2050

+9 billion

Demand

70%

Fresh Food

Supply
WHY IS SUPPLY DECREASING?

DIMINISHING ARABLE LAND
FRESH WATER SCARCITY
SEASONALITY & PRICE FLUCTUATION
PESTS
USE OF PESTICIDES

CROP LOSSES
NO PREDICTIBILITY
LOW PROFITS

Mass Exits
Building a Sustainable Global Food and Medicine Supply for the Future
Commercial Indoor Vertical Farming Systems

Modular, Climate-Controlled, IoT-Automated,

- **X30 Yield/M²** compared to a greenhouse
- **-95% Water**
- **-75% Labor**

Rapid Payback

**GROWS 365** Days/Yr.

NO

- Pesticides
- Guesswork
- Crop Losses
Case Study: Greenhouse Vs. LiveCube™

Koura, North Lebanon
Before
After
Over 70 Varieties Successfully Grown and Sold
In-House Incubation

Rapid, contamination-free germination
<table>
<thead>
<tr>
<th></th>
<th>Traditional Greenhouse</th>
<th>LiveCube™ Vertical Indoor System</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Production Area</strong></td>
<td>224M²</td>
<td>84M²</td>
</tr>
<tr>
<td><strong>Production Volume</strong></td>
<td>~6,000 - 9,000 Plants/Yr.</td>
<td>~180,000 Plants/Yr.</td>
</tr>
<tr>
<td><strong>Water Consumption</strong></td>
<td>~1,100,000 Liters/Yr.</td>
<td>~72,000 Liters/Yr.</td>
</tr>
<tr>
<td><strong>Labor Requirement</strong></td>
<td>3 employees</td>
<td>2 employees</td>
</tr>
<tr>
<td><strong>Crop Losses</strong></td>
<td>&gt;30%</td>
<td>~1%</td>
</tr>
</tbody>
</table>
LiveCube™
Over 200 Varieties of Salad Greens, Herbs, Micro greens, Saffron, & Strawberries
Modular Vertical Farming Hardware + Proprietary OS

OmniHive™
Vines, Bushes, Stalks, Tubers, Dwarf Fruit Trees, Medical & Cosmetic Plants
Modular Vertical Farming Hardware + Proprietary OS

Jarvis™
Cloud-connected Production & Inventory Management Dashboard (SAAS)
Turnkey Solution

**Production**

- Production Equipment Installation & Starting Supplies Provision

**Operational**

- Ongoing Support, Maintenance, & Software upgrades
- All Consumables Provision

**Add-on Automated Management Services**

- Production Management (SaaS)
- Produce Sales Management (SaaS)
### Benefits:

- Modular, scalable, economically feasible technology.
- BIG savings in water and fertilizers. Low power consumption.
- Immediately applicable: in strategy, and physical deployment
- Requires no infrastructure investments from the government
- Proudly made in Lebanon: requires no foreign expertise or workforce
- Will exponentially boost Lebanese agro-production output in terms of quality and volume
- Will allow Lebanese producers to supply the surrounding region with fresh, high-quality, off-season produce, year-round, at fixed prices and a fraction of the logistical cost and carbon footprint
- Will seamlessly plug & play into the medical/pharmaceutical cannabis industry immediately upon legalization, making government regulation & control much easier via Blockchain technology
Target Markets

- Hydroponics & Precision Agriculture Equipment: $28B
- Fresh Food Imports: $115B
- Herbal Medicine Industries: $111B
Competitive Advantages

Set Up Cost (per plant site)

- Freight Farms*: $106
- LifeLab: $30

Power Consumption

- Freight Farms*: -20%
- LifeLab: $30

Production Volume/M (Compared to Greenhouse Production)

- Freight Farms*: x5
- LifeLab: x30

Payback Period

- Freight Farms*: 8.8 Yrs
- LifeLab: 2.5 Yrs

* www.FreightFarms.com