18] Guardian Nigeria. (2024). Rethinking Urban Landscapes: The Case for Urban Farming in Nigeria. <https://guardian.ng/news/rethinking-urban-landscapes>

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Journal of Built Environment & Sustainable Design Studies | Vol. 12, No. 2 | April 2026