

PUREHARVEST GLOBAL

Automated Vertical Farms • Food Security
Medicinal Botanicals

Growing healthier cities, protecting people
and expanding access to fresh food—through
controlled, traceable, low-chemical
agriculture.

A GLOBAL HUMANITARIAN AGRICULTURE AGENDA



Our Mission

Build a global network of automated vertical farms that grows nutritious food and high-quality medicinal botanicals close to the communities that need them.

Healthy food

Locally grown leafy greens, herbs and fresh produce available throughout the year.

Clean cultivation

Preventive pest management, monitored water and residue testing.

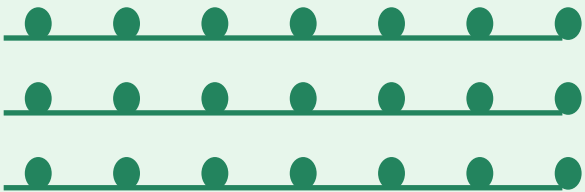
City resilience

Shorter supply chains and reliable indoor growing capacity.

People & opportunity

Jobs, farm-technician training, small businesses and neighborhood distribution.

Three Farm Sites That Can Support a City

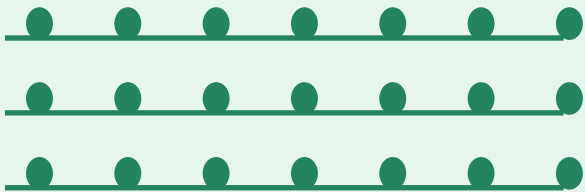


01

Central Production Campus

Industrial or peri-urban site

Large automated grow rooms, nursery, packing, cold-chain and training hub.

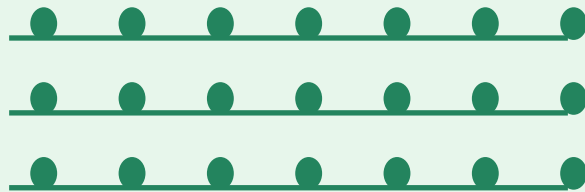


02

Neighborhood Satellite Farms

Warehouses or vacant retail sites

Fresh greens and herbs close to schools, markets and local food banks.



03

Hospital & Botanical Greenhouse

Healthcare/research district

Controlled herbs and specialty crops with documented identity and traceability.

What We Grow: Food & Medicinal Botanicals

Everyday food

Leafy greens: lettuce, kale, spinach and chard.

Herbs: basil, mint, parsley and cilantro.

Selected strawberries and specialty crops after trials.

Botanical crops

Peppermint, lemon balm, chamomile and other permitted medicinal-botanical crops.

Identity, cleanliness, traceability and quality testing before sale or processing.

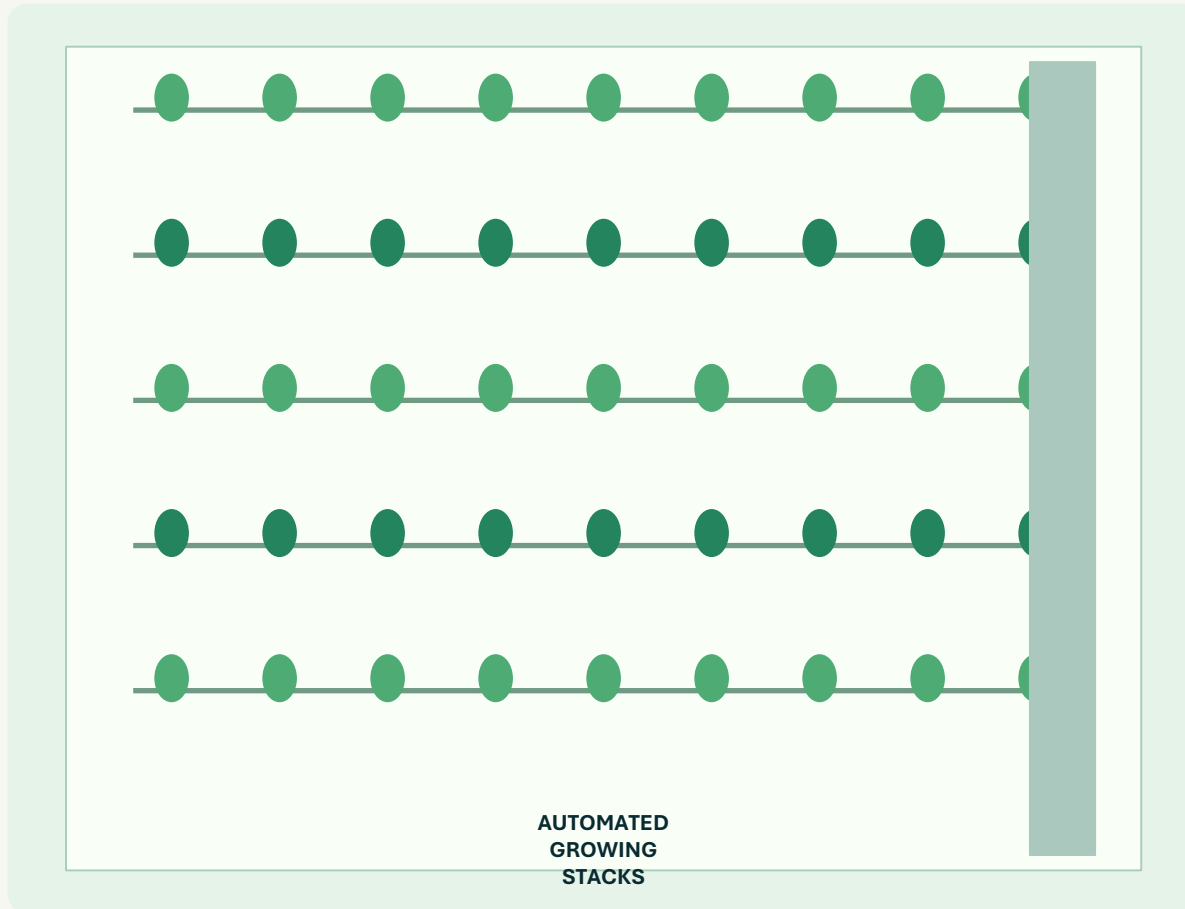
Value-added products

Packaged salads, culinary herbs, dried herbs, herbal teas and permitted botanical ingredients.

Separate food-grade and regulated pharmaceutical supply chains.

Important: Growing medicinal herbs is not the same as proving a medical treatment is effective.

Automated Farm & Processing Plant



Automated racks

Multi-tier growing systems and crop scheduling

Climate & LEDs

Controlled lighting, humidity, temperature and airflow

Water systems

Recirculating irrigation with quality monitoring

Digital monitoring

Sensors, traceability, alerts and yield analytics

Harvest & packing

Food-safety controls, packaging and cold-chain

Can Vertical Farms Feed a City?

A network—not a single building

Combine a central campus, satellite farms, outdoor regional growers, warehouses and neighborhood distribution sites.

Vertical farming can contribute substantial fresh greens and herbs. It cannot, by itself, supply a city's entire calorie, grain and protein needs.

City planning checklist

1. Population and dietary demand
2. Crop mix and validated yield
3. Power and water requirements
4. Commercial costs and logistics
5. Affordability and equity

Illustrative network design: 1 central growing campus + several urban satellites + external partner farms. Scale is determined by feasibility studies.

Why Reduce Hazardous Pesticide Exposure?

Human health

Some pesticides can cause acute poisoning or chronic harm at sufficient exposures. Occupational handlers face particular risks.

Risk depends on the substance, exposure level and route.

Ecosystems

Persistent chemicals can contaminate soil and water. Poor management can affect beneficial organisms and surrounding ecosystems.

PureHarvest approach

Use exclusion, sanitation, monitoring, biological controls where suitable, and independent product testing. Aim for pesticide-free production where feasible.

WHO: pesticide exposure risks vary; legally compliant residues are not automatically unsafe. Prevention and monitoring remain essential.

Global Agenda: From Pilot to City Network

01

Demonstrate



Pilot production, test crop yields, energy use and unit economics.

02

Integrate



Serve hospitals, schools, markets and social food programs.

03

Localize



Train growers, employ technicians, engage SMEs and local suppliers.

04

Replicate

Expand to additional cities after independent technical and financial review.

GROW LOCAL • PROTECT HEALTH • CREATE JOBS • STRENGTHEN FOOD SECURITY

Evidence & Planning Considerations

Evidence sources

World Health Organization (2022), “Pesticide residues in food.”

<https://www.who.int/news-room/fact-sheets/detail/pesticide-residues-in-food>

World Health Organization (2020), “Chemical safety: Pesticides.”

<https://www.who.int/news-room/questions-and-answers/item/chemical-safety-pesticides>

FAO family-farming collection (2022), “What You May Not Realize about Vertical Farming.”

<https://www.fao.org/family-farming/detail/en/c/1757288/>

Site selection, yield, energy costs, food safety, product regulations, and crop suitability require country-specific feasibility and legal review.